



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

June 29, 2020

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

RE: Notice of Exempt Modification for AT&T - 803175
167 Cocco, New Britain, CT 06051
Latitude: 41° 41' 11.80" / Longitude: -72° 45' 27.80"

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 188-foot mount on the existing 188-foot Monopole Tower, located at 167 Cocco, New Britain, CT. The tower and property are owned by Crown Castle. AT&T now intends to remove and replace three (3) existing antennas, as well as, add three (3) antennas to their existing configuration. The new antennas will be installed at the 188-ft level of the tower. AT&T is also proposing tower mount modifications as shown on the enclosed Mount Analysis.

The Connecticut Siting Council approved of this facility's tower share capabilities via TS-VER-089-010418 on April 27, 2001. The facility was approved by the City of New Britain Building Department via a Building Permit application sometime in November of 2000.

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 Erin E. Stewart, Mayor for the City of New Britain, David D. Zajac, Zoning Enforcement Officer, and Crown Castle is both the tower and 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
Site Acquisition Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
(201) 236-9224
AnneMarie.Zsamba@crowncastle.com

Attachments

cc:

The Honorable Erin E. Stewart, Mayor (*via email only to mayor@newbritainct.gov*)
City of New Britain
27 West Main Street
New Britain, CT 06051

David D. Zajac, Zoning Enforcement Officer
City of New Britain
27 West Main Street
Room 404
New Britain, CT 06051

Crown Castle, Tower & Property Owner

ORIGIN ID:ONHA (585) 445-5896
RICHARD ZAJAC
CROWN CASTLE
629 KAYLEIGH DR
WEBSTER, NY 14580
UNITED STATES US

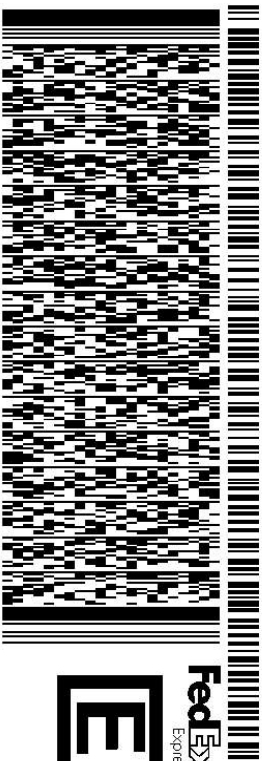
SHIP DATE: 29 JUN 20
ACTWGT: 1.00 LB
CAD: 104924194/NET4220

BILL SENDER

TO **DAVID ZAJAC, ZEO**
CITY OF NEW BRITAIN, BUILDING DEPT
27 WEST MAIN STREET, ROOM 404

NEW BRITAIN CT 06051

(201) 236-9224 REF: 1734.7890
INV: DEPT:
PO:

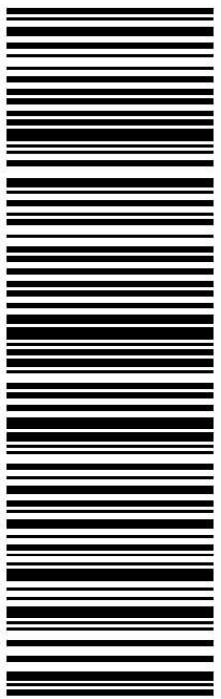


J201120042401uu

56BJ217B7/FE4A

TRK# 7708 2826 8182
0201
TUE - 30 JUN 10:30A
PRIORITY OVERNIGHT

XE BDLA
06051
CT-US BDL



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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.

From: [Zsamba, Anne Marie](#)
To: ["mayor@newbritainct.gov"](mailto:mayor@newbritainct.gov)
Subject: Notice of Exempt Modification - 803175 - AT&T - 167 Cocomo
Date: Monday, June 29, 2020 3:45:00 PM
Attachments: [EM-AT&T-803175-167 Cocomo New Britain_notice.pdf](#)

Dear Mayor Stewart:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council, today June 29, 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

Exhibit A

Original Facility Approval



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

April 27, 2001

Kenneth C. Baldwin
Robinson & Cole
280 Trumbull Street
Hartford, CT 06103-3597

RE: **TS-VER-089-010418** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 167 Lester Street, New Britain.

Dear Attorney Baldwin:

At a public meeting held April 26, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated April 18, 2001.

Thank you for your attention and cooperation.

Very truly yours,



Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Lucian J. Pawlak, Mayor, City of New Britain
Planning and Zoning Department, City of New Britain
Robert Stanford, Crown Atlantic Company LLC

ROBINSON & COLE LLP

HARTFORD • STAMFORD • GREENWICH • NEW YORK • BOSTON

LAW OFFICES
www.rc.com

280 Trumbull Street
Hartford, CT 06103-3597
860-275-8200
Fax 860-275-8299

Kenneth C. Baldwin
860-275-8345
kbaldwin@rc.com

April 18, 2001

Via Hand Delivery

Mr. Joel M. Rinebold
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Request of Cellco Partnership d/b/a Verizon Wireless for an Order to Approve the Shared Use of a Tower Facility at 167 Lester Street, New Britain, Connecticut**

Dear Mr. Rinebold:

Pursuant to Connecticut General Statutes §16-50aa, as amended, Cellco Partnership d/b/a Verizon Wireless ("Cellco") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use by Cellco of an existing tower located at 167 Lester Street in New Britain, Connecticut. Cellco requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in Connecticut General Statutes § 16-50aa and issue an order approving the proposed use.

Background

In November of 2000, Crown Atlantic Company LLC applied for and subsequently received a building permit for the construction of a telecommunications tower at 167 Lester Street in New Britain. The Lester Street site lies within the Town's I-2 Industrial zone. Telecommunications towers are permitted "as of right" in the I-2 zone district.

As the Council is aware from discussions in previous dockets, Crown and Verizon Wireless have entered into a build-to-suit (BTS) agreement which requires Crown to pursue tower leases and regulatory approvals for sites within search areas issued by Verizon Wireless. Tower proposals which emanate from the BTS agreement have been, and will continue to be presented to the Siting Council for approval.

ROBINSON & COLE LLP

Joel M. Rinebold

April 18, 2001

Page 2

The Lester Street tower however, was not the result of the BTS agreement. This tower was built as one of Crown's so-called "Greenfield" projects, proposed and built on speculation much like towers being built statewide by companies such as SBA Inc. and American Tower. It was not until after the tower was approved by the City building official that Verizon Wireless expressed an interest in the New Britain site. For the Council's information, Crown has also recently been notified by AT&T Wireless that they are interested in sharing this tower. The AT&T request will be the subject of a future tower share request.

As the Council is aware, Cellco is licensed by the Federal Communications Commission (FCC) to provide cellular wireless telephone service in the State of Connecticut, which includes the area to be served by Cellco's proposed New Britain installation. Cellco and Crown have agreed to the proposed shared use of this tower pursuant to mutually acceptable terms and conditions, and Crown has authorized Cellco to act on its behalf to apply for all necessary local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of this facility.

Cellco proposes to install twelve (12) panel-type antennas at the 145-foot level on the tower. The radio transmission equipment associated with these antennas would be located in a new 12-foot by 30-foot equipment building which would be located near the base of the tower. (See attached Project Plans).

C.G.S. § 16-50aa(c)(1) provides that, upon written request for approval of a proposed shared use, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use." The shared use of the tower satisfies those criteria as follows:

A. Technical Feasibility. The existing tower is structurally capable of supporting the proposed Cellco antennas. The Lester Street tower was designed to accommodate a minimum of four antenna platforms, with twelve (12) antennas mounted on each platform. The proposed shared use of this tower therefore is technically feasible.

B. Legal Feasibility. Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility such as the Lester Street facility in New Britain. This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. In addition, § 16-50aa directs the Council to "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing towers facilities. Under the statutory authority vested

in the Council, an order by the Council approving the requested shared use would permit the Applicant to obtain a building permit for the proposed installations.

C. Environmental Feasibility. The proposed shared use would have a minimal environmental effect, for the following reasons:

1. The proposed installations would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. In particular, the proposed installations would not increase the height of the existing tower, and would not extend the boundaries of the tower site outside the limits of the existing site compound.
2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of antennas at this site would not exceed the total radio frequency (RF) electromagnetic radiation power density level adopted by the Federal Communications Commission. The "worst-case" exposure calculated for operation of this facility (i.e., calculated at the facility boundary, which represents the closest publicly accessible point within the broadcast field of the antennas), would be 0.0325 mW/cm² (5.57% of the standard) for Cellco antennas.
4. The proposed installation, would not require any water or sanitary facilities, or generate air emissions or discharges to water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete the proposed installations would not generate any traffic other than periodic maintenance visits.

The proposed use of this facility would therefore have a minimal environmental effect, and is environmentally feasible.

E. Economic Feasibility. As previously mentioned, Crown and Cellco have entered into a mutual agreement to share the use of the tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

F. Public Safety Concerns. As stated above, the proposed tower will be structurally capable of supporting the Cellco antennas. Cellco is not aware of any public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or improved

ROBINSON & COLE LLP

Joel M. Rinebold

April 18, 2001

Page 4

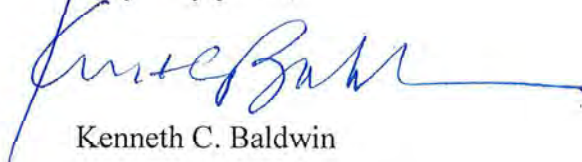
phone service through shared use of the existing tower is expected to enhance the safety and welfare of area residents.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower off Lester Street in New Britain, Connecticut satisfies the criteria stated in C.G.S. § 16-50aa and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in Connecticut. The Applicant therefore requests that the Siting Council issue an order approving the proposed shared use.

Thank you for your consideration of this matter.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Kenneth C. Baldwin", with a long horizontal flourish extending to the right.

Kenneth C. Baldwin

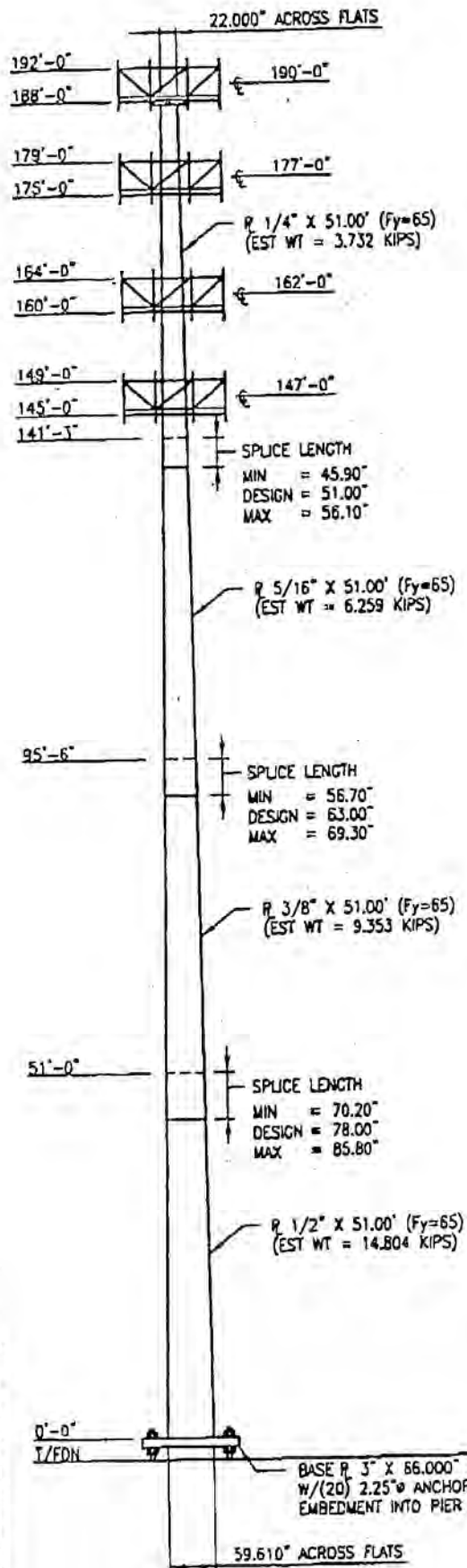
KCB/kmd
Attachments

SUMMIT MANUFACTURING, LLC

225 KIWANIS BOULEVARD, WEST HAZLETON, PA 18201
 PHONE: (888) 847-6537 E-MAIL: SUMMITCA@EPIX.NET
 FAX: (888) 460-6885 WWW.SUMMITMFGLLC.COM



PAUL J. FORD AND COMPANY
 STRUCTURAL ENGINEERS
 250 East Broad Street, Suite 500, Columbus, Ohio 43215
 (614) 221-6679 Fax: (614) 221-0166 www.PJFweb.com



JOB DATA			
Page 1 of 3	Job No.	29200-1787	
By MFP / KJS	Design No.	SUMMIT JOB #12481	
Chk'd By	Date	12-11-2000	
	Rev. No.	Rev. Date	
Pole	190-FT EXPRESS POLE		
Site	NEW BRITAIN III., HARTFORD CO., CT		
Owner	CROWN CASTLE		
Ref. No.			
Design	85 MPH / 74 MH + 1/2" ICE ACCORDING TO TIA/EIA-222-F 1996		

LOAD CASES			
CASE 1	85 MPH WITH NO ICE	DESIGN WIND	
CASE 2	74 MPH WITH 1/2" RADIAL ICE	REDUCED WIND WITH ICE	
CASE 3	50 MPH WITH NO ICE	OPERATIONAL WIND	

POLE SPECIFICATIONS	
Pole Shape Type:	18-SIDED POLYGON
Taper:	0.210027 IN/FT
Shaft Steel:	ASTM A607 GRADE 65
Base PL Steel:	ASTM A572 GRADE 50 (50 KSI)
Anchor Bolts:	2 1/4" Ø x 8'-0" LONG #18J ASTM A615 GRADE 75

ANTENNA LIST		
No.	Elev.	Description
-	TOP	5/8" LIGHTNING ROD
1-12	TOP	(12) 1-FT X 5-FT X 3-IN PANEL ANTENNA
-	TOP	14" PLATFORM
13-24	177.00	(12) 1-FT X 5-FT X 3-IN PANEL ANTENNA
-	177.00	14" PLATFORM
25-36	162.00	(12) 1-FT X 5-FT X 3-IN PANEL ANTENNA
-	162.00	14" PLATFORM
37-48	147.00	(12) 1-FT X 5-FT X 3-IN PANEL ANTENNA
-	147.00	14" PLATFORM

STEP BOLTS FULL HEIGHT.
 ANTENNA FEED LINES RUN INSIDE OF POLE.



Elevation	85 MPH WIND		50 MPH WIND	
	Lateral Deflection (Inches)	Rotation (sway) (degrees)	Lateral Deflection (Inches)	Rotation (sway) (degrees)
TOP	158.6	7.772	54.7	2.689

SHAFT SECTION DATA					
Shaft Section	Section Length (feet)	Plate Thickness (in.)	Lap Splice (in.)	Diameter Across Flats (inches)	
				Top	Bottom
1	51.00	0.2500	51.00	22.000	32.711
2	51.00	0.3125	63.00	31.319	42.030
3	51.00	0.3750	78.00	40.302	51.014
4	51.00	0.5000		48.899	59.610

NOTE: DIMENSIONS SHOWN DO NOT INCLUDE GALVANIZING TOLERANCES

FOUNDATION DESIGN BASE REACTIONS

MOMENT = 4650 ft-kips
 SHEAR = 34.5 kips
 AXIAL = 44.0 kips



NEW BRITAIN 3
LESTER STREET
NEW BRITAIN, CONNECTICUT



PROJECT SUMMARY

SITE NAME: NEW BRITAIN 3
 SITE ADDRESS: LESTER STREET
 NEW BRITAIN, CONNECTICUT
 CONTACT PERSON: MARK GARRETT
 (203) 661-9822
 OPERATING CODE: CONNECTICUT STATE BUILDING
 AND LIFE SAFETY CODE
 APPLICANT: VERIZON WIRELESS
 500 ENTERPRISE DRIVE
 HOCKEY HILL, CT 06042
 ARCHITECT: URS CORPORATION, A.E.C.
 500 ENTERPRISE DRIVE
 HOCKEY HILL, CT 06042
 H/W/P ENGINEER: URS CORPORATION, A.E.C.
 500 ENTERPRISE DRIVE
 HOCKEY HILL, CT 06042
 SURVEYOR: URS CORPORATION, A.E.C.
 500 ENTERPRISE DRIVE
 HOCKEY HILL, CT 06042

LEGEND

SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER
	SHEET WHERE DETAIL/SECTION OCCURS
	ELEVATION NUMBER
	SHEET WHERE ELEVATION OCCURS

ABBREVIATIONS

SW: SW CORNER
 NE: NE CORNER
 SE: SE CORNER
 NW: NW CORNER
 INT: INTERSECTION POINT
 FIN: FINISH
 CON: CONCRETE
 CM: CURB OR WALL

SHEET INDEX

SHEET NO.	DESCRIPTION
T-1	TITLE SHEET - GENERAL NOTES AND LEGENDS
SU-1	SITE PLAN, TOWER CLEARANCE AND LEGENDS

CELLCO PARTNERSHIP
DBA
verizon wireless

URS CORPORATION AES
500 ENTERPRISE DRIVE
HOCKEY HILL, CONNECTICUT
06042-0900

PROJECT NO. F330825.40/003

DRAWN BY: J.M.

CHECKED BY:

ISSUED FOR

04-08-01/REV	
04-01-01/REV	

THE INFORMATION CONTAINED
IN THIS SET OF DOCUMENTS
IS PROPRIETARY OF URS
AND ANY USE OR REPRODUCTION
OTHER THAN THAT WHICH
RELATES TO VERIZON WIRELESS
IS STRICTLY PROHIBITED.

NEW BRITAIN 3
LESTER STREET
NEW BRITAIN, CONNECTICUT

SCALE: NONE

DATE: 04-08-01

DRAWING 1 OF 2

**TITLE SHEET -
GENERAL NOTES
AND LEGENDS**

T-1

B



City of New Britain
Building Department

Date Issued 5/30/02

**BUILDING PERMIT —
CERTIFICATE OF OCCUPANCY**

Date 1/9/01
5/17/01

Permit No. B1779 & B2093

Applicant Crown Castle Atlantic, LLC Address 703 Hebron Ave, Glastonbury, CT

Permit To _____ (Type of Improvement) (_____) Story _____ (Proposed Use) No. of Dwelling Units _____

At (Location) 167 LESTER STREET Zoning District 12
(No.) (Street)

Subdivision _____ Lot _____ Block _____ Lot Size _____

Building is to be _____ Ft. wide by _____ Ft. long by _____ Ft. in height and shall conform in construction

To Type _____ Use Group _____ Basement Walls or Foundation _____ (Type)

Remarks: 190' telecommunication tower per plan and 1999 State Building Code, B1779.

Area or Volume Install 12'x30' panelized land site steel frame shelter, 40 KW Diesel generator and 12 panel antennas approved by Siting Council 4/27/01, B2093
(Cubic/Square Feet)

Owner John & Helen Balavender

Address 30 Biltmore St. NB, CT

[Signature]
(Building Inspector)

To be posted on premises — See reverse side for conditions of certificate.

Exhibit B

Property Card

167 COCCOMO CIR

Location 167 COCCOMO CIR

Mblu A5D/ 22/ / /

Acct# 15950167

Owner CROWN ATLANTIC COMPANY
LLC

Assessment \$58,380

Appraisal \$83,400

PID 10590

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$47,400	\$36,000	\$83,400

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$33,180	\$25,200	\$58,380

Owner of Record

Owner CROWN ATLANTIC COMPANY LLC
Co-Owner
Address 4017 WASHINGTON RD PMB 353
MCMURRAY, PA 15317

Sale Price \$90,000
Certificate
Book & Page 1359/0428
Sale Date 02/13/2001

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
CROWN ATLANTIC COMPANY LLC	\$90,000		1359/0428	02/13/2001
BALAVENDER JOHN S +	\$44,000		1284/0180	08/26/1998
	\$0		1281/0173	07/15/1998
	\$0		0770/0808	10/29/1981
CLARA MARY DOUCETTE	\$0		0725/0121	03/02/1977

Building Information

Building 1 : Section 1

Year Built: 1918
Living Area: 624
Replacement Cost: \$105,398

Building Percent 45

Good:

Replacement Cost

Less Depreciation: \$47,400

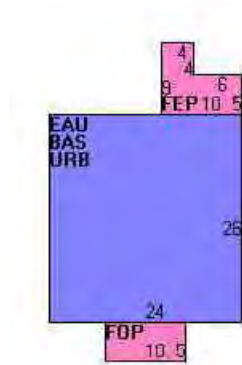
Building Attributes	
Field	Description
Style	Conventional
Model	Residential
Grade	C
Stories	1 1/4 Stories
Occupancy	1
Exterior Wall 1	Aluminum Sidin
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Asphalt Shingl
Interior Wall 1	Plaster
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	
Central Heat Sys	Yes
Heat Type	99
AC Type	None
Total Bedrooms	2 Bedrooms
Total Full Baths	1
Total Half Baths	0
Total Xtra Fixtrs	0
Total Rooms	4
Bath Style	Average
Kitchen Style	Average
Num Kitchens	
Whirlpool Tub	
Fireplaces	
Usrflid 104	
Rec Room Finish	
Rec Room Qual	
Usrflid 107	
Bsmt Garages	
Fireplaces	
Usrflid 108	
Usrflid 101	
Usrflid 102	
Bldg Nbhd	104A

Building Photo



(<http://images.vgsi.com/photos/NewBritainCTPhotos//\00\02\86\>)

Building Layout



(<http://images.vgsi.com/photos/NewBritainCTPhotos//Sketches/1>)

Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	624	624
EAU	Attic, Expansion, Unfinished	624	0
FEP	Enclosed Porch	66	0
FOP	Open Porch	50	0
URB	Unfin Raised Basement	624	0
		1,988	624

Extra Features

Extra Features	<u>Legend</u>
No Data for Extra Features	

Land

Land Use		Land Line Valuation	
Use Code	1010	Size (Acres)	0.32
Description	Single Family	Depth	
Zone	I2	Assessed Value	\$25,200
Neighborhood	104	Appraised Value	\$36,000
Alt Land Appr Category	No		

Outbuildings

Outbuildings	<u>Legend</u>
No Data for Outbuildings	

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2018	\$47,400	\$36,000	\$83,400
2017	\$47,400	\$36,000	\$83,400
2016	\$39,900	\$32,800	\$72,700

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$33,180	\$25,200	\$58,380
2017	\$33,180	\$25,200	\$58,380
2016	\$27,930	\$22,960	\$50,890

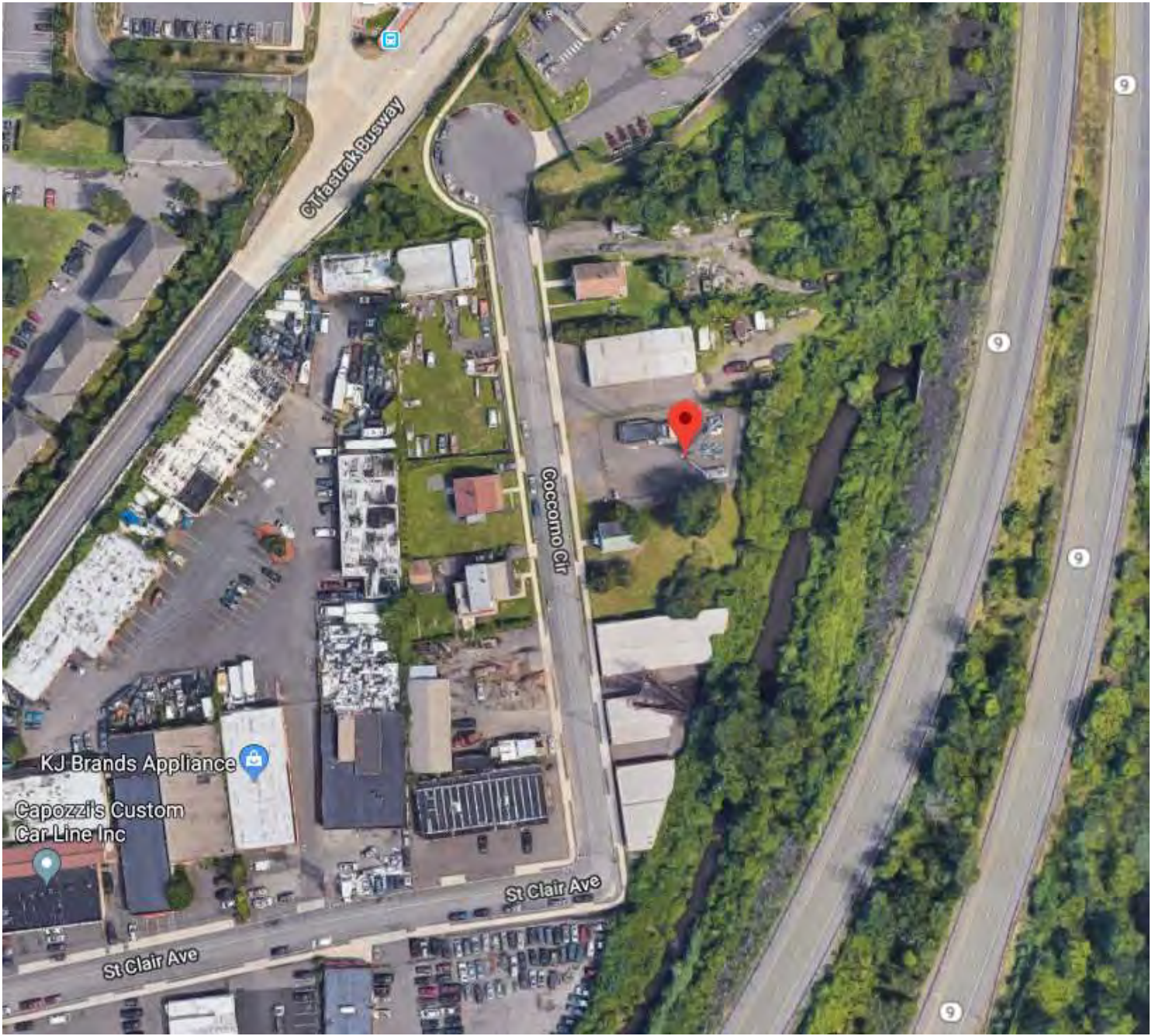


Exhibit C

Construction Drawings

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. EXTENSIVE CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PITS 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 OAS-STD-1006B "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE" AND LATEST VERSION OF ITA 1919 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, RUBBER, STILTS, DEBRIS, 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 SECURED 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 BITS 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 GRACE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACES APPLICATION.
11. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVWAY, 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 ACCORDANCE WITH THE LOCAL REGULATIONS FOR EROSION CONTROL.
13. NOTICE TO PROCEED - NO WORK TO CONSTRUCT 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, BRACING 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 BRACING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STD-1006B INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO VERIFY THE SUPPORTING STRUCTURES 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 A59 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 BRACING 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 INSTRUCTIONS, 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 308, 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 PSI.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 REINFORCING STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPACERS 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 AIR OR WEATHER 2 IN.
 #6 AND SMALLER & W/ 1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND 1 1/2 IN.
 SLAB AND WALLS 3/4 IN.
 BEAMS AND COLUMNS 1 1/2 IN.
5. A CHAMFER 1/4" 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 (7") SHALL BE 1500 PSI.
2. MORTAR SHALL MEET THE PROPERTY SPECIFICATION OF A.S.T.M. C270 TYPE "N" 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 - CONTRACTOR
 SUBCONTRACTOR - GENERAL CONTRACTOR (INCLUDING ANY DISCRETIONARY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR AND CROWN CASTLE USA INC.)
 CARRIER - AS NOTED
 TOWER OWNER - CROWN CASTLE USA INC.
 O&M - 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 DISCRETIONARY 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 REGULATIONS 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. "NOTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND NOTING 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 ALTERNATE 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 TV CABLES. GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TIE/O 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 COILS, 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:	SYMBOLS:
ASL ABOVE GRADE LEVEL	-○-○- SOLID GROUND BUS BAR
BITS BASE TRANSFER STATION	-○-○- SOLID NEUTRAL BUS BAR
EXISTING EXISTING	-○-○- SUPPLEMENTAL GROUND CONDUCTOR
MIN MINIMUM	-○-○- 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
REF REFERENCE	-○-○- SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
RF ROAD FREQUENCY	-○-○- CHEMICAL GROUND ROD
T.D.B. TO BE DETERMINED	-○-○- TEST WELL
T.R. TO BE RECOVERED	-○-○- DISCONNECT SWITCH
TYP TYPICAL	-○-○- METER
TRD REQUIRED	-○-○- EXOTHERMIC WELD (CAWELDED) (UNLESS OTHERWISE NOTED)
UG UNDERGROUND	-○-○- MECHANICAL CONNECTION
WRG WIRE GROUNDING	-○-○- GROUNDING WIRE
ESR EARTH SURFACE	
EW MASTER GROUND BAR	
EG EQUIPMENT GROUND	
EWB BASE COPPER WIRE	
SAD SMART INTEGRATED ACCESS DEVICE	
GEN GENERATOR	
IGR INTERIOR GROUNDING (HALO)	
RRS RADIUS BASE STATION	


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, RACKING AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. HULT 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 LOOPER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (E.L.TS), GROUNDING AND TV 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 AMMETER RATING AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT #2).
8. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
9. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SWAMP EDGES.
10. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THIN OR THIN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET & DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACKING SYSTEM USED UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THIN OR THIN-2 GREEN INSULATION CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACKING 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 THIN OR THIN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION LISTED OR LABELED FOR THE LOCATION AND RACKING SYSTEM USED UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE COMP-STEEL, 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. RACKWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, AND/SEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC TUBING (RNT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
16. SCHEDULE 40 RIGID UNDERGROUND ON STRUTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90 AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
17. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
18. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
19. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, AND/SEE AND NEC.
20. WIREWAYS SHALL BE EPOXY-COATED (GRV) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS. SHALL BE FINISH TYPE "C" (OR EQUAL) AND RATED NEMA 1 (OR BETTER).
21. 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 AVOID OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BOXES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WALLS AND PERFORATIONS TO STRUCTURE WALLS AND CEILING JOISTS. ALL CONDUIT SHALL BE OPEN TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING CONDUITS AND SHALL BE READY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LUGS ON OUTSIDE AND WEDGE.
22. 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 3W (OR BETTER) OUTDOORS.
23. 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.
24. 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.
25. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
26. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS TO ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY."
27. INSTALL PLASTIC LABELS ON THE METER CENTER TO SHOW "MMP".
28. ALL CONDUITS THAT ARE INSTALLED ARE TO HAVE A METEDED MALE TYPE FULL CORD INSTALLED.


GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER SYSTEMS) 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 EEE-FALL-OR-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NECESSARY TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SIZING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACKWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUITS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BITS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUNDING WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BITS, #2 AWG SOLID TINED COPPER FOR OUTDOOR BITS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR SHUNTED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUNDING RING SHALL BE #2 AWG SOLID TINED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUIT OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AWAYED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDED UNITS SHALL BE USED FOR ALL GROUNDING CONNECTIONS.
12. ALL GROUND CONNECTIONS ABOVE GRADE (EXTERIOR AND EXTERIOR) SHALL BE FORMED USING HOOP 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 ANTIWEAR 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 A 6 FT. OF MAIN GROUND WIRES WITH #12 AWG TIN-PLATED COPPER GROUNDING CONDUCTOR.
19. GROUND CONDUCTORS LOCATED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEM SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUIT, SUCH AS METALLIC CONDUITS, METAL SUPPORT LUGS OR BELLEVUE THROUGH METALLIC 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 METALLIC OBJECT.
20. ALL GROUNDING THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE SHALL BE #2 TINED SOLID # 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 SHALL BE SEALED WITH SILICONE GULK (ADD TRANSITIONING GROUND SHEARD DETAIL AS WELL).


DESCRIPTION	PHASE/CODE LETTER	WIRE COLOR
240/120 1Ø	LEG 1	BLACK
	LEG 2	RED
AC NEUTRAL	N	WHITE
GROUND (LEG 0)	G	GREEN
VOC PDS	-	RED-POLYMER MARK AT TERMINATION
VOC NEG	-	RED-POLYMER MARK AT TERMINATION
240V OR 208V, 3Ø	PHASE A	BLACK
	PHASE B	RED (OR F H LEG)
	PHASE C	BLUE
	PHASE A	BROWN
480V, 3Ø	PHASE B	ORANGE OR PURPLE
	PHASE C	YELLOW



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DEMONSTER, NJ 07021



300 HORIZON DRIVE, SUITE 150
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1917 S. BOLA DRIVE
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AT&T SITE NUMBER:
CT5379

BU #: 803175
CT NEW BRITAIN 3
CAC 803175

178 LESTER STREET
NEW BRITAIN, CT 06051

EXISTING 188'-0"
MONOPOLE

REV.	DATE	BY	DESCRIPTION	DESIGN
0	02/20	HEB	CONSTRUCTION	HEB
1	02/20	HEB	CONSTRUCTION	HEB



6/12/20

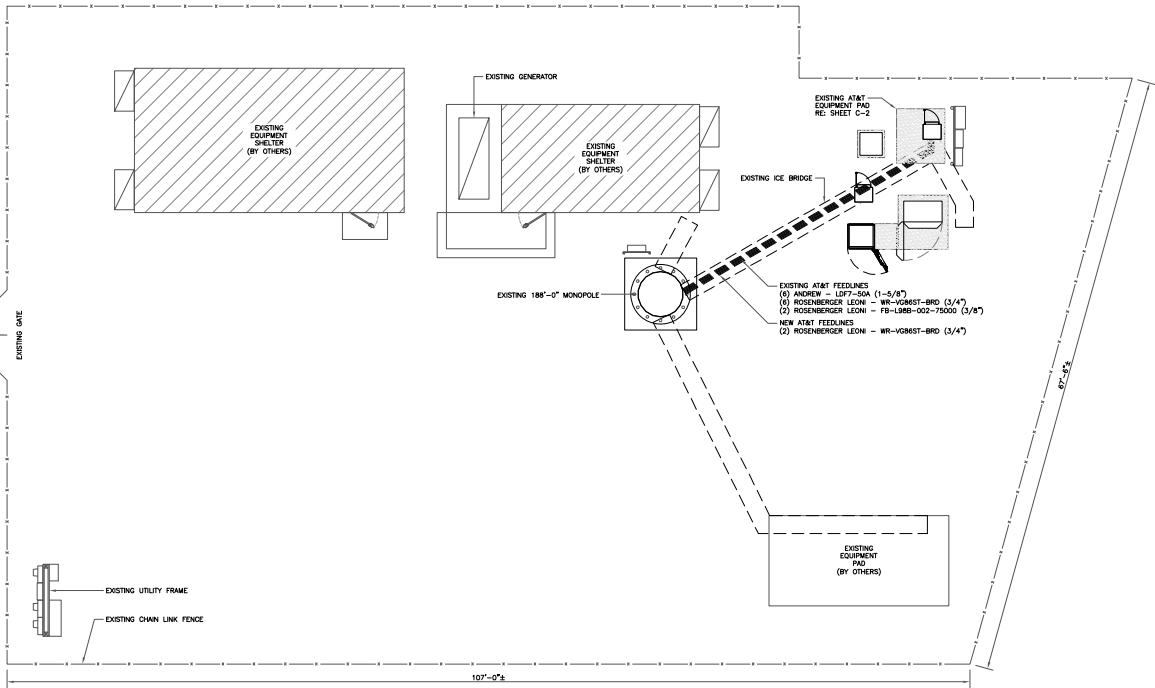
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SHEET NUMBER: **REVISION:**

T-2 **1**

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1 SITE PLAN
 SCALE: 3/16"=1'-0" (FULL SIZE)
 3/32"=1'-0" (1:1617)



AT&T SITE NUMBER:
CT5379
 BU #: 803175
 CT NEW BRITAIN 3
 CAC 803175
 178 LESTER STREET
 NEW BRITAIN, CT 06051
 EXISTING 188'-0"
 MONOPOLE

ISSUED FOR:

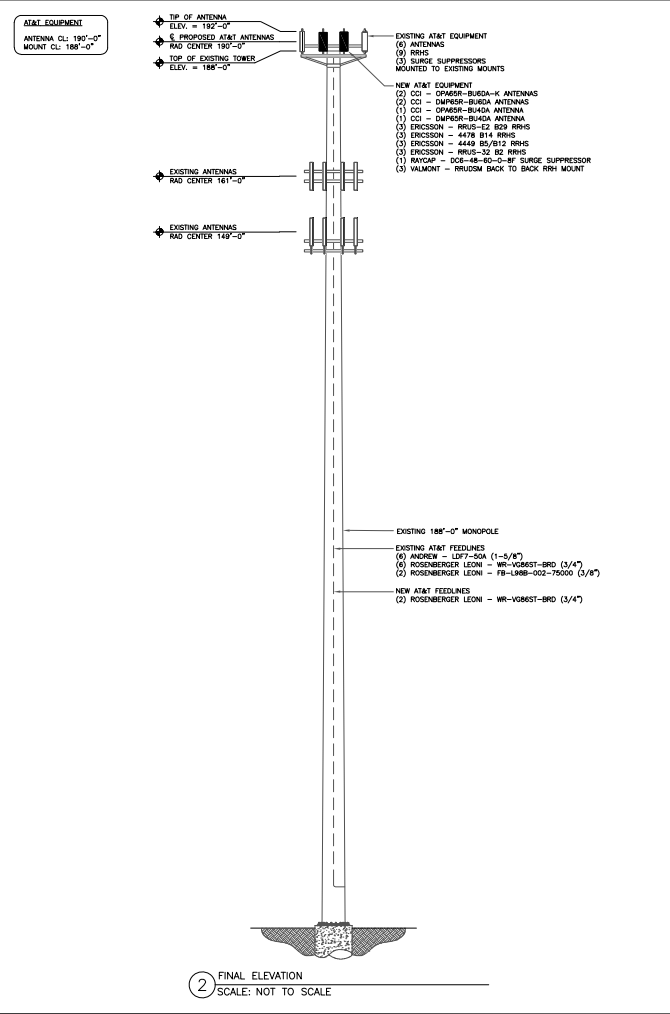
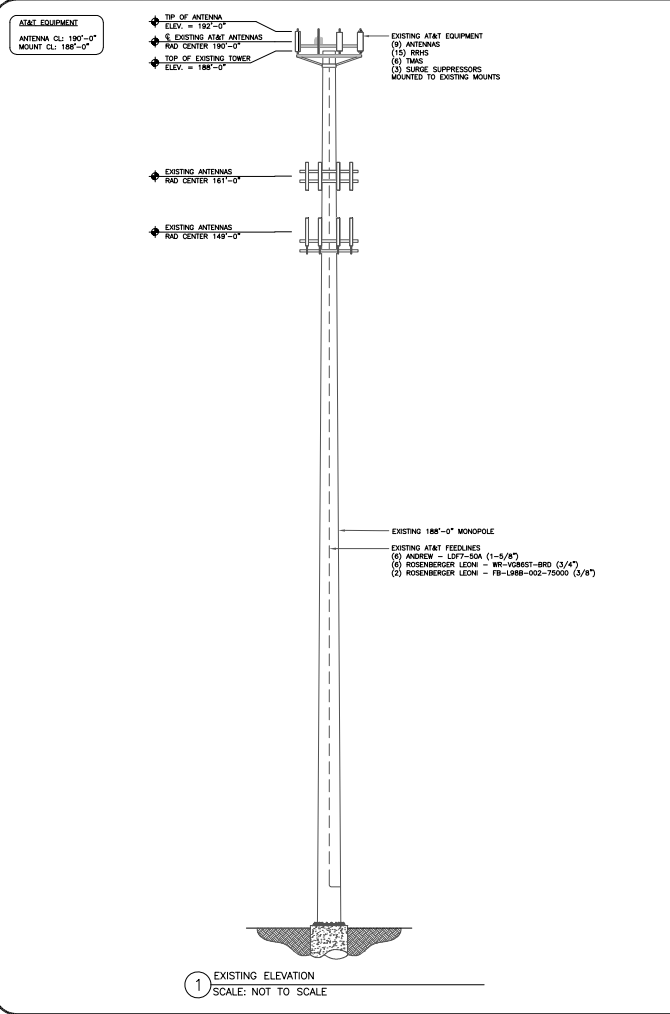
REV.	DATE	BY	CHKD.	DESCRIPTION	DESIGN
0	02/20	RLB	CONSTRUCTION		RLB
1	07/20	RLB	CONSTRUCTION		RLB




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65519.004_803175.ctb New Britain.ctb - Sheet C-3 - User: rcozson - Jun 12, 2020 - 1:24:06pm






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AT&T SITE NUMBER:
CT5379


BU #: 803175
CT NEW BRITAIN 3
CAC 803175

178 LESTER STREET
NEW BRITAIN, CT 06051

EXISTING 188'-0"
MONOPOLE

ISSUED FOR:

REV.	DATE	BY	DESCRIPTION	DESIGN
0	02/20	RLB	CONSTRUCTION	RLB
1	07/20	RLB	CONSTRUCTION	RLB



6/12/20

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SHEET NUMBER: C-3 **REVISION:** 1



AT&T SITE NUMBER:
CT5379

BU #: 803175
CT NEW BRITAIN 3
CAC 803175

178 LESTER STREET
NEW BRITAIN, CT 06051

EXISTING 188'-0"
MONOPOLE

REV.	DATE	BY	DESCRIPTION	DESIGN
0	02/20	RLB	CONSTRUCTION	RLB
1	07/20	RLB	CONSTRUCTION	RLB



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THIS SEAL IS VALID FOR THE STATE OF CONNECTICUT ONLY. IT DOES NOT GUARANTEE THE ACCURACY OF ANY ENGINEERING DESIGN OR CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE USER TO VERIFY THE QUALITY OF THE WORK.

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

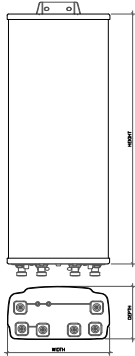
FINAL ANTENNA AND COAXIAL CABLE SCHEDULE

POS	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNLEAF	ELECTRICAL DOWNLEAF	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	RAYCAP	DC (TRAY/CONDUIT) VULCR CABLES (PRL 986-04-KXXXX)	RRHS	DUPLEXER	REF. CABLE	
ALPHA SECTOR																	
A1	UMTS/LTE	EXISTING	70°	CCI OPA-65R-LCUU-H4	190'-0"	0'	10/3'	1-5/8"	231'-0"	2	-	-	(1) DC6-48-60-0-8F	(2) DC LINES	(1) RRUS-E2 B29	-	Y
A2	LTE	NEW	70°	CCI OPA65R-BU4DA	190'-0"	0'	11'/4"	-	-	-	-	-	(1) DC6-48-60-0-8F	(2) DC LINES	(1) RRUS-32 B30 (1) 4478 B14	-	Y
A3	LTE/5G	NEW	70°	CCI DMP65R-BU4DA	190'-0"	0'	11'/11'/7'/11'	-	-	-	-	-	(1) DC6-48-60-0-8F	(2) DC LINES	(1) 4449 B5/B12 (1) RRUS-32 B2	-	Y
A4	LTE	EXISTING	70°	OS66512-2	190'-0"	0'	7/7'	-	-	-	-	-	(1) DC6-48-60-0-8F	(2) DC LINES	(1) RRUS-32 B2 (1) RRUS-32 B66A	-	Y
BETA SECTOR																	
B1	UMTS/LTE	EXISTING	200°	CCI OPA-65R-LCUU-H6	190'-0"	0'	10/3'	1-5/8"	231'-0"	2	-	-	(1) DC6-48-60-18-8F	(1) FIBER (2) DC LINES	(1) RRUS-E2 B29	-	Y
B2	LTE	NEW	200°	CCI OPA65R-BU6DA-K	190'-0"	0'	4'/1"	-	-	-	-	-	(1) DC6-48-60-18-8F	(1) FIBER (2) DC LINES	(1) RRUS-32 B30 (1) 4478 B14	-	Y
B3	LTE/5G	NEW	200°	CCI DMP65R-BU6DA	190'-0"	0'	4'/4'/3'/4'	-	-	-	-	-	(1) DC6-48-60-18-8F	(1) FIBER (2) DC LINES	(1) 4449 B5/B12 (1) RRUS-32 B2	-	Y
B4	LTE	EXISTING	200°	OS66512-2	190'-0"	0'	3/7'	-	-	-	-	-	(1) DC6-48-60-18-8F	(1) FIBER (2) DC LINES	(1) RRUS-32 B2 (1) RRUS-32 B66A	-	Y
GAMMA SECTOR																	
C1	UMTS/LTE	EXISTING	320°	CCI OPA-65R-LCUU-H6	190'-0"	0'	10/3'	1-5/8"	231'-0"	2	-	-	(1) DC6-48-60-18-8F	(1) FIBER (2) DC LINES	(1) RRUS-E2 B29	-	Y
C2	LTE	NEW	320°	CCI OPA65R-BU6DA-K	190'-0"	0'	3'/2"	-	-	-	-	-	(1) DC6-48-60-18-8F	(1) FIBER (2) DC LINES	(1) RRUS-32 B30 (1) 4478 B14	-	Y
C3	LTE/5G	NEW	320°	CCI DMP65R-BU6DA	190'-0"	0'	3'/3'/3'/3'	-	-	-	-	-	(1) DC6-48-60-18-8F	(1) FIBER (2) DC LINES	(1) 4449 B5/B12 (1) RRUS-32 B2	-	Y
C4	LTE	EXISTING	320°	OS66512-2	190'-0"	0'	3/7'	-	-	-	-	-	(1) DC6-48-60-18-8F	(1) FIBER (2) DC LINES	(1) RRUS-32 B2 (1) RRUS-32 B66A	-	Y

NOTE: BOLD DENOTES NEW EQUIPMENT

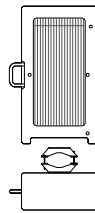
1 FINAL ANTENNA AND COAXIAL CABLE SCHEDULE
SCALE: NOT TO SCALE

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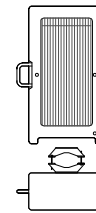
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DP65R-BU4DA	48"	20.3"	7.7"	76.5 lbs
DP65R-BU6DA	71.2"	20.3"	7.7"	89.3 lbs
OP65R-BU4DA	48"	21"	7.6"	62.3 lbs
OP65R-BU6DA-K	71.2"	21"	7.6"	63.5 lbs

1 ANTENNA DETAIL
SCALE: NOT TO SCALE



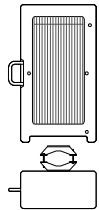
ERICSSON - RRUS-E2 B22
WEIGHT (FULLY EQUIPPED): 63.0 LBS
SIZE (HxWxD): 20.4x18.5x7.5 IN.

2 RRH DETAIL
SCALE: NOT TO SCALE



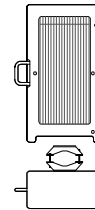
ERICSSON - 4478 B14
WEIGHT (FULLY EQUIPPED): 59.9 LBS
SIZE (HxWxD): 16.5x13.4x7.7 IN.

3 RRH DETAIL
SCALE: NOT TO SCALE



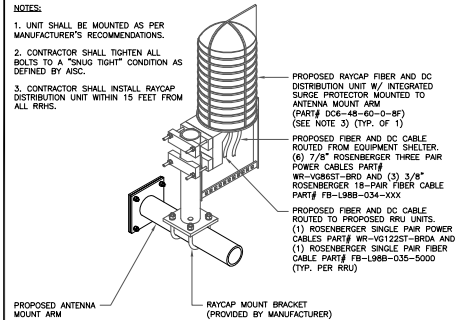
ERICSSON - 4440 B5/B12
WEIGHT (FULLY EQUIPPED): 71.0 LBS
SIZE (HxWxD): 17.9x13.19x9.44 IN.

4 RRH DETAIL
SCALE: NOT TO SCALE



ERICSSON - RRUS-32 B2
WEIGHT (FULLY EQUIPPED): 52.9 LBS
SIZE (HxWxD): 27.2x12.1x7.0 IN.

5 RRH DETAIL
SCALE: NOT TO SCALE



4 SURGE SUPPRESSOR DETAIL
SCALE: NOT TO SCALE



AT&T SITE NUMBER:
CT5379

BU #: 803175
CT NEW BRITAIN 3
CAC 803175

178 LESTER STREET
NEW BRITAIN, CT 06051

EXISTING 188'-0"
MONOPOLE

ISSUED FOR:

REV.	DATE	BY	DESCRIPTION	CHKD.
0	02/20	RLB	CONSTRUCTION	RLB
1	02/20	RLB	CONSTRUCTION	RLB



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

THIS A WORKING COPY OF THE DRAWING. ANY CHANGES TO THE DRAWING SHALL BE MADE TO THE ORIGINAL DRAWING AND NOT TO THIS COPY.

SHEET NUMBER: C-6 REVISION: 1



AT&T SITE NUMBER:
CT5379

BU #: 803175
CT NEW BRITAIN 3
CAC 803175

178 LESTER STREET
NEW BRITAIN, CT 06051

EXISTING 188'-0"
MONOPOLE

ISSUED FOR:

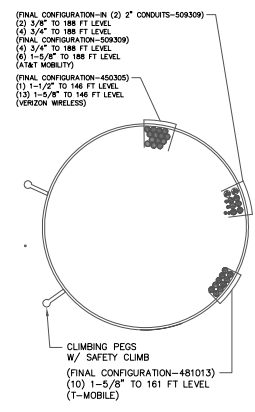
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1	03/20	RLB	CONSTRUCTION	RLB



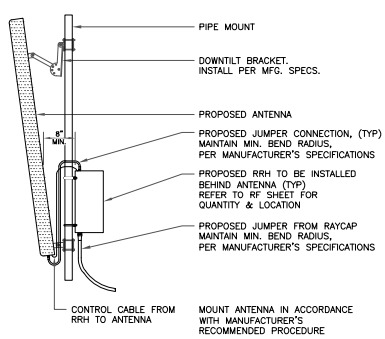
B&T ENGINEERING, INC.
PEC 0001564
Expires 2/10/21

THIS SEAL IS VALID IN ALL STATES AND PROVINCES WHERE THE ENGINEER IS LICENSED AND IN THE DISTRICT OF COLUMBIA AND THE COMMONWEALTH OF PUERTO RICO.

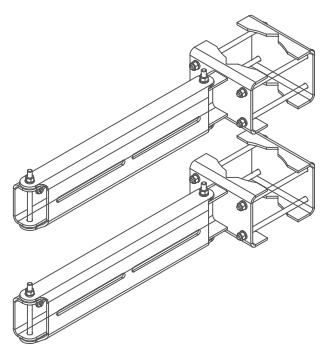
SHEET NUMBER: **C-7** REVISION: **1**



2 BASE LEVEL DRAWING
SCALE: NOT TO SCALE



3 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



4 VALMONT - RRUDDSM
SCALE: NOT TO SCALE

1 NOT USED
SCALE: NOT TO SCALE



AT&T SITE NUMBER:
CT5379
 BU #: 803175
CT NEW BRITAIN 3
CAC 803175
 178 LESTER STREET
 NEW BRITAIN, CT 06051
 EXISTING 188'-0"
 MONOPOLE

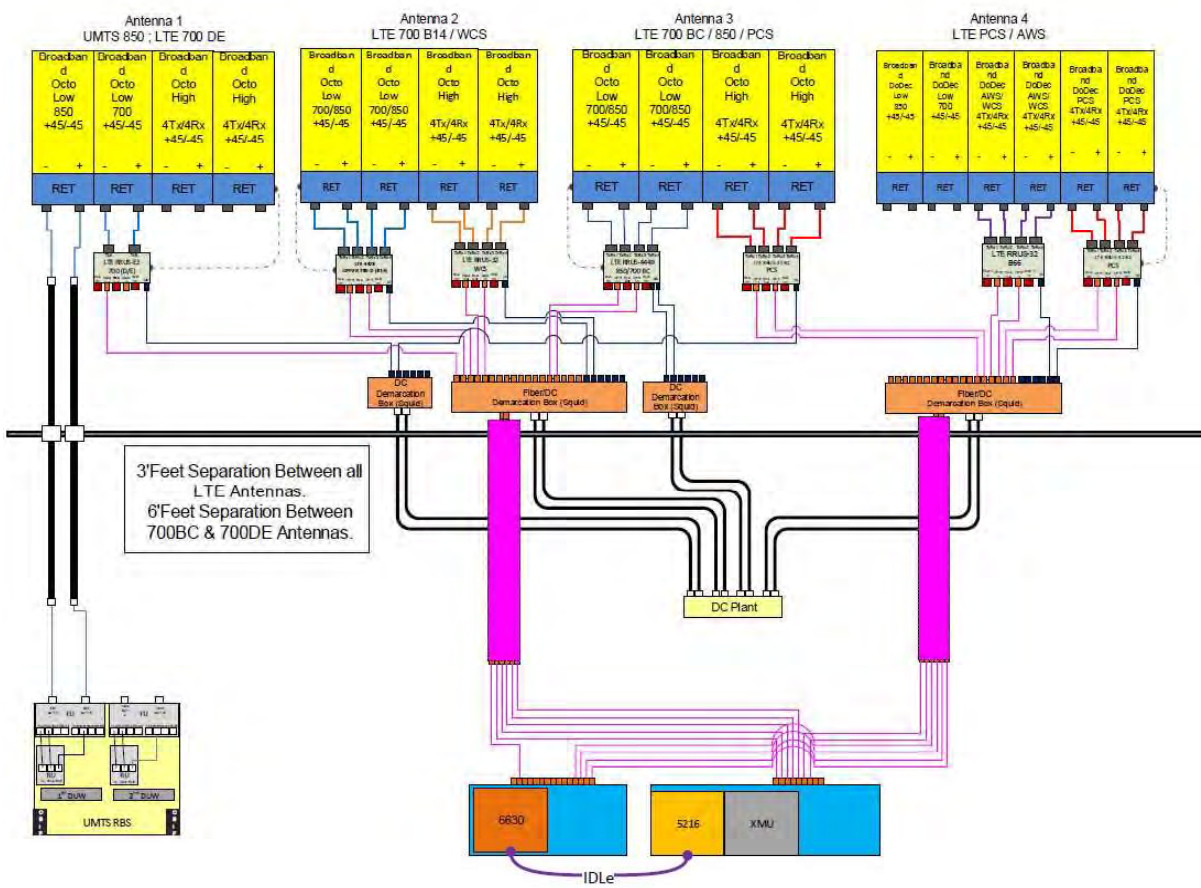
ISSUED FOR:

REV.	DATE	BY	DESCRIPTION	DESIGN
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1	03/20	RLB	CONSTRUCTION	RLB



B&T ENGINEERING, INC.
 PEC 0001564
 Expires 2/10/21
 THIS SEAL IS VALID FOR ANY PERSON, FIDELITY AND PROFESSIONAL LIABILITY OF ANY LICENSEE IN ANY STATE.

SHEET NUMBER: **C-8** REVISION: **1**



3' Feet Separation Between all LTE Antennas.
 6' Feet Separation Between 700BC & 700DE Antennas.

1 PLUMBING DIAGRAM
 SCALE: NOT TO SCALE

85519.004_803175.ct New Britain.ct - User: rcaison - Jun 12, 2020 - 1:26pm

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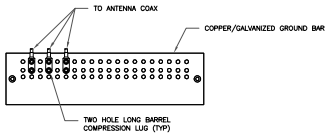
- NOTE 1: PRODUCTS ARE ONLY TO BE USED WHEN ADEQUATE PHYSICAL SPACE EXISTS FOR PROPER INSTALLATION.
- NOTE 2: HEAT SHRINK MAY ONLY BE USED AT GROUND LEVEL OR ROOFTOP SITES WHEN APPLIED WITH A HEAT GUN. USE ON TOWERS OR INSTALLING WITH AN OPEN FLAME DEVICE, SUCH AS A TORCH, IS PROHIBITED DUE TO POTENTIAL DAMAGE TO CONNECTORS AND CABLES. HEAT SHRINK IS NOT ALLOWED ON CONNECTIONS TO TOWER TOP EQUIPMENT EVEN IF THE HEAT SHRINK IS APPLIED ON THE GROUND PRIOR TO INSTALLING THE EQUIPMENT ON THE TOWER TOP.
- NOTE 3: HEAT SHRINK IS NOT TO BE USED ON RET/AISG CONNECTORS FOUND ON RF DEVICES (RRH/RRU, ANTENNAS, ETC.), DUE TO POSSIBLE DAMAGE BEING CAUSED TO THE DEVICE. IT MAY BE USED ON CONNECTORS ATTACHED TO RET SURGE PROTECTORS.
- NOTE 4: WHEN GAMMA ELECTRONICS COLD SHRINK IS USED ON FULLY THREADED DIN CONNECTORS THE THREADS MUST HAVE EITHER ROSENBERGER THREAD ADAPTER OR BUTYL APPLIED PRIOR TO THE COLD SHRINK BEING INSTALLED. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDED WITH THE PRODUCT FOR DETAILS.

TABLE 1: E/ PA / S. NJ / DE - COAX COLOR CODE

SECTOR	ALPHA	BETA	GAMMA	DELTA	E	F
	GREEN	ORANGE	BLANK	BLUE	BROWN	WHITE
	ORANGE	BLANK	BLUE	BROWN	WHITE	BLANK
	BLANK	BLUE	BROWN	WHITE	BLANK	ORANGE
	BLUE	BROWN	WHITE	BLANK	ORANGE	BLANK
	BROWN	WHITE	BLANK	ORANGE	BLANK	VIOLET
	WHITE	BLANK	ORANGE	BLANK	VIOLET	ORANGE
	ORANGE	BLANK	VIOLET	ORANGE	BLANK	VIOLET
	BLANK	ORANGE	BLANK	VIOLET	ORANGE	BLANK
	VIOLET	ORANGE	BLANK	BLANK	ORANGE	BLANK
	ORANGE	BLANK	BLANK	ORANGE	BLANK	BLANK
	BLANK	BLANK	ORANGE	BLANK	BLANK	BLANK
	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK

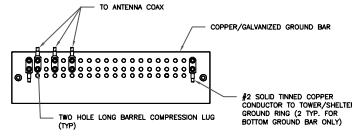
DC TRUCK / DC JUMPER / FIRST FIBER JUMPER

FREQUENCY BAND	700 (B/C)	850	1900 (PCS)	1900 (PCS) - 2ND BLOCK	2100 (AWS)	2300 (WCS)	2300 (WCS) - 2ND BLOCK	2300 (WCS) - 5X8 REPEATER	700 (D/E)	700 (D/E)	700 (D/E)	700 (D/E)
	VIOLET	YELLOW	RED	RED	ORANGE	BROWN	BROWN	BROWN	VIOLET	SLATE	SLATE	SLATE
	YELLOW	BLANK	BLANK	BLANK	ORANGE	BROWN	BROWN	BROWN	SLATE	SLATE	SLATE	SLATE
	RED	BLANK	BLANK	BLANK	ORANGE	BROWN	BROWN	BROWN	SLATE	SLATE	SLATE	SLATE
	ORANGE	BLANK	BLANK	BLANK	ORANGE	BROWN	BROWN	BROWN	SLATE	SLATE	SLATE	SLATE
	BROWN	BLANK	BLANK	BLANK	ORANGE	BROWN	BROWN	BROWN	SLATE	SLATE	SLATE	SLATE
	BROWN	BLANK	BLANK	BLANK	ORANGE	BROWN	BROWN	BROWN	SLATE	SLATE	SLATE	SLATE
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	VIOLET	YELLOW	RED	RED	ORANGE	BROWN	BROWN	BROWN	VIOLET	SLATE	SLATE	SLATE
	YELLOW	BLANK	BLANK	BLANK	ORANGE	BROWN	BROWN	BROWN	SLATE	SLATE	SLATE	SLATE
	RED	BLANK	BLANK	BLANK	ORANGE	BROWN	BROWN	BROWN	SLATE	SLATE	SLATE	SLATE
	ORANGE	BLANK	BLANK	BLANK	ORANGE	BROWN						



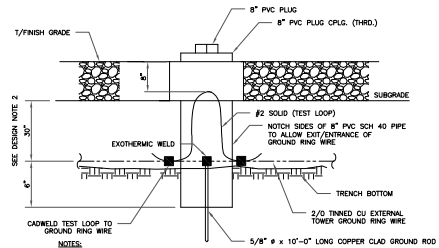
- NOTES:
1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE



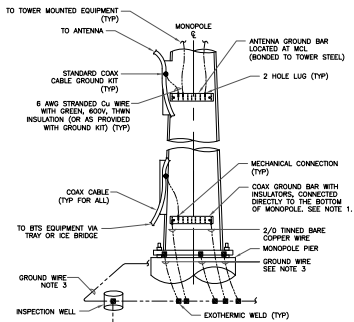
- NOTES:
1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

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



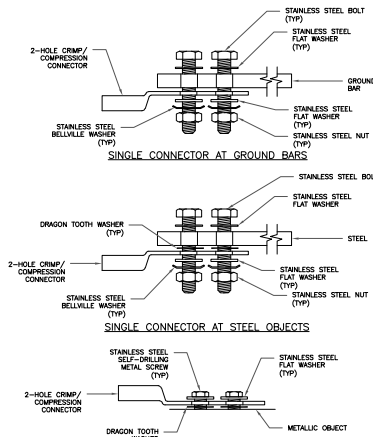
- NOTES:
1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
 2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 4" BELOW FROST LINE, (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D).

3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE

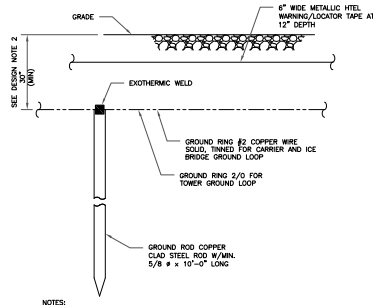


- NOTES:
1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT, PROVIDED AS REQUIRED.
 2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE 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/NFPA 722 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 4" 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:
CT5379

BU #: 803175
CT NEW BRITAIN 3
CAC 803175

178 LESTER STREET
NEW BRITAIN, CT 06051

EXISTING 188'-0"
MONOPOLE

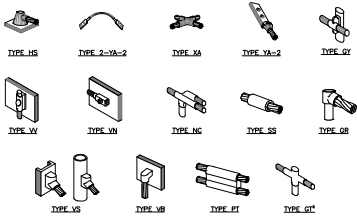
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1	03/20	HEB	CONSTRUCTION	HEB



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

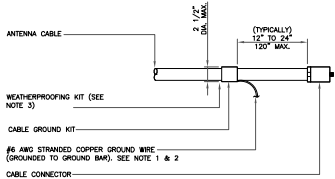
SHEET NUMBER: **G-1** REVISION: **1**

B5519A04L_803175_CT_New Britain.ct - User: rccaron - Jun 12, 2020 - 1:26pm



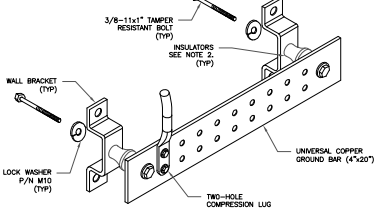
NOTE:
 1. ERGO COVERING "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
 2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
 SCALE: NOT TO SCALE



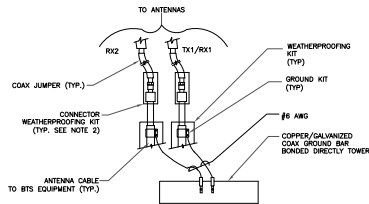
NOTES:
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

3 CABLE GROUND KIT CONNECTION
 SCALE: NOT TO SCALE



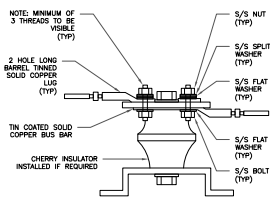
NOTES:
 1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWERS PER THE GROUNDING/DOWN CONDUCTOR POLICY QAS-070-10001. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
 2. OMIT 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



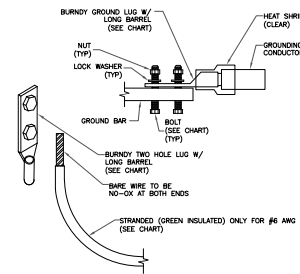
NOTES:
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
 SCALE: NOT TO SCALE



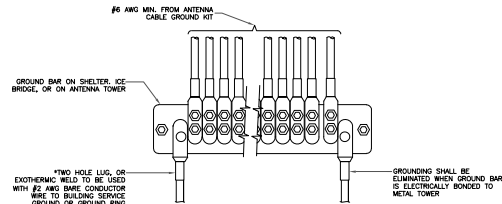
7 LUG DETAIL
 SCALE: NOT TO SCALE

WIRE SIZE	BURNIDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA2C-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

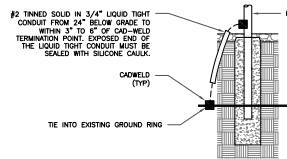


NOTES:
 1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL BURNIDY BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION
 SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
 SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
 SCALE: NOT TO SCALE



AT&T SITE NUMBER:
 CT5379

BU #: 803175
 CT NEW BRITAIN 3
 CAC 803175

178 LESTER STREET
 NEW BRITAIN, CT 06051

EXISTING 188'-0"
 MONOPOLE

ISSUED FOR:

REV.	DATE	BY	CHKD.	DESCRIPTION	DESIGN
0	02/20	HLB	CONSTR/PT/PTN		HLB
1	03/20	HLB	CONSTR/PT/PTN		HLB

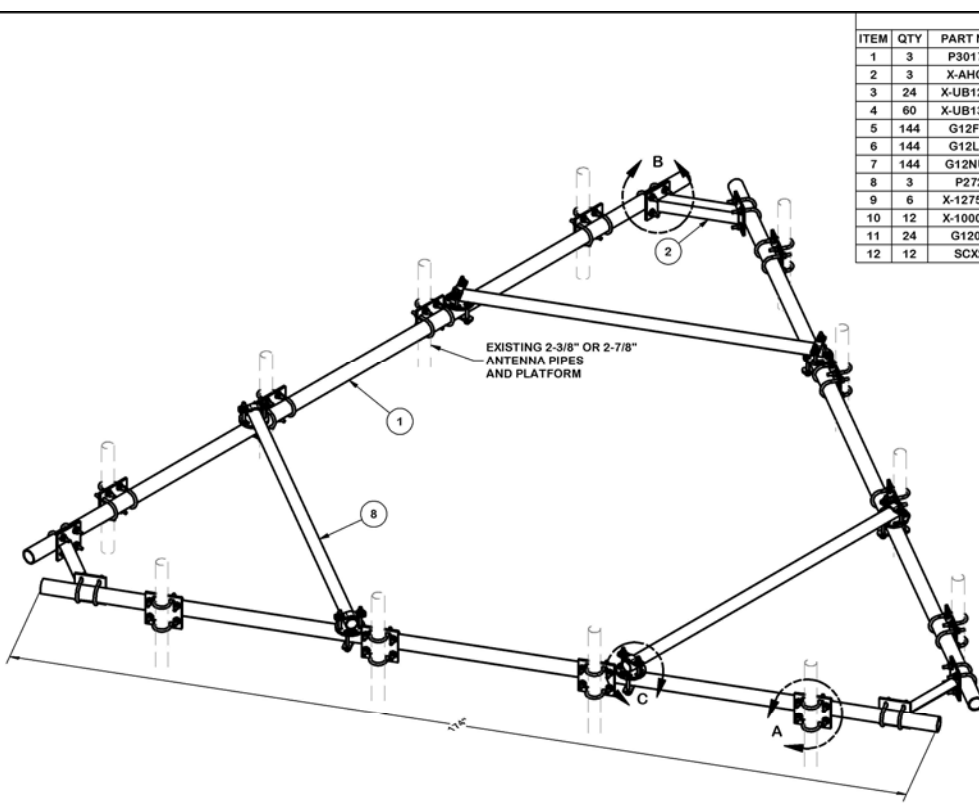


B&T ENGINEERING, INC.
 PEC 0001564
 Expires 2/10/21

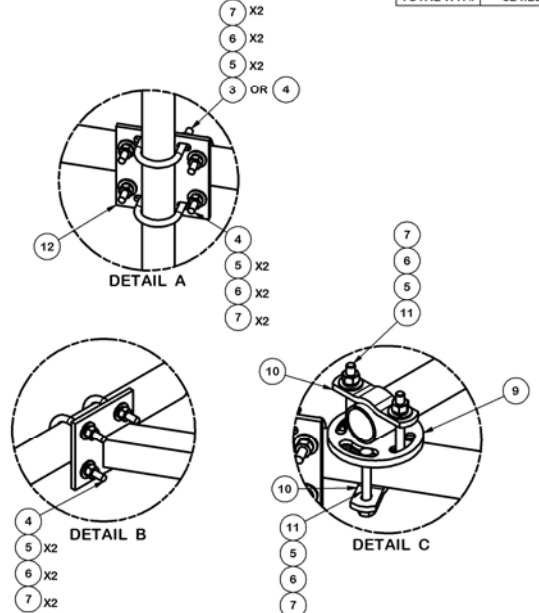
THIS IS A VOUCHER OF WORK FOR ANY PERSON, FIRM OR COMPANY WHO HAS PROVIDED THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER TO A CLIENT THROUGH THIS FIRM.

SHEET NUMBER: REVISION:

G-2 1



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P30174	2-7/8" O.D. x 174" SCH. 40 PIPE	174 in	84.20	252.59
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	15.00
4	60	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.70	41.81
5	144	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P272	2-3/8" X 72" SCH 40 GALVANIZED PIPE	72 in	23.07	69.20
9	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.51	15.04
10	12	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.91	10.95
11	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
					TOTAL WT. #	524.23



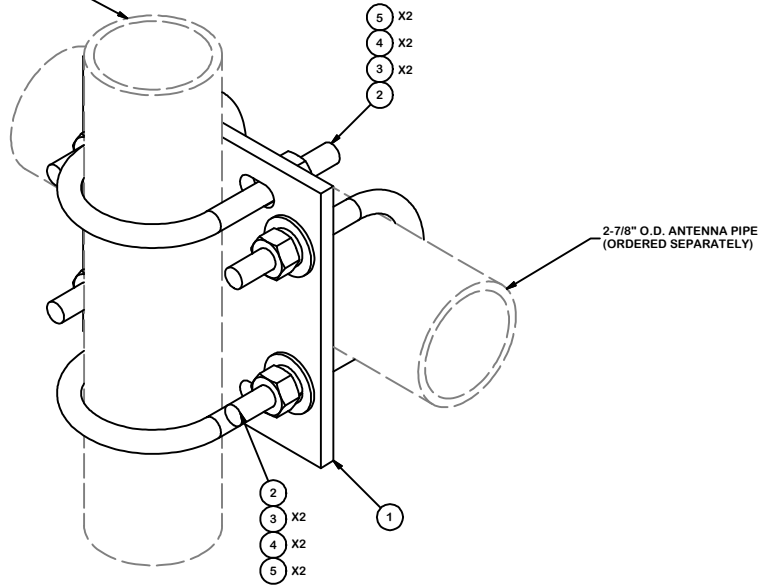
TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.030)
 DRILLED AND GAS CUT HOLES (± 0.030) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.010) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.030)
 ALL OTHER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

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS EXPRESSLY PROHIBITED.

DESCRIPTION HEAVY DUTY HANDRAIL KIT FOR 14' PLATFORMS WITH 2-7/8" HANDRAIL PIPES			
CPD NO.	DRAWN BY	ENG. APPROVAL	
	CEK	4/6/2015	
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	01	CUSTOMER	BMC 7/8/2016

 A valmont COMPANY	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	Engineering Support Team: 1-888-753-7446
PART NO.	HRK14-3HD
DWG. NO.	HRK14-3HD

2-7/8" O.D. ANTENNA PIPE
(ORDERED SEPARATELY)



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX2	CROSSOVER PLATE	7 in	4.80	4.80
2	4	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.73	2.93
3	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
4	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	8.40

TOLERANCE NOTES

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

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION	CROSSOVER PLATE KIT
-------------	---------------------------

 A valmont COMPANY	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	Engineering Support Team: 1-888-753-7446

CPD NO.	DRAWN BY	ENG. APPROVAL
	CEK 2/19/2015	
CLASS	DRAWING USAGE	CHECKED BY
81	CUSTOMER	BMC 2/19/2015

PART NO.	SCX23-K	PAGE 1 OF 1
DWG. NO.	SCX23-K	

Exhibit D

Structural Analysis Report

Date: **April 21, 2020**

Stephanie Lipscomb
Crown Castle
370 Mallory Station Rd.
Franklin, TN 37067



Tower Engineering Professionals
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351

Subject: Structural Analysis Report

Carrier Designation:

AT&T Mobility Co-Locate
Carrier Site Number: 25976
Carrier Site Name: CT5379

Crown Castle Designation:

Crown Castle BU Number: 803175
Crown Castle Site Name: CT New Britain 3 CAC 803175
Crown Castle JDE Job Number: 596311
Crown Castle Work Order Number: 1843911
Crown Castle Order Number: 509309 Rev. 0

Engineering Firm Designation:

TEP Project Number: 25666.407181

Site Data:

167 Cocomo, New Britain, Hartford County, CT 06051
Latitude 41° 41' 11.80", Longitude -72° 45' 27.80"
188 Foot - Monopole Tower

Dear Stephanie Lipscomb,

Tower Engineering Professionals is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the above-mentioned tower.

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

LC7: Proposed Equipment Configuration

Sufficient Capacity – 89.7%

This analysis utilizes an ultimate 3-second 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: Sean Arsenault, C.W.I. / TML

Respectfully submitted by:

Aaron T. Rucker, P.E.



Electronic Copy

04/21/2020

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2) ANALYSIS CRITERIA

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Table 2 - Other Considered Equipment

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Table 3 - Documents Provided

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3.2) Assumptions

4) ANALYSIS RESULTS

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5) APPENDIX A

tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 188-ft monopole tower designed by Paul J. Ford and Company.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	C
Topographic Factor:	1.0
Ice Thickness:	2.0 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
188.0	190.0	2	CCI Antennas	OPA-65R-LCUU-H6 w/ Mount Pipe	6 8 2	1-5/8 3/4 3/8
		1	CCI Antennas	OPA-65R-LCUU-H4 w/ Mount Pipe		
		2	Quintel Technology	QS66512-2 w/ Mount Pipe		
		1	Quintel Technology	QS46512-2 w/ Mount Pipe		
		2	CCI Antennas	DMP65R-BU6D w/ Mount Pipe		
		1	CCI Antennas	DMP65R-BU4D w/ Mount Pipe		
		2	CCI Antennas	OPA65R-BU6D w/ Mount Pipe		
		1	CCI Antennas	OPA65R-BU4D w/ Mount Pipe		
		3	Ericsson	RRUS 32 B2		
		3	Ericsson	RRUS E2 B29		
	3	Ericsson	RRUS 4478 B14			
	3	Ericsson	RRUS 4449 B5/B12			
	1	Raycap	DC6-48-60-18-8C			
	189.0	3	Ericsson	RRUS 32 B30		
		2	Raycap	DC6-48-60-18-8F		
		1	Raycap	DC6-48-60-0-8F		
		3	Ericsson	RRUS 32 B2		
3		Ericsson	RRUS 32 B66			
188.0	1	Tower Mounts	Platform Mount [LP 1201-1_KCKR]			
	1	Site Pro 1	HRK14-3HD			

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)
161.0	161.0	3	Ericsson	AIR -32 B2A/B66AA w/ Mount Pipe	10	1-5/8
		3	Ericsson	AIR 3246 B66 w/ 8-ft Mount Pipe		
		3	Ericsson	AIR 6454 B41 w/ Mount Pipe		
		3	RFS Celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	Ericsson	RADIO 4449 B12/B71		
		3	Ericsson	RRUS 4415 B25		
		1	Tower Mounts	Platform Mount [LP 601-1]		
146.0	149.0	6	Andrew	SBNHH-1D65B w/ Mount Pipe	14	1-5/8
		3	Amphenol	BXA-80063-6BF-EDIN-4 w/ Mount Pipe		
		3	Samsung Telecom.	CBRS w/ Mount Pipe		
		3	Samsung Telecom.	RFV01U-D2A		
		3	Samsung Telecom.	RFV01U-D1A		
		3	Samsung Telecom.	20W CBRS		
	146.0	1	Armor Tower	12-ft Arch Frame Mount		
145.0	2	Raycap	RHSDC-3315-PF-48			
133.0	133.0	1	Tower Mounts	Side Arm Mount [SO 701-3]	-	-

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
Geotechnical Report	Clough, Harbour & Associates LLP	679661	CCISites
Tower Foundation Drawings	Paul J. Ford and Company	679660	CCISites
Foundation Mapping Report	Tower Engineering Professionals	679660	CCISites
Tower Manufacturer Drawings	Paul J. Ford and Company	679659	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. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	ϕP_{allow} (K)	% Capacity	Pass / Fail
L1	188 - 137	Pole	TP32.711x22x0.25	1	-14.84	1538.67	67.7	Pass
L2	137 - 90.25	Pole	TP42.03x31.3184x0.3125	2	-25.11	2474.49	88.6	Pass
L3	90.25 - 44.5	Pole	TP51.014x40.3023x0.375	3	-38.92	3602.47	86.8	Pass
L4	44.5 - 0	Pole	TP59.61x48.8988x0.5	4	-61.98	5762.13	68.1	Pass
							Summary	
						Pole (L2)	88.6	Pass
						RATING =	88.6	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Anchor Rods	-	72.4	Pass
1,2	Base Plate	-	73.0	Pass
1,2	Base Foundation Soil Interaction	-	89.7	Pass
1,2	Base Foundation Structural	-	55.8	Pass

Structure Rating (max from all components) =	89.7%
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Notes:

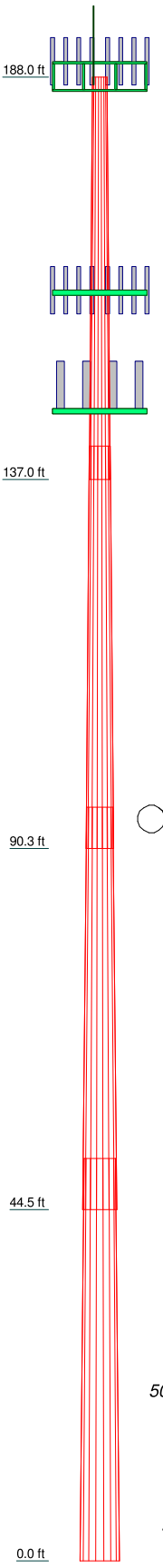
- 1) See additional documentation in "Appendix C - Additional Calculations" for calculations supporting the % capacity listed.
- 2) Rating per TIA-222-H Section 15.5

4.1) Recommendations

- 1) 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	1	2	3	4	
Length (ft)	51.00	51.00	51.00	51.00	
Number of Sides	18	18	18	18	
Thickness (in)	0.2500	0.3125	0.3750	0.5000	
Socket Length (ft)	4.25	5.25	6.50	48.8988	
Top Dia (in)	22.0000	31.3184	40.3023	59.6100	
Bot Dia (in)	32.7110	42.0300	51.0140		
Grade		A607-65			
Weight (K)	3.7	6.3	9.4	14.8	34.1



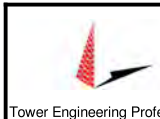
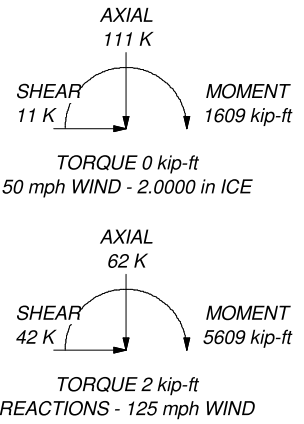
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 88.6%

ALL REACTIONS ARE FACTORED



Tower Engineering Professionals, Inc.
 326 Tryon Road
 Raleigh, NC 27603
 Phone: (919) 661-6351
 FAX: (919) 661-6350

Job: CT New Britain 3 CAC 803175 (BU 803175)		
Project: TEP No. 25666.407181		
Client: Crown Castle	Drawn by: SMA	App'd:
Code: TIA-222-H	Date: 04/21/20	Scale: NTS
Path:		Dwg No. E-1

C:\Users\smanson\Jit\Desktop\CT New Britain (803175) SA\TnTower\803175_1843911_LC7 X.ed

tnxTower Tower Engineering Professionals, Inc. 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job CT New Britain 3 CAC 803175 (BU 803175)	Page 1 of 20
	Project TEP No. 25666.407181	Date 12:01:49 04/21/20
	Client Crown Castle	Designed by SMA

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- Tower is located in Hartford County, Connecticut.
- Tower base elevation above sea level: 88.00 ft.
- Basic wind speed of 125 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 2.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.05.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r 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 | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

Tapered Pole Section Geometry

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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	188.00-137.00	51.00	4.25	18	22.0000	32.7110	0.2500	1.0000	A607-65 (65 ksi)
L2	137.00-90.25	51.00	5.25	18	31.3184	42.0300	0.3125	1.2500	A607-65 (65 ksi)
L3	90.25-44.50	51.00	6.50	18	40.3023	51.0140	0.3750	1.5000	A607-65 (65 ksi)
L4	44.50-0.00	51.00		18	48.8988	59.6100	0.5000	2.0000	A607-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
L1	22.3008	17.2586	1031.4832	7.7212	11.1760	92.2945	2064.3237	8.6310	3.4320	13.728
	33.1771	25.7578	3429.0204	11.5237	16.6172	206.3538	6862.5527	12.8813	5.3171	21.269
L2	32.6597	30.7540	3735.3228	11.0071	15.9098	234.7819	7475.5606	15.3799	4.9620	15.879
	42.6302	41.3785	9098.0688	14.8097	21.3512	426.1143	18208.1091	20.6932	6.8473	21.911
L3	41.9859	47.5235	9571.6471	14.1742	20.4736	467.5120	19155.8887	23.7663	6.4332	17.155
	51.7431	60.2731	19526.7966	17.9768	25.9151	753.4907	39079.2871	30.1423	8.3185	22.183
L4	50.9622	76.8089	22730.9630	17.1816	24.8406	915.0736	45491.8360	38.4117	7.7262	15.452
	60.4524	93.8076	41409.2395	20.9841	30.2819	1367.4593	82872.9664	46.9127	9.6114	19.223

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 188.00-137.00				1	1	1			
L2 137.00-90.25				1	1	1			
L3 90.25-44.50				1	1	1			
L4 44.50-0.00				1	1	1			

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
*** Safety Line 3/8	C	No	Surface Ar (CaAa)	188.00 - 0.00	1	1	0.500 - 0.500	0.3750		0.22
*** 3/8-in Detuner Wire	A	No	Surface Ar (CaAa)	133.00 - 0.00	1	1	0.000 - 0.000	0.3750		0.10
3/8-in Detuner Wire	B	No	Surface Ar (CaAa)	133.00 - 0.00	1	1	0.000 - 0.000	0.3750		0.10
3/8-in Detuner Wire	C	No	Surface Ar (CaAa)	133.00 - 0.00	1	1	0.000 - 0.000	0.3750		0.10

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Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf
*188									
LDF7-50A(1-5/8")	B	No	No	Inside Pole	188.00 - 0.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
FB-L98B-002-75000 (3/8")	B	No	No	Inside Pole	188.00 - 0.00	2	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
WR-VG86ST-BRD(3/4")	B	No	No	Inside Pole	188.00 - 0.00	6	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
							2" Ice	0.00	0.58
2" Flex Conduit	B	No	No	Inside Pole	188.00 - 0.00	1	No Ice	0.00	0.36
							1/2" Ice	0.00	0.36
							1" Ice	0.00	0.36
							2" Ice	0.00	0.36
2" Flex Conduit	B	No	No	Inside Pole	188.00 - 0.00	1	No Ice	0.00	0.36
							1/2" Ice	0.00	0.36
							1" Ice	0.00	0.36
							2" Ice	0.00	0.36
WR-VG86ST-BRD(3/4")	B	No	No	Inside Pole	188.00 - 0.00	2	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
							2" Ice	0.00	0.58
161									
LCF158-50J(1-5/8")	C	No	No	Inside Pole	161.00 - 0.00	6	No Ice	0.00	0.92
							1/2" Ice	0.00	0.92
							1" Ice	0.00	0.92
							2" Ice	0.00	0.92
HCS 6X12 4AWG(1-5/8")	C	No	No	Inside Pole	161.00 - 0.00	4	No Ice	0.00	2.40
							1/2" Ice	0.00	2.40
							1" Ice	0.00	2.40
							2" Ice	0.00	2.40
146									
HB158-1-08U8-S8J 18(1-5/8")	C	No	No	Inside Pole	146.00 - 0.00	2	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30
LCF158-50J(1-5/8")	C	No	No	Inside Pole	146.00 - 0.00	12	No Ice	0.00	0.92
							1/2" Ice	0.00	0.92
							1" Ice	0.00	0.92
							2" Ice	0.00	0.92

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
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Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L1	188.00-137.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.53
		C	0.000	0.000	1.912	0.000	0.50
L2	137.00-90.25	A	0.000	0.000	1.603	0.000	0.00
		B	0.000	0.000	1.603	0.000	0.49
		C	0.000	0.000	3.356	0.000	1.36
L3	90.25-44.50	A	0.000	0.000	1.716	0.000	0.00
		B	0.000	0.000	1.716	0.000	0.48
		C	0.000	0.000	3.431	0.000	1.33
L4	44.50-0.00	A	0.000	0.000	1.669	0.000	0.00
		B	0.000	0.000	1.669	0.000	0.47
		C	0.000	0.000	3.337	0.000	1.29

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L1	188.00-137.00	A	1.992	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.53
		C		0.000	0.000	22.231	0.000	0.79
L2	137.00-90.25	A	1.922	0.000	0.000	18.635	0.000	0.25
		B		0.000	0.000	18.635	0.000	0.74
		C		0.000	0.000	39.013	0.000	1.87
L3	90.25-44.50	A	1.825	0.000	0.000	19.306	0.000	0.25
		B		0.000	0.000	19.306	0.000	0.73
		C		0.000	0.000	38.611	0.000	1.82
L4	44.50-0.00	A	1.636	0.000	0.000	17.909	0.000	0.22
		B		0.000	0.000	17.909	0.000	0.69
		C		0.000	0.000	35.818	0.000	1.73

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	188.00-137.00	-0.2610	0.1507	-1.4506	0.8375
L2	137.00-90.25	-0.2505	0.1446	-1.2214	0.7052
L3	90.25-44.50	-0.2521	0.1455	-1.2594	0.7271
L4	44.50-0.00	-0.2538	0.1465	-1.2774	0.7375

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_a No Ice	K_a Ice
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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	20	Safety Line 3/8	137.00 - 188.00	1.0000	1.0000
L1	22	3/8-in Detuner Wire	137.00 - 133.00	1.0000	1.0000
L1	23	3/8-in Detuner Wire	137.00 - 133.00	1.0000	1.0000
L1	24	3/8-in Detuner Wire	137.00 - 133.00	1.0000	1.0000
L2	20	Safety Line 3/8	90.25 - 137.00	1.0000	1.0000
L2	22	3/8-in Detuner Wire	90.25 - 133.00	1.0000	1.0000
L2	23	3/8-in Detuner Wire	90.25 - 133.00	1.0000	1.0000
L2	24	3/8-in Detuner Wire	90.25 - 133.00	1.0000	1.0000
L3	20	Safety Line 3/8	44.50 - 90.25	1.0000	1.0000
L3	22	3/8-in Detuner Wire	44.50 - 90.25	1.0000	1.0000
L3	23	3/8-in Detuner Wire	44.50 - 90.25	1.0000	1.0000
L3	24	3/8-in Detuner Wire	44.50 - 90.25	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment °	Placement ft	C_{AA} Front ft^2	C_{AA} Side ft^2	Weight K	
Lighting Rod 3/4" x 8'	C	From Leg	0.00	0.0000	188.00	No Ice	0.60	0.60	0.03
			0.00			1/2" Ice	1.41	1.41	0.04
			4.00			1" Ice	2.25	2.25	0.05
						2" Ice	3.67	3.67	0.09
188 OPA-65R-LCUU-H6 w/ Mount Pipe	A	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	9.19	6.21	0.11
			0.00			1/2" Ice	9.94	6.93	0.18
			2.00			1" Ice	10.71	7.66	0.26
						2" Ice	12.30	9.17	0.45
OPA-65R-LCUU-H4 w/ Mount Pipe	B	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	6.03	4.11	0.08
			0.00			1/2" Ice	6.56	4.60	0.13
			2.00			1" Ice	7.11	5.11	0.19
						2" Ice	8.26	6.18	0.33
OPA-65R-LCUU-H6 w/ Mount Pipe	C	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	9.19	6.21	0.11
			0.00			1/2" Ice	9.94	6.93	0.18
			2.00			1" Ice	10.71	7.66	0.26
						2" Ice	12.30	9.17	0.45
QS66512-2 w/ Mount Pipe	A	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	4.04	4.18	0.14
			0.00			1/2" Ice	4.42	4.57	0.21
			2.00			1" Ice	4.82	4.97	0.29
						2" Ice	5.63	5.79	0.48
QS46512-2 w/ Mount Pipe	B	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	2.95	3.33	0.09
			0.00			1/2" Ice	3.25	3.63	0.15
			2.00			1" Ice	3.55	3.94	0.21
						2" Ice	4.19	4.60	0.37
QS66512-2 w/ Mount Pipe	C	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	4.04	4.18	0.14
			0.00			1/2" Ice	4.42	4.57	0.21
			2.00			1" Ice	4.82	4.97	0.29
						2" Ice	5.63	5.79	0.48

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Lateral					
DMP65R-BU6D w/ Mount Pipe	A	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	11.96	5.97	0.11
			0.00			1/2" Ice	12.70	6.63	0.20
			2.00			1" Ice	13.46	7.30	0.30
						2" Ice	15.02	8.69	0.53
DMP65R-BU4D w/ Mount Pipe	B	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	7.53	3.79	0.09
			0.00			1/2" Ice	8.04	4.23	0.16
			2.00			1" Ice	8.57	4.68	0.22
						2" Ice	9.68	5.63	0.39
DMP65R-BU6D w/ Mount Pipe	C	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	11.96	5.97	0.11
			0.00			1/2" Ice	12.70	6.63	0.20
			2.00			1" Ice	13.46	7.30	0.30
						2" Ice	15.02	8.69	0.53
OPA65R-BU6D w/ Mount Pipe	A	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	12.25	6.05	0.09
			0.00			1/2" Ice	13.00	6.71	0.18
			2.00			1" Ice	13.76	7.39	0.27
						2" Ice	15.34	8.79	0.51
OPA65R-BU4D w/ Mount Pipe	B	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	8.10	4.03	0.08
			0.00			1/2" Ice	8.65	4.50	0.14
			2.00			1" Ice	9.21	4.98	0.21
						2" Ice	10.39	5.98	0.38
OPA65R-BU6D w/ Mount Pipe	C	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	12.25	6.05	0.09
			0.00			1/2" Ice	13.00	6.71	0.18
			2.00			1" Ice	13.76	7.39	0.27
						2" Ice	15.34	8.79	0.51
RRUS 32 B30	A	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	2.74	1.67	0.05
			0.00			1/2" Ice	2.96	1.86	0.07
			1.00			1" Ice	3.19	2.05	0.10
						2" Ice	3.68	2.46	0.16
RRUS 32 B30	B	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	2.74	1.67	0.05
			0.00			1/2" Ice	2.96	1.86	0.07
			1.00			1" Ice	3.19	2.05	0.10
						2" Ice	3.68	2.46	0.16
RRUS 32 B30	C	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	2.74	1.67	0.05
			0.00			1/2" Ice	2.96	1.86	0.07
			1.00			1" Ice	3.19	2.05	0.10
						2" Ice	3.68	2.46	0.16
DC6-48-60-18-8F	A	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			1.00			1" Ice	2.11	2.11	0.08
						2" Ice	2.57	2.57	0.14
DC6-48-60-18-8F	B	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			1.00			1" Ice	2.11	2.11	0.08
						2" Ice	2.57	2.57	0.14
DC6-48-60-0-8F	C	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	2.20	2.20	0.03
			0.00			1/2" Ice	2.40	2.40	0.06
			1.00			1" Ice	2.60	2.60	0.08
						2" Ice	3.04	3.04	0.14
RRUS 32 B2	A	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	2.73	1.67	0.05
			0.00			1/2" Ice	2.95	1.86	0.07
			1.00			1" Ice	3.18	2.05	0.10
						2" Ice	3.66	2.46	0.16
RRUS 32 B2	B	From Centroid-Fa ce	4.00	0.0000	188.00	No Ice	2.73	1.67	0.05
			0.00			1/2" Ice	2.95	1.86	0.07
			1.00			1" Ice	3.18	2.05	0.10
						2" Ice	3.66	2.46	0.16
RRUS 32 B2	C	From	4.00	0.0000	188.00	No Ice	2.73	1.67	0.05

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert</i> <i>ft ft ft</i>	<i>Azimuth Adjustment</i> <i>°</i>	<i>Placement</i> <i>ft</i>	<i>C_AA_A Front</i> <i>ft²</i>	<i>C_AA_A Side</i> <i>ft²</i>	<i>Weight</i> <i>K</i>	
		Centroid-Fa	0.00			1/2" Ice	2.95	1.86	0.07
		ce	1.00			1" Ice	3.18	2.05	0.10
						2" Ice	3.66	2.46	0.16
RRUS 32 B66	A	From	4.00	0.0000	188.00	No Ice	2.74	1.67	0.05
		Centroid-Fa	0.00			1/2" Ice	2.96	1.86	0.07
		ce	1.00			1" Ice	3.19	2.05	0.10
						2" Ice	3.68	2.46	0.16
RRUS 32 B66	B	From	4.00	0.0000	188.00	No Ice	2.74	1.67	0.05
		Centroid-Fa	0.00			1/2" Ice	2.96	1.86	0.07
		ce	1.00			1" Ice	3.19	2.05	0.10
						2" Ice	3.68	2.46	0.16
RRUS 32 B66	C	From	4.00	0.0000	188.00	No Ice	2.74	1.67	0.05
		Centroid-Fa	0.00			1/2" Ice	2.96	1.86	0.07
		ce	1.00			1" Ice	3.19	2.05	0.10
						2" Ice	3.68	2.46	0.16
RRUS E2 B29	A	From	4.00	0.0000	188.00	No Ice	3.15	1.29	0.06
		Centroid-Fa	0.00			1/2" Ice	3.36	1.44	0.08
		ce	2.00			1" Ice	3.59	1.60	0.11
						2" Ice	4.07	1.95	0.17
RRUS E2 B29	B	From	4.00	0.0000	188.00	No Ice	3.15	1.29	0.06
		Centroid-Fa	0.00			1/2" Ice	3.36	1.44	0.08
		ce	2.00			1" Ice	3.59	1.60	0.11
						2" Ice	4.07	1.95	0.17
RRUS E2 B29	C	From	4.00	0.0000	188.00	No Ice	3.15	1.29	0.06
		Centroid-Fa	0.00			1/2" Ice	3.36	1.44	0.08
		ce	2.00			1" Ice	3.59	1.60	0.11
						2" Ice	4.07	1.95	0.17
RRUS 4478 B14	A	From	4.00	0.0000	188.00	No Ice	1.84	1.06	0.06
		Centroid-Fa	0.00			1/2" Ice	2.01	1.20	0.08
		ce	2.00			1" Ice	2.19	1.34	0.09
						2" Ice	2.57	1.66	0.14
RRUS 4478 B14	B	From	4.00	0.0000	188.00	No Ice	1.84	1.06	0.06
		Centroid-Fa	0.00			1/2" Ice	2.01	1.20	0.08
		ce	2.00			1" Ice	2.19	1.34	0.09
						2" Ice	2.57	1.66	0.14
RRUS 4478 B14	C	From	4.00	0.0000	188.00	No Ice	1.84	1.06	0.06
		Centroid-Fa	0.00			1/2" Ice	2.01	1.20	0.08
		ce	2.00			1" Ice	2.19	1.34	0.09
						2" Ice	2.57	1.66	0.14
RRUS 4449 B5/B12	A	From	4.00	0.0000	188.00	No Ice	1.97	1.41	0.07
		Centroid-Fa	0.00			1/2" Ice	2.14	1.56	0.09
		ce	2.00			1" Ice	2.33	1.73	0.11
						2" Ice	2.72	2.07	0.16
RRUS 4449 B5/B12	B	From	4.00	0.0000	188.00	No Ice	1.97	1.41	0.07
		Centroid-Fa	0.00			1/2" Ice	2.14	1.56	0.09
		ce	2.00			1" Ice	2.33	1.73	0.11
						2" Ice	2.72	2.07	0.16
RRUS 4449 B5/B12	C	From	4.00	0.0000	188.00	No Ice	1.97	1.41	0.07
		Centroid-Fa	0.00			1/2" Ice	2.14	1.56	0.09
		ce	2.00			1" Ice	2.33	1.73	0.11
						2" Ice	2.72	2.07	0.16
RRUS 32 B2	A	From	4.00	0.0000	188.00	No Ice	2.73	1.67	0.05
		Centroid-Fa	0.00			1/2" Ice	2.95	1.86	0.07
		ce	2.00			1" Ice	3.18	2.05	0.10
						2" Ice	3.66	2.46	0.16
RRUS 32 B2	B	From	4.00	0.0000	188.00	No Ice	2.73	1.67	0.05
		Centroid-Fa	0.00			1/2" Ice	2.95	1.86	0.07

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
		ce	2.00						
RRUS 32 B2	C	From Centroid-Face	4.00	0.00	0.0000	188.00	1" Ice 3.18 2" Ice 3.66 No Ice 2.73	2.05 2.46 1.67	0.10 0.16 0.05
		ce	2.00				1" Ice 3.18 2" Ice 3.66	2.05 2.46	0.10 0.16
DC6-48-60-18-8C	B	From Centroid-Face	4.00	0.00	0.0000	188.00	No Ice 1.14 1/2" Ice 1.79 1" Ice 2.00	1.14 1.79 2.00	0.03 0.05 0.07
		ce	2.00				1" Ice 2.00 2" Ice 2.45	2.00 2.45	0.07 0.13
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None			0.0000	188.00	No Ice 37.61 1/2" Ice 45.62 1" Ice 53.59	37.61 45.62 53.59	2.63 3.48 4.46
							2" Ice 69.65	69.65	6.85
2.4" Dia. x 6-ft	A	From Centroid-Leg	3.00	0.00	0.0000	188.00	No Ice 1.43 1/2" Ice 1.92 1" Ice 2.29	0.00 0.00 0.00	0.02 0.03 0.05
		g	0.00				2" Ice 3.06	0.00	0.09
2.4" Dia. x 6-ft	B	From Centroid-Leg	3.00	0.00	0.0000	188.00	No Ice 1.43 1/2" Ice 1.92 1" Ice 2.29	0.00 0.00 0.00	0.02 0.03 0.05
		g	0.00				2" Ice 3.06	0.00	0.09
2.4" Dia. x 6-ft	C	From Centroid-Leg	3.00	0.00	0.0000	188.00	No Ice 1.43 1/2" Ice 1.92 1" Ice 2.29	0.00 0.00 0.00	0.02 0.03 0.05
		g	0.00				2" Ice 3.06	0.00	0.09
161									
AIR -32 B2A/B66AA w/ Mount Pipe	A	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 6.75 1/2" Ice 7.20 1" Ice 7.65	6.07 6.87 7.58	0.15 0.21 0.28
		ce	0.00				2" Ice 8.57	9.06	0.44
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 6.75 1/2" Ice 7.20 1" Ice 7.65	6.07 6.87 7.58	0.15 0.21 0.28
		ce	0.00				2" Ice 8.57	9.06	0.44
AIR -32 B2A/B66AA w/ Mount Pipe	C	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 6.75 1/2" Ice 7.20 1" Ice 7.65	6.07 6.87 7.58	0.15 0.21 0.28
		ce	0.00				2" Ice 8.57	9.06	0.44
AIR 3246 B66 w/ 8-ft Mount Pipe	A	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 8.69 1/2" Ice 9.42 1" Ice 10.09	7.07 8.27 9.31	0.21 0.29 0.37
		ce	0.00				2" Ice 11.31	11.08	0.56
AIR 3246 B66 w/ 8-ft Mount Pipe	B	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 8.69 1/2" Ice 9.42 1" Ice 10.09	7.07 8.27 9.31	0.21 0.29 0.37
		ce	0.00				2" Ice 11.31	11.08	0.56
AIR 3246 B66 w/ 8-ft Mount Pipe	C	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 8.69 1/2" Ice 9.42 1" Ice 10.09	7.07 8.27 9.31	0.21 0.29 0.37
		ce	0.00				2" Ice 11.31	11.08	0.56
AIR 6454 B41 w/ Mount Pipe	A	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 6.79 1/2" Ice 7.18 1" Ice 7.58	3.26 3.76 4.27	0.14 0.19 0.25
		ce	0.00				2" Ice 8.41	5.35	0.38
AIR 6454 B41 w/ Mount Pipe	B	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 6.79 1/2" Ice 7.18	3.26 3.76	0.14 0.19

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	Client	Crown Castle	Designed by	SMA

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft ²	ft ²	K
		ce	0.00						
AIR 6454 B41 w/ Mount Pipe	C	From Centroid-Face	4.00	0.00	0.0000	161.00	1" Ice 7.58 2" Ice 8.41 No Ice 6.79	4.27 5.35 3.26	0.25 0.38 0.14
		ce	0.00				1/2" Ice 7.18 1" Ice 7.58 2" Ice 8.41	3.76 4.27 5.35	0.19 0.25 0.38
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 14.69 1/2" Ice 15.46 1" Ice 16.23	6.87 7.55 8.25	0.19 0.31 0.46
		ce	0.00				2" Ice 17.82	9.67	0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 14.69 1/2" Ice 15.46 1" Ice 16.23	6.87 7.55 8.25	0.19 0.31 0.46
		ce	0.00				2" Ice 17.82	9.67	0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 14.69 1/2" Ice 15.46 1" Ice 16.23	6.87 7.55 8.25	0.19 0.31 0.46
		ce	0.00				2" Ice 17.82	9.67	0.79
RADIO 4449 B12/B71	A	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 1.64 1/2" Ice 1.80 1" Ice 1.97	1.15 1.29 1.44	0.07 0.09 0.11
		ce	0.00				2" Ice 2.33	1.75	0.15
RADIO 4449 B12/B71	B	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 1.64 1/2" Ice 1.80 1" Ice 1.97	1.15 1.29 1.44	0.07 0.09 0.11
		ce	0.00				2" Ice 2.33	1.75	0.15
RADIO 4449 B12/B71	C	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 1.64 1/2" Ice 1.80 1" Ice 1.97	1.15 1.29 1.44	0.07 0.09 0.11
		ce	0.00				2" Ice 2.33	1.75	0.15
RRUS 4415 B25	A	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 1.64 1/2" Ice 1.80 1" Ice 1.97	0.68 0.79 0.91	0.04 0.06 0.07
		ce	0.00				2" Ice 2.33	1.18	0.11
RRUS 4415 B25	B	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 1.64 1/2" Ice 1.80 1" Ice 1.97	0.68 0.79 0.91	0.04 0.06 0.07
		ce	0.00				2" Ice 2.33	1.18	0.11
RRUS 4415 B25	C	From Centroid-Face	4.00	0.00	0.0000	161.00	No Ice 1.64 1/2" Ice 1.80 1" Ice 1.97	0.68 0.79 0.91	0.04 0.06 0.07
		ce	0.00				2" Ice 2.33	1.18	0.11
Platform Mount [LP 601-1]	C	None			0.0000	161.00	No Ice 28.50 1/2" Ice 31.69 1" Ice 34.87	28.50 31.69 34.87	1.12 1.68 2.28
							2" Ice 41.23	41.23	3.65
146									
(2) SBNHH-1D65B w/ Mount Pipe	A	From Leg	4.00	0.00	0.0000	146.00	No Ice 4.09 1/2" Ice 4.49 1" Ice 4.89	3.30 3.68 4.07	0.07 0.13 0.20
			3.00				2" Ice 5.72	4.87	0.39
(2) SBNHH-1D65B w/ Mount Pipe	B	From Leg	4.00	0.00	0.0000	146.00	No Ice 4.09 1/2" Ice 4.49 1" Ice 4.89	3.30 3.68 4.07	0.07 0.13 0.20
			3.00				2" Ice 5.72	4.87	0.39
(2) SBNHH-1D65B w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	146.00	No Ice 4.09 1/2" Ice 4.49	3.30 3.68	0.07 0.13

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
			3.00				1" Ice 4.89	4.07	0.20
							2" Ice 5.72	4.87	0.39
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	A	From Leg	4.00	0.0000	146.00		No Ice 7.50	5.63	0.04
			0.00				1/2" Ice 8.03	6.72	0.10
			3.00				1" Ice 8.53	7.56	0.17
							2" Ice 9.56	9.29	0.33
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	B	From Leg	4.00	0.0000	146.00		No Ice 7.50	5.63	0.04
			0.00				1/2" Ice 8.03	6.72	0.10
			3.00				1" Ice 8.53	7.56	0.17
							2" Ice 9.56	9.29	0.33
BXA-80063-6BF-EDIN-4 w/ Mount Pipe	C	From Leg	4.00	0.0000	146.00		No Ice 7.50	5.63	0.04
			0.00				1/2" Ice 8.03	6.72	0.10
			3.00				1" Ice 8.53	7.56	0.17
							2" Ice 9.56	9.29	0.33
CBRS w/ Mount Pipe	A	From Leg	4.00	0.0000	146.00		No Ice 1.71	1.17	0.03
			0.00				1/2" Ice 1.93	1.44	0.05
			3.00				1" Ice 2.17	1.72	0.07
							2" Ice 2.66	2.35	0.13
CBRS w/ Mount Pipe	B	From Leg	4.00	0.0000	146.00		No Ice 1.71	1.17	0.03
			0.00				1/2" Ice 1.93	1.44	0.05
			3.00				1" Ice 2.17	1.72	0.07
							2" Ice 2.66	2.35	0.13
CBRS w/ Mount Pipe	C	From Leg	4.00	0.0000	146.00		No Ice 1.71	1.17	0.03
			0.00				1/2" Ice 1.93	1.44	0.05
			3.00				1" Ice 2.17	1.72	0.07
							2" Ice 2.66	2.35	0.13
(2) RFV01U-D2A	A	From Leg	4.00	0.0000	146.00		No Ice 1.88	1.01	0.07
			0.00				1/2" Ice 2.05	1.14	0.09
			3.00				1" Ice 2.22	1.28	0.11
							2" Ice 2.60	1.59	0.15
RFV01U-D2A	B	From Leg	4.00	0.0000	146.00		No Ice 1.88	1.01	0.07
			0.00				1/2" Ice 2.05	1.14	0.09
			3.00				1" Ice 2.22	1.28	0.11
							2" Ice 2.60	1.59	0.15
RFV01U-D1A	B	From Leg	4.00	0.0000	146.00		No Ice 1.88	1.25	0.08
			0.00				1/2" Ice 2.05	1.39	0.10
			3.00				1" Ice 2.22	1.54	0.12
							2" Ice 2.60	1.86	0.18
(2) RFV01U-D1A	C	From Leg	4.00	0.0000	146.00		No Ice 1.88	1.25	0.08
			0.00				1/2" Ice 2.05	1.39	0.10
			3.00				1" Ice 2.22	1.54	0.12
							2" Ice 2.60	1.86	0.18
RHSDC-3315-PF-48	A	From Leg	4.00	0.0000	146.00		No Ice 3.36	2.19	0.03
			0.00				1/2" Ice 3.60	2.39	0.06
			-1.00				1" Ice 3.84	2.61	0.09
							2" Ice 4.34	3.05	0.17
RHSDC-3315-PF-48	C	From Leg	4.00	0.0000	146.00		No Ice 3.36	2.19	0.03
			0.00				1/2" Ice 3.60	2.39	0.06
			-1.00				1" Ice 3.84	2.61	0.09
							2" Ice 4.34	3.05	0.17
20W CBRS	A	From Leg	4.00	0.0000	146.00		No Ice 0.86	0.42	0.02
			0.00				1/2" Ice 0.98	0.51	0.03
			3.00				1" Ice 1.10	0.61	0.03
							2" Ice 1.37	0.83	0.06
20W CBRS	B	From Leg	4.00	0.0000	146.00		No Ice 0.86	0.42	0.02
			0.00				1/2" Ice 0.98	0.51	0.03
			3.00				1" Ice 1.10	0.61	0.03

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
1" Dia x 3.5-ft	B	From Leg	1.50 0.00 0.00	0.0000	10.00	2" Ice 0.00 No Ice 0.00 1/2" Ice 0.00 1" Ice 0.00 2" Ice 0.00	1.37 0.37 0.68 0.90 1.37	0.03 0.00 0.01 0.01 0.03
1" Dia x 3.5-ft	C	From Leg	1.50 0.00 0.00	0.0000	10.00	No Ice 0.00 1/2" Ice 0.00 1" Ice 0.00 2" Ice 0.00	0.37 0.68 0.90 1.37	0.00 0.01 0.01 0.03

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

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Comb. No.	Description
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	188 - 137	Pole	Max Tension	48	0.00	-0.00	0.00
			Max. Compression	26	-46.95	2.68	-1.12
			Max. Mx	20	-14.91	763.78	7.15
			Max. My	14	-14.86	-6.88	-772.04
			Max. Vy	20	-25.76	763.78	7.15
			Max. Vx	14	25.98	-6.88	-772.04
			Max. Torque	24			1.90
L2	137 - 90.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.06	2.94	-1.70
			Max. Mx	20	-25.16	2068.11	13.34
			Max. My	14	-25.13	-13.04	-2086.44
			Max. Vy	20	-31.15	2068.11	13.34
			Max. Vx	14	31.37	-13.04	-2086.44
			Max. Torque	24			1.90
L3	90.25 - 44.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-81.06	2.94	-2.18
			Max. Mx	20	-38.94	3570.33	19.24
			Max. My	14	-38.92	-18.94	-3598.35
			Max. Vy	20	-36.25	3570.33	19.24
			Max. Vx	14	36.47	-18.94	-3598.35
			Max. Torque	24			1.88
L4	44.5 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-110.53	2.94	-2.78
			Max. Mx	20	-61.98	5557.76	25.72
			Max. My	14	-61.98	-25.45	-5596.52
			Max. Vy	20	-41.32	5557.76	25.72
			Max. Vx	14	41.52	-25.45	-5596.52
			Max. Torque	24			1.87

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	33	110.53	-0.02	-11.17

<p>tnxTower</p> <p><i>Tower Engineering Professionals, Inc.</i></p> <p>326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350</p>	<p>Job</p> <p>CT New Britain 3 CAC 803175 (BU 803175)</p>	<p>Page</p> <p>14 of 20</p>
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Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Max. H _x	21	46.51	41.27	0.12
	Max. H _z	2	62.01	0.12	41.47
	Max. M _x	2	5595.96	0.12	41.47
	Max. M _z	8	5556.63	-41.27	-0.12
	Max. Torsion	24	1.87	20.74	35.98
	Min. Vert	23	46.51	35.80	20.84
	Min. H _x	8	62.01	-41.27	-0.12
	Min. H _z	15	46.51	-0.12	-41.47
	Min. M _x	14	-5596.52	-0.12	-41.47
	Min. M _z	20	-5557.76	41.27	0.12
	Min. Torsion	12	-1.86	-20.74	-35.98

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	51.68	0.00	0.00	0.21	0.43	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	62.01	-0.12	-41.47	-5595.96	26.51	-1.75
0.9 Dead+1.0 Wind 0 deg - No Ice	46.51	-0.12	-41.47	-5513.75	25.89	-1.73
1.2 Dead+1.0 Wind 30 deg - No Ice	62.01	20.53	-35.86	-4833.47	-2755.53	-1.13
0.9 Dead+1.0 Wind 30 deg - No Ice	46.51	20.53	-35.86	-4762.50	-2715.28	-1.12
1.2 Dead+1.0 Wind 60 deg - No Ice	62.01	35.68	-20.63	-2775.57	-4799.23	-0.19
0.9 Dead+1.0 Wind 60 deg - No Ice	46.51	35.68	-20.63	-2734.90	-4728.92	-0.19
1.2 Dead+1.0 Wind 90 deg - No Ice	62.01	41.27	0.12	26.24	-5556.63	0.79
0.9 Dead+1.0 Wind 90 deg - No Ice	46.51	41.27	0.12	25.70	-5475.15	0.79
1.2 Dead+1.0 Wind 120 deg - No Ice	62.01	35.80	20.84	2820.89	-4824.86	1.55
0.9 Dead+1.0 Wind 120 deg - No Ice	46.51	35.80	20.84	2779.26	-4754.09	1.53
1.2 Dead+1.0 Wind 150 deg - No Ice	62.01	20.74	35.98	4859.63	-2800.33	1.86
0.9 Dead+1.0 Wind 150 deg - No Ice	46.51	20.74	35.98	4788.06	-2759.26	1.85
1.2 Dead+1.0 Wind 180 deg - No Ice	62.01	0.12	41.47	5596.52	-25.45	1.68
0.9 Dead+1.0 Wind 180 deg - No Ice	46.51	0.12	41.47	5514.13	-25.11	1.67
1.2 Dead+1.0 Wind 210 deg - No Ice	62.01	-20.53	35.86	4834.04	2756.63	1.07
0.9 Dead+1.0 Wind 210 deg - No Ice	46.51	-20.53	35.86	4762.92	2716.08	1.07
1.2 Dead+1.0 Wind 240 deg - No Ice	62.01	-35.68	20.63	2776.13	4800.36	0.20
0.9 Dead+1.0 Wind 240 deg - No Ice	46.51	-35.68	20.63	2735.31	4729.74	0.20
1.2 Dead+1.0 Wind 270 deg - No Ice	62.01	-41.27	-0.12	-25.72	5557.76	-0.73
0.9 Dead+1.0 Wind 270 deg - No Ice	46.51	-41.27	-0.12	-25.31	5475.96	-0.73

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Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
No Ice						
1.2 Dead+1.0 Wind 300 deg - No Ice	62.01	-35.80	-20.84	-2820.39	4825.96	-1.49
0.9 Dead+1.0 Wind 300 deg - No Ice	46.51	-35.80	-20.84	-2778.90	4754.90	-1.48
1.2 Dead+1.0 Wind 330 deg - No Ice	62.01	-20.74	-35.98	-4859.11	2801.40	-1.87
0.9 Dead+1.0 Wind 330 deg - No Ice	46.51	-20.74	-35.98	-4787.68	2760.04	-1.85
1.2 Dead+1.0 Ice+1.0 Temp	110.53	-0.00	0.00	2.78	2.94	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	110.53	-0.02	-11.17	-1603.03	7.85	-0.47
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	110.53	5.55	-9.67	-1385.53	-792.18	-0.32
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	110.53	9.64	-5.57	-795.99	-1379.09	-0.09
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	110.53	11.14	0.02	7.64	-1595.61	0.17
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	110.53	9.66	5.60	810.02	-1383.74	0.38
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	110.53	5.59	9.68	1396.15	-800.25	0.49
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	110.53	0.02	11.17	1608.98	-1.47	0.46
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	110.53	-5.55	9.67	1391.49	798.56	0.32
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	110.53	-9.64	5.57	801.95	1385.47	0.09
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	110.53	-11.14	-0.02	-1.68	1602.00	-0.17
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	110.53	-9.66	-5.60	-804.06	1390.13	-0.38
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	110.53	-5.59	-9.68	-1390.19	806.63	-0.49
Dead+Wind 0 deg - Service	51.68	-0.03	-9.00	-1206.02	6.06	-0.38
Dead+Wind 30 deg - Service	51.68	4.45	-7.78	-1041.63	-593.58	-0.25
Dead+Wind 60 deg - Service	51.68	7.74	-4.48	-598.06	-1034.05	-0.04
Dead+Wind 90 deg - Service	51.68	8.96	0.03	5.82	-1197.30	0.17
Dead+Wind 120 deg - Service	51.68	7.77	4.52	608.21	-1039.64	0.34
Dead+Wind 150 deg - Service	51.68	4.50	7.81	1047.68	-603.27	0.41
Dead+Wind 180 deg - Service	51.68	0.03	9.00	1206.48	-5.12	0.38
Dead+Wind 210 deg - Service	51.68	-4.45	7.78	1042.09	594.52	0.24
Dead+Wind 240 deg - Service	51.68	-7.74	4.48	598.52	1034.99	0.04
Dead+Wind 270 deg - Service	51.68	-8.96	-0.03	-5.36	1198.24	-0.17
Dead+Wind 300 deg - Service	51.68	-7.77	-4.52	-607.75	1040.58	-0.34
Dead+Wind 330 deg - Service	51.68	-4.50	-7.81	-1047.22	604.21	-0.41

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-51.68	0.00	0.00	51.68	0.00	0.000%
2	-0.12	-62.01	-41.47	0.12	62.01	41.47	0.000%
3	-0.12	-46.51	-41.47	0.12	46.51	41.47	0.000%
4	20.53	-62.01	-35.86	-20.53	62.01	35.86	0.000%
5	20.53	-46.51	-35.86	-20.53	46.51	35.86	0.000%
6	35.68	-62.01	-20.63	-35.68	62.01	20.63	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
7	35.68	-46.51	-20.63	-35.68	46.51	20.63	0.000%
8	41.27	-62.01	0.12	-41.27	62.01	-0.12	0.000%
9	41.27	-46.51	0.12	-41.27	46.51	-0.12	0.000%
10	35.80	-62.01	20.84	-35.80	62.01	-20.84	0.000%
11	35.80	-46.51	20.84	-35.80	46.51	-20.84	0.000%
12	20.74	-62.01	35.98	-20.74	62.01	-35.98	0.000%
13	20.74	-46.51	35.98	-20.74	46.51	-35.98	0.000%
14	0.12	-62.01	41.47	-0.12	62.01	-41.47	0.000%
15	0.12	-46.51	41.47	-0.12	46.51	-41.47	0.000%
16	-20.53	-62.01	35.86	20.53	62.01	-35.86	0.000%
17	-20.53	-46.51	35.86	20.53	46.51	-35.86	0.000%
18	-35.68	-62.01	20.63	35.68	62.01	-20.63	0.000%
19	-35.68	-46.51	20.63	35.68	46.51	-20.63	0.000%
20	-41.27	-62.01	-0.12	41.27	62.01	0.12	0.000%
21	-41.27	-46.51	-0.12	41.27	46.51	0.12	0.000%
22	-35.80	-62.01	-20.84	35.80	62.01	20.84	0.000%
23	-35.80	-46.51	-20.84	35.80	46.51	20.84	0.000%
24	-20.74	-62.01	-35.98	20.74	62.01	35.98	0.000%
25	-20.74	-46.51	-35.98	20.74	46.51	35.98	0.000%
26	0.00	-110.53	0.00	0.00	110.53	-0.00	0.000%
27	-0.02	-110.53	-11.17	0.02	110.53	11.17	0.000%
28	5.55	-110.53	-9.66	-5.55	110.53	9.67	0.000%
29	9.64	-110.53	-5.57	-9.64	110.53	5.57	0.000%
30	11.14	-110.53	0.02	-11.14	110.53	-0.02	0.000%
31	9.66	-110.53	5.60	-9.66	110.53	-5.60	0.000%
32	5.59	-110.53	9.68	-5.59	110.53	-9.68	0.000%
33	0.02	-110.53	11.17	-0.02	110.53	-11.17	0.000%
34	-5.55	-110.53	9.66	5.55	110.53	-9.67	0.000%
35	-9.64	-110.53	5.57	9.64	110.53	-5.57	0.000%
36	-11.14	-110.53	-0.02	11.14	110.53	0.02	0.000%
37	-9.66	-110.53	-5.60	9.66	110.53	5.60	0.000%
38	-5.59	-110.53	-9.68	5.59	110.53	9.68	0.000%
39	-0.03	-51.68	-9.00	0.03	51.68	9.00	0.000%
40	4.45	-51.68	-7.78	-4.45	51.68	7.78	0.000%
41	7.74	-51.68	-4.48	-7.74	51.68	4.48	0.000%
42	8.96	-51.68	0.03	-8.96	51.68	-0.03	0.000%
43	7.77	-51.68	4.52	-7.77	51.68	-4.52	0.000%
44	4.50	-51.68	7.81	-4.50	51.68	-7.81	0.000%
45	0.03	-51.68	9.00	-0.03	51.68	-9.00	0.000%
46	-4.45	-51.68	7.78	4.45	51.68	-7.78	0.000%
47	-7.74	-51.68	4.48	7.74	51.68	-4.48	0.000%
48	-8.96	-51.68	-0.03	8.96	51.68	0.03	0.000%
49	-7.77	-51.68	-4.52	7.77	51.68	4.52	0.000%
50	-4.50	-51.68	-7.81	4.50	51.68	7.81	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	0.00021106
3	Yes	5	0.00000001	0.00009072
4	Yes	6	0.00000001	0.00032738
5	Yes	6	0.00000001	0.00009242
6	Yes	6	0.00000001	0.00033083
7	Yes	6	0.00000001	0.00009369

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8	Yes	5	0.00000001	0.00014597
9	Yes	5	0.00000001	0.00006258
10	Yes	6	0.00000001	0.00033966
11	Yes	6	0.00000001	0.00009563
12	Yes	6	0.00000001	0.00032904
13	Yes	6	0.00000001	0.00009185
14	Yes	5	0.00000001	0.00005185
15	Yes	4	0.00000001	0.00087897
16	Yes	6	0.00000001	0.00033474
17	Yes	6	0.00000001	0.00009493
18	Yes	6	0.00000001	0.00033027
19	Yes	6	0.00000001	0.00009344
20	Yes	5	0.00000001	0.00003426
21	Yes	4	0.00000001	0.00077809
22	Yes	6	0.00000001	0.00032981
23	Yes	6	0.00000001	0.00009215
24	Yes	6	0.00000001	0.00034146
25	Yes	6	0.00000001	0.00009617
26	Yes	4	0.00000001	0.00004096
27	Yes	6	0.00000001	0.00031185
28	Yes	6	0.00000001	0.00054959
29	Yes	6	0.00000001	0.00055316
30	Yes	6	0.00000001	0.00030885
31	Yes	6	0.00000001	0.00057121
32	Yes	6	0.00000001	0.00056097
33	Yes	6	0.00000001	0.00031318
34	Yes	6	0.00000001	0.00056948
35	Yes	6	0.00000001	0.00056372
36	Yes	6	0.00000001	0.00031151
37	Yes	6	0.00000001	0.00056408
38	Yes	6	0.00000001	0.00057650
39	Yes	4	0.00000001	0.00019841
40	Yes	5	0.00000001	0.00007630
41	Yes	5	0.00000001	0.00007848
42	Yes	4	0.00000001	0.00016216
43	Yes	5	0.00000001	0.00008484
44	Yes	5	0.00000001	0.00007793
45	Yes	4	0.00000001	0.00017894
46	Yes	5	0.00000001	0.00008143
47	Yes	5	0.00000001	0.00007837
48	Yes	4	0.00000001	0.00015143
49	Yes	5	0.00000001	0.00007846
50	Yes	5	0.00000001	0.00008628

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	188 - 137	40.037	50	2.0421	0.0052
L2	141.25 - 90.25	21.623	50	1.6179	0.0019
L3	95.5 - 44.5	9.014	50	0.9735	0.0007
L4	51 - 0	2.371	50	0.4317	0.0002

Critical Deflections and Radius of Curvature - Service Wind

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Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
188.00	Lighting Rod 3/4" x 8'	50	40.037	2.0421	0.0052	35646
161.00	AIR -32 B2A/B66AA w/ Mount Pipe	50	28.960	1.8229	0.0031	6600
146.00	(2) SBNHH-1D65B w/ Mount Pipe	50	23.295	1.6726	0.0021	4242
133.00	Side Arm Mount [SO 701-3]	50	18.885	1.5137	0.0015	3897
100.00	1" Dia x 3.5-ft	50	9.985	1.0380	0.0008	4288
70.00	1" Dia x 3.5-ft	50	4.561	0.6408	0.0004	4510
40.00	1" Dia x 3.5-ft	50	1.521	0.3259	0.0002	5916
10.00	1" Dia x 3.5-ft	50	0.253	0.0768	0.0000	23664

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	188 - 137	185.170	24	9.4820	0.0237
L2	141.25 - 90.25	100.210	24	7.5154	0.0086
L3	95.5 - 44.5	41.831	24	4.5226	0.0032
L4	51 - 0	11.004	24	2.0044	0.0011

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
188.00	Lighting Rod 3/4" x 8'	24	185.170	9.4820	0.0237	8082
161.00	AIR -32 B2A/B66AA w/ Mount Pipe	24	134.084	8.4662	0.0140	1491
146.00	(2) SBNHH-1D65B w/ Mount Pipe	24	107.933	7.7692	0.0097	953
133.00	Side Arm Mount [SO 701-3]	24	87.554	7.0317	0.0070	869
100.00	1" Dia x 3.5-ft	24	46.332	4.8225	0.0035	938
70.00	1" Dia x 3.5-ft	24	21.168	2.9764	0.0018	977
40.00	1" Dia x 3.5-ft	24	7.060	1.5132	0.0007	1276
10.00	1" Dia x 3.5-ft	24	1.176	0.3563	0.0001	5098

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	188 - 137 (1)	TP32.711x22x0.25	51.00	0.00	0.0	25.0495	-14.84	1465.40	0.010
L2	137 - 90.25 (2)	TP42.03x31.3184x0.3125	51.00	0.00	0.0	40.2848	-25.11	2356.66	0.011
L3	90.25 - 44.5 (3)	TP51.014x40.3023x0.375	51.00	0.00	0.0	58.6481	-38.92	3430.92	0.011
L4	44.5 - 0 (4)	TP59.61x48.8988x0.5	51.00	0.00	0.0	93.8076	-61.98	5487.74	0.011

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
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Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{rx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M _{uy} kip-ft	φM _{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	188 - 137 (1)	TP32.711x22x0.25	776.00	1113.48	0.697	0.00	1113.48	0.000
L2	137 - 90.25 (2)	TP42.03x31.3184x0.3125	2093.18	2281.22	0.918	0.00	2281.22	0.000
L3	90.25 - 44.5 (3)	TP51.014x40.3023x0.375	3607.75	4013.65	0.899	0.00	4013.65	0.000
L4	44.5 - 0 (4)	TP59.61x48.8988x0.5	5608.82	7974.63	0.703	0.00	7974.63	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V _u K	φV _n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T _u kip-ft	φT _n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	188 - 137 (1)	TP32.711x22x0.25	26.04	439.62	0.059	1.90	1215.38	0.002
L2	137 - 90.25 (2)	TP42.03x31.3184x0.3125	31.43	707.00	0.044	1.88	2514.68	0.001
L3	90.25 - 44.5 (3)	TP51.014x40.3023x0.375	36.53	1029.27	0.035	1.87	4441.48	0.000
L4	44.5 - 0 (4)	TP59.61x48.8988x0.5	41.58	1646.32	0.025	1.87	8522.25	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	188 - 137 (1)	0.010	0.697	0.000	0.059	0.002	0.711	1.050	4.8.2
L2	137 - 90.25 (2)	0.011	0.918	0.000	0.044	0.001	0.930	1.050	4.8.2
L3	90.25 - 44.5 (3)	0.011	0.899	0.000	0.035	0.000	0.912	1.050	4.8.2
L4	44.5 - 0 (4)	0.011	0.703	0.000	0.025	0.000	0.715	1.050	4.8.2

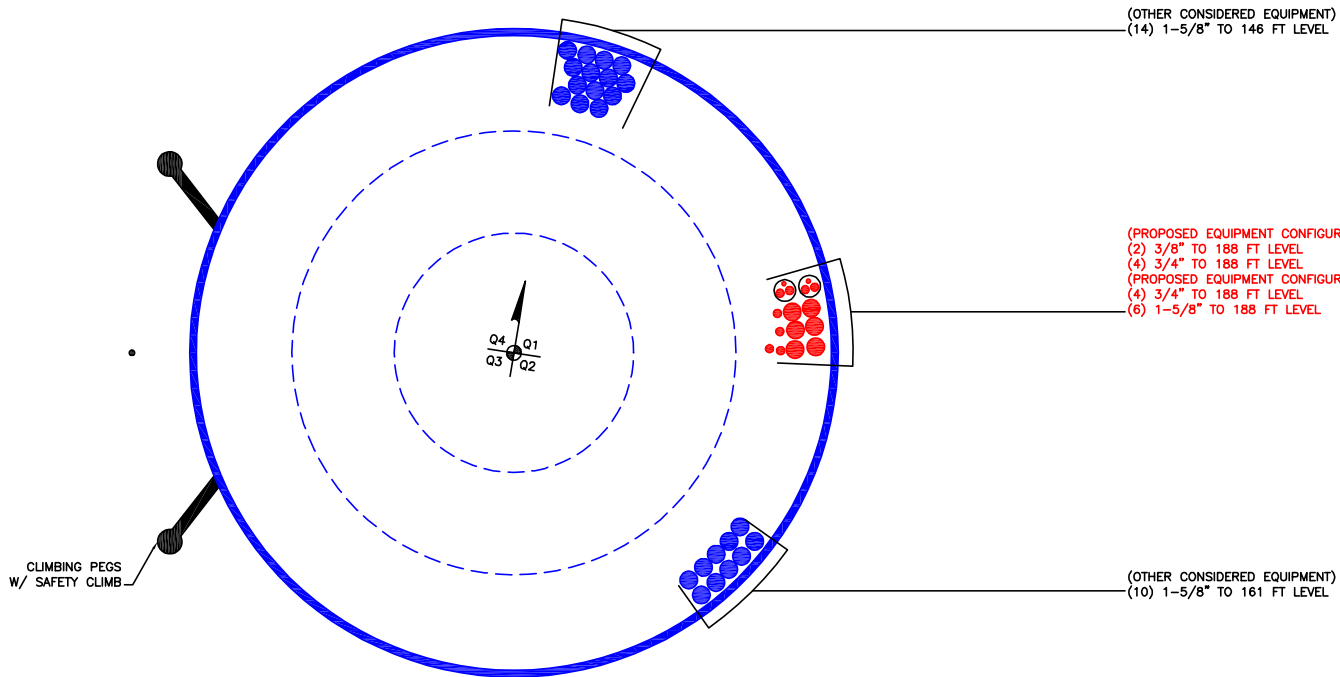
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φP _{allow} K	% Capacity	Pass Fail
L1	188 - 137	Pole	TP32.711x22x0.25	1	-14.84	1538.67	67.7	Pass
L2	137 - 90.25	Pole	TP42.03x31.3184x0.3125	2	-25.11	2474.49	88.6	Pass
L3	90.25 - 44.5	Pole	TP51.014x40.3023x0.375	3	-38.92	3602.47	86.8	Pass
L4	44.5 - 0	Pole	TP59.61x48.8988x0.5	4	-61.98	5762.13	68.1	Pass

<i>tnxTower</i> <i>Tower Engineering Professionals, Inc.</i> 326 Tryon Road Raleigh, NC 27603 Phone: (919) 661-6351 FAX: (919) 661-6350	Job CT New Britain 3 CAC 803175 (BU 803175)	Page 20 of 20
	Project TEP No. 25666.407181	Date 12:01:49 04/21/20
	Client Crown Castle	Designed by SMA

<i>Section No.</i>	<i>Elevation ft</i>	<i>Component Type</i>	<i>Size</i>	<i>Critical Element</i>	<i>P K</i>	ϕP_{allow} <i>K</i>	<i>% Capacity</i>	<i>Pass Fail</i>	
							Summary		
							Pole (L2)	88.6	Pass
							RATING =	88.6	Pass

APPENDIX B
BASE LEVEL DRAWING



(OTHER CONSIDERED EQUIPMENT)
(14) 1-5/8" TO 146 FT LEVEL

(PROPOSED EQUIPMENT CONFIGURATION-IN CONDUITS)
(2) 3/8" TO 188 FT LEVEL
(4) 3/4" TO 188 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(4) 3/4" TO 188 FT LEVEL
(6) 1-5/8" TO 188 FT LEVEL

CLIMBING PEGS
W/ SAFETY CLIMB

(OTHER CONSIDERED EQUIPMENT)
(10) 1-5/8" TO 161 FT LEVEL

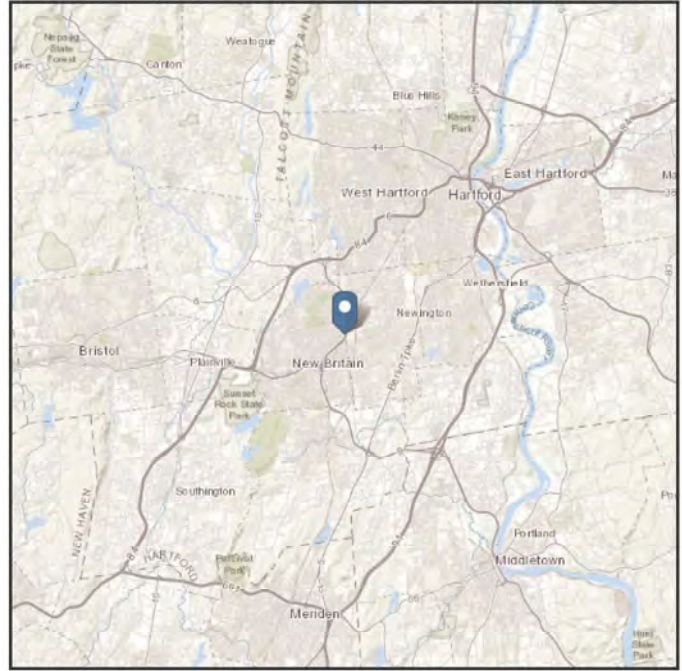
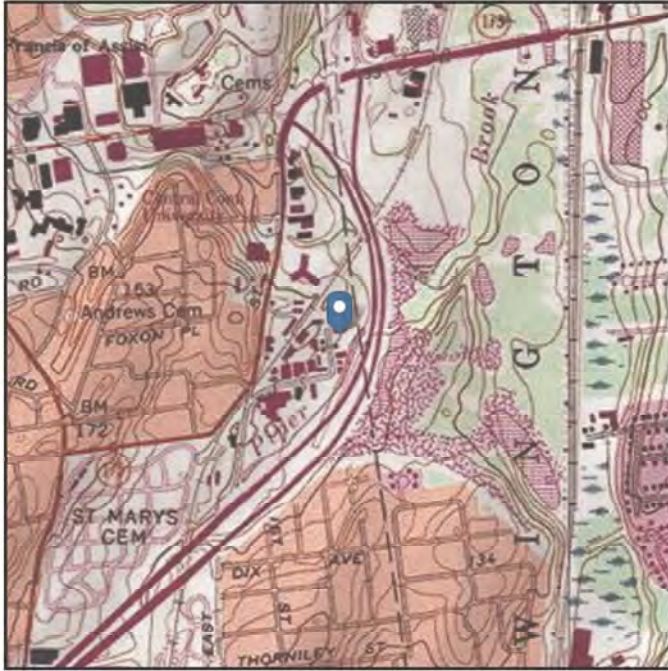
APPENDIX C
ADDITIONAL CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 88.33 ft (NAVD 88)
Latitude: 41.686611
Longitude: -72.757722



Wind

Results:

Wind Speed:	122 Vmph	*125 Vmph required per Appendix N of 2018 Connecticut State Building Code*
10-year MRI	76 Vmph	
25-year MRI	86 Vmph	
50-year MRI	93 Vmph	
100-year MRI	100 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: Fri Apr 17 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.

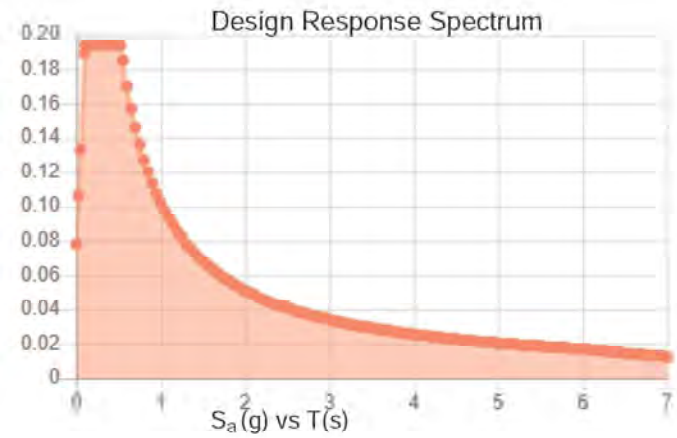
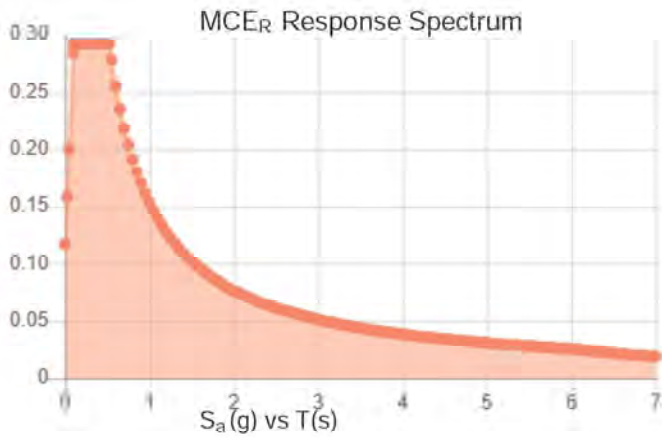
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.182	S_{DS} :	0.194
S_1 :	0.064	S_{D1} :	0.102
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.092
S_{MS} :	0.292	PGA _M :	0.148
S_{M1} :	0.153	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Fri Apr 17 2020

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 5 F
Gust Speed: 50 mph

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

Date Accessed: Fri Apr 17 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.

Monopole Base Plate Connection

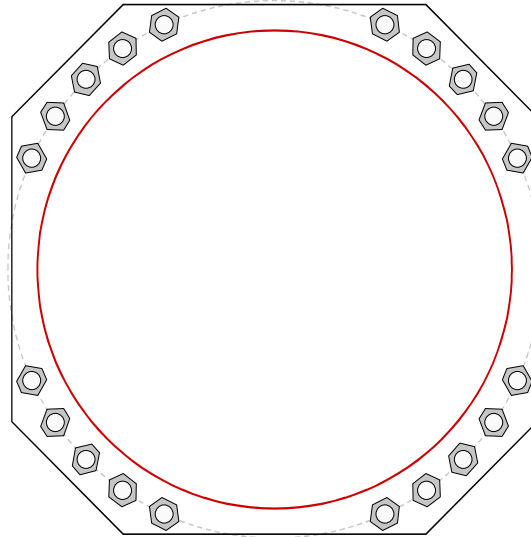


Site Info	
BU #	803175
Site Name	New Britain 3 CAC 803
Order #	509309 Rev. 0

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

Applied Loads	
Moment (kip-ft)	5609.00
Axial Force (kips)	62.00
Shear Force (kips)	42.00

*TIA-222-H Section 15.5 Applied



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

Anchor Rod Data
(20) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 67" BC <i>Anchor Spacing: 6 in</i>
Base Plate Data
66" OD x 3" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi)
Stiffener Data
N/A
Pole Data
59.61" x 0.5" 18-sided pole (A607-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary	(units of kips, kip-in)	
$Pu_c = 203.93$	$\phi Pn_c = 268.39$	Stress Rating
$Vu = 2.1$	$\phi Vn = 120.77$	72.4%
$Mu = n/a$	$\phi Mn = n/a$	Pass
Base Plate Summary		
Max Stress (ksi):	34.51	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	73.0%	Pass

Pier and Pad Foundation



BU #: 803175
 Site Name: CT New Britain 3 C
 App. Number: 509309 Rev. 0

TIA-222 Revision: H
 Tower Type: Monopole

Top & Bot. Pad Rein. Different?:
 Block Foundation?:

Superstructure Analysis Reactions		
Compression, P_{comp} :	62	kips
Base Shear, V_{u_comp} :	42	kips
Moment, M_u :	5609	ft-kips
Tower Height, H :	188	ft
BP Dist. Above Fdn, bp_{dist} :	3.5	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	222.06	42.00	18.0%	Pass
<i>Bearing Pressure (ksf)</i>	9.00	4.51	50.1%	Pass
<i>Overtuning (kip*ft)</i>	6596.04	5915.25	89.7%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	9859.26	5777.00	55.8%	Pass
<i>Pier Compression (kip)</i>	30551.04	108.08	0.3%	Pass
<i>Pad Flexure (kip*ft)</i>	6473.47	3058.50	45.0%	Pass
<i>Pad Shear - 1-way (kips)</i>	766.05	414.14	51.5%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.000	0.0%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	8464.14	3466.20	39.0%	Pass

Pier Properties		
Pier Shape:	Square	
Pier Diameter, $dpier$:	8	ft
Ext. Above Grade, E :	1.083333	ft
Pier Rebar Size, Sc :	11	
Pier Rebar Quantity, mc :	36	
Pier Tie/Spiral Size, St :	5	
Pier Tie/Spiral Quantity, mt :	12	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	4	in

*Rating per TIA-222-H Section 15.5

Soil Rating*:	89.7%
Structural Rating*:	55.8%

Pad Properties		
Depth, D :	5.9167	ft
Pad Width, W :	26	ft
Pad Thickness, T :	3	ft
Pad Rebar Size (Bottom), Sp :	11	
Pad Rebar Quantity (Bottom), mp :	33	
Pad Clear Cover, cc_{pad} :	4	in

Material Properties		
Rebar Grade, Fy :	60	ksi
Concrete Compressive Strength, $F'c$:	3	ksi
Dry Concrete Density, δc :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	110	pcf
Ultimate Gross Bearing, Q_{ult} :	12.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :		
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	17.75	ft

<--Toggle between Gross and Net

Exhibit E

Mount Analysis

April 20, 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

Subject: **Mount Modification Analysis**

Carrier Designation: **AT&T Mobility Reconfiguration**
Client Site Number: 25976
Client Site Name: CT5379
FA Location Code: 10091781

Crown Castle Designation: **Crown Castle BU Number:** 803175
Crown Castle Site Name: CT NEW BRITAIN 3 CAC
Crown Castle JDE Job Number: 596311
Crown Castle Order Number: 509309 Rev. 0

Engineering Firm Designation: **TEP Project Number:** 25666.406159

Site Data: **167 Cocomo, New Britain, Hartford County, CT 06051**
Latitude 41° 41' 23.61", Longitude -72° 45' 30.24"

Structure Information: **Tower Height & Type:** 188.0 ± ft Monopole
Mount Elevation: 188 ft
Mount Width & Type: 14.0 ft Platform w/ Support Rail

Dear Darcy Tarr,

Tower Engineering Professionals is pleased to submit this “**Mount Modification 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:

Platform w/Support Rail 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 118 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Austin J. Wilson / CKL

Respectfully submitted by:

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



Electronic Copy

04/20/2020

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7) APPENDIX C

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9) APPENDIX E

Mount Modification Design Drawings (MDD)

1) INTRODUCTION

The mount is an existing 14.0-ft Platform w/ Support Rail mount.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	118 mph
Exposure Category:	C
Topographic Category at Base:	1.0
Topographic Category at Mount:	1.0
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic Design Category:	B
Seismic S_s:	0.194
Seismic S_1:	0.055
Live Loading Wind Speed:	30 mph
Live Loading at Mid/End-Points:	250 lb
Man Live Loading at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
188	190	1	CCI Antennas	DMP65R-BU4D	Platform w/ Support Rail
		2	CCI Antennas	DMP65R-BU6D	
		1	CCI Antennas	OPA-65R-LCUU-H4	
		2	CCI Antennas	OPA-65R-LCUU-H6	
		1	CCI Antennas	OPA-65R-BU4D	
		2	CCI Antennas	OPA-65R-BU6D	
		1	Quintel Tech.	QS46512-2	
		2	Quintel Tech.	QS66512-2	
		3	Ericsson	RRUS 32 B2	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 4478	
		3	Ericsson	RRUS E2 B29	
		1	Raycap	DC6-48-60-18-8C	
		189	3	Ericsson	
	3		Ericsson	RRUS 32 B30	
	3		Ericsson	RRUS 32 B66	
	1		Raycap	DC6-48-60-0-8F	
2	Raycap		DC6-48-60-18-8F		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Previous Mount Analysis	Tower Engineering Professionals	902492500	CCIsites
Loading Application	AT&T Mobility	Order 509309 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)*.

AT&T: In addition, this analysis is in accordance with AT&T's *Mount Technical Guidance – Revision 15*

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, 15th 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 (Platform w/ Support Rail Mount)

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	SF2-H2	188	84.1	Pass
1	Support Rail	SF2-SR	188.0	74.7	Pass
1	Support Rail Bracing	HRB-2	188.0	5.7	Pass
1	Internal	GSC3	188.0	54.6	Pass
1	Support Horizontals	SA1	188	8.6	Pass
1	Mount Pipes	MP-6	188	60.9	Pass

Structure Rating (max from all components) =	84.1%
---	--------------

Notes:

- 1) See additional documentation in "Appendix C - Analysis Output" 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) ³	Notes
-	-	-	-	-	-	-

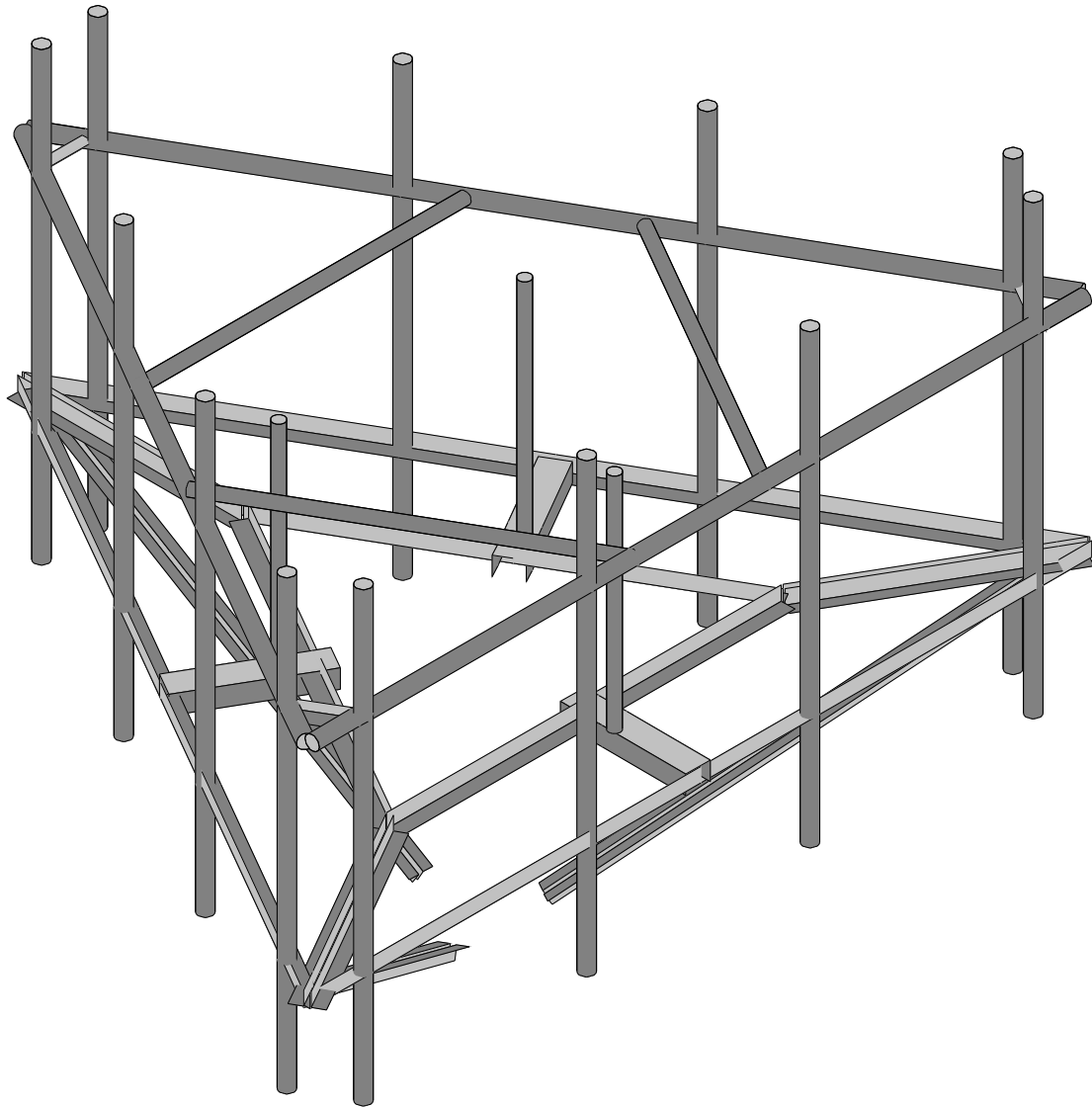
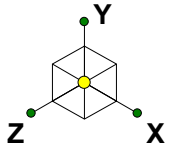
Notes:

- 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 modifications depicted in "Appendix E – Mount Modification Design Drawings" shall be installed and, upon completion, inspected. The mount has sufficient capacity to support the proposed loading configuration once the proposed modifications listed below are completed.
 - a) Remove existing Support Rail and Face Verticals; Replace with (1) SitePro Model No. HRK14-3HD Support Rail
 - b) Remove existing (12) Mount Pipes; Replace with (12) SitePro Model No. P3096 2.5SCH40 x 8' Mount Pipe
 - c) Add (12) Crossover Plate Kits, SitePro Model No. SCX23-K

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Tower Engineering Profess...

AJW

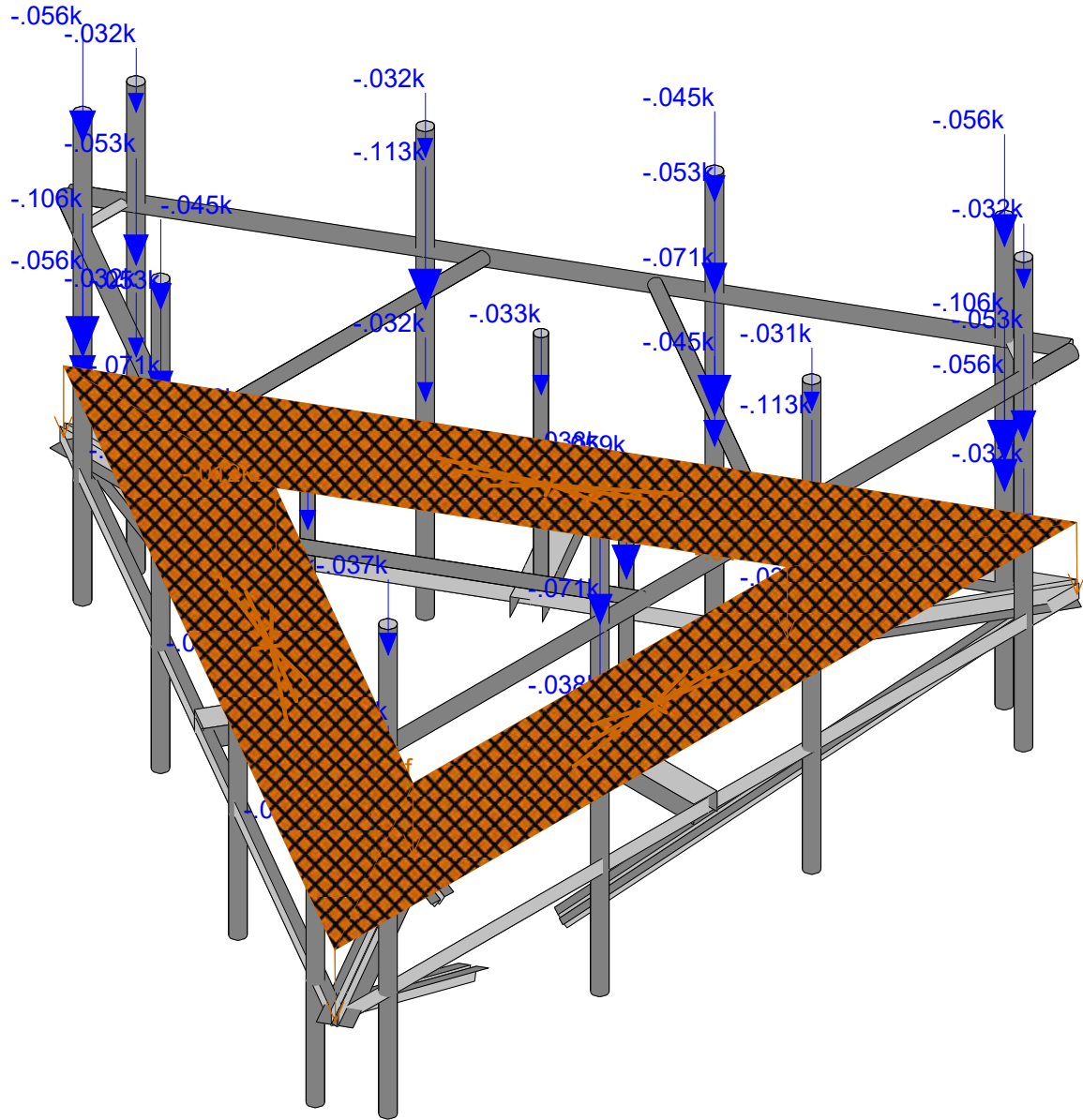
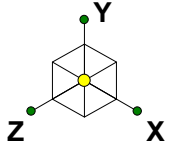
TEP No. 25666.406159

CCI BU No. 803175

SK - 1

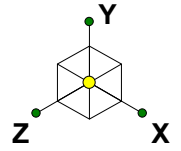
Apr 20, 2020 at 2:53 PM

Mount Rev H.r3d

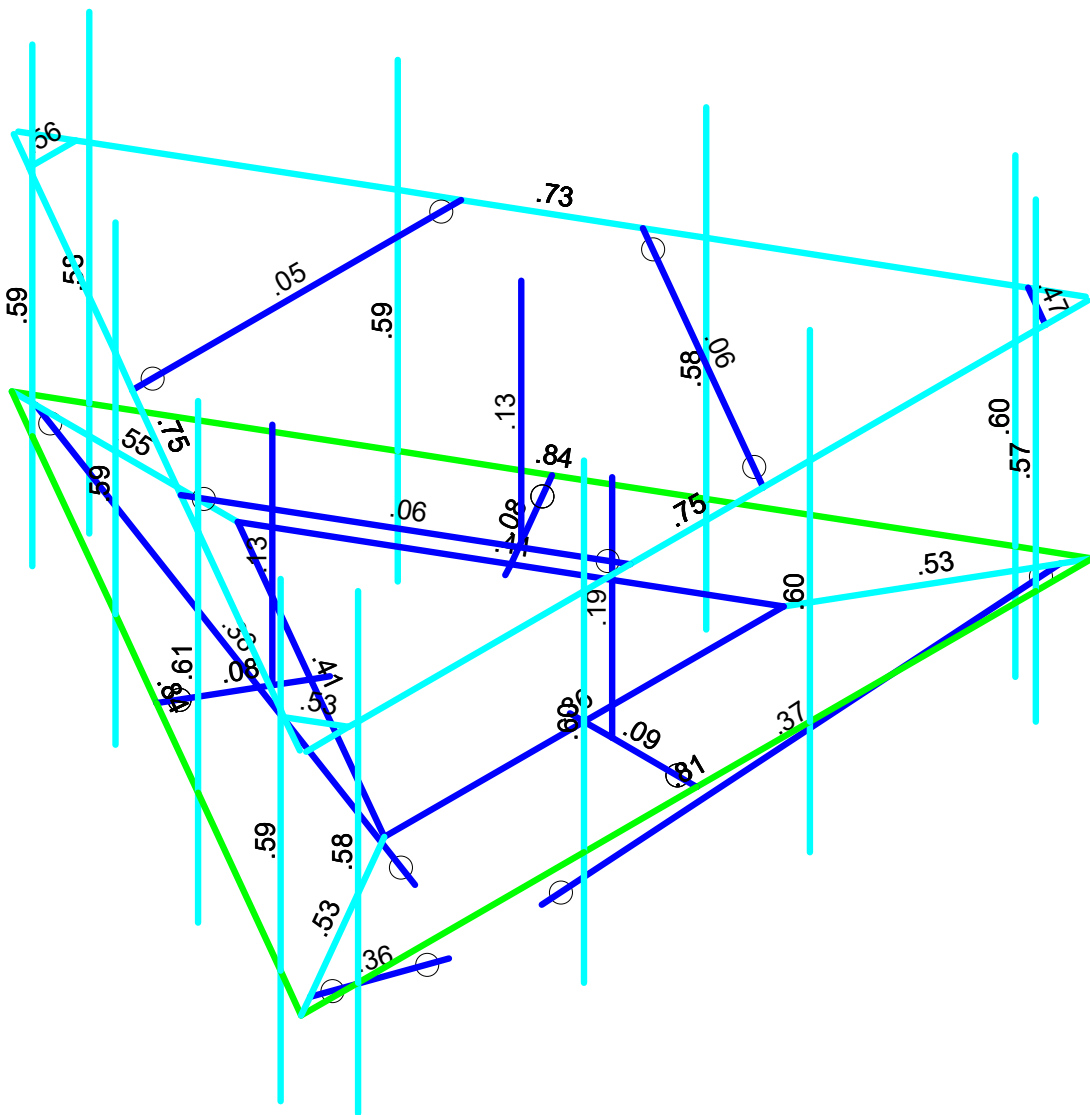


Loads: BLC 1, Dead

Tower Engineering Profess...	CCI BU No. 803175	SK - 2
AJW		Apr 20, 2020 at 2:54 PM
TEP No. 25666.406159		Mount Rev H.r3d

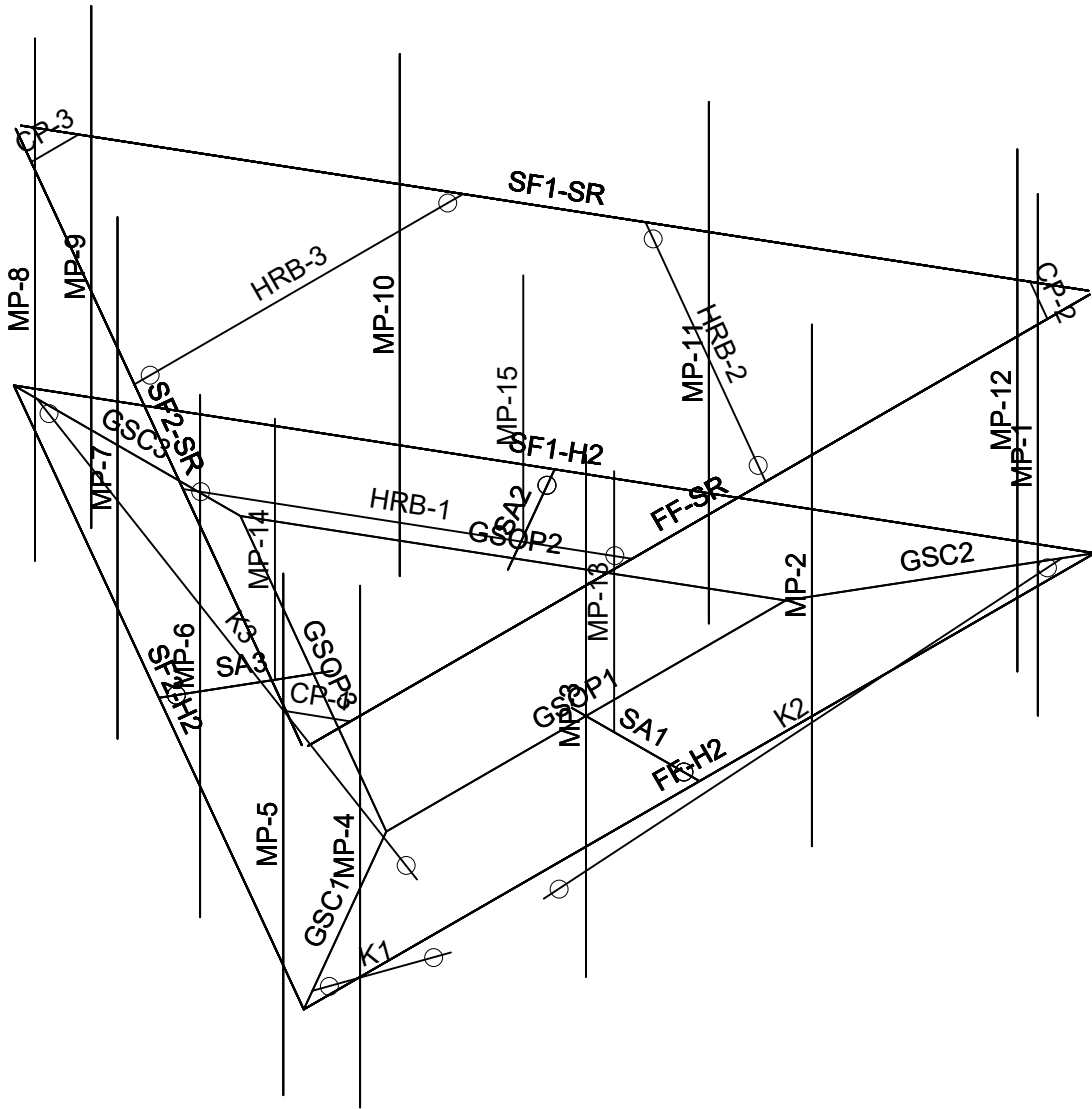
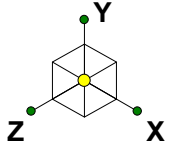


Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profess...	CCI BU No. 803175	SK - 3
AJW		Apr 20, 2020 at 3:04 PM
TEP No. 25666.406159		Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profess...

AJW

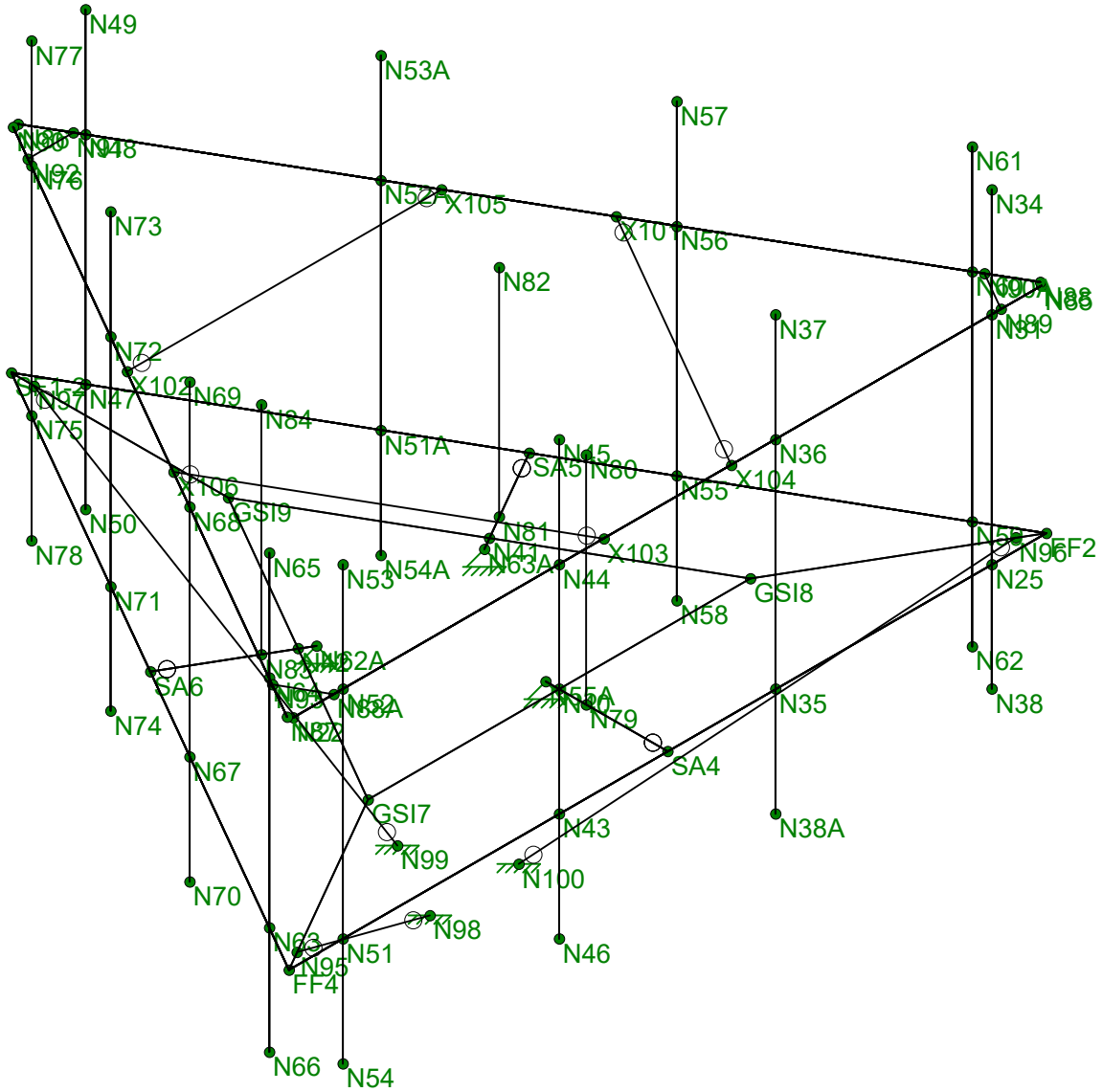
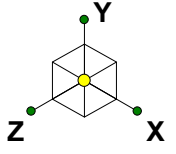
TEP No. 25666.406159

CCI BU No. 803175

SK - 4

Apr 20, 2020 at 3:04 PM

Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profess...

AJW

TEP No. 25666.406159

CCI BU No. 803175

SK - 6

Apr 20, 2020 at 3:05 PM

Mount Rev H.r3d

APPENDIX B
SOFTWARE INPUT CALCULATIONS



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

Wind Inputs:

Ult. Wind Velocity:	118.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.50	inches
Mount Centerline:	188.0	ft
Antenna Centerline:	190.0	ft
Exposure Category:	C	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	88	ft

Wind Calculations:

K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	1.446	Section 2.6.5.2
$K_{z-Antenna}$:	1.449	Section 2.6.5.2
K_{iz} :	1.191	Section 2.6.10
Ice Thickness:	1.786	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_z G_h)_{Mount}$:	48.79	$(q_z G_h)_{Mount}$:	8.76
$(q_z G_h)_{Antenna}$:	48.90	$(q_z G_h)_{Antenna}$:	8.78



CCI BU No. 803175
 TEP No. 25666.406159
 Analysis By: AJW 4/20/2020
 Checked By: CKL 4/20/2020

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	OPA-65R-LCUU-H4	48.00	14.40	7.30	64.00	0.00	1	Flat	MP-1	0.50	4.50	
Ericsson	RRUS E2 B29	20.40	18.50	7.50	52.90	0.00	1	Flat	MP-1	3.00		
CCI Antennas	OPA65R-BU4D	48.00	21.00	7.80	62.30	0.00	1	Flat	MP-2	0.50	4.50	
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	90.00	1	Flat	MP-2	3.00		
Ericsson	RRUS 32 B30	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-2	3.00		
CCI Antennas	DMP65R-BU4D	48.00	20.70	7.70	76.50	0.00	1	Flat	MP-3	0.50	4.50	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	0.00	1	Flat	MP-3	4.00		
Ericsson	RRUS 32 B2	27.20	12.05	7.00	52.90	0.00	1	Flat	MP-3	2.00		
Quintel	QS46512-2	52.00	12.00	10.80	75.00	0.00	1	Flat	MP-4	0.50	4.50	
Ericsson	RRUS 32 B2	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-4	4.00		
Ericsson	RRUS 32 B66	27.20	12.10	7.00	53.00	90.00	1	Flat	MP-4	4.00		
CCI Antennas	OPA-65R-LCUU-H6	72.00	14.80	7.40	63.50	120.00	1	Flat	MP-5	0.50	4.50	
Ericsson	RRUS E2 B29	20.40	18.50	7.50	52.90	120.00	1	Flat	MP-5	3.00		
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	63.50	120.00	1	Flat	MP-6	0.50	4.50	
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	210.00	1	Flat	MP-6	3.00		
Ericsson	RRUS 32 B30	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-6	3.00		
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	89.30	120.00	1	Flat	MP-7	0.50	4.50	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	120.00	1	Flat	MP-7	4.00		
Ericsson	RRUS 32 B2	27.20	12.05	7.00	52.90	120.00	1	Flat	MP-7	2.00		
Quintel	QS66512-2	72.00	12.00	9.60	111.00	120.00	1	Flat	MP-8	0.50	4.50	
Ericsson	RRUS 32 B2	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-8	4.00		
Ericsson	RRUS 32 B66	27.20	12.10	7.00	53.00	210.00	1	Flat	MP-8	4.00		
CCI Antennas	OPA-65R-LCUU-H6	72.00	14.80	7.40	63.50	240.00	1	Flat	MP-9	0.50	4.50	
Ericsson	RRUS E2 B29	20.40	18.50	7.50	52.90	240.00	1	Flat	MP-9	3.00		
CCI Antennas	OPA65R-BU6D	71.20	21.00	7.80	63.50	240.00	1	Flat	MP-10	0.50	4.50	
Ericsson	RRUS 4478 B14	16.50	13.40	7.70	59.90	330.00	1	Flat	MP-10	3.00		
Ericsson	RRUS 32 B30	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-10	3.00		
CCI Antennas	DMP65R-BU6D	71.20	20.70	7.70	89.30	240.00	1	Flat	MP-11	0.50	4.50	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	240.00	1	Flat	MP-11	4.00		
Ericsson	RRUS 32 B2	27.20	12.05	7.00	52.90	240.00	1	Flat	MP-11	2.00		
Quintel	QS66512-2	72.00	12.00	9.60	111.00	240.00	1	Flat	MP-12	0.50	4.50	
Ericsson	RRUS 32 B2	27.20	12.05	7.00	52.90	330.00	1	Flat	MP-12	4.00		
Ericsson	RRUS 32 B66	27.20	12.10	7.00	53.00	330.00	1	Flat	MP-12	4.00		
Raycap	DC6-48-60-0-8F	24.00	11.00	11.00	32.80	0.00	1	Round	MP-13	1.00		
Raycap	DC6-48-60-18-8C	31.41	10.24	10.24	26.20	0.00	1	Round	MP-13	1.00		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	0.00	1	Round	MP-14	1.00		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	0.00	1	Round	MP-15	1.00		



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

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
CP-1	2.500	10.00	Flat	30.00	10.00
CP-2	2.500	10.00	Flat	-30.00	10.00
CP-3	2.500	10.00	Flat	90.00	10.00
FF-H2	3.000	168.00	Flat	90.00	12.00
SF1-H2	3.000	168.00	Flat	30.00	12.00
SF2-H2	3.000	168.00	Flat	-30.00	12.00
FF-SR	2.875	166.00	Round	90.00	9.03
SF1-SR	2.875	166.00	Round	30.00	9.03
SF2-SR	2.875	166.00	Round	-30.00	9.03
HRB-1	2.375	69.86	Round	30.00	7.46
HRB-2	2.375	69.86	Round	-30.00	7.46
HRB-3	2.375	69.86	Round	90.00	7.46
GSOP1	3.000	84.86	Flat	90.00	12.00
GSOP2	3.000	84.86	Flat	30.00	12.00
GSOP3	3.000	84.86	Flat	-30.00	12.00
GSC1	3.000	48.00	Flat	-60.00	12.00
GSC2	3.000	48.00	Flat	60.00	12.00
GSC3	3.000	48.00	Flat	0.00	12.00
K1	2.500	93.83	Flat		10.00
K2	2.500	93.83	Flat		10.00
K3	2.500	93.83	Flat		10.00
MP-1	2.875	96.00	Round		9.03
MP-2	2.875	96.00	Round		9.03
MP-3	2.875	96.00	Round		9.03
MP-4	2.875	96.00	Round		9.03
MP-5	2.875	96.00	Round		9.03
MP-6	2.875	96.00	Round		9.03
MP-7	2.875	96.00	Round		9.03
MP-8	2.875	96.00	Round		9.03
MP-9	2.875	96.00	Round		9.03
MP-10	2.875	96.00	Round		9.03
MP-11	2.875	96.00	Round		9.03
MP-12	2.875	96.00	Round		9.03
MP-13	2.375	48.00	Round		7.46
MP-14	2.375	48.00	Round		7.46
MP-15	2.375	48.00	Round		7.46
SA1	4.000	27.00	Flat	0.00	16.00
SA2	4.000	27.00	Flat	-60.00	16.00
SA3	4.000	27.00	Flat	60.00	16.00

APPENDIX C
SOFTWARE ANALYSIS OUTPUT



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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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
RISA Connection 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	None

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 ASTM A615
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 (1/E, Density) [k/ft.	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65 .49	36	1.5	58	1.2
2	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

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	Support Arm	BPL 5.375x4x6	None	None	A36 Gr.36	Typical	4.734	7.631	21.877	.209
2	Face Horiz	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
3	Internal	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
4	Internal - 2	LL3x3x4x0	None	None	A36 Gr.36	Typical	2.88	4.5	2.46	.063
5	Mount Pipe 2	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
6	Mount Pipe	PIPE 2.5	None	None	A53-B-35	Typical	1.61	1.45	1.45	2.89
7	Handrail	PIPE 2.5	None	None	A53-B-35	Typical	1.61	1.45	1.45	2.89
8	Handrail Brace	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
9	HR Connection	L2x2x3 HRA	None	None	A36 Gr.36	Typical	.722	.271	.271	.009
10	Kicker	LL2.5x2.5x3x0	None	None	A36 Gr.36	Typical	1.8	1.91	1.07	.023
11	Corner Brace	L 2.5x2.5x3	None	None	A36 Gr.36	Typical	.901	.535	.535	.011



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Cold Formed Steel Section Sets

Label	Shape	Type	Design List	Material	Design R...	A [in/2]	Ivy [in/4]	Izz [in/4]	J [in/4]	
1	CF1A	1.5CU1.25X035	Beam	None	A570 Gr.33	Typical	.131	.022	.052	5.4e-5

Material Takeoff

Material	Size	Pieces	Length(ft)	Weight(K)
1	Hot Rolled Steel			
2	A36 Gr.36	BPL 5.375x4x6	3	6.7
3	A36 Gr.36	L2.5x2.5x3	3	2.5
4	A36 Gr.36	L3X3X4	6	63.2
5	A36 Gr.36	LL2.5x2.5x3x0	3	23.5
6	A36 Gr.36	LL3x3x4x0	3	12
7	A53-B-35	PIPE 2.0	6	29.5
8	A53-B-35	PIPE 2.5	15	137.5
9	Total HR Steel	39	274.9	1.5

Joint Boundary Conditions

Joint Label	X R/in	Y R/in	Z R/in	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N55A	Reaction	Reaction	Reaction		
2	N62A	Reaction	Reaction	Reaction		
3	N63A	Reaction	Reaction	Reaction		
4	N98	Reaction	Reaction	Reaction	Reaction	Reaction
5	N99	Reaction	Reaction	Reaction	Reaction	Reaction
6	N100	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Ru...
1	CP-1	N88A	N93	90	Corner Brace	None	None	A36 Gr.36	Typical
2	CP-2	N90A	N89	90	Corner Brace	None	None	A36 Gr.36	Typical
3	CP-3	N92	N91	90	Corner Brace	None	None	A36 Gr.36	Typical
4	FF-H2	FF2	FF2		Face Horiz	None	None	A36 Gr.36	Typical
5	SF1-H2	FF4	SF1-2		Face Horiz	None	None	A36 Gr.36	Typical
6	SF2-H2	FF4	SF1-2		Face Horiz	None	None	A36 Gr.36	Typical
7	FF-SR	N85	N22		Handrail	None	None	A53-B-35	Typical
8	SF1-SR	N86	N88		Handrail	None	None	A53-B-35	Typical
9	SF2-SR	N87	N90		Handrail	None	None	A53-B-35	Typical
10	HRB-1	X103	X106		Handrail Brace	None	None	A53-B-35	Typical
11	HRB-2	X101	X104		Handrail Brace	None	None	A53-B-35	Typical
12	HRB-3	X102	X105		Handrail Brace	None	None	A53-B-35	Typical
13	GSOP1	GS17	GS18		Internal	None	None	A36 Gr.36	Typical
14	GSOP2	GS18	GS19		Internal	None	None	A36 Gr.36	Typical
15	GSOP3	GS19	GS17		Internal	None	None	A36 Gr.36	Typical
16	GSC1	FF4	GS17	180	Internal - 2	None	None	A36 Gr.36	Typical
17	GSC2	FF2	GS18	180	Internal - 2	None	None	A36 Gr.36	Typical
18	GSC3	SF1-2	GS19	180	Internal - 2	None	None	A36 Gr.36	Typical
19	K1	N95	N98		Kicker	None	None	A36 Gr.36	Typical
20	K2	N96	N100		Kicker	None	None	A36 Gr.36	Typical
21	K3	N97	N99		Kicker	None	None	A36 Gr.36	Typical



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Ru...
22	MP-1	N34	N38		Mount Pipe	None	None	A53-B-35	Typical
23	MP-2	N37	N38A		Mount Pipe	None	None	A53-B-35	Typical
24	MP-3	N45	N46		Mount Pipe	None	None	A53-B-35	Typical
25	MP-4	N53	N54		Mount Pipe	None	None	A53-B-35	Typical
26	MP-5	N65	N66		Mount Pipe	None	None	A53-B-35	Typical
27	MP-6	N69	N70		Mount Pipe	None	None	A53-B-35	Typical
28	MP-7	N73	N74		Mount Pipe	None	None	A53-B-35	Typical
29	MP-8	N77	N78		Mount Pipe	None	None	A53-B-35	Typical
30	MP-9	N49	N50		Mount Pipe	None	None	A53-B-35	Typical
31	MP-10	N53A	N54A		Mount Pipe	None	None	A53-B-35	Typical
32	MP-11	N57	N58		Mount Pipe	None	None	A53-B-35	Typical
33	MP-12	N61	N62		Mount Pipe	None	None	A53-B-35	Typical
34	MP-13	N80	N79		Mount Pipe 2	None	None	A53-B-35	Typical
35	MP-14	N84	N83		Mount Pipe 2	None	None	A53-B-35	Typical
36	MP-15	N82	N81		Mount Pipe 2	None	None	A53-B-35	Typical
37	SA1	N55A	SA4	90	Support Arm	None	None	A36 Gr.36	Typical
38	SA2	N63A	SA5	90	Support Arm	None	None	A36 Gr.36	Typical
39	SA3	N62A	SA6	90	Support Arm	None	None	A36 Gr.36	Typical

Member Advanced Data

Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Ra...	Analysis...	Inactive	Seismi...
1	CP-1					Yes	** NA **			None
2	CP-2					Yes	** NA **			None
3	CP-3					Yes	** NA **			None
4	FF-H2					Yes	** NA **			None
5	SF1-H2					Yes	** NA **			None
6	SF2-H2					Yes	** NA **			None
7	FF-SR					Yes	** NA **			None
8	SF1-SR					Yes	** NA **			None
9	SF2-SR					Yes	** NA **			None
10	HRB-1	BenPIN	BenPIN			Yes	** NA **			None
11	HRB-2	BenPIN	BenPIN			Yes	** NA **			None
12	HRB-3	BenPIN	BenPIN			Yes	** NA **			None
13	GSOP1					Yes	** NA **			None
14	GSOP2					Yes	** NA **			None
15	GSOP3					Yes	** NA **			None
16	GSC1					Yes	** NA **			None
17	GSC2					Yes	** NA **			None
18	GSC3					Yes	** NA **			None
19	K1	BenPIN	BenPIN			Yes	** NA **			None
20	K2	BenPIN	BenPIN			Yes	** NA **			None
21	K3	BenPIN	BenPIN			Yes	** NA **			None
22	MP-1					Yes	** NA **			None
23	MP-2					Yes	** NA **			None
24	MP-3					Yes	** NA **			None
25	MP-4					Yes	** NA **			None
26	MP-5					Yes	** NA **			None
27	MP-6					Yes	** NA **			None
28	MP-7					Yes	** NA **			None
29	MP-8					Yes	** NA **			None



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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Member Advanced Data (Continued)

Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical Defl.Ra...	Analysis...	Inactive	Seismi...
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	MP-13					Yes	** NA **		None
35	MP-14					Yes	** NA **		None
36	MP-15					Yes	** NA **		None
37	SA1		BenPIN			Yes	** NA **		None
38	SA2		BenPIN			Yes	** NA **		None
39	SA3		BenPIN			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	CP-1	Corner Brace	.833					1	1		Lateral
2	CP-2	Corner Brace	.833					1	1		Lateral
3	CP-3	Corner Brace	.833					1	1		Lateral
4	FF-H2	Face Horiz	14	7				1	1		Lateral
5	SF1-H2	Face Horiz	14	7				1	1		Lateral
6	SF2-H2	Face Horiz	14	7				1	1		Lateral
7	FF-SR	Handrail	13.833	5.738				2.1	2.1		Lateral
8	SF1-SR	Handrail	13.833	5.738				2.1	2.1		Lateral
9	SF2-SR	Handrail	13.833	5.738				2.1	2.1		Lateral
10	HRB-1	Handrail Brace	5.821					1	1		Lateral
11	HRB-2	Handrail Brace	5.821					1	1		Lateral
12	HRB-3	Handrail Brace	5.821					1	1		Lateral
13	GSOP1	Internal	7.072	3.5	3.5			1	1		Lateral
14	GSOP2	Internal	7.072	3.5	3.5			1	1		Lateral
15	GSOP3	Internal	7.072	3.5	3.5			1	1		Lateral
16	GSC1	Internal - 2	4					1	1		Lateral
17	GSC2	Internal - 2	4					1	1		Lateral
18	GSC3	Internal - 2	4					1	1		Lateral
19	K1	Kicker	7.819					1	1		Lateral
20	K2	Kicker	7.819					1	1		Lateral
21	K3	Kicker	7.819					1	1		Lateral
22	MP-1	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
23	MP-2	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
24	MP-3	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
25	MP-4	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
26	MP-5	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
27	MP-6	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
28	MP-7	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
29	MP-8	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
30	MP-9	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
31	MP-10	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
32	MP-11	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
33	MP-12	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
34	MP-13	Mount Pipe 2	4	Segment	Segment			2.1	2.1		Lateral
35	MP-14	Mount Pipe 2	4	Segment	Segment			2.1	2.1		Lateral
36	MP-15	Mount Pipe 2	4	Segment	Segment			2.1	2.1		Lateral
37	SA1	Support Arm	2.25					1	1		Lateral



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Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top(ft)	Lcomp bot(ft)	L-torq...	Kyy	Kzz	Cb	Functi...
38	SA2	Support Arm	2.25					1	1		Lateral
39	SA3	Support Arm	2.25					1	1		Lateral

Cold Formed Steel Design Parameters

Label	Shape	Lengt...	Lbyy(ft)	Lbzz(ft)	Lcomp to...	Lcomp b...	Kyy	Kzz	Cm-yy	Cm-zz	Cb	R	y sway	z sway
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	None		-1		49		3
2	0 Wind - No Ice	None				49	39	
3	30 Wind - No Ice	None				98	78	
4	45 Wind - No Ice	None				98	78	
5	60 Wind - No Ice	None				98	78	
6	90 Wind - No Ice	None				49	39	
7	120 Wind - No Ice	None				98	78	
8	135 Wind - No Ice	None				98	78	
9	150 Wind - No Ice	None				98	78	
10	180 Wind - No Ice	None				49	39	
11	210 Wind - No Ice	None				98	78	
12	225 Wind - No Ice	None				98	78	
13	240 Wind - No Ice	None				98	78	
14	270 Wind - No Ice	None				49	39	
15	300 Wind - No Ice	None				98	78	
16	315 Wind - No Ice	None				98	78	
17	330 Wind - No Ice	None				98	78	
18	Ice Weight	None				49	39	3
19	0 Wind - Ice	None				49	39	
20	30 Wind - Ice	None				98	78	
21	45 Wind - Ice	None				98	78	
22	60 Wind - Ice	None				98	78	
23	90 Wind - Ice	None				49	39	
24	120 Wind - Ice	None				98	78	
25	135 Wind - Ice	None				98	78	
26	150 Wind - Ice	None				98	78	
27	180 Wind - Ice	None				49	39	
28	210 Wind - Ice	None				98	78	
29	225 Wind - Ice	None				98	78	
30	240 Wind - Ice	None				98	78	
31	270 Wind - Ice	None				49	39	
32	300 Wind - Ice	None				98	78	
33	315 Wind - Ice	None				98	78	
34	330 Wind - Ice	None				98	78	
35	Lm	None				1		
36	Lv	None				1		
37	Seismic Load X	ELX	-1			49		
38	Seismic Load Z	ELZ		-1		49		
39	BLC 1 Transient Area	None						30
40	BLC 18 Transient Area	None						30



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Joint Loads and Enforced Displacements (BLC 35 : Lm)

Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft, k*s^2*ft)]
1	N25	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, k*s^2*ft)]
1	FF2	L	Y -25

Member Point Loads (BLC 1 : Dead)

Member Label	Direction	Magnitude[(k, k-ft)]	Location(ft, %)
1	MP-1	Y -032	5
2	MP-1	Y -053	3
3	MP-2	Y -031	5
4	MP-2	Y -06	3
5	MP-2	Y -053	3
6	MP-3	Y -038	5
7	MP-3	Y -071	4
8	MP-3	Y -053	2
9	MP-4	Y -037	5
10	MP-4	Y -059	4
11	MP-4	Y -053	4
12	MP-5	Y -032	5
13	MP-5	Y -053	3
14	MP-6	Y -032	5
15	MP-6	Y -06	3
16	MP-6	Y -053	3
17	MP-7	Y -045	5
18	MP-7	Y -071	4
19	MP-7	Y -053	2
20	MP-8	Y -056	5
21	MP-8	Y -053	4
22	MP-8	Y -053	4
23	MP-9	Y -032	5
24	MP-9	Y -053	3
25	MP-10	Y -032	5
26	MP-10	Y -06	3
27	MP-10	Y -053	3
28	MP-11	Y -045	5
29	MP-11	Y -071	4
30	MP-11	Y -053	2
31	MP-12	Y -056	5
32	MP-12	Y -053	4
33	MP-12	Y -053	4
34	MP-13	Y -033	1
35	MP-13	Y -026	1
36	MP-14	Y -033	1
37	MP-15	Y -033	1
38	MP-1	Y -032	4.5
39	MP-2	Y -031	4.5
40	MP-3	Y -038	4.5
41	MP-4	Y -037	4.5



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

Member Label	Direction	Magnitude[(k, k-ft)]	Location(ft, %)
42	MP-5	Y -032	4.5
43	MP-6	Y -032	4.5
44	MP-7	Y -045	4.5
45	MP-8	Y -056	4.5
46	MP-9	Y -032	4.5
47	MP-10	Y -032	4.5
48	MP-11	Y -045	4.5
49	MP-12	Y -056	4.5

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

Member Label	Direction	Magnitude[(k, k-ft)]	Location(ft, %)
1	MP-1	X -132	5
2	MP-1	X -138	3
3	MP-2	X -177	5
4	MP-2	X -047	3
5	MP-2	X -073	3
6	MP-3	X -182	5
7	MP-3	X -087	4
8	MP-3	X -12	2
9	MP-4	X -064	5
10	MP-4	X -073	4
11	MP-4	X -073	4
12	MP-5	X -127	5
13	MP-5	X -077	3
14	MP-6	X -142	5
15	MP-6	X -072	3
16	MP-6	X -109	3
17	MP-7	X -163	5
18	MP-7	X -068	4
19	MP-7	X -085	2
20	MP-8	X -078	5
21	MP-8	X -109	4
22	MP-8	X -109	4
23	MP-9	X -127	5
24	MP-9	X -077	3
25	MP-10	X -142	5
26	MP-10	X -072	3
27	MP-10	X -109	3
28	MP-11	X -163	5
29	MP-11	X -068	4
30	MP-11	X -085	2
31	MP-12	X -078	5
32	MP-12	X -109	4
33	MP-12	X -109	4
34	MP-13	X -04	1
35	MP-13	X -05	1
36	MP-14	X -053	1
37	MP-15	X -053	1
38	MP-1	X -132	4.5
39	MP-2	X -177	4.5
40	MP-3	X -182	4.5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
41	MP-4	X	- .064	4.5
42	MP-5	X	- .127	4.5
43	MP-6	X	- .142	4.5
44	MP-7	X	- .163	4.5
45	MP-8	X	- .078	4.5
46	MP-9	X	- .127	4.5
47	MP-10	X	- .142	4.5
48	MP-11	X	- .163	4.5
49	MP-12	X	- .078	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	- .1	5
2	MP-1	X	- .102	3
3	MP-2	X	- .129	5
4	MP-2	X	- .048	3
5	MP-2	X	- .074	3
6	MP-3	X	- .135	5
7	MP-3	X	- .07	4
8	MP-3	X	- .094	2
9	MP-4	X	- .055	5
10	MP-4	X	- .074	4
11	MP-4	X	- .074	4
12	MP-5	X	- .088	5
13	MP-5	X	- .049	3
14	MP-6	X	- .087	5
15	MP-6	X	- .07	3
16	MP-6	X	- .104	3
17	MP-7	X	- .107	5
18	MP-7	X	- .054	4
19	MP-7	X	- .064	2
20	MP-8	X	- .064	5
21	MP-8	X	- .104	4
22	MP-8	X	- .105	4
23	MP-9	X	- .154	5
24	MP-9	X	- .102	3
25	MP-10	X	- .196	5
26	MP-10	X	- .048	3
27	MP-10	X	- .074	3
28	MP-11	X	- .208	5
29	MP-11	X	- .07	4
30	MP-11	X	- .094	2
31	MP-12	X	- .073	5
32	MP-12	X	- .074	4
33	MP-12	X	- .074	4
34	MP-13	X	- .035	1
35	MP-13	X	- .044	1
36	MP-14	X	- .046	1
37	MP-15	X	- .046	1
38	MP-1	X	- .1	4.5
39	MP-2	X	- .129	4.5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
40	MP-3	X	- .135	4.5
41	MP-4	X	- .055	4.5
42	MP-5	X	- .088	4.5
43	MP-6	X	- .087	4.5
44	MP-7	X	- .107	4.5
45	MP-8	X	- .064	4.5
46	MP-9	X	- .154	4.5
47	MP-10	X	- .196	4.5
48	MP-11	X	- .208	4.5
49	MP-12	X	- .073	4.5
50	MP-1	Z	- .058	5
51	MP-1	Z	- .059	3
52	MP-2	Z	- .075	5
53	MP-2	Z	- .028	3
54	MP-2	Z	- .043	3
55	MP-3	Z	- .078	5
56	MP-3	Z	- .04	4
57	MP-3	Z	- .054	2
58	MP-4	Z	- .031	5
59	MP-4	Z	- .043	4
60	MP-4	Z	- .043	4
61	MP-5	Z	- .051	5
62	MP-5	Z	- .028	3
63	MP-6	Z	- .05	5
64	MP-6	Z	- .041	3
65	MP-6	Z	- .06	3
66	MP-7	Z	- .062	5
67	MP-7	Z	- .031	4
68	MP-7	Z	- .037	2
69	MP-8	Z	- .037	5
70	MP-8	Z	- .06	4
71	MP-8	Z	- .06	4
72	MP-9	Z	- .089	5
73	MP-9	Z	- .059	3
74	MP-10	Z	- .113	5
75	MP-10	Z	- .028	3
76	MP-10	Z	- .043	3
77	MP-11	Z	- .12	5
78	MP-11	Z	- .04	4
79	MP-11	Z	- .054	2
80	MP-12	Z	- .042	5
81	MP-12	Z	- .043	4
82	MP-12	Z	- .043	4
83	MP-13	Z	- .02	1
84	MP-13	Z	- .025	1
85	MP-14	Z	- .027	1
86	MP-15	Z	- .027	1
87	MP-1	Z	- .058	4.5
88	MP-2	Z	- .075	4.5
89	MP-3	Z	- .078	4.5
90	MP-4	Z	- .031	4.5
91	MP-5	Z	- .051	4.5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
92	MP-6	Z	- .05 4.5
93	MP-7	Z	- .062 4.5
94	MP-8	Z	- .037 4.5
95	MP-9	Z	- .089 4.5
96	MP-10	Z	- .113 4.5
97	MP-11	Z	- .12 4.5
98	MP-12	Z	- .042 4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-1	X	- .07 5
2	MP-1	X	- .069 3
3	MP-2	X	- .086 5
4	MP-2	X	- .045 3
5	MP-2	X	- .068 3
6	MP-3	X	- .092 5
7	MP-3	X	- .053 4
8	MP-3	X	- .068 2
9	MP-4	X	- .044 5
10	MP-4	X	- .068 4
11	MP-4	X	- .069 4
12	MP-5	X	- .077 5
13	MP-5	X	- .044 3
14	MP-6	X	- .079 5
15	MP-6	X	- .056 3
16	MP-6	X	- .083 3
17	MP-7	X	- .095 5
18	MP-7	X	- .045 4
19	MP-7	X	- .054 2
20	MP-8	X	- .053 5
21	MP-8	X	- .083 4
22	MP-8	X	- .083 4
23	MP-9	X	- .138 5
24	MP-9	X	- .094 3
25	MP-10	X	- .182 5
26	MP-10	X	- .035 3
27	MP-10	X	- .054 3
28	MP-11	X	- .19 5
29	MP-11	X	- .06 4
30	MP-11	X	- .083 2
31	MP-12	X	- .062 5
32	MP-12	X	- .054 4
33	MP-12	X	- .054 4
34	MP-13	X	- .029 1
35	MP-13	X	- .036 1
36	MP-14	X	- .038 1
37	MP-15	X	- .038 1
38	MP-1	X	- .07 4.5
39	MP-2	X	- .086 4.5
40	MP-3	X	- .092 4.5
41	MP-4	X	- .044 4.5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
42	MP-5	X	- .077 4.5
43	MP-6	X	- .079 4.5
44	MP-7	X	- .095 4.5
45	MP-8	X	- .053 4.5
46	MP-9	X	- .138 4.5
47	MP-10	X	- .182 4.5
48	MP-11	X	- .19 4.5
49	MP-12	X	- .062 4.5
50	MP-1	Z	- .07 5
51	MP-1	Z	- .069 3
52	MP-2	Z	- .086 5
53	MP-2	Z	- .045 3
54	MP-2	Z	- .068 3
55	MP-3	Z	- .092 5
56	MP-3	Z	- .053 4
57	MP-3	Z	- .068 2
58	MP-4	Z	- .044 5
59	MP-4	Z	- .068 4
60	MP-4	Z	- .069 4
61	MP-5	Z	- .077 5
62	MP-5	Z	- .044 3
63	MP-6	Z	- .079 5
64	MP-6	Z	- .056 3
65	MP-6	Z	- .083 3
66	MP-7	Z	- .095 5
67	MP-7	Z	- .045 4
68	MP-7	Z	- .054 2
69	MP-8	Z	- .053 5
70	MP-8	Z	- .083 4
71	MP-8	Z	- .083 4
72	MP-9	Z	- .138 5
73	MP-9	Z	- .094 3
74	MP-10	Z	- .182 5
75	MP-10	Z	- .035 3
76	MP-10	Z	- .054 3
77	MP-11	Z	- .19 5
78	MP-11	Z	- .06 4
79	MP-11	Z	- .083 2
80	MP-12	Z	- .062 5
81	MP-12	Z	- .054 4
82	MP-12	Z	- .054 4
83	MP-13	Z	- .029 1
84	MP-13	Z	- .036 1
85	MP-14	Z	- .038 1
86	MP-15	Z	- .038 1
87	MP-1	Z	- .07 4.5
88	MP-2	Z	- .086 4.5
89	MP-3	Z	- .092 4.5
90	MP-4	Z	- .044 4.5
91	MP-5	Z	- .077 4.5
92	MP-6	Z	- .079 4.5
93	MP-7	Z	- .095 4.5



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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
94	MP-8	Z	- .053 4.5
95	MP-9	Z	- .138 4.5
96	MP-10	Z	- .182 4.5
97	MP-11	Z	- .19 4.5
98	MP-12	Z	- .062 4.5

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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
1	MP-1	X	- .041 5
2	MP-1	X	- .039 3
3	MP-2	X	- .047 5
4	MP-2	X	- .036 3
5	MP-2	X	- .054 3
6	MP-3	X	- .052 5
7	MP-3	X	- .034 4
8	MP-3	X	- .043 2
9	MP-4	X	- .03 5
10	MP-4	X	- .054 4
11	MP-4	X	- .054 4
12	MP-5	X	- .064 5
13	MP-5	X	- .039 3
14	MP-6	X	- .071 5
15	MP-6	X	- .036 3
16	MP-6	X	- .054 3
17	MP-7	X	- .081 5
18	MP-7	X	- .034 4
19	MP-7	X	- .043 2
20	MP-8	X	- .039 5
21	MP-8	X	- .054 4
22	MP-8	X	- .054 4
23	MP-9	X	- .101 5
24	MP-9	X	- .069 3
25	MP-10	X	- .134 5
26	MP-10	X	- .023 3
27	MP-10	X	- .037 3
28	MP-11	X	- .14 5
29	MP-11	X	- .043 4
30	MP-11	X	- .06 2
31	MP-12	X	- .044 5
32	MP-12	X	- .037 4
33	MP-12	X	- .037 4
34	MP-13	X	- .02 1
35	MP-13	X	- .025 1
36	MP-14	X	- .027 1
37	MP-15	X	- .027 1
38	MP-1	X	- .041 4.5
39	MP-2	X	- .047 4.5
40	MP-3	X	- .052 4.5
41	MP-4	X	- .03 4.5
42	MP-5	X	- .064 4.5
43	MP-6	X	- .071 4.5



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

Member Label	Direction	Magnitude[k, k-ft]	Location[ft, %]
44	MP-7	X	- .081 4.5
45	MP-8	X	- .039 4.5
46	MP-9	X	- .101 4.5
47	MP-10	X	- .134 4.5
48	MP-11	X	- .14 4.5
49	MP-12	X	- .044 4.5
50	MP-1	Z	- .072 5
51	MP-1	Z	- .067 3
52	MP-2	Z	- .081 5
53	MP-2	Z	- .063 3
54	MP-2	Z	- .094 3
55	MP-3	Z	- .09 5
56	MP-3	Z	- .059 4
57	MP-3	Z	- .074 2
58	MP-4	Z	- .053 5
59	MP-4	Z	- .094 4
60	MP-4	Z	- .094 4
61	MP-5	Z	- .11 5
62	MP-5	Z	- .067 3
63	MP-6	Z	- .123 5
64	MP-6	Z	- .063 3
65	MP-6	Z	- .094 3
66	MP-7	Z	- .141 5
67	MP-7	Z	- .059 4
68	MP-7	Z	- .074 2
69	MP-8	Z	- .067 5
70	MP-8	Z	- .094 4
71	MP-8	Z	- .094 4
72	MP-9	Z	- .175 5
73	MP-9	Z	- .12 3
74	MP-10	Z	- .233 5
75	MP-10	Z	- .04 3
76	MP-10	Z	- .064 3
77	MP-11	Z	- .242 5
78	MP-11	Z	- .075 4
79	MP-11	Z	- .104 2
80	MP-12	Z	- .076 5
81	MP-12	Z	- .064 4
82	MP-12	Z	- .064 4
83	MP-13	Z	- .035 1
84	MP-13	Z	- .044 1
85	MP-14	Z	- .046 1
86	MP-15	Z	- .046 1
87	MP-1	Z	- .072 4.5
88	MP-2	Z	- .081 4.5
89	MP-3	Z	- .09 4.5
90	MP-4	Z	- .053 4.5
91	MP-5	Z	- .11 4.5
92	MP-6	Z	- .123 4.5
93	MP-7	Z	- .141 4.5
94	MP-8	Z	- .067 4.5
95	MP-9	Z	- .175 4.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]	
96	MP-10	Z	- .233	4.5
97	MP-11	Z	- .242	4.5
98	MP-12	Z	- .076	4.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]	
1	MP-1	Z	- .067	5
2	MP-1	Z	- .057	3
3	MP-2	Z	- .066	5
4	MP-2	Z	- .081	3
5	MP-2	Z	- .12	3
6	MP-3	Z	- .077	5
7	MP-3	Z	- .062	4
8	MP-3	Z	- .073	2
9	MP-4	Z	- .06	5
10	MP-4	Z	- .12	4
11	MP-4	Z	- .121	4
12	MP-5	Z	- .177	5
13	MP-5	Z	- .118	3
14	MP-6	Z	- .227	5
15	MP-6	Z	- .055	3
16	MP-6	Z	- .085	3
17	MP-7	Z	- .241	5
18	MP-7	Z	- .08	4
19	MP-7	Z	- .109	2
20	MP-8	Z	- .085	5
21	MP-8	Z	- .085	4
22	MP-8	Z	- .085	4
23	MP-9	Z	- .177	5
24	MP-9	Z	- .118	3
25	MP-10	Z	- .227	5
26	MP-10	Z	- .055	3
27	MP-10	Z	- .085	3
28	MP-11	Z	- .241	5
29	MP-11	Z	- .109	4
30	MP-11	Z	- .085	2
31	MP-12	Z	- .085	5
32	MP-12	Z	- .085	4
33	MP-12	Z	- .085	4
34	MP-13	Z	- .04	1
35	MP-13	Z	- .05	1
36	MP-14	Z	- .053	1
37	MP-15	Z	- .053	1
38	MP-1	Z	- .067	4.5
39	MP-2	Z	- .066	4.5
40	MP-3	Z	- .077	4.5
41	MP-4	Z	- .06	4.5
42	MP-5	Z	- .177	4.5
43	MP-6	Z	- .227	4.5
44	MP-7	Z	- .241	4.5
45	MP-8	Z	- .085	4.5



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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]	
46	MP-9	Z	- .177	4.5
47	MP-10	Z	- .227	4.5
48	MP-11	Z	- .241	4.5
49	MP-12	Z	- .085	4.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]	
1	MP-1	X	.041	5
2	MP-1	X	.039	3
3	MP-2	X	.047	5
4	MP-2	X	.036	3
5	MP-2	X	.054	3
6	MP-3	X	.052	5
7	MP-3	X	.034	4
8	MP-3	X	.043	2
9	MP-4	X	.03	5
10	MP-4	X	.054	4
11	MP-4	X	.054	4
12	MP-5	X	.101	5
13	MP-5	X	.069	3
14	MP-6	X	.134	5
15	MP-6	X	.023	3
16	MP-6	X	.037	3
17	MP-7	X	.14	5
18	MP-7	X	.043	4
19	MP-7	X	.06	2
20	MP-8	X	.044	5
21	MP-8	X	.037	4
22	MP-8	X	.037	4
23	MP-9	X	.064	5
24	MP-9	X	.039	3
25	MP-10	X	.071	5
26	MP-10	X	.036	3
27	MP-10	X	.054	3
28	MP-11	X	.081	5
29	MP-11	X	.034	4
30	MP-11	X	.043	2
31	MP-12	X	.039	5
32	MP-12	X	.054	4
33	MP-12	X	.054	4
34	MP-13	X	.02	1
35	MP-13	X	.025	1
36	MP-14	X	.027	1
37	MP-15	X	.027	1
38	MP-1	X	.041	4.5
39	MP-2	X	.047	4.5
40	MP-3	X	.052	4.5
41	MP-4	X	.03	4.5
42	MP-5	X	.101	4.5
43	MP-6	X	.134	4.5
44	MP-7	X	.14	4.5



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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
45	MP-8	X	.044	4.5
46	MP-9	X	.064	4.5
47	MP-10	X	.071	4.5
48	MP-11	X	.081	4.5
49	MP-12	X	.039	4.5
50	MP-1	Z	-.072	5
51	MP-1	Z	-.067	3
52	MP-2	Z	-.081	5
53	MP-2	Z	-.063	3
54	MP-2	Z	-.094	3
55	MP-3	Z	-.09	5
56	MP-3	Z	-.059	4
57	MP-3	Z	-.074	2
58	MP-4	Z	-.053	5
59	MP-4	Z	-.094	4
60	MP-4	Z	-.094	4
61	MP-5	Z	-.175	5
62	MP-5	Z	-.12	3
63	MP-6	Z	-.233	.5
64	MP-6	Z	-.04	3
65	MP-6	Z	-.064	3
66	MP-7	Z	-.242	5
67	MP-7	Z	-.075	4
68	MP-7	Z	-.104	2
69	MP-8	Z	-.076	5
70	MP-8	Z	-.064	4
71	MP-8	Z	-.064	4
72	MP-9	Z	-.11	5
73	MP-9	Z	-.067	3
74	MP-10	Z	-.123	5
75	MP-10	Z	-.063	3
76	MP-10	Z	-.094	3
77	MP-11	Z	-.141	5
78	MP-11	Z	-.059	4
79	MP-11	Z	-.074	2
80	MP-12	Z	-.067	5
81	MP-12	Z	-.094	4
82	MP-12	Z	-.094	4
83	MP-13	Z	-.035	1
84	MP-13	Z	-.044	1
85	MP-14	Z	-.046	1
86	MP-15	Z	-.046	1
87	MP-1	Z	-.072	4.5
88	MP-2	Z	-.081	4.5
89	MP-3	Z	-.09	4.5
90	MP-4	Z	-.053	4.5
91	MP-5	Z	-.175	4.5
92	MP-6	Z	-.233	4.5
93	MP-7	Z	-.242	4.5
94	MP-8	Z	-.076	4.5
95	MP-9	Z	-.11	4.5
96	MP-10	Z	-.123	4.5



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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
97	MP-11	Z	-.141	4.5
98	MP-12	Z	-.067	4.5

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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)	
1	MP-1	X	.07	5
2	MP-1	X	.069	3
3	MP-2	X	.086	5
4	MP-2	X	.045	3
5	MP-2	X	.068	3
6	MP-3	X	.092	5
7	MP-3	X	.053	4
8	MP-3	X	.068	2
9	MP-4	X	.044	5
10	MP-4	X	.068	4
11	MP-4	X	.069	4
12	MP-5	X	.138	5
13	MP-5	X	.094	3
14	MP-6	X	.182	5
15	MP-6	X	.035	3
16	MP-6	X	.054	3
17	MP-7	X	.19	5
18	MP-7	X	.06	4
19	MP-7	X	.083	2
20	MP-8	X	.062	5
21	MP-8	X	.054	4
22	MP-8	X	.054	4
23	MP-9	X	.077	5
24	MP-9	X	.044	3
25	MP-10	X	.079	5
26	MP-10	X	.056	3
27	MP-10	X	.083	3
28	MP-11	X	.095	5
29	MP-11	X	.045	4
30	MP-11	X	.054	2
31	MP-12	X	.053	.5
32	MP-12	X	.083	4
33	MP-12	X	.083	4
34	MP-13	X	.029	1
35	MP-13	X	.036	1
36	MP-14	X	.038	1
37	MP-15	X	.038	1
38	MP-1	X	.07	4.5
39	MP-2	X	.086	4.5
40	MP-3	X	.092	4.5
41	MP-4	X	.044	4.5
42	MP-5	X	.138	4.5
43	MP-6	X	.182	4.5
44	MP-7	X	.19	4.5
45	MP-8	X	.062	4.5
46	MP-9	X	.077	4.5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
47	MP-10	X .079	4.5
48	MP-11	X .095	4.5
49	MP-12	X .053	4.5
50	MP-1	Z -.07	5
51	MP-1	Z -.069	3
52	MP-2	Z -.086	5
53	MP-2	Z -.045	3
54	MP-2	Z -.068	3
55	MP-3	Z -.092	5
56	MP-3	Z -.053	4
57	MP-3	Z -.068	2
58	MP-4	Z -.044	5
59	MP-4	Z -.068	4
60	MP-4	Z -.069	4
61	MP-5	Z -.138	5
62	MP-5	Z -.094	3
63	MP-6	Z -.182	5
64	MP-6	Z -.035	3
65	MP-6	Z -.054	3
66	MP-7	Z -.19	5
67	MP-7	Z -.06	4
68	MP-7	Z -.083	2
69	MP-8	Z -.062	5
70	MP-8	Z -.054	4
71	MP-8	Z -.054	4
72	MP-9	Z -.077	5
73	MP-9	Z -.044	3
74	MP-10	Z -.079	5
75	MP-10	Z -.056	3
76	MP-10	Z -.083	3
77	MP-11	Z -.095	5
78	MP-11	Z -.045	4
79	MP-11	Z -.054	2
80	MP-12	Z -.053	5
81	MP-12	Z -.083	4
82	MP-12	Z -.083	4
83	MP-13	Z -.029	1
84	MP-13	Z -.036	1
85	MP-14	Z -.038	1
86	MP-15	Z -.038	1
87	MP-1	Z -.07	4.5
88	MP-2	Z -.086	4.5
89	MP-3	Z -.092	4.5
90	MP-4	Z -.044	4.5
91	MP-5	Z -.138	4.5
92	MP-6	Z -.182	4.5
93	MP-7	Z -.19	4.5
94	MP-8	Z -.062	4.5
95	MP-9	Z -.077	4.5
96	MP-10	Z -.079	4.5
97	MP-11	Z -.095	4.5
98	MP-12	Z -.053	4.5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-1	X .1	5
2	MP-1	X .102	3
3	MP-2	X .129	5
4	MP-2	X .048	3
5	MP-2	X .074	3
6	MP-3	X .135	5
7	MP-3	X .07	4
8	MP-3	X .094	2
9	MP-4	X .055	5
10	MP-4	X .074	4
11	MP-4	X .074	4
12	MP-5	X .154	5
13	MP-5	X .102	3
14	MP-6	X .196	5
15	MP-6	X .048	3
16	MP-6	X .074	3
17	MP-7	X .208	5
18	MP-7	X .07	4
19	MP-7	X .094	2
20	MP-8	X .073	5
21	MP-8	X .074	4
22	MP-8	X .074	4
23	MP-9	X .088	5
24	MP-9	X .049	3
25	MP-10	X .087	5
26	MP-10	X .07	3
27	MP-10	X .104	3
28	MP-11	X .107	5
29	MP-11	X .054	4
30	MP-11	X .064	2
31	MP-12	X .064	5
32	MP-12	X .104	4
33	MP-12	X .105	4
34	MP-13	X .035	1
35	MP-13	X .044	1
36	MP-14	X .046	1
37	MP-15	X .046	1
38	MP-1	X .1	4.5
39	MP-2	X .129	4.5
40	MP-3	X .135	4.5
41	MP-4	X .055	4.5
42	MP-5	X .154	4.5
43	MP-6	X .196	4.5
44	MP-7	X .208	4.5
45	MP-8	X .073	4.5
46	MP-9	X .088	4.5
47	MP-10	X .087	4.5
48	MP-11	X .107	4.5
49	MP-12	X .064	4.5
50	MP-1	Z -.058	5
51	MP-1	Z -.059	3
52	MP-2	Z -.075	5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
53	MP-2	Z	- .028 3
54	MP-2	Z	- .043 3
55	MP-3	Z	- .078 5
56	MP-3	Z	- .04 4
57	MP-3	Z	- .054 2
58	MP-4	Z	- .031 5
59	MP-4	Z	- .043 4
60	MP-4	Z	- .043 4
61	MP-5	Z	- .089 5
62	MP-5	Z	- .059 3
63	MP-6	Z	- .113 5
64	MP-6	Z	- .028 3
65	MP-6	Z	- .043 3
66	MP-7	Z	- .12 5
67	MP-7	Z	- .04 4
68	MP-7	Z	- .054 2
69	MP-8	Z	- .042 5
70	MP-8	Z	- .043 4
71	MP-8	Z	- .043 4
72	MP-9	Z	- .051 5
73	MP-9	Z	- .028 3
74	MP-10	Z	- .05 5
75	MP-10	Z	- .041 3
76	MP-10	Z	- .06 3
77	MP-11	Z	- .062 5
78	MP-11	Z	- .031 4
79	MP-11	Z	- .037 2
80	MP-12	Z	- .037 5
81	MP-12	Z	- .06 4
82	MP-12	Z	- .06 4
83	MP-13	Z	- .02 1
84	MP-13	Z	- .025 1
85	MP-14	Z	- .027 1
86	MP-15	Z	- .027 1
87	MP-1	Z	- .058 4.5
88	MP-2	Z	- .075 4.5
89	MP-3	Z	- .078 4.5
90	MP-4	Z	- .031 4.5
91	MP-5	Z	- .089 4.5
92	MP-6	Z	- .113 4.5
93	MP-7	Z	- .12 4.5
94	MP-8	Z	- .042 4.5
95	MP-9	Z	- .051 4.5
96	MP-10	Z	- .05 4.5
97	MP-11	Z	- .062 4.5
98	MP-12	Z	- .037 4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-1	X	.132 5
2	MP-1	X	.138 3



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
3	MP-2	X	.177 5
4	MP-2	X	.047 3
5	MP-2	X	.073 3
6	MP-3	X	.182 5
7	MP-3	X	.087 4
8	MP-3	X	.12 2
9	MP-4	X	.064 5
10	MP-4	X	.073 4
11	MP-4	X	.073 4
12	MP-5	X	.127 5
13	MP-5	X	.077 3
14	MP-6	X	.142 5
15	MP-6	X	.072 3
16	MP-6	X	.109 3
17	MP-7	X	.163 5
18	MP-7	X	.068 4
19	MP-7	X	.085 2
20	MP-8	X	.078 5
21	MP-8	X	.109 4
22	MP-8	X	.109 4
23	MP-9	X	.127 5
24	MP-9	X	.077 3
25	MP-10	X	.142 5
26	MP-10	X	.072 3
27	MP-10	X	.109 3
28	MP-11	X	.163 5
29	MP-11	X	.068 4
30	MP-11	X	.085 2
31	MP-12	X	.078 5
32	MP-12	X	.109 4
33	MP-12	X	.109 4
34	MP-13	X	.04 1
35	MP-13	X	.05 1
36	MP-14	X	.053 1
37	MP-15	X	.053 1
38	MP-1	X	.132 4.5
39	MP-2	X	.177 4.5
40	MP-3	X	.182 4.5
41	MP-4	X	.064 4.5
42	MP-5	X	.127 4.5
43	MP-6	X	.142 4.5
44	MP-7	X	.163 4.5
45	MP-8	X	.078 4.5
46	MP-9	X	.127 4.5
47	MP-10	X	.142 4.5
48	MP-11	X	.163 4.5
49	MP-12	X	.078 4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-1	X	.1 5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
2	MP-1	X	.102	3
3	MP-2	X	.129	5
4	MP-2	X	.048	3
5	MP-2	X	.074	3
6	MP-3	X	.135	5
7	MP-3	X	.07	4
8	MP-3	X	.094	2
9	MP-4	X	.055	5
10	MP-4	X	.074	4
11	MP-4	X	.074	4
12	MP-5	X	.088	5
13	MP-5	X	.049	3
14	MP-6	X	.087	5
15	MP-6	X	.07	3
16	MP-6	X	.104	3
17	MP-7	X	.107	5
18	MP-7	X	.054	4
19	MP-7	X	.064	2
20	MP-8	X	.064	5
21	MP-8	X	.104	4
22	MP-8	X	.105	4
23	MP-9	X	.154	5
24	MP-9	X	.102	3
25	MP-10	X	.196	5
26	MP-10	X	.048	3
27	MP-10	X	.074	3
28	MP-11	X	.208	5
29	MP-11	X	.07	4
30	MP-11	X	.094	2
31	MP-12	X	.073	5
32	MP-12	X	.074	4
33	MP-12	X	.074	4
34	MP-13	X	.035	1
35	MP-13	X	.044	1
36	MP-14	X	.046	1
37	MP-15	X	.046	1
38	MP-1	X	.1	4.5
39	MP-2	X	.129	4.5
40	MP-3	X	.135	4.5
41	MP-4	X	.055	4.5
42	MP-5	X	.088	4.5
43	MP-6	X	.087	4.5
44	MP-7	X	.107	4.5
45	MP-8	X	.064	4.5
46	MP-9	X	.154	4.5
47	MP-10	X	.196	4.5
48	MP-11	X	.208	4.5
49	MP-12	X	.073	4.5
50	MP-1	Z	.058	5
51	MP-1	Z	.059	3
52	MP-2	Z	.075	5
53	MP-2	Z	.028	3



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
54	MP-2	Z	.043	3
55	MP-3	Z	.078	5
56	MP-3	Z	.04	4
57	MP-3	Z	.054	2
58	MP-4	Z	.031	5
59	MP-4	Z	.043	4
60	MP-4	Z	.043	4
61	MP-5	Z	.051	5
62	MP-5	Z	.028	3
63	MP-6	Z	.05	5
64	MP-6	Z	.041	3
65	MP-6	Z	.06	3
66	MP-7	Z	.062	5
67	MP-7	Z	.031	4
68	MP-7	Z	.037	2
69	MP-8	Z	.037	5
70	MP-8	Z	.06	4
71	MP-8	Z	.06	4
72	MP-9	Z	.089	5
73	MP-9	Z	.059	3
74	MP-10	Z	.113	5
75	MP-10	Z	.028	3
76	MP-10	Z	.043	3
77	MP-11	Z	.12	5
78	MP-11	Z	.04	4
79	MP-11	Z	.054	2
80	MP-12	Z	.042	5
81	MP-12	Z	.043	4
82	MP-12	Z	.043	4
83	MP-13	Z	.02	1
84	MP-13	Z	.025	1
85	MP-14	Z	.027	1
86	MP-15	Z	.027	1
87	MP-1	Z	.058	4.5
88	MP-2	Z	.075	4.5
89	MP-3	Z	.078	4.5
90	MP-4	Z	.031	4.5
91	MP-5	Z	.051	4.5
92	MP-6	Z	.05	4.5
93	MP-7	Z	.062	4.5
94	MP-8	Z	.037	4.5
95	MP-9	Z	.089	4.5
96	MP-10	Z	.113	4.5
97	MP-11	Z	.12	4.5
98	MP-12	Z	.042	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	.07	5
2	MP-1	X	.069	3
3	MP-2	X	.086	5



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 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Magnitude(ft. k-ft)	Location(ft. %)	
4	MP-2	X	.045	3
5	MP-2	X	.068	3
6	MP-3	X	.092	5
7	MP-3	X	.053	4
8	MP-3	X	.068	2
9	MP-4	X	.044	5
10	MP-4	X	.068	4
11	MP-4	X	.069	4
12	MP-5	X	.077	5
13	MP-5	X	.044	3
14	MP-6	X	.079	5
15	MP-6	X	.056	3
16	MP-6	X	.083	3
17	MP-7	X	.095	5
18	MP-7	X	.045	4
19	MP-7	X	.054	2
20	MP-8	X	.053	5
21	MP-8	X	.083	4
22	MP-8	X	.083	4
23	MP-9	X	.138	5
24	MP-9	X	.094	3
25	MP-10	X	.182	5
26	MP-10	X	.035	3
27	MP-10	X	.054	3
28	MP-11	X	.19	5
29	MP-11	X	.06	4
30	MP-11	X	.083	2
31	MP-12	X	.062	5
32	MP-12	X	.054	4
33	MP-12	X	.054	4
34	MP-13	X	.029	1
35	MP-13	X	.036	1
36	MP-14	X	.038	1
37	MP-15	X	.038	1
38	MP-1	Z	.07	4.5
39	MP-2	Z	.086	4.5
40	MP-3	Z	.092	4.5
41	MP-4	Z	.044	4.5
42	MP-5	Z	.077	4.5
43	MP-6	Z	.079	4.5
44	MP-7	Z	.095	4.5
45	MP-8	Z	.053	4.5
46	MP-9	Z	.138	4.5
47	MP-10	Z	.182	4.5
48	MP-11	Z	.19	4.5
49	MP-12	Z	.062	4.5
50	MP-1	Z	.07	5
51	MP-1	Z	.069	3
52	MP-2	Z	.086	5
53	MP-2	Z	.045	3
54	MP-2	Z	.068	3
55	MP-3	Z	.092	5



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

Member Label	Direction	Magnitude(ft. k-ft)	Location(ft. %)	
56	MP-3	Z	.053	4
57	MP-3	Z	.068	2
58	MP-4	Z	.044	5
59	MP-4	Z	.068	4
60	MP-4	Z	.069	4
61	MP-5	Z	.077	5
62	MP-5	Z	.044	3
63	MP-6	Z	.079	5
64	MP-6	Z	.056	3
65	MP-6	Z	.083	3
66	MP-7	Z	.095	5
67	MP-7	Z	.045	4
68	MP-7	Z	.054	2
69	MP-8	Z	.053	5
70	MP-8	Z	.083	4
71	MP-8	Z	.083	4
72	MP-8	Z	.138	5
73	MP-9	Z	.094	3
74	MP-10	Z	.182	5
75	MP-10	Z	.035	3
76	MP-10	Z	.054	3
77	MP-11	Z	.19	5
78	MP-11	Z	.06	4
79	MP-11	Z	.083	2
80	MP-12	Z	.062	5
81	MP-12	Z	.054	4
82	MP-12	Z	.054	4
83	MP-13	Z	.029	1
84	MP-13	Z	.036	1
85	MP-14	Z	.038	1
86	MP-15	Z	.038	1
87	MP-1	Z	.07	4.5
88	MP-2	Z	.086	4.5
89	MP-3	Z	.092	4.5
90	MP-4	Z	.044	4.5
91	MP-5	Z	.077	4.5
92	MP-6	Z	.079	4.5
93	MP-7	Z	.095	4.5
94	MP-8	Z	.053	4.5
95	MP-9	Z	.138	4.5
96	MP-10	Z	.182	4.5
97	MP-11	Z	.19	4.5
98	MP-12	Z	.062	4.5

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

Member Label	Direction	Magnitude(ft. k-ft)	Location(ft. %)	
1	MP-1	X	.041	5
2	MP-1	X	.039	3
3	MP-2	X	.047	5
4	MP-2	X	.036	3
5	MP-2	X	.054	3



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
6	MP-3	X	.02	5
7	MP-3	X	.034	4
8	MP-3	X	.043	2
9	MP-4	X	.03	5
10	MP-4	X	.054	4
11	MP-4	X	.054	4
12	MP-5	X	.064	5
13	MP-5	X	.039	3
14	MP-6	X	.071	5
15	MP-6	X	.036	3
16	MP-6	X	.054	3
17	MP-7	X	.081	5
18	MP-7	X	.034	4
19	MP-7	X	.043	2
20	MP-8	X	.039	5
21	MP-8	X	.054	4
22	MP-8	X	.054	4
23	MP-9	X	.101	5
24	MP-9	X	.089	3
25	MP-10	X	.134	5
26	MP-10	X	.023	3
27	MP-10	X	.037	3
28	MP-11	X	.14	5
29	MP-11	X	.043	4
30	MP-11	X	.06	2
31	MP-12	X	.044	5
32	MP-12	X	.037	4
33	MP-12	X	.037	4
34	MP-13	X	.02	1
35	MP-13	X	.025	1
36	MP-14	X	.027	1
37	MP-15	X	.027	1
38	MP-1	X	.041	4.5
39	MP-2	X	.047	4.5
40	MP-3	X	.052	4.5
41	MP-4	X	.03	4.5
42	MP-5	X	.064	4.5
43	MP-6	X	.071	4.5
44	MP-7	X	.081	4.5
45	MP-8	X	.039	4.5
46	MP-9	X	.101	4.5
47	MP-10	X	.134	4.5
48	MP-11	X	.14	4.5
49	MP-12	X	.044	4.5
50	MP-1	Z	.072	5
51	MP-1	Z	.067	3
52	MP-2	Z	.081	5
53	MP-2	Z	.063	3
54	MP-2	Z	.094	3
55	MP-3	Z	.09	5
56	MP-3	Z	.059	4
57	MP-3	Z	.074	2



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
58	MP-4	Z	.053	5
59	MP-4	Z	.094	4
60	MP-4	Z	.094	4
61	MP-5	Z	.11	5
62	MP-5	Z	.067	3
63	MP-6	Z	.123	5
64	MP-6	Z	.063	3
65	MP-6	Z	.094	3
66	MP-7	Z	.141	5
67	MP-7	Z	.059	4
68	MP-7	Z	.074	2
69	MP-8	Z	.067	5
70	MP-8	Z	.094	4
71	MP-8	Z	.094	4
72	MP-9	Z	.175	5
73	MP-9	Z	.12	3
74	MP-10	Z	.233	5
75	MP-10	Z	.04	3
76	MP-10	Z	.064	3
77	MP-11	Z	.242	5
78	MP-11	Z	.075	4
79	MP-11	Z	.104	2
80	MP-12	Z	.076	5
81	MP-12	Z	.064	4
82	MP-12	Z	.064	4
83	MP-13	Z	.035	1
84	MP-13	Z	.044	1
85	MP-14	Z	.046	1
86	MP-15	Z	.046	1
87	MP-1	Z	.072	4.5
88	MP-2	Z	.081	4.5
89	MP-3	Z	.09	4.5
90	MP-4	Z	.053	4.5
91	MP-5	Z	.11	4.5
92	MP-6	Z	.123	4.5
93	MP-7	Z	.141	4.5
94	MP-8	Z	.067	4.5
95	MP-9	Z	.175	4.5
96	MP-10	Z	.233	4.5
97	MP-11	Z	.242	4.5
98	MP-12	Z	.076	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	Z	.067	5
2	MP-1	Z	.057	3
3	MP-2	Z	.066	5
4	MP-2	Z	.081	3
5	MP-2	Z	.12	3
6	MP-3	Z	.077	5
7	MP-3	Z	.062	4



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
8	MP-3	Z	.073	2
9	MP-4	Z	.06	5
10	MP-4	Z	.12	4
11	MP-4	Z	.121	4
12	MP-5	Z	.177	5
13	MP-5	Z	.118	3
14	MP-6	Z	.227	5
15	MP-6	Z	.055	3
16	MP-6	Z	.085	3
17	MP-7	Z	.241	5
18	MP-7	Z	.08	4
19	MP-7	Z	.109	2
20	MP-8	Z	.085	5
21	MP-8	Z	.085	4
22	MP-8	Z	.085	4
23	MP-9	Z	.177	5
24	MP-9	Z	.118	3
25	MP-10	Z	.227	5
26	MP-10	Z	.055	3
27	MP-10	Z	.085	3
28	MP-11	Z	.241	5
29	MP-11	Z	.08	4
30	MP-11	Z	.109	2
31	MP-12	Z	.085	5
32	MP-12	Z	.085	4
33	MP-12	Z	.085	4
34	MP-13	Z	.04	1
35	MP-13	Z	.05	1
36	MP-14	Z	.053	1
37	MP-15	Z	.053	1
38	MP-1	Z	.067	4.5
39	MP-2	Z	.066	4.5
40	MP-3	Z	.077	4.5
41	MP-4	Z	.06	4.5
42	MP-5	Z	.177	4.5
43	MP-6	Z	.227	4.5
44	MP-7	Z	.241	4.5
45	MP-8	Z	.085	4.5
46	MP-9	Z	.177	4.5
47	MP-10	Z	.227	4.5
48	MP-11	Z	.241	4.5
49	MP-12	Z	.085	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	-.041	5
2	MP-1	X	-.039	3
3	MP-2	X	-.047	5
4	MP-2	X	-.036	3
5	MP-2	X	-.054	3
6	MP-3	X	-.052	5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
7	MP-3	X	-.034	4
8	MP-3	X	-.043	2
9	MP-4	X	-.03	5
10	MP-4	X	-.054	4
11	MP-4	X	-.054	4
12	MP-5	X	-.101	5
13	MP-5	X	-.069	3
14	MP-6	X	-.134	5
15	MP-6	X	-.023	3
16	MP-6	X	-.037	3
17	MP-7	X	-.14	5
18	MP-7	X	-.043	4
19	MP-7	X	-.06	2
20	MP-8	X	-.044	5
21	MP-8	X	-.037	4
22	MP-8	X	-.037	4
23	MP-9	X	-.064	5
24	MP-9	X	-.039	3
25	MP-10	X	-.071	5
26	MP-10	X	-.036	3
27	MP-10	X	-.054	3
28	MP-11	X	-.081	5
29	MP-11	X	-.034	4
30	MP-11	X	-.043	2
31	MP-12	X	-.039	5
32	MP-12	X	-.054	4
33	MP-12	X	-.054	4
34	MP-13	X	-.02	1
35	MP-13	X	-.025	1
36	MP-14	X	-.027	1
37	MP-15	X	-.027	1
38	MP-1	X	-.041	4.5
39	MP-2	X	-.047	4.5
40	MP-3	X	-.052	4.5
41	MP-4	X	-.03	4.5
42	MP-5	X	-.101	4.5
43	MP-6	X	-.134	4.5
44	MP-7	X	-.14	4.5
45	MP-8	X	-.044	4.5
46	MP-9	X	-.064	4.5
47	MP-10	X	-.071	4.5
48	MP-11	X	-.081	4.5
49	MP-12	X	-.039	4.5
50	MP-1	Z	.072	5
51	MP-1	Z	.067	3
52	MP-2	Z	.081	5
53	MP-2	Z	.063	3
54	MP-2	Z	.094	3
55	MP-3	Z	.09	5
56	MP-3	Z	.059	4
57	MP-3	Z	.074	2
58	MP-4	Z	.053	5



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
59	MP-4	Z	.094	4
60	MP-4	Z	.094	4
61	MP-5	Z	.175	5
62	MP-5	Z	.12	3
63	MP-6	Z	.233	5
64	MP-6	Z	.04	3
65	MP-6	Z	.064	3
66	MP-7	Z	.242	5
67	MP-7	Z	.075	4
68	MP-7	Z	.104	2
69	MP-8	Z	.076	5
70	MP-8	Z	.064	4
71	MP-8	Z	.064	4
72	MP-9	Z	.11	5
73	MP-9	Z	.067	3
74	MP-10	Z	.123	5
75	MP-10	Z	.063	3
76	MP-10	Z	.094	3
77	MP-11	Z	.141	5
78	MP-11	Z	.059	4
79	MP-11	Z	.074	2
80	MP-12	Z	.067	5
81	MP-12	Z	.094	4
82	MP-12	Z	.094	4
83	MP-13	Z	.035	1
84	MP-13	Z	.044	1
85	MP-14	Z	.046	1
86	MP-15	Z	.046	1
87	MP-1	Z	.072	4.5
88	MP-2	Z	.081	4.5
89	MP-3	Z	.09	4.5
90	MP-4	Z	.053	4.5
91	MP-5	Z	.175	4.5
92	MP-6	Z	.233	4.5
93	MP-7	Z	.242	4.5
94	MP-8	Z	.076	4.5
95	MP-9	Z	.11	4.5
96	MP-10	Z	.123	4.5
97	MP-11	Z	.141	4.5
98	MP-12	Z	.067	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
1	MP-1	X	-.07	5
2	MP-1	X	-.069	3
3	MP-2	X	-.086	5
4	MP-2	X	-.045	3
5	MP-2	X	-.068	3
6	MP-3	X	-.092	5
7	MP-3	X	-.053	4
8	MP-3	X	-.068	2



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
9	MP-4	X	-.044	5
10	MP-4	X	-.068	4
11	MP-4	X	-.069	4
12	MP-5	X	-.138	5
13	MP-5	X	-.094	3
14	MP-6	X	-.182	5
15	MP-6	X	-.035	3
16	MP-6	X	-.054	3
17	MP-7	X	-.19	5
18	MP-7	X	-.06	4
19	MP-7	X	-.083	2
20	MP-8	X	-.062	5
21	MP-8	X	-.054	4
22	MP-8	X	-.054	4
23	MP-9	X	-.077	5
24	MP-9	X	-.044	3
25	MP-10	X	-.079	5
26	MP-10	X	-.056	3
27	MP-10	X	-.083	3
28	MP-11	X	-.085	5
29	MP-11	X	-.045	4
30	MP-11	X	-.054	2
31	MP-12	X	-.053	5
32	MP-12	X	-.083	4
33	MP-12	X	-.083	4
34	MP-13	X	-.029	1
35	MP-13	X	-.036	1
36	MP-14	X	-.038	1
37	MP-15	X	-.038	1
38	MP-1	X	-.07	4.5
39	MP-2	X	-.086	4.5
40	MP-3	X	-.092	4.5
41	MP-4	X	-.044	4.5
42	MP-5	X	-.138	4.5
43	MP-6	X	-.182	4.5
44	MP-7	X	-.19	4.5
45	MP-8	X	-.062	4.5
46	MP-9	X	-.077	4.5
47	MP-10	X	-.079	4.5
48	MP-11	X	-.095	4.5
49	MP-12	X	-.053	4.5
50	MP-1	Z	.07	5
51	MP-1	Z	.069	3
52	MP-2	Z	.086	5
53	MP-2	Z	.045	3
54	MP-2	Z	.068	3
55	MP-3	Z	.092	5
56	MP-3	Z	.053	4
57	MP-3	Z	.068	2
58	MP-4	Z	.044	5
59	MP-4	Z	.068	4
60	MP-4	Z	.069	4



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
61	MP-5	Z	.138	5
62	MP-5	Z	.094	3
63	MP-6	Z	.182	5
64	MP-6	Z	.035	3
65	MP-6	Z	.054	3
66	MP-7	Z	.19	5
67	MP-7	Z	.06	4
68	MP-7	Z	.083	2
69	MP-8	Z	.062	5
70	MP-8	Z	.054	4
71	MP-8	Z	.054	4
72	MP-9	Z	.077	5
73	MP-9	Z	.044	3
74	MP-10	Z	.079	5
75	MP-10	Z	.056	3
76	MP-10	Z	.083	3
77	MP-11	Z	.095	5
78	MP-11	Z	.045	4
79	MP-11	Z	.054	2
80	MP-12	Z	.053	5
81	MP-12	Z	.083	4
82	MP-12	Z	.083	4
83	MP-13	Z	.029	1
84	MP-13	Z	.036	1
85	MP-14	Z	.038	1
86	MP-15	Z	.038	1
87	MP-1	Z	.07	4.5
88	MP-2	Z	.086	4.5
89	MP-3	Z	.092	4.5
90	MP-4	Z	.044	4.5
91	MP-5	Z	.138	4.5
92	MP-6	Z	.182	4.5
93	MP-7	Z	.19	4.5
94	MP-8	Z	.062	4.5
95	MP-9	Z	.077	4.5
96	MP-10	Z	.079	4.5
97	MP-11	Z	.095	4.5
98	MP-12	Z	.053	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-1	X	-.1	5
2	MP-1	X	-.102	3
3	MP-2	X	-.129	5
4	MP-2	X	-.048	3
5	MP-2	X	-.074	3
6	MP-3	X	-.135	5
7	MP-3	X	-.07	4
8	MP-3	X	-.094	2
9	MP-4	X	-.055	5
10	MP-4	X	-.074	4



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.%)	
11	MP-4	X	-.074	4
12	MP-5	X	-.154	5
13	MP-5	X	-.102	3
14	MP-6	X	-.196	5
15	MP-6	X	-.048	3
16	MP-6	X	-.074	3
17	MP-7	X	-.208	5
18	MP-7	X	-.07	4
19	MP-7	X	-.094	2
20	MP-8	X	-.073	5
21	MP-8	X	-.074	4
22	MP-8	X	-.074	4
23	MP-9	X	-.088	5
24	MP-9	X	-.049	3
25	MP-10	X	-.087	5
26	MP-10	X	-.07	3
27	MP-10	X	-.104	3
28	MP-11	X	-.107	5
29	MP-11	X	-.054	4
30	MP-11	X	-.064	2
31	MP-12	X	-.064	5
32	MP-12	X	-.104	4
33	MP-12	X	-.105	4
34	MP-13	X	-.035	1
35	MP-13	X	-.044	1
36	MP-14	X	-.046	1
37	MP-15	X	-.046	1
38	MP-1	X	-.1	4.5
39	MP-2	X	-.129	4.5
40	MP-3	X	-.135	4.5
41	MP-4	X	-.055	4.5
42	MP-5	X	-.154	4.5
43	MP-6	X	-.196	4.5
44	MP-7	X	-.208	4.5
45	MP-8	X	-.073	4.5
46	MP-9	X	-.088	4.5
47	MP-10	X	-.087	4.5
48	MP-11	X	-.107	4.5
49	MP-12	X	-.064	4.5
50	MP-1	Z	.058	5
51	MP-1	Z	.059	3
52	MP-2	Z	.075	5
53	MP-2	Z	.028	3
54	MP-2	Z	.043	3
55	MP-3	Z	.078	5
56	MP-3	Z	.04	4
57	MP-3	Z	.054	2
58	MP-4	Z	.031	5
59	MP-4	Z	.043	4
60	MP-4	Z	.043	4
61	MP-5	Z	.089	5
62	MP-5	Z	.059	3



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
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Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]	
63	MP-6	Z	.113	5
64	MP-6	Z	.028	3
65	MP-6	Z	.043	3
66	MP-7	Z	.12	5
67	MP-7	Z	.04	4
68	MP-7	Z	.054	2
69	MP-8	Z	.042	5
70	MP-8	Z	.043	4
71	MP-8	Z	.043	4
72	MP-9	Z	.051	5
73	MP-9	Z	.028	3
74	MP-10	Z	.05	5
75	MP-10	Z	.041	3
76	MP-10	Z	.06	3
77	MP-11	Z	.062	5
78	MP-11	Z	.031	4
79	MP-11	Z	.037	2
80	MP-12	Z	.037	5
81	MP-12	Z	.06	4
82	MP-12	Z	.06	4
83	MP-13	Z	.02	1
84	MP-13	Z	.025	1
85	MP-14	Z	.027	1
86	MP-15	Z	.027	1
87	MP-1	Z	.058	4.5
88	MP-2	Z	.075	4.5
89	MP-3	Z	.078	4.5
90	MP-4	Z	.031	4.5
91	MP-5	Z	.089	4.5
92	MP-6	Z	.113	4.5
93	MP-7	Z	.12	4.5
94	MP-8	Z	.042	4.5
95	MP-9	Z	.051	4.5
96	MP-10	Z	.05	4.5
97	MP-11	Z	.062	4.5
98	MP-12	Z	.037	4.5

Member Point Loads (BLC 18 : Ice Weight)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]	
1	MP-1	Y	-.082	5
2	MP-1	Y	-.088	3
3	MP-2	Y	-.106	5
4	MP-2	Y	-.069	3
5	MP-2	Y	-.09	3
6	MP-3	Y	-.105	5
7	MP-3	Y	-.08	4
8	MP-3	Y	-.09	2
9	MP-4	Y	-.092	5
10	MP-4	Y	-.09	4
11	MP-4	Y	-.091	4
12	MP-5	Y	-.119	5



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 Job Number : TEP No. 25666.406159
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Member Point Loads (BLC 18 : Ice Weight) (Continued)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]	
13	MP-5	Y	-.098	3
14	MP-6	Y	-.15	5
15	MP-6	Y	-.069	3
16	MP-6	Y	-.09	3
17	MP-7	Y	-.148	5
18	MP-7	Y	-.08	4
19	MP-7	Y	-.09	2
20	MP-8	Y	-.117	5
21	MP-8	Y	-.09	4
22	MP-8	Y	-.091	4
23	MP-9	Y	-.119	5
24	MP-9	Y	-.098	3
25	MP-10	Y	-.15	5
26	MP-10	Y	-.069	3
27	MP-10	Y	-.09	3
28	MP-11	Y	-.148	5
29	MP-11	Y	-.08	4
30	MP-11	Y	-.09	2
31	MP-12	Y	-.117	5
32	MP-12	Y	-.09	4
33	MP-12	Y	-.091	4
34	MP-13	Y	-.064	1
35	MP-13	Y	-.076	1
36	MP-14	Y	-.081	1
37	MP-15	Y	-.081	1
38	MP-1	Y	-.082	4.5
39	MP-2	Y	-.106	4.5
40	MP-3	Y	-.105	4.5
41	MP-4	Y	-.092	4.5
42	MP-5	Y	-.119	4.5
43	MP-6	Y	-.15	4.5
44	MP-7	Y	-.148	4.5
45	MP-8	Y	-.117	4.5
46	MP-9	Y	-.119	4.5
47	MP-10	Y	-.15	4.5
48	MP-11	Y	-.148	4.5
49	MP-12	Y	-.117	4.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]	
1	MP-1	X	-.03	5
2	MP-1	X	-.035	3
3	MP-2	X	-.039	5
4	MP-2	X	-.022	3
5	MP-2	X	-.032	3
6	MP-3	X	-.041	5
7	MP-3	X	-.024	4
8	MP-3	X	-.032	2
9	MP-4	X	-.015	5
10	MP-4	X	-.032	4
11	MP-4	X	-.032	4



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
12	MP-5	X	- .046	5
13	MP-5	X	- .035	3
14	MP-6	X	- .058	5
15	MP-6	X	- .022	3
16	MP-6	X	- .032	3
17	MP-7	X	- .061	5
18	MP-7	X	- .024	4
19	MP-7	X	- .032	2
20	MP-8	X	- .021	5
21	MP-8	X	- .032	4
22	MP-8	X	- .032	4
23	MP-9	X	- .046	5
24	MP-9	X	- .035	3
25	MP-10	X	- .058	5
26	MP-10	X	- .022	3
27	MP-10	X	- .032	3
28	MP-11	X	- .061	5
29	MP-11	X	- .024	4
30	MP-11	X	- .032	2
31	MP-12	X	- .021	5
32	MP-12	X	- .032	4
33	MP-12	X	- .032	4
34	MP-13	X	- .011	1
35	MP-13	X	- .013	1
36	MP-14	X	- .014	1
37	MP-15	X	- .014	1
38	MP-1	X	- .03	4.5
39	MP-2	X	- .039	4.5
40	MP-3	X	- .041	4.5
41	MP-4	X	- .015	4.5
42	MP-5	X	- .046	4.5
43	MP-6	X	- .058	4.5
44	MP-7	X	- .061	4.5
45	MP-8	X	- .021	4.5
46	MP-9	X	- .046	4.5
47	MP-10	X	- .058	4.5
48	MP-11	X	- .061	4.5
49	MP-12	X	- .021	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
1	MP-1	X	- .024	5
2	MP-1	X	- .026	3
3	MP-2	X	- .029	5
4	MP-2	X	- .015	3
5	MP-2	X	- .021	3
6	MP-3	X	- .031	5
7	MP-3	X	- .019	4
8	MP-3	X	- .025	2
9	MP-4	X	- .013	5
10	MP-4	X	- .021	4



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft.%)	
11	MP-4	X	- .021	4
12	MP-5	X	- .023	5
13	MP-5	X	- .015	3
14	MP-6	X	- .022	5
15	MP-6	X	- .019	3
16	MP-6	X	- .027	3
17	MP-7	X	- .028	5
18	MP-7	X	- .016	4
19	MP-7	X	- .019	2
20	MP-8	X	- .016	5
21	MP-8	X	- .027	4
22	MP-8	X	- .028	4
23	MP-9	X	- .036	5
24	MP-9	X	- .026	3
25	MP-10	X	- .043	5
26	MP-10	X	- .015	3
27	MP-10	X	- .021	3
28	MP-11	X	- .047	5
29	MP-11	X	- .019	4
30	MP-11	X	- .025	2
31	MP-12	X	- .017	5
32	MP-12	X	- .021	4
33	MP-12	X	- .021	4
34	MP-13	X	- .01	1
35	MP-13	X	- .011	1
36	MP-14	X	- .012	1
37	MP-15	X	- .012	1
38	MP-1	X	- .024	4.5
39	MP-2	X	- .029	4.5
40	MP-3	X	- .031	4.5
41	MP-4	X	- .013	4.5
42	MP-5	X	- .023	4.5
43	MP-6	X	- .022	4.5
44	MP-7	X	- .028	4.5
45	MP-8	X	- .016	4.5
46	MP-9	X	- .036	4.5
47	MP-10	X	- .043	4.5
48	MP-11	X	- .047	4.5
49	MP-12	X	- .017	4.5
50	MP-1	Z	- .014	5
51	MP-1	Z	- .015	3
52	MP-2	Z	- .017	5
53	MP-2	Z	- .008	3
54	MP-2	Z	- .012	3
55	MP-3	Z	- .018	5
56	MP-3	Z	- .011	4
57	MP-3	Z	- .015	2
58	MP-4	Z	- .008	5
59	MP-4	Z	- .012	4
60	MP-4	Z	- .012	4
61	MP-5	Z	- .013	5
62	MP-5	Z	- .009	3



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
63	MP-6	Z	-013	5
64	MP-6	Z	-011	3
65	MP-6	Z	-016	3
66	MP-7	Z	-016	5
67	MP-7	Z	-009	4
68	MP-7	Z	-011	2
69	MP-8	Z	-009	5
70	MP-8	Z	-016	4
71	MP-8	Z	-016	4
72	MP-9	Z	-021	5
73	MP-9	Z	-015	3
74	MP-10	Z	-025	5
75	MP-10	Z	-008	3
76	MP-10	Z	-012	3
77	MP-11	Z	-027	5
78	MP-11	Z	-011	4
79	MP-11	Z	-015	2
80	MP-12	Z	-01	5
81	MP-12	Z	-012	4
82	MP-12	Z	-012	4
83	MP-13	Z	-006	1
84	MP-13	Z	-007	1
85	MP-14	Z	-007	1
86	MP-15	Z	-007	1
87	MP-1	Z	-014	4.5
88	MP-2	Z	-017	4.5
89	MP-3	Z	-018	4.5
90	MP-4	Z	-008	4.5
91	MP-5	Z	-013	4.5
92	MP-6	Z	-013	4.5
93	MP-7	Z	-016	4.5
94	MP-8	Z	-009	4.5
95	MP-9	Z	-021	4.5
96	MP-10	Z	-025	4.5
97	MP-11	Z	-027	4.5
98	MP-12	Z	-01	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
1	MP-1	X	-017	5
2	MP-1	X	-018	3
3	MP-2	X	-02	5
4	MP-2	X	-013	3
5	MP-2	X	-019	3
6	MP-3	X	-022	5
7	MP-3	X	-015	4
8	MP-3	X	-019	2
9	MP-4	X	-01	5
10	MP-4	X	-019	4
11	MP-4	X	-019	4
12	MP-5	X	-02	5



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
13	MP-5	X	-013	3
14	MP-6	X	-02	5
15	MP-6	X	-016	3
16	MP-6	X	-022	3
17	MP-7	X	-024	5
18	MP-7	X	-013	4
19	MP-7	X	-016	2
20	MP-8	X	-013	5
21	MP-8	X	-022	4
22	MP-8	X	-022	4
23	MP-9	X	-031	5
24	MP-9	X	-024	3
25	MP-10	X	-039	5
26	MP-10	X	-011	3
27	MP-10	X	-016	3
28	MP-11	X	-042	5
29	MP-11	X	-017	4
30	MP-11	X	-022	2
31	MP-12	X	-014	5
32	MP-12	X	-016	4
33	MP-12	X	-016	4
34	MP-13	X	-008	1
35	MP-13	X	-009	1
36	MP-14	X	-01	1
37	MP-15	X	-01	1
38	MP-1	X	-017	4.5
39	MP-2	X	-02	4.5
40	MP-3	X	-022	4.5
41	MP-4	X	-01	4.5
42	MP-5	X	-02	4.5
43	MP-6	X	-02	4.5
44	MP-7	X	-024	4.5
45	MP-8	X	-013	4.5
46	MP-9	X	-031	4.5
47	MP-10	X	-039	4.5
48	MP-11	X	-042	4.5
49	MP-12	X	-014	4.5
50	MP-1	Z	-017	5
51	MP-1	Z	-018	3
52	MP-2	Z	-02	5
53	MP-2	Z	-013	3
54	MP-2	Z	-019	3
55	MP-3	Z	-022	5
56	MP-3	Z	-015	4
57	MP-3	Z	-019	2
58	MP-4	Z	-01	5
59	MP-4	Z	-019	4
60	MP-4	Z	-019	4
61	MP-5	Z	-02	5
62	MP-5	Z	-013	3
63	MP-6	Z	-02	5
64	MP-6	Z	-016	3



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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)
65	MP-6	Z	-022 3
66	MP-7	Z	-024 5
67	MP-7	Z	-013 4
68	MP-7	Z	-016 2
69	MP-8	Z	-013 5
70	MP-8	Z	-022 4
71	MP-8	Z	-022 4
72	MP-9	Z	-031 5
73	MP-9	Z	-024 3
74	MP-10	Z	-039 5
75	MP-10	Z	-011 3
76	MP-10	Z	-016 3
77	MP-11	Z	-042 5
78	MP-11	Z	-017 4
79	MP-11	Z	-022 2
80	MP-12	Z	-014 5
81	MP-12	Z	-016 4
82	MP-12	Z	-016 4
83	MP-13	Z	-008 1
84	MP-13	Z	-009 1
85	MP-14	Z	-01 1
86	MP-15	Z	-01 1
87	MP-1	Z	-017 4.5
88	MP-2	Z	-02 4.5
89	MP-3	Z	-022 4.5
90	MP-4	Z	-01 4.5
91	MP-5	Z	-02 4.5
92	MP-6	Z	-02 4.5
93	MP-7	Z	-024 4.5
94	MP-8	Z	-013 4.5
95	MP-9	Z	-031 4.5
96	MP-10	Z	-039 4.5
97	MP-11	Z	-042 4.5
98	MP-12	Z	-014 4.5

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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)
1	MP-1	X	-011 5
2	MP-1	X	-011 3
3	MP-2	X	-011 5
4	MP-2	X	-01 3
5	MP-2	X	-015 3
6	MP-3	X	-013 5
7	MP-3	X	-01 4
8	MP-3	X	-012 2
9	MP-4	X	-007 5
10	MP-4	X	-015 4
11	MP-4	X	-015 4
12	MP-5	X	-016 5
13	MP-5	X	-011 3
14	MP-6	X	-017 5



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

Member Label	Direction	Magnitude(k,k-ft)	Location(ft,%)
15	MP-6	X	-01 3
16	MP-6	X	-015 3
17	MP-7	X	-02 5
18	MP-7	X	-01 4
19	MP-7	X	-012 2
20	MP-8	X	-009 5
21	MP-8	X	-015 4
22	MP-8	X	-015 4
23	MP-9	X	-023 5
24	MP-9	X	-017 3
25	MP-10	X	-029 5
26	MP-10	X	-007 3
27	MP-10	X	-011 3
28	MP-11	X	-031 5
29	MP-11	X	-012 4
30	MP-11	X	-016 2
31	MP-12	X	-01 5
32	MP-12	X	-011 4
33	MP-12	X	-011 4
34	MP-13	X	-006 1
35	MP-13	X	-007 1
36	MP-14	X	-007 1
37	MP-15	X	-007 1
38	MP-1	X	-011 4.5
39	MP-2	X	-011 4.5
40	MP-3	X	-013 4.5
41	MP-4	X	-007 4.5
42	MP-5	X	-016 4.5
43	MP-6	X	-017 4.5
44	MP-7	X	-02 4.5
45	MP-8	X	-009 4.5
46	MP-9	X	-023 4.5
47	MP-10	X	-029 4.5
48	MP-11	X	-031 4.5
49	MP-12	X	-01 4.5
50	MP-1	Z	-018 5
51	MP-1	Z	-019 3
52	MP-2	Z	-02 5
53	MP-2	Z	-018 3
54	MP-2	Z	-025 3
55	MP-3	Z	-022 5
56	MP-3	Z	-017 4
57	MP-3	Z	-021 2
58	MP-4	Z	-013 5
59	MP-4	Z	-025 4
60	MP-4	Z	-025 4
61	MP-5	Z	-027 5
62	MP-5	Z	-019 3
63	MP-6	Z	-029 5
64	MP-6	Z	-018 3
65	MP-6	Z	-025 3
66	MP-7	Z	-034 5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
67	MP-7	Z	-017	4
68	MP-7	Z	-021	2
69	MP-8	Z	-016	5
70	MP-8	Z	-025	4
71	MP-8	Z	-025	4
72	MP-9	Z	-04	5
73	MP-9	Z	-03	3
74	MP-10	Z	-05	5
75	MP-10	Z	-013	3
76	MP-10	Z	-019	3
77	MP-11	Z	-053	5
78	MP-11	Z	-021	4
79	MP-11	Z	-027	2
80	MP-12	Z	-018	5
81	MP-12	Z	-019	4
82	MP-12	Z	-019	4
83	MP-13	Z	-01	1
84	MP-13	Z	-011	1
85	MP-14	Z	-012	1
86	MP-15	Z	-012	1
87	MP-1	Z	-018	4.5
88	MP-2	Z	-02	4.5
89	MP-3	Z	-022	4.5
90	MP-4	Z	-013	4.5
91	MP-5	Z	-027	4.5
92	MP-6	Z	-029	4.5
93	MP-7	Z	-034	4.5
94	MP-8	Z	-016	4.5
95	MP-9	Z	-04	4.5
96	MP-10	Z	-05	4.5
97	MP-11	Z	-053	4.5
98	MP-12	Z	-018	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	Z	-018	5
2	MP-1	Z	-017	3
3	MP-2	Z	-017	5
4	MP-2	Z	-015	3
5	MP-2	Z	-022	3
6	MP-3	Z	-021	5
7	MP-3	Z	-018	4
8	MP-3	Z	-022	2
9	MP-4	Z	-014	5
10	MP-4	Z	-022	4
11	MP-4	Z	-022	4
12	MP-5	Z	-027	5
13	MP-5	Z	-017	3
14	MP-6	Z	-026	5
15	MP-6	Z	-015	3
16	MP-6	Z	-022	3



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
17	MP-7	Z	-032	5
18	MP-7	Z	-018	4
19	MP-7	Z	-022	2
20	MP-8	Z	-018	5
21	MP-8	Z	-022	4
22	MP-8	Z	-022	4
23	MP-9	Z	-027	5
24	MP-9	Z	-017	3
25	MP-10	Z	-026	5
26	MP-10	Z	-015	3
27	MP-10	Z	-022	3
28	MP-11	Z	-032	5
29	MP-11	Z	-018	4
30	MP-11	Z	-022	2
31	MP-12	Z	-018	5
32	MP-12	Z	-022	4
33	MP-12	Z	-022	4
34	MP-13	Z	-011	1
35	MP-13	Z	-013	1
36	MP-14	Z	-014	1
37	MP-15	Z	-014	1
38	MP-1	Z	-018	4.5
39	MP-2	Z	-017	4.5
40	MP-3	Z	-021	4.5
41	MP-4	Z	-014	4.5
42	MP-5	Z	-027	4.5
43	MP-6	Z	-026	4.5
44	MP-7	Z	-032	4.5
45	MP-8	Z	-018	4.5
46	MP-9	Z	-027	4.5
47	MP-10	Z	-026	4.5
48	MP-11	Z	-032	4.5
49	MP-12	Z	-018	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	.011	5
2	MP-1	X	.011	3
3	MP-2	X	.011	5
4	MP-2	X	.01	3
5	MP-2	X	.015	3
6	MP-3	X	.013	5
7	MP-3	X	.01	4
8	MP-3	X	.012	2
9	MP-4	X	.007	5
10	MP-4	X	.015	4
11	MP-4	X	.015	4
12	MP-5	X	.023	5
13	MP-5	X	.017	3
14	MP-6	X	.029	5
15	MP-6	X	.007	3



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
16	MP-6	X	.011	3
17	MP-7	X	.031	5
18	MP-7	X	.012	4
19	MP-7	X	.016	2
20	MP-8	X	.01	5
21	MP-8	X	.011	4
22	MP-8	X	.011	4
23	MP-9	X	.016	5
24	MP-9	X	.011	3
25	MP-10	X	.017	5
26	MP-10	X	.01	3
27	MP-10	X	.015	3
28	MP-11	X	.02	5
29	MP-11	X	.01	4
30	MP-11	X	.012	2
31	MP-12	X	.009	5
32	MP-12	X	.015	4
33	MP-12	X	.015	4
34	MP-13	X	.006	1
35	MP-13	X	.007	1
36	MP-14	X	.007	1
37	MP-15	X	.007	1
38	MP-1	X	.011	4.5
39	MP-2	X	.011	4.5
40	MP-3	X	.013	4.5
41	MP-4	X	.007	4.5
42	MP-5	X	.023	4.5
43	MP-6	X	.029	4.5
44	MP-7	X	.031	4.5
45	MP-8	X	.01	4.5
46	MP-9	X	.016	4.5
47	MP-10	X	.017	4.5
48	MP-11	X	.02	4.5
49	MP-12	X	.009	4.5
50	MP-1	Z	-.018	5
51	MP-1	Z	-.019	3
52	MP-2	Z	-.02	5
53	MP-2	Z	-.018	3
54	MP-2	Z	-.025	3
55	MP-3	Z	-.022	5
56	MP-3	Z	-.017	4
57	MP-3	Z	-.021	2
58	MP-4	Z	-.013	5
59	MP-4	Z	-.025	4
60	MP-4	Z	-.025	4
61	MP-5	Z	-.04	5
62	MP-5	Z	-.03	3
63	MP-6	Z	-.05	5
64	MP-6	Z	-.013	3
65	MP-6	Z	-.019	3
66	MP-7	Z	-.053	5
67	MP-7	Z	-.021	4



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
68	MP-7	Z	-.027	2
69	MP-8	Z	-.018	5
70	MP-8	Z	-.019	4
71	MP-8	Z	-.019	4
72	MP-9	Z	-.027	5
73	MP-9	Z	-.019	3
74	MP-10	Z	-.029	5
75	MP-10	Z	-.018	3
76	MP-10	Z	-.025	3
77	MP-11	Z	-.034	5
78	MP-11	Z	-.017	4
79	MP-11	Z	-.021	2
80	MP-12	Z	-.016	5
81	MP-12	Z	-.025	4
82	MP-12	Z	-.025	4
83	MP-13	Z	-.01	1
84	MP-13	Z	-.011	1
85	MP-14	Z	-.012	1
86	MP-15	Z	-.012	1
87	MP-1	Z	-.018	4.5
88	MP-2	Z	-.02	4.5
89	MP-3	Z	-.022	4.5
90	MP-4	Z	-.013	4.5
91	MP-5	Z	-.04	4.5
92	MP-6	Z	-.05	4.5
93	MP-7	Z	-.053	4.5
94	MP-8	Z	-.018	4.5
95	MP-9	Z	-.027	4.5
96	MP-10	Z	-.029	4.5
97	MP-11	Z	-.034	4.5
98	MP-12	Z	-.016	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	.017	5
2	MP-1	X	.018	3
3	MP-2	X	.02	5
4	MP-2	X	.013	3
5	MP-2	X	.019	3
6	MP-3	X	.022	5
7	MP-3	X	.015	4
8	MP-3	X	.019	2
9	MP-4	X	.01	5
10	MP-4	X	.019	4
11	MP-4	X	.019	4
12	MP-5	X	.031	5
13	MP-5	X	.024	3
14	MP-6	X	.039	5
15	MP-6	X	.011	3
16	MP-6	X	.016	3
17	MP-7	X	.042	5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
18	MP-7	X	.017	4
19	MP-7	X	.022	2
20	MP-8	X	.014	5
21	MP-8	X	.016	4
22	MP-8	X	.016	4
23	MP-9	X	.02	5
24	MP-9	X	.013	3
25	MP-10	X	.02	5
26	MP-10	X	.016	3
27	MP-10	X	.022	3
28	MP-11	X	.024	5
29	MP-11	X	.013	4
30	MP-11	X	.016	2
31	MP-12	X	.013	5
32	MP-12	X	.022	4
33	MP-12	X	.022	4
34	MP-13	X	.008	1
35	MP-13	X	.009	1
36	MP-14	X	.01	1
37	MP-15	X	.01	1
38	MP-1	X	.017	4.5
39	MP-2	X	.02	4.5
40	MP-3	X	.022	4.5
41	MP-4	X	.01	4.5
42	MP-5	X	.031	4.5
43	MP-6	X	.039	4.5
44	MP-7	X	.042	4.5
45	MP-8	X	.014	4.5
46	MP-9	X	.02	4.5
47	MP-10	X	.02	4.5
48	MP-11	X	.024	4.5
49	MP-12	X	.013	4.5
50	MP-1	Z	-.017	5
51	MP-1	Z	-.018	3
52	MP-2	Z	-.02	5
53	MP-2	Z	-.013	3
54	MP-2	Z	-.019	3
55	MP-3	Z	-.022	5
56	MP-3	Z	-.015	4
57	MP-3	Z	-.019	2
58	MP-4	Z	-.01	5
59	MP-4	Z	-.019	4
60	MP-4	Z	-.019	4
61	MP-5	Z	-.031	5
62	MP-5	Z	-.024	3
63	MP-6	Z	-.039	5
64	MP-6	Z	-.011	3
65	MP-6	Z	-.016	3
66	MP-7	Z	-.042	5
67	MP-7	Z	-.017	4
68	MP-7	Z	-.022	2
69	MP-8	Z	-.014	5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
70	MP-8	Z	-.016	4
71	MP-8	Z	-.016	4
72	MP-9	Z	-.02	5
73	MP-9	Z	-.013	3
74	MP-10	Z	-.02	5
75	MP-10	Z	-.016	3
76	MP-10	Z	-.022	3
77	MP-11	Z	-.024	5
78	MP-11	Z	-.013	4
79	MP-11	Z	-.016	2
80	MP-12	Z	-.013	5
81	MP-12	Z	-.022	4
82	MP-12	Z	-.022	4
83	MP-13	Z	-.008	1
84	MP-13	Z	-.009	1
85	MP-14	Z	-.01	1
86	MP-15	Z	-.01	1
87	MP-2	Z	-.017	4.5
88	MP-2	Z	-.02	4.5
89	MP-3	Z	-.022	4.5
90	MP-4	Z	-.01	4.5
91	MP-5	Z	-.031	4.5
92	MP-6	Z	-.039	4.5
93	MP-7	Z	-.042	4.5
94	MP-8	Z	-.014	4.5
95	MP-9	Z	-.02	4.5
96	MP-10	Z	-.02	4.5
97	MP-11	Z	-.024	4.5
98	MP-12	Z	-.013	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	.024	5
2	MP-1	X	.026	3
3	MP-2	X	.029	5
4	MP-2	X	.015	3
5	MP-2	X	.021	3
6	MP-3	X	.031	5
7	MP-3	X	.019	4
8	MP-3	X	.025	2
9	MP-4	X	.013	5
10	MP-4	X	.021	4
11	MP-4	X	.021	4
12	MP-5	X	.036	5
13	MP-5	X	.026	3
14	MP-6	X	.043	5
15	MP-6	X	.015	3
16	MP-6	X	.021	3
17	MP-7	X	.047	5
18	MP-7	X	.019	4
19	MP-7	X	.025	2



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
20	MP-8	X	.017	5
21	MP-8	X	.021	4
22	MP-8	X	.021	4
23	MP-9	X	.023	5
24	MP-9	X	.015	3
25	MP-10	X	.022	5
26	MP-10	X	.019	3
27	MP-10	X	.027	3
28	MP-11	X	.028	5
29	MP-11	X	.016	4
30	MP-11	X	.019	2
31	MP-12	X	.016	5
32	MP-12	X	.027	4
33	MP-12	X	.028	4
34	MP-13	X	.01	1
35	MP-13	X	.011	1
36	MP-14	X	.012	1
37	MP-15	X	.012	1
38	MP-1	X	.024	4.5
39	MP-2	X	.029	4.5
40	MP-3	X	.031	4.5
41	MP-4	X	.013	4.5
42	MP-5	X	.036	4.5
43	MP-6	X	.043	4.5
44	MP-7	X	.047	4.5
45	MP-8	X	.017	4.5
46	MP-9	X	.023	4.5
47	MP-10	X	.022	4.5
48	MP-11	X	.028	4.5
49	MP-12	X	.016	4.5
50	MP-1	Z	-.014	5
51	MP-1	Z	-.015	3
52	MP-2	Z	-.017	5
53	MP-2	Z	-.008	3
54	MP-2	Z	-.012	3
55	MP-3	Z	-.018	5
56	MP-3	Z	-.011	4
57	MP-3	Z	-.015	2
58	MP-4	Z	-.008	5
59	MP-4	Z	-.012	4
60	MP-4	Z	-.012	4
61	MP-5	Z	-.021	5
62	MP-5	Z	-.015	3
63	MP-6	Z	-.025	5
64	MP-6	Z	-.008	3
65	MP-6	Z	-.012	3
66	MP-7	Z	-.027	5
67	MP-7	Z	-.011	4
68	MP-7	Z	-.015	2
69	MP-8	Z	-.01	5
70	MP-8	Z	-.012	4
71	MP-8	Z	-.012	4



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
72	MP-9	Z	-.013	5
73	MP-9	Z	-.009	3
74	MP-10	Z	-.013	5
75	MP-10	Z	-.011	3
76	MP-10	Z	-.016	3
77	MP-11	Z	-.016	5
78	MP-11	Z	-.009	4
79	MP-11	Z	-.011	2
80	MP-12	Z	-.009	5
81	MP-12	Z	-.016	4
82	MP-12	Z	-.016	4
83	MP-13	Z	-.006	1
84	MP-13	Z	-.007	1
85	MP-14	Z	-.007	1
86	MP-15	Z	-.007	1
87	MP-1	Z	-.014	4.5
88	MP-2	Z	-.017	4.5
89	MP-3	Z	-.018	4.5
90	MP-4	Z	-.005	4.5
91	MP-5	Z	-.021	4.5
92	MP-6	Z	-.025	4.5
93	MP-7	Z	-.027	4.5
94	MP-8	Z	-.01	4.5
95	MP-9	Z	-.013	4.5
96	MP-10	Z	-.013	4.5
97	MP-11	Z	-.016	4.5
98	MP-12	Z	-.009	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	.03	5
2	MP-1	X	.035	3
3	MP-2	X	.039	5
4	MP-2	X	.022	3
5	MP-2	X	.032	3
6	MP-3	X	.041	5
7	MP-3	X	.024	4
8	MP-3	X	.032	2
9	MP-4	X	.015	5
10	MP-4	X	.032	4
11	MP-4	X	.032	4
12	MP-5	X	.046	5
13	MP-5	X	.035	3
14	MP-6	X	.058	5
15	MP-6	X	.022	3
16	MP-6	X	.032	3
17	MP-7	X	.061	5
18	MP-7	X	.024	4
19	MP-7	X	.032	2
20	MP-8	X	.021	5
21	MP-8	X	.032	4



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
22	MP-8	X	.032	4
23	MP-9	X	.046	5
24	MP-9	X	.035	3
25	MP-10	X	.058	5
26	MP-10	X	.022	3
27	MP-10	X	.032	3
28	MP-11	X	.061	5
29	MP-11	X	.024	4
30	MP-11	X	.032	2
31	MP-12	X	.021	5
32	MP-12	X	.032	4
33	MP-12	X	.032	4
34	MP-13	X	.011	1
35	MP-13	X	.013	1
36	MP-14	X	.014	1
37	MP-15	X	.014	1
38	MP-1	X	.03	4.5
39	MP-2	X	.039	4.5
40	MP-3	X	.041	4.5
41	MP-4	X	.015	4.5
42	MP-5	X	.046	4.5
43	MP-6	X	.058	4.5
44	MP-7	X	.061	4.5
45	MP-8	X	.021	4.5
46	MP-9	X	.046	4.5
47	MP-10	X	.058	4.5
48	MP-11	X	.061	4.5
49	MP-12	X	.021	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
1	MP-1	X	.024	5
2	MP-1	X	.026	3
3	MP-2	X	.029	5
4	MP-2	X	.015	3
5	MP-3	X	.021	5
6	MP-3	X	.031	5
7	MP-3	X	.019	4
8	MP-3	X	.025	2
9	MP-4	X	.013	2
10	MP-4	X	.021	4
11	MP-4	X	.021	4
12	MP-5	X	.023	5
13	MP-5	X	.015	3
14	MP-6	X	.022	5
15	MP-6	X	.019	3
16	MP-6	X	.027	3
17	MP-7	X	.028	5
18	MP-7	X	.016	4
19	MP-7	X	.019	2
20	MP-8	X	.016	5



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
21	MP-8	X	.027	4
22	MP-8	X	.028	4
23	MP-9	X	.036	5
24	MP-9	X	.026	3
25	MP-10	X	.043	5
26	MP-10	X	.015	3
27	MP-10	X	.021	3
28	MP-11	X	.047	5
29	MP-11	X	.019	4
30	MP-11	X	.025	2
31	MP-12	X	.017	5
32	MP-12	X	.021	4
33	MP-12	X	.021	4
34	MP-13	X	.01	1
35	MP-13	X	.011	1
36	MP-14	X	.012	1
37	MP-15	X	.012	1
38	MP-1	X	.024	4.5
39	MP-2	X	.029	4.5
40	MP-3	X	.031	4.5
41	MP-4	X	.013	4.5
42	MP-5	X	.023	4.5
43	MP-6	X	.022	4.5
44	MP-7	X	.028	4.5
45	MP-8	X	.016	4.5
46	MP-9	X	.036	4.5
47	MP-10	X	.043	4.5
48	MP-11	X	.047	4.5
49	MP-12	X	.017	4.5
50	MP-1	Z	.014	5
51	MP-1	Z	.015	3
52	MP-2	Z	.017	5
53	MP-2	Z	.008	3
54	MP-2	Z	.012	3
55	MP-3	Z	.018	5
56	MP-3	Z	.011	4
57	MP-3	Z	.015	2
58	MP-4	Z	.008	5
59	MP-4	Z	.012	4
60	MP-4	Z	.012	4
61	MP-5	Z	.013	5
62	MP-5	Z	.009	3
63	MP-6	Z	.013	5
64	MP-6	Z	.011	3
65	MP-6	Z	.016	3
66	MP-7	Z	.016	5
67	MP-7	Z	.009	4
68	MP-7	Z	.011	2
69	MP-8	Z	.009	5
70	MP-8	Z	.016	4
71	MP-8	Z	.016	4
72	MP-9	Z	.021	5



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
73	MP-9	Z	.015	3
74	MP-10	Z	.025	5
75	MP-10	Z	.008	3
76	MP-10	Z	.012	3
77	MP-11	Z	.027	5
78	MP-11	Z	.011	4
79	MP-11	Z	.015	2
80	MP-12	Z	.01	5
81	MP-12	Z	.012	4
82	MP-12	Z	.012	4
83	MP-13	Z	.006	1
84	MP-13	Z	.007	1
85	MP-14	Z	.007	1
86	MP-15	Z	.007	1
87	MP-1	Z	.014	4.5
88	MP-2	Z	.017	4.5
89	MP-3	Z	.018	4.5
90	MP-4	Z	.008	4.5
91	MP-5	Z	.013	4.5
92	MP-6	Z	.013	4.5
93	MP-7	Z	.016	4.5
94	MP-8	Z	.009	4.5
95	MP-9	Z	.021	4.5
96	MP-10	Z	.025	4.5
97	MP-11	Z	.027	4.5
98	MP-12	Z	.01	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
1	MP-1	X	.017	5
2	MP-1	X	.018	3
3	MP-2	X	.02	5
4	MP-2	X	.013	3
5	MP-2	X	.019	3
6	MP-3	X	.022	5
7	MP-3	X	.015	4
8	MP-3	X	.019	2
9	MP-4	X	.01	5
10	MP-4	X	.019	4
11	MP-4	X	.019	4
12	MP-5	X	.02	5
13	MP-5	X	.013	3
14	MP-6	X	.02	5
15	MP-6	X	.016	3
16	MP-6	X	.022	3
17	MP-7	X	.024	5
18	MP-7	X	.013	4
19	MP-7	X	.016	2
20	MP-8	X	.013	5
21	MP-8	X	.022	4
22	MP-8	X	.022	4



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
23	MP-9	X	.031	5
24	MP-9	X	.024	3
25	MP-10	X	.039	5
26	MP-10	X	.011	3
27	MP-10	X	.016	3
28	MP-11	X	.042	5
29	MP-11	X	.017	4
30	MP-11	X	.022	2
31	MP-12	X	.014	5
32	MP-12	X	.016	4
33	MP-12	X	.016	4
34	MP-13	X	.008	1
35	MP-13	X	.009	1
36	MP-14	X	.01	1
37	MP-15	X	.01	1
38	MP-1	X	.017	4.5
39	MP-2	X	.02	4.5
40	MP-3	X	.022	4.5
41	MP-4	X	.01	4.5
42	MP-5	X	.02	4.5
43	MP-6	X	.02	4.5
44	MP-7	X	.024	4.5
45	MP-8	X	.013	4.5
46	MP-9	X	.031	4.5
47	MP-10	X	.039	4.5
48	MP-11	X	.042	4.5
49	MP-12	X	.014	4.5
50	MP-1	Z	.017	5
51	MP-1	Z	.018	3
52	MP-2	Z	.02	5
53	MP-2	Z	.013	3
54	MP-2	Z	.019	3
55	MP-3	Z	.022	5
56	MP-3	Z	.015	4
57	MP-3	Z	.019	2
58	MP-4	Z	.01	5
59	MP-4	Z	.019	4
60	MP-4	Z	.019	4
61	MP-5	Z	.02	5
62	MP-5	Z	.013	3
63	MP-6	Z	.02	5
64	MP-6	Z	.016	3
65	MP-6	Z	.022	3
66	MP-7	Z	.024	5
67	MP-7	Z	.013	4
68	MP-7	Z	.016	2
69	MP-8	Z	.013	5
70	MP-8	Z	.022	4
71	MP-8	Z	.022	4
72	MP-9	Z	.031	5
73	MP-9	Z	.024	3
74	MP-10	Z	.039	5



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
75	MP-10	Z	.011	3
76	MP-10	Z	.016	3
77	MP-11	Z	.042	5
78	MP-11	Z	.017	4
79	MP-11	Z	.022	2
80	MP-12	Z	.014	5
81	MP-12	Z	.016	4
82	MP-12	Z	.016	4
83	MP-13	Z	.008	1
84	MP-13	Z	.009	1
85	MP-14	Z	.01	1
86	MP-15	Z	.01	1
87	MP-1	Z	.017	4.5
88	MP-2	Z	.02	4.5
89	MP-3	Z	.022	4.5
90	MP-4	Z	.01	4.5
91	MP-5	Z	.02	4.5
92	MP-6	Z	.02	4.5
93	MP-7	Z	.024	4.5
94	MP-8	Z	.013	4.5
95	MP-9	Z	.031	4.5
96	MP-10	Z	.039	4.5
97	MP-11	Z	.042	4.5
98	MP-12	Z	.014	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
1	MP-1	X	.011	5
2	MP-1	X	.011	3
3	MP-2	X	.011	5
4	MP-2	X	.01	3
5	MP-2	X	.015	3
6	MP-3	X	.013	5
7	MP-3	X	.01	4
8	MP-3	X	.012	2
9	MP-4	X	.007	5
10	MP-4	X	.015	4
11	MP-4	X	.015	4
12	MP-5	X	.016	5
13	MP-5	X	.011	3
14	MP-6	X	.017	5
15	MP-6	X	.01	3
16	MP-6	X	.015	3
17	MP-7	X	.02	5
18	MP-7	X	.01	4
19	MP-7	X	.012	2
20	MP-8	X	.009	5
21	MP-8	X	.015	4
22	MP-8	X	.015	4
23	MP-9	X	.023	5
24	MP-9	X	.017	3



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
25	MP-10	X	.029	5
26	MP-10	X	.007	3
27	MP-10	X	.011	3
28	MP-11	X	.031	5
29	MP-11	X	.012	4
30	MP-11	X	.016	2
31	MP-12	X	.01	5
32	MP-12	X	.011	4
33	MP-12	X	.011	4
34	MP-13	X	.006	1
35	MP-13	X	.007	1
36	MP-14	X	.007	1
37	MP-15	X	.007	1
38	MP-1	X	.011	4.5
39	MP-2	X	.011	4.5
40	MP-3	X	.013	4.5
41	MP-4	X	.007	4.5
42	MP-5	X	.016	4.5
43	MP-6	X	.017	4.5
44	MP-7	X	.02	4.5
45	MP-8	X	.009	4.5
46	MP-9	X	.023	4.5
47	MP-10	X	.029	4.5
48	MP-11	X	.031	4.5
49	MP-12	X	.01	4.5
50	MP-1	Z	.018	5
51	MP-1	Z	.019	3
52	MP-2	Z	.02	5
53	MP-2	Z	.018	3
54	MP-2	Z	.025	3
55	MP-3	Z	.022	5
56	MP-3	Z	.017	4
57	MP-3	Z	.021	2
58	MP-4	Z	.013	5
59	MP-4	Z	.025	4
60	MP-4	Z	.025	4
61	MP-5	Z	.027	5
62	MP-5	Z	.019	3
63	MP-6	Z	.029	5
64	MP-6	Z	.018	3
65	MP-6	Z	.025	3
66	MP-7	Z	.034	5
67	MP-7	Z	.017	4
68	MP-7	Z	.021	2
69	MP-8	Z	.016	5
70	MP-8	Z	.025	4
71	MP-8	Z	.025	4
72	MP-9	Z	.04	5
73	MP-9	Z	.03	3
74	MP-10	Z	.05	5
75	MP-10	Z	.013	3
76	MP-10	Z	.019	3



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
77	MP-11	Z	.053	5
78	MP-11	Z	.021	4
79	MP-11	Z	.027	2
80	MP-12	Z	.018	5
81	MP-12	Z	.019	4
82	MP-12	Z	.019	4
83	MP-13	Z	.01	1
84	MP-13	Z	.011	1
85	MP-14	Z	.012	1
86	MP-15	Z	.012	1
87	MP-1	Z	.018	4.5
88	MP-2	Z	.02	4.5
89	MP-3	Z	.022	4.5
90	MP-4	Z	.013	4.5
91	MP-5	Z	.027	4.5
92	MP-6	Z	.029	4.5
93	MP-7	Z	.034	4.5
94	MP-8	Z	.016	4.5
95	MP-9	Z	.04	4.5
96	MP-10	Z	.05	4.5
97	MP-11	Z	.053	4.5
98	MP-12	Z	.018	4.5

Member Point Loads (BLC 31 : 270 Wind - Ice)

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
1	MP-1	Z	.018	5
2	MP-1	Z	.017	3
3	MP-2	Z	.017	5
4	MP-2	Z	.015	3
5	MP-2	Z	.022	3
6	MP-3	Z	.021	5
7	MP-3	Z	.018	4
8	MP-3	Z	.022	2
9	MP-4	Z	.014	5
10	MP-4	Z	.022	4
11	MP-4	Z	.022	4
12	MP-5	Z	.027	5
13	MP-5	Z	.017	3
14	MP-6	Z	.026	5
15	MP-6	Z	.015	3
16	MP-6	Z	.022	3
17	MP-7	Z	.032	5
18	MP-7	Z	.018	4
19	MP-7	Z	.022	2
20	MP-8	Z	.018	5
21	MP-8	Z	.022	4
22	MP-8	Z	.022	4
23	MP-9	Z	.027	5
24	MP-9	Z	.017	3
25	MP-10	Z	.026	5
26	MP-10	Z	.015	3



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
27	MP-10	Z	.022	3
28	MP-11	Z	.032	5
29	MP-11	Z	.018	4
30	MP-11	Z	.022	2
31	MP-12	Z	.018	5
32	MP-12	Z	.022	4
33	MP-12	Z	.022	4
34	MP-13	Z	.011	1
35	MP-13	Z	.013	1
36	MP-14	Z	.014	1
37	MP-15	Z	.014	1
38	MP-1	Z	.018	4.5
39	MP-2	Z	.017	4.5
40	MP-3	Z	.021	4.5
41	MP-4	Z	.014	4.5
42	MP-5	Z	.027	4.5
43	MP-6	Z	.026	4.5
44	MP-7	Z	.032	4.5
45	MP-8	Z	.018	4.5
46	MP-9	Z	.027	4.5
47	MP-10	Z	.026	4.5
48	MP-11	Z	.032	4.5
49	MP-12	Z	.018	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
1	MP-1	X	-.011	5
2	MP-1	X	-.011	3
3	MP-2	X	-.011	5
4	MP-2	X	-.01	3
5	MP-2	X	-.015	3
6	MP-3	X	-.013	5
7	MP-3	X	-.01	4
8	MP-3	X	-.012	2
9	MP-4	X	-.007	5
10	MP-4	X	-.015	4
11	MP-4	X	-.015	4
12	MP-5	X	-.023	5
13	MP-5	X	-.017	3
14	MP-6	X	-.029	5
15	MP-6	X	-.007	3
16	MP-6	X	-.011	3
17	MP-7	X	-.031	5
18	MP-7	X	-.012	4
19	MP-7	X	-.016	2
20	MP-8	X	-.01	5
21	MP-8	X	-.011	4
22	MP-8	X	-.011	4
23	MP-9	X	-.016	5
24	MP-9	X	-.011	3
25	MP-10	X	-.017	5



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
26	MP-10	X	-01	3
27	MP-10	X	-015	3
28	MP-11	X	-02	5
29	MP-11	X	-01	4
30	MP-11	X	-012	2
31	MP-12	X	-009	5
32	MP-12	X	-015	4
33	MP-12	X	-015	4
34	MP-13	X	-006	1
35	MP-13	X	-007	1
36	MP-14	X	-007	1
37	MP-15	X	-007	1
38	MP-1	X	-011	4.5
39	MP-2	X	-011	4.5
40	MP-3	X	-013	4.5
41	MP-4	X	-007	4.5
42	MP-5	X	-023	4.5
43	MP-6	X	-029	4.5
44	MP-7	X	-031	4.5
45	MP-8	X	-01	4.5
46	MP-9	X	-016	4.5
47	MP-10	X	-017	4.5
48	MP-11	X	-02	4.5
49	MP-12	X	-009	4.5
50	MP-1	Z	018	5
51	MP-1	Z	019	3
52	MP-2	Z	02	5
53	MP-2	Z	018	3
54	MP-2	Z	025	3
55	MP-3	Z	022	5
56	MP-3	Z	017	4
57	MP-3	Z	021	2
58	MP-4	Z	013	5
59	MP-4	Z	025	4
60	MP-4	Z	025	4
61	MP-5	Z	04	5
62	MP-5	Z	03	3
63	MP-6	Z	05	5
64	MP-6	Z	013	3
65	MP-6	Z	019	3
66	MP-7	Z	053	5
67	MP-7	Z	021	4
68	MP-7	Z	027	2
69	MP-8	Z	018	5
70	MP-8	Z	019	4
71	MP-8	Z	019	4
72	MP-9	Z	027	5
73	MP-9	Z	019	3
74	MP-10	Z	029	5
75	MP-10	Z	018	3
76	MP-10	Z	025	3
77	MP-11	Z	034	5



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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
78	MP-11	Z	017	4
79	MP-11	Z	021	2
80	MP-12	Z	016	5
81	MP-12	Z	025	4
82	MP-12	Z	025	4
83	MP-13	Z	01	1
84	MP-13	Z	011	1
85	MP-14	Z	012	1
86	MP-15	Z	012	1
87	MP-1	Z	018	4.5
88	MP-2	Z	02	4.5
89	MP-3	Z	022	4.5
90	MP-4	Z	013	4.5
91	MP-5	Z	04	4.5
92	MP-6	Z	05	4.5
93	MP-7	Z	053	4.5
94	MP-8	Z	018	4.5
95	MP-9	Z	029	4.5
96	MP-10	Z	029	4.5
97	MP-11	Z	034	4.5
98	MP-12	Z	016	4.5

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

Member Label	Direction	Magnitude(k.k-ft)	Location(ft. %)	
1	MP-1	X	-017	5
2	MP-1	X	-018	3
3	MP-2	X	-02	5
4	MP-2	X	-013	3
5	MP-2	X	-019	3
6	MP-3	X	-022	5
7	MP-3	X	-015	4
8	MP-3	X	-019	2
9	MP-4	X	-01	5
10	MP-4	X	-019	4
11	MP-4	X	-019	4
12	MP-5	X	-031	5
13	MP-5	X	-024	3
14	MP-6	X	-039	5
15	MP-6	X	-011	3
16	MP-6	X	-016	3
17	MP-7	X	-042	5
18	MP-7	X	-017	4
19	MP-7	X	-022	2
20	MP-8	X	-014	5
21	MP-8	X	-016	4
22	MP-8	X	-016	4
23	MP-9	X	-02	5
24	MP-9	X	-013	3
25	MP-10	X	-02	5
26	MP-10	X	-016	3
27	MP-10	X	-022	3



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
28	MP-11	X	- .024	5
29	MP-11	X	- .013	4
30	MP-11	X	- .016	2
31	MP-12	X	- .013	5
32	MP-12	X	- .022	4
33	MP-12	X	- .022	4
34	MP-13	X	- .008	1
35	MP-13	X	- .009	1
36	MP-14	X	- .01	1
37	MP-15	X	- .01	1
38	MP-1	X	- .017	4.5
39	MP-2	X	- .02	4.5
40	MP-3	X	- .022	4.5
41	MP-4	X	- .01	4.5
42	MP-5	X	- .031	4.5
43	MP-6	X	- .039	4.5
44	MP-7	X	- .042	4.5
45	MP-8	X	- .014	4.5
46	MP-9	X	- .02	4.5
47	MP-10	X	- .02	4.5
48	MP-11	X	- .024	4.5
49	MP-12	X	- .013	4.5
50	MP-1	Z	.017	5
51	MP-1	Z	.018	3
52	MP-2	Z	.02	5
53	MP-2	Z	.013	3
54	MP-2	Z	.019	3
55	MP-3	Z	.022	5
56	MP-3	Z	.015	4
57	MP-3	Z	.019	2
58	MP-4	Z	.01	5
59	MP-4	Z	.019	4
60	MP-4	Z	.019	4
61	MP-5	Z	.031	5
62	MP-5	Z	.024	3
63	MP-6	Z	.039	5
64	MP-6	Z	.011	3
65	MP-6	Z	.016	3
66	MP-7	Z	.042	5
67	MP-7	Z	.017	4
68	MP-7	Z	.022	2
69	MP-8	Z	.014	5
70	MP-8	Z	.016	4
71	MP-8	Z	.016	4
72	MP-9	Z	.02	5
73	MP-9	Z	.013	3
74	MP-10	Z	.02	5
75	MP-10	Z	.016	3
76	MP-10	Z	.022	3
77	MP-11	Z	.024	5
78	MP-11	Z	.013	4
79	MP-11	Z	.016	2



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
80	MP-12	Z	.013	5
81	MP-12	Z	.022	4
82	MP-12	Z	.022	4
83	MP-13	Z	.008	1
84	MP-13	Z	.009	1
85	MP-14	Z	.01	1
86	MP-15	Z	.01	1
87	MP-1	Z	.017	4.5
88	MP-2	Z	.02	4.5
89	MP-3	Z	.022	4.5
90	MP-4	Z	.01	4.5
91	MP-5	Z	.031	4.5
92	MP-6	Z	.039	4.5
93	MP-7	Z	.042	4.5
94	MP-8	Z	.014	4.5
95	MP-9	Z	.02	4.5
96	MP-10	Z	.02	4.5
97	MP-11	Z	.024	4.5
98	MP-12	Z	.013	4.5

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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	- .024	5
2	MP-1	X	- .026	3
3	MP-2	X	- .029	5
4	MP-2	X	- .015	3
5	MP-2	X	- .021	3
6	MP-3	X	- .031	5
7	MP-3	X	- .019	4
8	MP-3	X	- .025	2
9	MP-4	X	- .013	5
10	MP-4	X	- .021	4
11	MP-4	X	- .021	4
12	MP-5	X	- .036	5
13	MP-5	X	- .026	3
14	MP-6	X	- .043	5
15	MP-6	X	- .015	3
16	MP-6	X	- .021	3
17	MP-7	X	- .047	5
18	MP-7	X	- .019	4
19	MP-7	X	- .025	2
20	MP-8	X	- .017	5
21	MP-8	X	- .021	4
22	MP-8	X	- .021	4
23	MP-9	X	- .023	5
24	MP-9	X	- .015	3
25	MP-10	X	- .022	5
26	MP-10	X	- .019	3
27	MP-10	X	- .027	3
28	MP-11	X	- .028	5
29	MP-11	X	- .016	4



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
30	MP-11	X	-019	2
31	MP-12	X	-016	5
32	MP-12	X	-027	4
33	MP-12	X	-028	4
34	MP-13	X	-01	1
35	MP-13	X	-011	1
36	MP-14	X	-012	1
37	MP-15	X	-012	1
38	MP-1	X	-024	4.5
39	MP-2	X	-029	4.5
40	MP-3	X	-031	4.5
41	MP-4	X	-013	4.5
42	MP-5	X	-036	4.5
43	MP-6	X	-043	4.5
44	MP-7	X	-047	4.5
45	MP-8	X	-017	4.5
46	MP-9	X	-023	4.5
47	MP-10	X	-022	4.5
48	MP-11	X	-026	4.5
49	MP-12	X	-016	4.5
50	MP-1	Z	014	5
51	MP-1	Z	015	3
52	MP-2	Z	017	5
53	MP-2	Z	008	3
54	MP-2	Z	012	3
55	MP-3	Z	018	5
56	MP-3	Z	011	4
57	MP-3	Z	015	2
58	MP-4	Z	008	5
59	MP-4	Z	012	4
60	MP-4	Z	012	4
61	MP-5	Z	021	5
62	MP-5	Z	015	3
63	MP-6	Z	025	5
64	MP-6	Z	008	3
65	MP-6	Z	012	3
66	MP-7	Z	027	5
67	MP-7	Z	011	4
68	MP-7	Z	015	2
69	MP-8	Z	01	5
70	MP-8	Z	012	4
71	MP-8	Z	012	4
72	MP-9	Z	013	5
73	MP-9	Z	009	3
74	MP-10	Z	013	5
75	MP-10	Z	011	3
76	MP-10	Z	016	3
77	MP-11	Z	016	5
78	MP-11	Z	009	4
79	MP-11	Z	011	2
80	MP-12	Z	009	5
81	MP-12	Z	016	4



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
82	MP-12	Z	016	4
83	MP-13	Z	006	1
84	MP-13	Z	007	1
85	MP-14	Z	007	1
86	MP-15	Z	007	1
87	MP-1	Z	014	4.5
88	MP-2	Z	017	4.5
89	MP-3	Z	018	4.5
90	MP-4	Z	008	4.5
91	MP-5	Z	021	4.5
92	MP-6	Z	025	4.5
93	MP-7	Z	027	4.5
94	MP-8	Z	01	4.5
95	MP-9	Z	013	4.5
96	MP-10	Z	013	4.5
97	MP-11	Z	016	4.5
98	MP-12	Z	009	4.5

Member Point Loads (BLC 37 : Seismic Load X)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)	
1	MP-1	X	-032	5
2	MP-1	X	-053	3
3	MP-2	X	-031	5
4	MP-2	X	-06	3
5	MP-2	X	-053	3
6	MP-3	X	-038	5
7	MP-3	X	-071	4
8	MP-3	X	-053	2
9	MP-4	X	-037	5
10	MP-4	X	-053	4
11	MP-4	X	-053	4
12	MP-5	X	-032	5
13	MP-5	X	-053	3
14	MP-6	X	-032	5
15	MP-6	X	-06	3
16	MP-6	X	-053	3
17	MP-7	X	-045	5
18	MP-7	X	-071	4
19	MP-7	X	-053	2
20	MP-8	X	-056	5
21	MP-8	X	-053	4
22	MP-8	X	-053	4
23	MP-9	X	-032	5
24	MP-9	X	-053	3
25	MP-10	X	-032	5
26	MP-10	X	-06	3
27	MP-10	X	-053	3
28	MP-11	X	-045	5
29	MP-11	X	-071	4
30	MP-11	X	-053	2
31	MP-12	X	-056	5



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
32	MP-12	X	- .053 4
33	MP-12	X	- .053 4
34	MP-13	X	- .033 1
35	MP-13	X	- .026 1
36	MP-14	X	- .033 1
37	MP-15	X	- .033 1
38	MP-1	X	- .032 4.5
39	MP-2	X	- .031 4.5
40	MP-3	X	- .038 4.5
41	MP-4	X	- .037 4.5
42	MP-5	X	- .032 4.5
43	MP-6	X	- .032 4.5
44	MP-7	X	- .045 4.5
45	MP-8	X	- .056 4.5
46	MP-9	X	- .032 4.5
47	MP-10	X	- .032 4.5
48	MP-11	X	- .045 4.5
49	MP-12	X	- .056 4.5

Member Point Loads (BLC 38 : Seismic Load Z)

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
1	MP-1	Z	- .032 5
2	MP-1	Z	- .053 3
3	MP-2	Z	- .031 5
4	MP-2	Z	- .06 3
5	MP-2	Z	- .053 3
6	MP-3	Z	- .038 5
7	MP-3	Z	- .071 4
8	MP-3	Z	- .053 2
9	MP-4	Z	- .037 5
10	MP-4	Z	- .053 4
11	MP-4	Z	- .053 4
12	MP-5	Z	- .032 5
13	MP-5	Z	- .053 3
14	MP-6	Z	- .032 5
15	MP-6	Z	- .06 3
16	MP-6	Z	- .053 3
17	MP-7	Z	- .045 5
18	MP-7	Z	- .071 4
19	MP-7	Z	- .053 2
20	MP-8	Z	- .056 5
21	MP-8	Z	- .053 4
22	MP-8	Z	- .053 4
23	MP-9	Z	- .032 5
24	MP-9	Z	- .053 3
25	MP-10	Z	- .032 5
26	MP-10	Z	- .06 3
27	MP-10	Z	- .053 3
28	MP-11	Z	- .045 5
29	MP-11	Z	- .071 4
30	MP-11	Z	- .053 2



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

Member Label	Direction	Magnitude(k, k-ft)	Location(ft, %)
31	MP-12	Z	- .056 5
32	MP-12	Z	- .053 4
33	MP-12	Z	- .053 4
34	MP-13	Z	- .033 1
35	MP-13	Z	- .026 1
36	MP-14	Z	- .033 1
37	MP-15	Z	- .033 1
38	MP-1	Z	- .032 4.5
39	MP-2	Z	- .031 4.5
40	MP-3	Z	- .038 4.5
41	MP-4	Z	- .037 4.5
42	MP-5	Z	- .032 4.5
43	MP-6	Z	- .032 4.5
44	MP-7	Z	- .045 4.5
45	MP-8	Z	- .056 4.5
46	MP-9	Z	- .032 4.5
47	MP-10	Z	- .032 4.5
48	MP-11	Z	- .045 4.5
49	MP-12	Z	- .056 4.5

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

Member Label	Direction	Start Magnitude(k/ft, F, ks/ft)	End Magnitude(k/ft, F, ks/ft)	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	- .005	- .005	0 %100
2	CP-2	X	- .005	- .005	0 %100
3	CP-3	X	- .012	- .012	0 %100
4	FF-H2	X	- .022	- .022	0 %100
5	SF 1-H2	X	- .011	- .011	0 %100
6	SF2-H2	X	- .011	- .011	0 %100
7	FF-SR	X	- .012	- .012	0 %100
8	SF 1-SR	X	- .006	- .006	0 %100
9	SF2-SR	X	- .006	- .006	0 %100
10	HRB-1	X	- .004	- .004	0 %100
11	HRB-2	X	- .004	- .004	0 %100
12	HRB-3	X	- .01	- .01	0 %100
13	GSOP1	X	- .022	- .022	0 %100
14	GSOP2	X	- .009	- .009	0 %100
15	GSOP3	X	- .009	- .009	0 %100
16	GSC1	X	- .015	- .015	0 %100
17	GSC2	X	- .015	- .015	0 %100
18	GSC3	X	0	0	0 %100
19	K1	X	- .018	- .018	0 %100
20	K2	X	- .018	- .018	0 %100
21	K3	X	- .018	- .018	0 %100
22	MP-1	X	- .012	- .012	0 %100
23	MP-2	X	- .012	- .012	0 %100
24	MP-3	X	- .012	- .012	0 %100
25	MP-4	X	- .012	- .012	0 %100
26	MP-5	X	- .012	- .012	0 %100
27	MP-6	X	- .012	- .012	0 %100
28	MP-7	X	- .012	- .012	0 %100



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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, F, ksf)	Start Location(ft, %)	End Location(ft, %)
29	MP-8	X	-0.12	-0.12	0 %100
30	MP-9	X	-0.12	-0.12	0 %100
31	MP-10	X	-0.12	-0.12	0 %100
32	MP-11	X	-0.12	-0.12	0 %100
33	MP-12	X	-0.12	-0.12	0 %100
34	MP-13	X	-0.01	-0.01	0 %100
35	MP-14	X	-0.01	-0.01	0 %100
36	MP-15	X	-0.01	-0.01	0 %100
37	SA1	X	0	0	0 %100
38	SA2	X	-0.017	-0.017	0 %100
39	SA3	X	-0.017	-0.017	0 %100

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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, F, ksf)	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	-0.008	-0.008	0 %100
2	CP-2	X	0	0	0 %100
3	CP-3	X	-0.009	-0.009	0 %100
4	FF-H2	X	-0.016	-0.016	0 %100
5	SF1-H2	X	-0.016	-0.016	0 %100
6	SF2-H2	X	0	0	0 %100
7	FF-SR	X	-0.009	-0.009	0 %100
8	SF1-SR	X	-0.009	-0.009	0 %100
9	SF2-SR	X	0	0	0 %100
10	HRB-1	X	-0.006	-0.006	0 %100
11	HRB-2	X	0	0	0 %100
12	HRB-3	X	-0.008	-0.008	0 %100
13	GSOP1	X	-0.016	-0.016	0 %100
14	GSOP2	X	-0.013	-0.013	0 %100
15	GSOP3	X	0	0	0 %100
16	GSC1	X	-0.008	-0.008	0 %100
17	GSC2	X	-0.015	-0.015	0 %100
18	GSC3	X	-0.006	-0.006	0 %100
19	K1	X	-0.016	-0.016	0 %100
20	K2	X	-0.016	-0.016	0 %100
21	K3	X	-0.016	-0.016	0 %100
22	MP-1	X	-0.01	-0.01	0 %100
23	MP-2	X	-0.01	-0.01	0 %100
24	MP-3	X	-0.01	-0.01	0 %100
25	MP-4	X	-0.01	-0.01	0 %100
26	MP-5	X	-0.01	-0.01	0 %100
27	MP-6	X	-0.01	-0.01	0 %100
28	MP-7	X	-0.01	-0.01	0 %100
29	MP-8	X	-0.01	-0.01	0 %100
30	MP-9	X	-0.01	-0.01	0 %100
31	MP-10	X	-0.01	-0.01	0 %100
32	MP-11	X	-0.01	-0.01	0 %100
33	MP-12	X	-0.01	-0.01	0 %100
34	MP-13	X	-0.008	-0.008	0 %100
35	MP-14	X	-0.008	-0.008	0 %100
36	MP-15	X	-0.008	-0.008	0 %100
37	SA1	X	-0.008	-0.008	0 %100



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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, F, ksf)	Start Location(ft, %)	End Location(ft, %)
38	SA2	X	-0.009	-0.009	0 %100
39	SA3	X	-0.017	-0.017	0 %100
40	CP-1	Z	-0.005	-0.005	0 %100
41	CP-2	Z	0	0	0 %100
42	CP-3	Z	-0.005	-0.005	0 %100
43	FF-H2	Z	-0.01	-0.01	0 %100
44	SF1-H2	Z	-0.01	-0.01	0 %100
45	SF2-H2	Z	0	0	0 %100
46	FF-SR	Z	-0.005	-0.005	0 %100
47	SF1-SR	Z	-0.005	-0.005	0 %100
48	SF2-SR	Z	0	0	0 %100
49	HRB-1	Z	-0.005	-0.005	0 %100
50	HRB-2	Z	0	0	0 %100
51	HRB-3	Z	-0.005	-0.005	0 %100
52	GSOP1	Z	-0.01	-0.01	0 %100
53	GSOP2	Z	-0.009	-0.009	0 %100
54	GSOP3	Z	0	0	0 %100
55	GSC1	Z	-0.004	-0.004	0 %100
56	GSC2	Z	-0.008	-0.008	0 %100
57	GSC3	Z	-0.005	-0.005	0 %100
58	K1	Z	-0.009	-0.009	0 %100
59	K2	Z	-0.009	-0.009	0 %100
60	K3	Z	-0.009	-0.009	0 %100
61	MP-1	Z	-0.006	-0.006	0 %100
62	MP-2	Z	-0.006	-0.006	0 %100
63	MP-3	Z	-0.006	-0.006	0 %100
64	MP-4	Z	-0.006	-0.006	0 %100
65	MP-5	Z	-0.006	-0.006	0 %100
66	MP-6	Z	-0.006	-0.006	0 %100
67	MP-7	Z	-0.006	-0.006	0 %100
68	MP-8	Z	-0.006	-0.006	0 %100
69	MP-9	Z	-0.006	-0.006	0 %100
70	MP-10	Z	-0.006	-0.006	0 %100
71	MP-11	Z	-0.006	-0.006	0 %100
72	MP-12	Z	-0.006	-0.006	0 %100
73	MP-13	Z	-0.005	-0.005	0 %100
74	MP-14	Z	-0.005	-0.005	0 %100
75	MP-15	Z	-0.005	-0.005	0 %100
76	SA1	Z	-0.005	-0.005	0 %100
77	SA2	Z	-0.005	-0.005	0 %100
78	SA3	Z	-0.009	-0.009	0 %100

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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, F, ksf)	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	-0.007	-0.007	0 %100
2	CP-2	X	-0.002	-0.002	0 %100
3	CP-3	X	-0.006	-0.006	0 %100
4	FF-H2	X	-0.011	-0.011	0 %100
5	SF1-H2	X	-0.015	-0.015	0 %100
6	SF2-H2	X	-0.004	-0.004	0 %100
7	FF-SR	X	-0.006	-0.006	0 %100



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

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft.F,ksf)	Start Location(ft.%)	End Location(ft.%)	
8	SF1-SR	X	-0.08	0	%100	
9	SF2-SR	X	-0.02	-0.02	0	%100
10	HRB-1	X	-0.06	-0.06	0	%100
11	HRB-2	X	-0.02	-0.02	0	%100
12	HRB-3	X	-0.05	-0.05	0	%100
13	GSOP1	X	-0.11	-0.11	0	%100
14	GSOP2	X	-0.12	-0.12	0	%100
15	GSOP3	X	-0.03	-0.03	0	%100
16	GSC1	X	-0.03	-0.03	0	%100
17	GSC2	X	-0.12	-0.12	0	%100
18	GSC3	X	-0.07	-0.07	0	%100
19	K1	X	-0.13	-0.13	0	%100
20	K2	X	-0.13	-0.13	0	%100
21	K3	X	-0.13	-0.13	0	%100
22	MP-1	X	-0.08	-0.08	0	%100
23	MP-2	X	-0.08	-0.08	0	%100
24	MP-3	X	-0.08	-0.08	0	%100
25	MP-4	X	-0.08	-0.08	0	%100
26	MP-5	X	-0.08	-0.08	0	%100
27	MP-6	X	-0.08	-0.08	0	%100
28	MP-7	X	-0.08	-0.08	0	%100
29	MP-8	X	-0.08	-0.08	0	%100
30	MP-9	X	-0.08	-0.08	0	%100
31	MP-10	X	-0.08	-0.08	0	%100
32	MP-11	X	-0.08	-0.08	0	%100
33	MP-12	X	-0.08	-0.08	0	%100
34	MP-13	X	-0.07	-0.07	0	%100
35	MP-14	X	-0.07	-0.07	0	%100
36	MP-15	X	-0.07	-0.07	0	%100
37	SA1	X	-0.09	-0.09	0	%100
38	SA2	X	-0.04	-0.04	0	%100
39	SA3	X	-0.13	-0.13	0	%100
40	CP-1	Z	-0.08	-0.08	0	%100
41	CP-2	Z	-0.02	-0.02	0	%100
42	CP-3	Z	-0.06	-0.06	0	%100
43	FF-H2	Z	-0.11	-0.11	0	%100
44	SF1-H2	Z	-0.15	-0.15	0	%100
45	SF2-H2	Z	-0.04	-0.04	0	%100
46	FF-SR	Z	-0.06	-0.06	0	%100
47	SF1-SR	Z	-0.08	-0.08	0	%100
48	SF2-SR	Z	-0.02	-0.02	0	%100
49	HRB-1	Z	-0.07	-0.07	0	%100
50	HRB-2	Z	-0.02	-0.02	0	%100
51	HRB-3	Z	-0.05	-0.05	0	%100
52	GSOP1	Z	-0.11	-0.11	0	%100
53	GSOP2	Z	-0.15	-0.15	0	%100
54	GSOP3	Z	-0.04	-0.04	0	%100
55	GSC1	Z	-0.03	-0.03	0	%100
56	GSC2	Z	-0.11	-0.11	0	%100
57	GSC3	Z	-0.09	-0.09	0	%100
58	K1	Z	-0.13	-0.13	0	%100
59	K2	Z	-0.13	-0.13	0	%100



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

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft.F,ksf)	Start Location(ft.%)	End Location(ft.%)	
60	K3	Z	-0.13	-0.13	0	%100
61	MP-1	Z	-0.08	-0.08	0	%100
62	MP-2	Z	-0.08	-0.08	0	%100
63	MP-3	Z	-0.08	-0.08	0	%100
64	MP-4	Z	-0.08	-0.08	0	%100
65	MP-5	Z	-0.08	-0.08	0	%100
66	MP-6	Z	-0.08	-0.08	0	%100
67	MP-7	Z	-0.08	-0.08	0	%100
68	MP-8	Z	-0.08	-0.08	0	%100
69	MP-9	Z	-0.08	-0.08	0	%100
70	MP-10	Z	-0.08	-0.08	0	%100
71	MP-11	Z	-0.08	-0.08	0	%100
72	MP-12	Z	-0.08	-0.08	0	%100
73	MP-13	Z	-0.07	-0.07	0	%100
74	MP-14	Z	-0.07	-0.07	0	%100
75	MP-15	Z	-0.07	-0.07	0	%100
76	SA1	Z	-0.1	-0.1	0	%100
77	SA2	Z	-0.03	-0.03	0	%100
78	SA3	Z	-0.12	-0.12	0	%100

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

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft.F,ksf)	Start Location(ft.%)	End Location(ft.%)	
1	CP-1	X	-0.05	-0.05	0	%100
2	CP-2	X	-0.03	-0.03	0	%100
3	CP-3	X	-0.03	-0.03	0	%100
4	FF-H2	X	-0.05	-0.05	0	%100
5	SF1-H2	X	-0.11	-0.11	0	%100
6	SF2-H2	X	-0.05	-0.05	0	%100
7	FF-SR	X	-0.03	-0.03	0	%100
8	SF1-SR	X	-0.06	-0.06	0	%100
9	SF2-SR	X	-0.03	-0.03	0	%100
10	HRB-1	X	-0.04	-0.04	0	%100
11	HRB-2	X	-0.02	-0.02	0	%100
12	HRB-3	X	-0.03	-0.03	0	%100
13	GSOP1	X	-0.05	-0.05	0	%100
14	GSOP2	X	-0.09	-0.09	0	%100
15	GSOP3	X	-0.04	-0.04	0	%100
16	GSC1	X	0	0	0	%100
17	GSC2	X	-0.08	-0.08	0	%100
18	GSC3	X	-0.06	-0.06	0	%100
19	K1	X	-0.09	-0.09	0	%100
20	K2	X	-0.09	-0.09	0	%100
21	K3	X	-0.09	-0.09	0	%100
22	MP-1	X	-0.06	-0.06	0	%100
23	MP-2	X	-0.06	-0.06	0	%100
24	MP-3	X	-0.06	-0.06	0	%100
25	MP-4	X	-0.06	-0.06	0	%100
26	MP-5	X	-0.06	-0.06	0	%100
27	MP-6	X	-0.06	-0.06	0	%100
28	MP-7	X	-0.06	-0.06	0	%100
29	MP-8	X	-0.06	-0.06	0	%100



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 Designer : AJW
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 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, F, ksf)	Start Location(ft, %)	End Location(ft, %)
30	MP-9	X	-0.06	-0.06	0 %100
31	MP-10	X	-0.06	-0.06	0 %100
32	MP-11	X	-0.06	-0.06	0 %100
33	MP-12	X	-0.06	-0.06	0 %100
34	MP-13	X	-0.05	-0.05	0 %100
35	MP-14	X	-0.05	-0.05	0 %100
36	MP-15	X	-0.05	-0.05	0 %100
37	SA1	X	-0.08	-0.08	0 %100
38	SA2	X	0	0	0 %100
39	SA3	X	-0.09	-0.09	0 %100
40	CP-1	Z	-0.01	-0.01	0 %100
41	CP-2	Z	-0.05	-0.05	0 %100
42	CP-3	Z	-0.05	-0.05	0 %100
43	FF-H2	Z	-0.01	-0.01	0 %100
44	SF1-H2	Z	-0.019	-0.019	0 %100
45	SF2-H2	Z	-0.01	-0.01	0 %100
46	FF-SR	Z	-0.05	-0.05	0 %100
47	SF1-SR	Z	-0.01	-0.01	0 %100
48	SF2-SR	Z	-0.05	-0.05	0 %100
49	HRB-1	Z	-0.09	-0.09	0 %100
50	HRB-2	Z	-0.05	-0.05	0 %100
51	HRB-3	Z	-0.05	-0.05	0 %100
52	GSOP1	Z	-0.01	-0.01	0 %100
53	GSOP2	Z	-0.019	-0.019	0 %100
54	GSOP3	Z	-0.009	-0.009	0 %100
55	GSC1	Z	0	0	0 %100
56	GSC2	Z	-0.012	-0.012	0 %100
57	GSC3	Z	-0.014	-0.014	0 %100
58	K1	Z	-0.016	-0.016	0 %100
59	K2	Z	-0.016	-0.016	0 %100
60	K3	Z	-0.016	-0.016	0 %100
61	MP-1	Z	-0.01	-0.01	0 %100
62	MP-2	Z	-0.01	-0.01	0 %100
63	MP-3	Z	-0.01	-0.01	0 %100
64	MP-4	Z	-0.01	-0.01	0 %100
65	MP-5	Z	-0.01	-0.01	0 %100
66	MP-6	Z	-0.01	-0.01	0 %100
67	MP-7	Z	-0.01	-0.01	0 %100
68	MP-8	Z	-0.01	-0.01	0 %100
69	MP-9	Z	-0.01	-0.01	0 %100
70	MP-10	Z	-0.01	-0.01	0 %100
71	MP-11	Z	-0.01	-0.01	0 %100
72	MP-12	Z	-0.01	-0.01	0 %100
73	MP-13	Z	-0.008	-0.008	0 %100
74	MP-14	Z	-0.008	-0.008	0 %100
75	MP-15	Z	-0.008	-0.008	0 %100
76	SA1	Z	-0.015	-0.015	0 %100
77	SA2	Z	0	0	0 %100
78	SA3	Z	-0.014	-0.014	0 %100

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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, F, ksf)	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	0.03	0.03	0 %100
2	CP-2	X	0.05	0.05	0 %100
3	CP-3	X	0.03	0.03	0 %100
4	FF-H2	X	0.05	0.05	0 %100
5	SF1-H2	X	0.05	0.05	0 %100
6	SF2-H2	X	0.11	0.11	0 %100
7	FF-SR	X	0.03	0.03	0 %100
8	SF1-SR	X	0.03	0.03	0 %100
9	SF2-SR	X	0.06	0.06	0 %100



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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, F, ksf)	Start Location(ft, %)	End Location(ft, %)
1	CP-1	Z	-0.01	-0.01	0 %100
2	CP-2	Z	-0.01	-0.01	0 %100
3	CP-3	Z	0	0	0 %100
4	FF-H2	Z	0	0	0 %100
5	SF1-H2	Z	-0.019	-0.019	0 %100
6	SF2-H2	Z	-0.019	-0.019	0 %100
7	FF-SR	Z	0	0	0 %100
8	SF1-SR	Z	-0.01	-0.01	0 %100
9	SF2-SR	Z	-0.01	-0.01	0 %100
10	HRB-1	Z	-0.009	-0.009	0 %100
11	HRB-2	Z	-0.009	-0.009	0 %100
12	HRB-3	Z	0	0	0 %100
13	GSOP1	Z	0	0	0 %100
14	GSOP2	Z	-0.019	-0.019	0 %100
15	GSOP3	Z	-0.019	-0.019	0 %100
16	GSC1	Z	-0.008	-0.008	0 %100
17	GSC2	Z	-0.008	-0.008	0 %100
18	GSC3	Z	-0.019	-0.019	0 %100
19	K1	Z	-0.018	-0.018	0 %100
20	K2	Z	-0.018	-0.018	0 %100
21	K3	Z	-0.018	-0.018	0 %100
22	MP-1	Z	-0.012	-0.012	0 %100
23	MP-2	Z	-0.012	-0.012	0 %100
24	MP-3	Z	-0.012	-0.012	0 %100
25	MP-4	Z	-0.012	-0.012	0 %100
26	MP-5	Z	-0.012	-0.012	0 %100
27	MP-6	Z	-0.012	-0.012	0 %100
28	MP-7	Z	-0.012	-0.012	0 %100
29	MP-8	Z	-0.012	-0.012	0 %100
30	MP-9	Z	-0.012	-0.012	0 %100
31	MP-10	Z	-0.012	-0.012	0 %100
32	MP-11	Z	-0.012	-0.012	0 %100
33	MP-12	Z	-0.012	-0.012	0 %100
34	MP-13	Z	-0.01	-0.01	0 %100
35	MP-14	Z	-0.01	-0.01	0 %100
36	MP-15	Z	-0.01	-0.01	0 %100
37	SA1	Z	-0.02	-0.02	0 %100
38	SA2	Z	-0.009	-0.009	0 %100
39	SA3	Z	-0.009	-0.009	0 %100

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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, F, ksf)	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	0.03	0.03	0 %100
2	CP-2	X	0.05	0.05	0 %100
3	CP-3	X	0.03	0.03	0 %100
4	FF-H2	X	0.05	0.05	0 %100
5	SF1-H2	X	0.05	0.05	0 %100
6	SF2-H2	X	0.11	0.11	0 %100
7	FF-SR	X	0.03	0.03	0 %100
8	SF1-SR	X	0.03	0.03	0 %100
9	SF2-SR	X	0.06	0.06	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location(ft.%)	End Location(ft.%)	
10	HRB-1	X	.002	.002	0	%100
11	HRB-2	X	.004	.004	0	%100
12	HRB-3	X	.003	.003	0	%100
13	GSOP1	X	.005	.005	0	%100
14	GSOP2	X	.004	.004	0	%100
15	GSOP3	X	.009	.009	0	%100
16	GSC1	X	.008	.008	0	%100
17	GSC2	X	0	0	0	%100
18	GSC3	X	.006	.006	0	%100
19	K1	X	.009	.009	0	%100
20	K2	X	.009	.009	0	%100
21	K3	X	.009	.009	0	%100
22	MP-1	X	.006	.006	0	%100
23	MP-2	X	.006	.006	0	%100
24	MP-3	X	.006	.006	0	%100
25	MP-4	X	.006	.006	0	%100
26	MP-5	X	.006	.006	0	%100
27	MP-6	X	.006	.006	0	%100
28	MP-7	X	.006	.006	0	%100
29	MP-8	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	MP-13	X	.005	.005	0	%100
35	MP-14	X	.005	.005	0	%100
36	MP-15	X	.005	.005	0	%100
37	SA1	X	.008	.008	0	%100
38	SA2	X	.009	.009	0	%100
39	SA3	X	0	0	0	%100
40	CP-1	Z	-.005	-.005	0	%100
41	CP-2	Z	-.01	-.01	0	%100
42	CP-3	Z	-.005	-.005	0	%100
43	FF-H2	Z	-.01	-.01	0	%100
44	SF1-H2	Z	-.01	-.01	0	%100
45	SF2-H2	Z	-.019	-.019	0	%100
46	FF-SR	Z	-.005	-.005	0	%100
47	SF1-SR	Z	-.005	-.005	0	%100
48	SF2-SR	Z	-.01	-.01	0	%100
49	HRB-1	Z	-.005	-.005	0	%100
50	HRB-2	Z	-.009	-.009	0	%100
51	HRB-3	Z	-.005	-.005	0	%100
52	GSOP1	Z	-.01	-.01	0	%100
53	GSOP2	Z	-.009	-.009	0	%100
54	GSOP3	Z	-.019	-.019	0	%100
55	GSC1	Z	-.012	-.012	0	%100
56	GSC2	Z	0	0	0	%100
57	GSC3	Z	-.014	-.014	0	%100
58	K1	Z	-.016	-.016	0	%100
59	K2	Z	-.016	-.016	0	%100
60	K3	Z	-.016	-.016	0	%100
61	MP-1	Z	-.01	-.01	0	%100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location(ft.%)	End Location(ft.%)	
62	MP-2	Z	-.01	-.01	0	%100
63	MP-3	Z	-.01	-.01	0	%100
64	MP-4	Z	-.01	-.01	0	%100
65	MP-5	Z	-.01	-.01	0	%100
66	MP-6	Z	-.01	-.01	0	%100
67	MP-7	Z	-.01	-.01	0	%100
68	MP-8	Z	-.01	-.01	0	%100
69	MP-9	Z	-.01	-.01	0	%100
70	MP-10	Z	-.01	-.01	0	%100
71	MP-11	Z	-.01	-.01	0	%100
72	MP-12	Z	-.01	-.01	0	%100
73	MP-13	Z	-.008	-.008	0	%100
74	MP-14	Z	-.008	-.008	0	%100
75	MP-15	Z	-.008	-.008	0	%100
76	SA1	Z	-.015	-.015	0	%100
77	SA2	Z	-.014	-.014	0	%100
78	SA3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location(ft.%)	End Location(ft.%)	
1	CP-1	X	.002	.002	0	%100
2	CP-2	X	.007	.007	0	%100
3	CP-3	X	.006	.006	0	%100
4	FF-H2	X	.011	.011	0	%100
5	SF1-H2	X	.004	.004	0	%100
6	SF2-H2	X	.015	.015	0	%100
7	FF-SR	X	.006	.006	0	%100
8	SF1-SR	X	.002	.002	0	%100
9	SF2-SR	X	.008	.008	0	%100
10	HRB-1	X	.002	.002	0	%100
11	HRB-2	X	.006	.006	0	%100
12	HRB-3	X	.005	.005	0	%100
13	GSOP1	X	.011	.011	0	%100
14	GSOP2	X	.003	.003	0	%100
15	GSOP3	X	.012	.012	0	%100
16	GSC1	X	.012	.012	0	%100
17	GSC2	X	.003	.003	0	%100
18	GSC3	X	.007	.007	0	%100
19	K1	X	.013	.013	0	%100
20	K2	X	.013	.013	0	%100
21	K3	X	.013	.013	0	%100
22	MP-1	X	.008	.008	0	%100
23	MP-2	X	.008	.008	0	%100
24	MP-3	X	.008	.008	0	%100
25	MP-4	X	.008	.008	0	%100
26	MP-5	X	.008	.008	0	%100
27	MP-6	X	.008	.008	0	%100
28	MP-7	X	.008	.008	0	%100
29	MP-8	X	.008	.008	0	%100
30	MP-9	X	.008	.008	0	%100
31	MP-10	X	.008	.008	0	%100



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

Member Label	Direction	Start Magnitude(k/ft, F,ksf)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
32	MP-11	X	.008	.008 0 %100
33	MP-12	X	.008	.008 0 %100
34	MP-13	X	.007	.007 0 %100
35	MP-14	X	.007	.007 0 %100
36	MP-15	X	.007	.007 0 %100
37	SA1	X	.009	.009 0 %100
38	SA2	X	.013	.013 0 %100
39	SA3	X	.004	.004 0 %100
40	CP-1	Z	-.002	-.002 0 %100
41	CP-2	Z	-.008	-.008 0 %100
42	CP-3	Z	-.006	-.006 0 %100
43	FF-H2	Z	-.011	-.011 0 %100
44	SF1-H2	Z	-.004	-.004 0 %100
45	SF2-H2	Z	-.015	-.015 0 %100
46	FF-SR	Z	-.006	-.006 0 %100
47	SF1-SR	Z	-.002	-.002 0 %100
48	SF2-SR	Z	-.008	-.008 0 %100
49	HRB-1	Z	-.002	-.002 0 %100
50	HRB-2	Z	-.007	-.007 0 %100
51	HRB-3	Z	-.005	-.005 0 %100
52	GSOP1	Z	-.011	-.011 0 %100
53	GSOP2	Z	-.004	-.004 0 %100
54	GSOP3	Z	-.015	-.015 0 %100
55	GSC1	Z	-.011	-.011 0 %100
56	GSC2	Z	-.003	-.003 0 %100
57	GSC3	Z	-.009	-.009 0 %100
58	K1	Z	-.013	-.013 0 %100
59	K2	Z	-.013	-.013 0 %100
60	K3	Z	-.013	-.013 0 %100
61	MP-1	Z	-.008	-.008 0 %100
62	MP-2	Z	-.008	-.008 0 %100
63	MP-3	Z	-.008	-.008 0 %100
64	MP-4	Z	-.008	-.008 0 %100
65	MP-5	Z	-.008	-.008 0 %100
66	MP-6	Z	-.008	-.008 0 %100
67	MP-7	Z	-.008	-.008 0 %100
68	MP-8	Z	-.008	-.008 0 %100
69	MP-9	Z	-.008	-.008 0 %100
70	MP-10	Z	-.008	-.008 0 %100
71	MP-11	Z	-.008	-.008 0 %100
72	MP-12	Z	-.008	-.008 0 %100
73	MP-13	Z	-.007	-.007 0 %100
74	MP-14	Z	-.007	-.007 0 %100
75	MP-15	Z	-.007	-.007 0 %100
76	SA1	Z	-.01	-.01 0 %100
77	SA2	Z	-.012	-.012 0 %100
78	SA3	Z	-.003	-.003 0 %100

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

Member Label	Direction	Start Magnitude(k/ft, F,ksf)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	0	0 0 %100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 9 : 150 Wind - No Ice) (Continued)

Member Label	Direction	Start Magnitude(k/ft, F,ksf)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
2	CP-2	X	.008	.008 0 %100
3	CP-3	X	.009	.009 0 %100
4	FF-H2	X	.016	.016 0 %100
5	SF1-H2	X	0	0 0 %100
6	SF2-H2	X	.016	.016 0 %100
7	FF-SR	X	.009	.009 0 %100
8	SF1-SR	X	0	0 0 %100
9	SF2-SR	X	.009	.009 0 %100
10	HRB-1	X	0	0 0 %100
11	HRB-2	X	.006	.006 0 %100
12	HRB-3	X	.008	.008 0 %100
13	GSOP1	X	.016	.016 0 %100
14	GSOP2	X	0	0 0 %100
15	GSOP3	X	.013	.013 0 %100
16	GSC1	X	.015	.015 0 %100
17	GSC2	X	.008	.008 0 %100
18	GSC3	X	.006	.006 0 %100
19	K1	X	.016	.016 0 %100
20	K2	X	.016	.016 0 %100
21	K3	X	.016	.016 0 %100
22	MP-1	X	.01	.01 0 %100
23	MP-2	X	.01	.01 0 %100
24	MP-3	X	.01	.01 0 %100
25	MP-4	X	.01	.01 0 %100
26	MP-5	X	.01	.01 0 %100
27	MP-6	X	.01	.01 0 %100
28	MP-7	X	.01	.01 0 %100
29	MP-8	X	.01	.01 0 %100
30	MP-9	X	.01	.01 0 %100
31	MP-10	X	.01	.01 0 %100
32	MP-11	X	.01	.01 0 %100
33	MP-12	X	.01	.01 0 %100
34	MP-13	X	.008	.008 0 %100
35	MP-14	X	.008	.008 0 %100
36	MP-15	X	.008	.008 0 %100
37	SA1	X	.008	.008 0 %100
38	SA2	X	.017	.017 0 %100
39	SA3	X	.009	.009 0 %100
40	CP-1	Z	0	0 0 %100
41	CP-2	Z	-.005	-.005 0 %100
42	CP-3	Z	-.005	-.005 0 %100
43	FF-H2	Z	-.01	-.01 0 %100
44	SF1-H2	Z	0	0 0 %100
45	SF2-H2	Z	-.01	-.01 0 %100
46	FF-SR	Z	-.005	-.005 0 %100
47	SF1-SR	Z	0	0 0 %100
48	SF2-SR	Z	-.005	-.005 0 %100
49	HRB-1	Z	0	0 0 %100
50	HRB-2	Z	-.005	-.005 0 %100
51	HRB-3	Z	-.005	-.005 0 %100
52	GSOP1	Z	-.01	-.01 0 %100
53	GSOP2	Z	0	0 0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude(k/ft. F,ksfl)	End Magnitude(k/ft. F,ksfl)	Start Location(ft. %)	End Location(ft. %)	
54	G SOP3	Z	-0.09	-0.09	0	%100
55	G SC1	Z	-0.08	-0.08	0	%100
56	G SC2	Z	-0.04	-0.04	0	%100
57	G SC3	Z	-0.05	-0.05	0	%100
58	K1	Z	-0.09	-0.09	0	%100
59	K2	Z	-0.09	-0.09	0	%100
60	K3	Z	-0.09	-0.09	0	%100
61	MP-1	Z	-0.06	-0.06	0	%100
62	MP-2	Z	-0.06	-0.06	0	%100
63	MP-3	Z	-0.06	-0.06	0	%100
64	MP-4	Z	-0.06	-0.06	0	%100
65	MP-5	Z	-0.06	-0.06	0	%100
66	MP-6	Z	-0.06	-0.06	0	%100
67	MP-7	Z	-0.06	-0.06	0	%100
68	MP-8	Z	-0.06	-0.06	0	%100
69	MP-9	Z	-0.06	-0.06	0	%100
70	MP-10	Z	-0.06	-0.06	0	%100
71	MP-11	Z	-0.06	-0.06	0	%100
72	MP-12	Z	-0.06	-0.06	0	%100
73	MP-13	Z	-0.05	-0.05	0	%100
74	MP-14	Z	-0.05	-0.05	0	%100
75	MP-15	Z	-0.05	-0.05	0	%100
76	SA1	Z	-0.05	-0.05	0	%100
77	SA2	Z	-0.09	-0.09	0	%100
78	SA3	Z	-0.05	-0.05	0	%100

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

Member Label	Direction	Start Magnitude(k/ft. F,ksfl)	End Magnitude(k/ft. F,ksfl)	Start Location(ft. %)	End Location(ft. %)	
1	CP-1	X	0.05	0.05	0	%100
2	CP-2	X	0.05	0.05	0	%100
3	CP-3	X	0.12	0.12	0	%100
4	FF-H2	X	0.22	0.22	0	%100
5	SF1-H2	X	0.11	0.11	0	%100
6	SF2-H2	X	0.11	0.11	0	%100
7	FF-SR	X	0.12	0.12	0	%100
8	SF1-SR	X	0.06	0.06	0	%100
9	SF2-SR	X	0.06	0.06	0	%100
10	HRB-1	X	0.04	0.04	0	%100
11	HRB-2	X	0.04	0.04	0	%100
12	HRB-3	X	0.01	0.01	0	%100
13	G SOP1	X	0.22	0.22	0	%100
14	G SOP2	X	0.09	0.09	0	%100
15	G SOP3	X	0.09	0.09	0	%100
16	G SC1	X	0.15	0.15	0	%100
17	G SC2	X	0.15	0.15	0	%100
18	G SC3	X	0	0	0	%100
19	K1	X	0.18	0.18	0	%100
20	K2	X	0.18	0.18	0	%100
21	K3	X	0.18	0.18	0	%100
22	MP-1	X	0.12	0.12	0	%100
23	MP-2	X	0.12	0.12	0	%100



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

Member Label	Direction	Start Magnitude(k/ft. F,ksfl)	End Magnitude(k/ft. F,ksfl)	Start Location(ft. %)	End Location(ft. %)	
24	MP-3	X	0.12	0.12	0	%100
25	MP-4	X	0.12	0.12	0	%100
26	MP-5	X	0.12	0.12	0	%100
27	MP-6	X	0.12	0.12	0	%100
28	MP-7	X	0.12	0.12	0	%100
29	MP-8	X	0.12	0.12	0	%100
30	MP-9	X	0.12	0.12	0	%100
31	MP-10	X	0.12	0.12	0	%100
32	MP-11	X	0.12	0.12	0	%100
33	MP-12	X	0.12	0.12	0	%100
34	MP-13	X	0.1	0.1	0	%100
35	MP-14	X	0.1	0.1	0	%100
36	MP-15	X	0.1	0.1	0	%100
37	SA1	X	0	0	0	%100
38	SA2	X	0.17	0.17	0	%100
39	SA3	X	0.17	0.17	0	%100

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

Member Label	Direction	Start Magnitude(k/ft. F,ksfl)	End Magnitude(k/ft. F,ksfl)	Start Location(ft. %)	End Location(ft. %)	
1	CP-1	X	0.08	0.08	0	%100
2	CP-2	X	0	0	0	%100
3	CP-3	X	0.09	0.09	0	%100
4	FF-H2	X	0.16	0.16	0	%100
5	SF1-H2	X	0.16	0.16	0	%100
6	SF2-H2	X	0	0	0	%100
7	FF-SR	X	0.09	0.09	0	%100
8	SF1-SR	X	0.09	0.09	0	%100
9	SF2-SR	X	0	0	0	%100
10	HRB-1	X	0.06	0.06	0	%100
11	HRB-2	X	0	0	0	%100
12	HRB-3	X	0.08	0.08	0	%100
13	G SOP1	X	0.16	0.16	0	%100
14	G SOP2	X	0.13	0.13	0	%100
15	G SOP3	X	0	0	0	%100
16	G SC1	X	0.08	0.08	0	%100
17	G SC2	X	0.15	0.15	0	%100
18	G SC3	X	0.06	0.06	0	%100
19	K1	X	0.16	0.16	0	%100
20	K2	X	0.16	0.16	0	%100
21	K3	X	0.16	0.16	0	%100
22	MP-1	X	0.1	0.1	0	%100
23	MP-2	X	0.1	0.1	0	%100
24	MP-3	X	0.1	0.1	0	%100
25	MP-4	X	0.1	0.1	0	%100
26	MP-5	X	0.1	0.1	0	%100
27	MP-6	X	0.1	0.1	0	%100
28	MP-7	X	0.1	0.1	0	%100
29	MP-8	X	0.1	0.1	0	%100
30	MP-9	X	0.1	0.1	0	%100
31	MP-10	X	0.1	0.1	0	%100
32	MP-11	X	0.1	0.1	0	%100



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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)
33	MP-12	X	.01	.01 0 %100
34	MP-13	X	.008	.008 0 %100
35	MP-14	X	.008	.008 0 %100
36	MP-15	X	.008	.008 0 %100
37	SA1	X	.008	.008 0 %100
38	SA2	X	.009	.009 0 %100
39	SA3	X	.017	.017 0 %100
40	CP-1	Z	.005	.005 0 %100
41	CP-2	Z	0	0 0 %100
42	CP-3	Z	.005	.005 0 %100
43	FF-H2	Z	.01	.01 0 %100
44	SF1-H2	Z	.01	.01 0 %100
45	SF2-H2	Z	0	0 0 %100
46	FF-SR	Z	.005	.005 0 %100
47	SF1-SR	Z	.005	.005 0 %100
48	SF2-SR	Z	0	0 0 %100
49	HRB-1	Z	.005	.005 0 %100
50	HRB-2	Z	0	0 0 %100
51	HRB-3	Z	.005	.005 0 %100
52	GSOP1	Z	.01	.01 0 %100
53	GSOP2	Z	.009	.009 0 %100
54	GSOP3	Z	0	0 0 %100
55	GSC1	Z	.004	.004 0 %100
56	GSC2	Z	.008	.008 0 %100
57	GSC3	Z	.005	.005 0 %100
58	K1	Z	.009	.009 0 %100
59	K2	Z	.009	.009 0 %100
60	K3	Z	.009	.009 0 %100
61	MP-1	Z	.006	.006 0 %100
62	MP-2	Z	.006	.006 0 %100
63	MP-3	Z	.006	.006 0 %100
64	MP-4	Z	.006	.006 0 %100
65	MP-5	Z	.006	.006 0 %100
66	MP-6	Z	.006	.006 0 %100
67	MP-7	Z	.006	.006 0 %100
68	MP-8	Z	.006	.006 0 %100
69	MP-9	Z	.006	.006 0 %100
70	MP-10	Z	.006	.006 0 %100
71	MP-11	Z	.006	.006 0 %100
72	MP-12	Z	.006	.006 0 %100
73	MP-13	Z	.005	.005 0 %100
74	MP-14	Z	.005	.005 0 %100
75	MP-15	Z	.005	.005 0 %100
76	SA1	Z	.005	.005 0 %100
77	SA2	Z	.005	.005 0 %100
78	SA3	Z	.009	.009 0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	.007	.007 0 %100
2	CP-2	X	.002	.002 0 %100



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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)
3	CP-3	X	.006	.006 0 %100
4	FF-H2	X	.011	.011 0 %100
5	SF1-H2	X	.015	.015 0 %100
6	SF2-H2	X	.004	.004 0 %100
7	FF-SR	X	.006	.006 0 %100
8	SF1-SR	X	.008	.008 0 %100
9	SF2-SR	X	.002	.002 0 %100
10	HRB-1	X	.006	.006 0 %100
11	HRB-2	X	.002	.002 0 %100
12	HRB-3	X	.005	.005 0 %100
13	GSOP1	X	.011	.011 0 %100
14	GSOP2	X	.012	.012 0 %100
15	GSOP3	X	.003	.003 0 %100
16	GSC1	X	.003	.003 0 %100
17	GSC2	X	.012	.012 0 %100
18	GSC3	X	.007	.007 0 %100
19	K1	X	.013	.013 0 %100
20	K2	X	.013	.013 0 %100
21	K3	X	.013	.013 0 %100
22	MP-1	X	.008	.008 0 %100
23	MP-2	X	.008	.008 0 %100
24	MP-3	X	.008	.008 0 %100
25	MP-4	X	.008	.008 0 %100
26	MP-5	X	.008	.008 0 %100
27	MP-6	X	.008	.008 0 %100
28	MP-7	X	.008	.008 0 %100
29	MP-8	X	.008	.008 0 %100
30	MP-9	X	.008	.008 0 %100
31	MP-10	X	.008	.008 0 %100
32	MP-11	X	.008	.008 0 %100
33	MP-12	X	.008	.008 0 %100
34	MP-13	X	.007	.007 0 %100
35	MP-14	X	.007	.007 0 %100
36	MP-15	X	.007	.007 0 %100
37	SA1	X	.009	.009 0 %100
38	SA2	X	.004	.004 0 %100
39	SA3	X	.013	.013 0 %100
40	CP-1	Z	.008	.008 0 %100
41	CP-2	Z	.002	.002 0 %100
42	CP-3	Z	.006	.006 0 %100
43	FF-H2	Z	.011	.011 0 %100
44	SF1-H2	Z	.015	.015 0 %100
45	SF2-H2	Z	.004	.004 0 %100
46	FF-SR	Z	.006	.006 0 %100
47	SF1-SR	Z	.008	.008 0 %100
48	SF2-SR	Z	.002	.002 0 %100
49	HRB-1	Z	.007	.007 0 %100
50	HRB-2	Z	.002	.002 0 %100
51	HRB-3	Z	.005	.005 0 %100
52	GSOP1	Z	.011	.011 0 %100
53	GSOP2	Z	.015	.015 0 %100
54	GSOP3	Z	.004	.004 0 %100



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

Member Label	Direction	Start Magnitude[k/ft, F, ksfl]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)
55	GSC1	Z	.003	.003 0 %100
56	GSC2	Z	.011	.011 0 %100
57	GSC3	Z	.009	.009 0 %100
58	K1	Z	.013	.013 0 %100
59	K2	Z	.013	.013 0 %100
60	K3	Z	.013	.013 0 %100
61	MP-1	Z	.008	.008 0 %100
62	MP-2	Z	.008	.008 0 %100
63	MP-3	Z	.008	.008 0 %100
64	MP-4	Z	.008	.008 0 %100
65	MP-5	Z	.008	.008 0 %100
66	MP-6	Z	.008	.008 0 %100
67	MP-7	Z	.008	.008 0 %100
68	MP-8	Z	.008	.008 0 %100
69	MP-9	Z	.008	.008 0 %100
70	MP-10	Z	.008	.008 0 %100
71	MP-11	Z	.008	.008 0 %100
72	MP-12	Z	.008	.008 0 %100
73	MP-13	Z	.007	.007 0 %100
74	MP-14	Z	.007	.007 0 %100
75	MP-15	Z	.007	.007 0 %100
76	SA1	Z	.01	.01 0 %100
77	SA2	Z	.003	.003 0 %100
78	SA3	Z	.012	.012 0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ksfl]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	.005	.005 0 %100
2	CP-2	X	.003	.003 0 %100
3	CP-3	X	.003	.003 0 %100
4	FF-H2	X	.005	.005 0 %100
5	SF1-H2	X	.011	.011 0 %100
6	SF2-H2	X	.005	.005 0 %100
7	FF-SR	X	.003	.003 0 %100
8	SF1-SR	X	.006	.006 0 %100
9	SF2-SR	X	.003	.003 0 %100
10	HRB-1	X	.004	.004 0 %100
11	HRB-2	X	.002	.002 0 %100
12	HRB-3	X	.003	.003 0 %100
13	GSOP1	X	.005	.005 0 %100
14	GSOP2	X	.009	.009 0 %100
15	GSOP3	X	.004	.004 0 %100
16	GSC1	X	0	0 %100
17	GSC2	X	.008	.008 0 %100
18	GSC3	X	.006	.006 0 %100
19	K1	X	.009	.009 0 %100
20	K2	X	.009	.009 0 %100
21	K3	X	.009	.009 0 %100
22	MP-1	X	.006	.006 0 %100
23	MP-2	X	.006	.006 0 %100
24	MP-3	X	.006	.006 0 %100



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

Member Label	Direction	Start Magnitude[k/ft, F, ksfl]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)
25	MP-4	X	.006	.006 0 %100
26	MP-5	X	.006	.006 0 %100
27	MP-6	X	.006	.006 0 %100
28	MP-7	X	.006	.006 0 %100
29	MP-8	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	MP-13	X	.005	.005 0 %100
35	MP-14	X	.005	.005 0 %100
36	MP-15	X	.005	.005 0 %100
37	SA1	X	.008	.008 0 %100
38	SA2	X	0	0 %100
39	SA3	X	.009	.009 0 %100
40	CP-1	Z	.01	.01 0 %100
41	CP-2	Z	.005	.005 0 %100
42	CP-3	Z	.005	.005 0 %100
43	FF-H2	Z	.01	.01 0 %100
44	SF1-H2	Z	.019	.019 0 %100
45	SF2-H2	Z	.01	.01 0 %100
46	FF-SR	Z	.005	.005 0 %100
47	SF1-SR	Z	.01	.01 0 %100
48	SF2-SR	Z	.005	.005 0 %100
49	HRB-1	Z	.009	.009 0 %100
50	HRB-2	Z	.005	.005 0 %100
51	HRB-3	Z	.005	.005 0 %100
52	GSOP1	Z	.01	.01 0 %100
53	GSOP2	Z	.019	.019 0 %100
54	GSOP3	Z	.009	.009 0 %100
55	GSC1	Z	0	0 %100
56	GSC2	Z	.012	.012 0 %100
57	GSC3	Z	.014	.014 0 %100
58	K1	Z	.016	.016 0 %100
59	K2	Z	.016	.016 0 %100
60	K3	Z	.016	.016 0 %100
61	MP-1	Z	.01	.01 0 %100
62	MP-2	Z	.01	.01 0 %100
63	MP-3	Z	.01	.01 0 %100
64	MP-4	Z	.01	.01 0 %100
65	MP-5	Z	.01	.01 0 %100
66	MP-6	Z	.01	.01 0 %100
67	MP-7	Z	.01	.01 0 %100
68	MP-8	Z	.01	.01 0 %100
69	MP-9	Z	.01	.01 0 %100
70	MP-10	Z	.01	.01 0 %100
71	MP-11	Z	.01	.01 0 %100
72	MP-12	Z	.01	.01 0 %100
73	MP-13	Z	.008	.008 0 %100
74	MP-14	Z	.008	.008 0 %100
75	MP-15	Z	.008	.008 0 %100
76	SA1	Z	.015	.015 0 %100



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

Member Label	Direction	Start Magnitude(k/ft, F, ks/f)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)		
77	SA2	Z	0	0	%100	
78	SA3	Z	.014	.014	0	%100

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

Member Label	Direction	Start Magnitude(k/ft, F, ks/f)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)		
1	CP-1	Z	.01	.01	0	%100
2	CP-2	Z	.01	.01	0	%100
3	CP-3	Z	0	0	0	%100
4	FF-H2	Z	0	0	0	%100
5	SF1-H2	Z	.019	.019	0	%100
6	SF2-H2	Z	.019	.019	0	%100
7	FF-SR	Z	0	0	0	%100
8	SF1-SR	Z	.01	.01	0	%100
9	SF2-SR	Z	.01	.01	0	%100
10	HRB-1	Z	.009	.009	0	%100
11	HRB-2	Z	.009	.009	0	%100
12	HRB-3	Z	0	0	0	%100
13	GSOP1	Z	0	0	0	%100
14	GSOP2	Z	.019	.019	0	%100
15	GSOP3	Z	.019	.019	0	%100
16	GSC1	Z	.008	.008	0	%100
17	GSC2	Z	.008	.008	0	%100
18	GSC3	Z	.019	.019	0	%100
19	K1	Z	.018	.018	0	%100
20	K2	Z	.018	.018	0	%100
21	K3	Z	.018	.018	0	%100
22	MP-1	Z	.012	.012	0	%100
23	MP-2	Z	.012	.012	0	%100
24	MP-3	Z	.012	.012	0	%100
25	MP-4	Z	.012	.012	0	%100
26	MP-5	Z	.012	.012	0	%100
27	MP-6	Z	.012	.012	0	%100
28	MP-7	Z	.012	.012	0	%100
29	MP-8	Z	.012	.012	0	%100
30	MP-9	Z	.012	.012	0	%100
31	MP-10	Z	.012	.012	0	%100
32	MP-11	Z	.012	.012	0	%100
33	MP-12	Z	.012	.012	0	%100
34	MP-13	Z	.01	.01	0	%100
35	MP-14	Z	.01	.01	0	%100
36	MP-15	Z	.01	.01	0	%100
37	SA1	Z	.02	.02	0	%100
38	SA2	Z	.009	.009	0	%100
39	SA3	Z	.009	.009	0	%100

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

Member Label	Direction	Start Magnitude(k/ft, F, ks/f)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)		
1	CP-1	X	-.003	-.003	0	%100
2	CP-2	X	-.005	-.005	0	%100
3	CP-3	X	-.003	-.003	0	%100
4	FF-H2	X	-.005	-.005	0	%100



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

Member Label	Direction	Start Magnitude(k/ft, F, ks/f)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)		
5	SF1-H2	X	-.005	-.005	0	%100
6	SF2-H2	X	-.011	-.011	0	%100
7	FF-SR	X	-.003	-.003	0	%100
8	SF1-SR	X	-.003	-.003	0	%100
9	SF2-SR	X	-.006	-.006	0	%100
10	HRB-1	X	-.002	-.002	0	%100
11	HRB-2	X	-.004	-.004	0	%100
12	HRB-3	X	-.003	-.003	0	%100
13	GSOP1	X	-.005	-.005	0	%100
14	GSOP2	X	-.004	-.004	0	%100
15	GSOP3	X	-.009	-.009	0	%100
16	GSC1	X	-.008	-.008	0	%100
17	GSC2	X	0	0	0	%100
18	GSC3	X	-.006	-.006	0	%100
19	K1	X	-.009	-.009	0	%100
20	K2	X	-.009	-.009	0	%100
21	K3	X	-.009	-.009	0	%100
22	MP-1	X	-.006	-.006	0	%100
23	MP-2	X	-.006	-.006	0	%100
24	MP-3	X	-.006	-.006	0	%100
25	MP-4	X	-.006	-.006	0	%100
26	MP-5	X	-.006	-.006	0	%100
27	MP-6	X	-.006	-.006	0	%100
28	MP-7	X	-.006	-.006	0	%100
29	MP-8	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	MP-13	X	-.005	-.005	0	%100
35	MP-14	X	-.005	-.005	0	%100
36	MP-15	X	-.005	-.005	0	%100
37	SA1	X	-.008	-.008	0	%100
38	SA2	X	-.009	-.009	0	%100
39	SA3	X	0	0	0	%100
40	CP-1	Z	.005	.005	0	%100
41	CP-2	Z	.01	.01	0	%100
42	CP-3	Z	.005	.005	0	%100
43	FF-H2	Z	.01	.01	0	%100
44	SF1-H2	Z	.01	.01	0	%100
45	SF2-H2	Z	.019	.019	0	%100
46	FF-SR	Z	.005	.005	0	%100
47	SF1-SR	Z	.005	.005	0	%100
48	SF2-SR	Z	.01	.01	0	%100
49	HRB-1	Z	.005	.005	0	%100
50	HRB-2	Z	.009	.009	0	%100
51	HRB-3	Z	.005	.005	0	%100
52	GSOP1	Z	.01	.01	0	%100
53	GSOP2	Z	.009	.009	0	%100
54	GSOP3	Z	.019	.019	0	%100
55	GSC1	Z	.012	.012	0	%100
56	GSC2	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude(k/ft. F, ks/f)	End Magnitude(k/ft. F, ks/f)	Start Location(ft. %)	End Location(ft. %)	
57	GSC3	Z	.014	.014	0	%100
58	K1	Z	.016	.016	0	%100
59	K2	Z	.016	.016	0	%100
60	K3	Z	.016	.016	0	%100
61	MP-1	Z	.01	.01	0	%100
62	MP-2	Z	.01	.01	0	%100
63	MP-3	Z	.01	.01	0	%100
64	MP-4	Z	.01	.01	0	%100
65	MP-5	Z	.01	.01	0	%100
66	MP-6	Z	.01	.01	0	%100
67	MP-7	Z	.01	.01	0	%100
68	MP-8	Z	.01	.01	0	%100
69	MP-9	Z	.01	.01	0	%100
70	MP-10	Z	.01	.01	0	%100
71	MP-11	Z	.01	.01	0	%100
72	MP-12	Z	.01	.01	0	%100
73	MP-13	Z	.008	.008	0	%100
74	MP-14	Z	.008	.008	0	%100
75	MP-15	Z	.008	.008	0	%100
76	SA1	Z	.015	.015	0	%100
77	SA2	Z	.014	.014	0	%100
78	SA3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude(k/ft. F, ks/f)	End Magnitude(k/ft. F, ks/f)	Start Location(ft. %)	End Location(ft. %)	
1	CP-1	X	-.002	-.002	0	%100
2	CP-2	X	-.007	-.007	0	%100
3	CP-3	X	-.006	-.006	0	%100
4	FF-H2	X	-.011	-.011	0	%100
5	SF1-H2	X	-.004	-.004	0	%100
6	SF2-H2	X	-.015	-.015	0	%100
7	FF-SR	X	-.006	-.006	0	%100
8	SF1-SR	X	-.002	-.002	0	%100
9	SF2-SR	X	-.008	-.008	0	%100
10	HRB-1	X	-.002	-.002	0	%100
11	HRB-2	X	-.006	-.006	0	%100
12	HRB-3	X	-.005	-.005	0	%100
13	GSOP1	X	-.011	-.011	0	%100
14	GSOP2	X	-.003	-.003	0	%100
15	GSOP3	X	-.012	-.012	0	%100
16	GSC1	X	-.012	-.012	0	%100
17	GSC2	X	-.003	-.003	0	%100
18	GSC3	X	-.007	-.007	0	%100
19	K1	X	-.013	-.013	0	%100
20	K2	X	-.013	-.013	0	%100
21	K3	X	-.013	-.013	0	%100
22	MP-1	X	-.008	-.008	0	%100
23	MP-2	X	-.008	-.008	0	%100
24	MP-3	X	-.008	-.008	0	%100
25	MP-4	X	-.008	-.008	0	%100
26	MP-5	X	-.008	-.008	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude(k/ft. F, ks/f)	End Magnitude(k/ft. F, ks/f)	Start Location(ft. %)	End Location(ft. %)	
27	MP-6	X	-.008	-.008	0	%100
28	MP-7	X	-.008	-.008	0	%100
29	MP-8	X	-.008	-.008	0	%100
30	MP-9	X	-.008	-.008	0	%100
31	MP-10	X	-.008	-.008	0	%100
32	MP-11	X	-.008	-.008	0	%100
33	MP-12	X	-.008	-.008	0	%100
34	MP-13	X	-.007	-.007	0	%100
35	MP-14	X	-.007	-.007	0	%100
36	MP-15	X	-.007	-.007	0	%100
37	SA1	X	-.009	-.009	0	%100
38	SA2	X	-.013	-.013	0	%100
39	SA3	X	-.004	-.004	0	%100
40	CP-1	Z	.002	.002	0	%100
41	CP-2	Z	.008	.008	0	%100
42	CP-3	Z	.006	.006	0	%100
43	FF-H2	Z	.011	.011	0	%100
44	SF1-H2	Z	.004	.004	0	%100
45	SF2-H2	Z	.015	.015	0	%100
46	FF-SR	Z	.006	.006	0	%100
47	SF1-SR	Z	.002	.002	0	%100
48	SF2-SR	Z	.008	.008	0	%100
49	HRB-1	Z	.002	.002	0	%100
50	HRB-2	Z	.007	.007	0	%100
51	HRB-3	Z	.005	.005	0	%100
52	GSOP1	Z	.011	.011	0	%100
53	GSOP2	Z	.004	.004	0	%100
54	GSOP3	Z	.015	.015	0	%100
55	GSC1	Z	.011	.011	0	%100
56	GSC2	Z	.003	.003	0	%100
57	GSC3	Z	.009	.009	0	%100
58	K1	Z	.013	.013	0	%100
59	K2	Z	.013	.013	0	%100
60	K3	Z	.013	.013	0	%100
61	MP-1	Z	.008	.008	0	%100
62	MP-2	Z	.008	.008	0	%100
63	MP-3	Z	.008	.008	0	%100
64	MP-4	Z	.008	.008	0	%100
65	MP-5	Z	.008	.008	0	%100
66	MP-6	Z	.008	.008	0	%100
67	MP-7	Z	.008	.008	0	%100
68	MP-8	Z	.008	.008	0	%100
69	MP-9	Z	.008	.008	0	%100
70	MP-10	Z	.008	.008	0	%100
71	MP-11	Z	.008	.008	0	%100
72	MP-12	Z	.008	.008	0	%100
73	MP-13	Z	.007	.007	0	%100
74	MP-14	Z	.007	.007	0	%100
75	MP-15	Z	.007	.007	0	%100
76	SA1	Z	.01	.01	0	%100
77	SA2	Z	.012	.012	0	%100
78	SA3	Z	.003	.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude(k/ft, F, ks/f)	End Magnitude(k/ft, F, ks/f)	Start Location(ft, %)	End Location(ft, %)	
1	CP-1	X	0	0	%100	
2	CP-2	X	-0.008	-0.008	0	%100
3	CP-3	X	-0.009	-0.009	0	%100
4	FF-H2	X	-0.016	-0.016	0	%100
5	SF1-H2	X	0	0	0	%100
6	SF2-H2	X	-0.016	-0.016	0	%100
7	FF-SR	X	-0.009	-0.009	0	%100
8	SF1-SR	X	0	0	0	%100
9	SF2-SR	X	-0.009	-0.009	0	%100
10	HRB-1	X	0	0	0	%100
11	HRB-2	X	-0.006	-0.006	0	%100
12	HRB-3	X	-0.008	-0.008	0	%100
13	GSOP1	X	-0.016	-0.016	0	%100
14	GSOP2	X	0	0	0	%100
15	GSOP3	X	-0.013	-0.013	0	%100
16	GSC1	X	-0.015	-0.015	0	%100
17	GSC2	X	-0.008	-0.008	0	%100
18	GSC3	X	-0.006	-0.006	0	%100
19	K1	X	-0.016	-0.016	0	%100
20	K2	X	-0.016	-0.016	0	%100
21	K3	X	-0.016	-0.016	0	%100
22	MP-1	X	-0.01	-0.01	0	%100
23	MP-2	X	-0.01	-0.01	0	%100
24	MP-3	X	-0.01	-0.01	0	%100
25	MP-4	X	-0.01	-0.01	0	%100
26	MP-5	X	-0.01	-0.01	0	%100
27	MP-6	X	-0.01	-0.01	0	%100
28	MP-7	X	-0.01	-0.01	0	%100
29	MP-8	X	-0.01	-0.01	0	%100
30	MP-9	X	-0.01	-0.01	0	%100
31	MP-10	X	-0.01	-0.01	0	%100
32	MP-11	X	-0.01	-0.01	0	%100
33	MP-12	X	-0.01	-0.01	0	%100
34	MP-13	X	-0.008	-0.008	0	%100
35	MP-14	X	-0.008	-0.008	0	%100
36	MP-15	X	-0.008	-0.008	0	%100
37	SA1	X	-0.008	-0.008	0	%100
38	SA2	X	-0.017	-0.017	0	%100
39	SA3	X	-0.009	-0.009	0	%100
40	CP-1	Z	0	0	0	%100
41	CP-2	Z	0.005	0.005	0	%100
42	CP-3	Z	0.005	0.005	0	%100
43	FF-H2	Z	.01	.01	0	%100
44	SF1-H2	Z	0	0	0	%100
45	SF2-H2	Z	.01	.01	0	%100
46	FF-SR	Z	0.005	0.005	0	%100
47	SF1-SR	Z	0	0	0	%100
48	SF2-SR	Z	0.005	0.005	0	%100
49	HRB-1	Z	0	0	0	%100
50	HRB-2	Z	0.005	0.005	0	%100
51	HRB-3	Z	0.005	0.005	0	%100
52	GSOP1	Z	.01	.01	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude(k/ft, F, ks/f)	End Magnitude(k/ft, F, ks/f)	Start Location(ft, %)	End Location(ft, %)	
53	GSOP2	Z	0	0	0	%100
54	GSOP3	Z	0.009	0.009	0	%100
55	GSC1	Z	0.008	0.008	0	%100
56	GSC2	Z	0.004	0.004	0	%100
57	GSC3	Z	0.005	0.005	0	%100
58	K1	Z	0.009	0.009	0	%100
59	K2	Z	0.009	0.009	0	%100
60	K3	Z	0.009	0.009	0	%100
61	MP-1	Z	0.006	0.006	0	%100
62	MP-2	Z	0.006	0.006	0	%100
63	MP-3	Z	0.006	0.006	0	%100
64	MP-4	Z	0.006	0.006	0	%100
65	MP-5	Z	0.006	0.006	0	%100
66	MP-6	Z	0.006	0.006	0	%100
67	MP-7	Z	0.006	0.006	0	%100
68	MP-8	Z	0.006	0.006	0	%100
69	MP-9	Z	0.006	0.006	0	%100
70	MP-10	Z	0.006	0.006	0	%100
71	MP-11	Z	0.006	0.006	0	%100
72	MP-12	Z	0.006	0.006	0	%100
73	MP-13	Z	0.005	0.005	0	%100
74	MP-14	Z	0.005	0.005	0	%100
75	MP-15	Z	0.005	0.005	0	%100
76	SA1	Z	0.005	0.005	0	%100
77	SA2	Z	0.009	0.009	0	%100
78	SA3	Z	0.005	0.005	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude(k/ft, F, ks/f)	End Magnitude(k/ft, F, ks/f)	Start Location(ft, %)	End Location(ft, %)	
1	CP-1	Y	-0.009	-0.009	0	%100
2	CP-2	Y	-0.009	-0.009	0	%100
3	CP-3	Y	-0.009	-0.009	0	%100
4	FF-H2	Y	-0.009	-0.009	0	%100
5	SF1-H2	Y	-0.009	-0.009	0	%100
6	SF2-H2	Y	-0.009	-0.009	0	%100
7	FF-SR	Y	-0.01	-0.01	0	%100
8	SF1-SR	Y	-0.01	-0.01	0	%100
9	SF2-SR	Y	-0.01	-0.01	0	%100
10	HRB-1	Y	-0.01	-0.01	0	%100
11	HRB-2	Y	-0.01	-0.01	0	%100
12	HRB-3	Y	-0.01	-0.01	0	%100
13	GSOP1	Y	-0.009	-0.009	0	%100
14	GSOP2	Y	-0.009	-0.009	0	%100
15	GSOP3	Y	-0.009	-0.009	0	%100
16	GSC1	Y	-0.009	-0.009	0	%100
17	GSC2	Y	-0.009	-0.009	0	%100
18	GSC3	Y	-0.009	-0.009	0	%100
19	K1	Y	-0.007	-0.007	0	%100
20	K2	Y	-0.007	-0.007	0	%100
21	K3	Y	-0.007	-0.007	0	%100
22	MP-1	Y	-0.011	-0.011	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
23	MP-2	Y	-0.11	-0.11	0 %100
24	MP-3	Y	-0.11	-0.11	0 %100
25	MP-4	Y	-0.11	-0.11	0 %100
26	MP-5	Y	-0.11	-0.11	0 %100
27	MP-6	Y	-0.11	-0.11	0 %100
28	MP-7	Y	-0.11	-0.11	0 %100
29	MP-8	Y	-0.11	-0.11	0 %100
30	MP-9	Y	-0.11	-0.11	0 %100
31	MP-10	Y	-0.11	-0.11	0 %100
32	MP-11	Y	-0.11	-0.11	0 %100
33	MP-12	Y	-0.11	-0.11	0 %100
34	MP-13	Y	-0.11	-0.11	0 %100
35	MP-14	Y	-0.11	-0.11	0 %100
36	MP-15	Y	-0.11	-0.11	0 %100
37	SA1	Y	-0.13	-0.13	0 %100
38	SA2	Y	-0.13	-0.13	0 %100
39	SA3	Y	-0.13	-0.13	0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	-0.06	-0.06	0 %100
2	CP-2	X	-0.06	-0.06	0 %100
3	CP-3	X	-0.06	-0.06	0 %100
4	FF-H2	X	-0.09	-0.09	0 %100
5	SF1-H2	X	-0.07	-0.07	0 %100
6	SF2-H2	X	-0.07	-0.07	0 %100
7	FF-SR	X	-0.05	-0.05	0 %100
8	SF1-SR	X	-0.04	-0.04	0 %100
9	SF2-SR	X	-0.04	-0.04	0 %100
10	HRB-1	X	-0.03	-0.03	0 %100
11	HRB-2	X	-0.03	-0.03	0 %100
12	HRB-3	X	-0.04	-0.04	0 %100
13	GSOP1	X	-0.07	-0.07	0 %100
14	GSOP2	X	-0.06	-0.06	0 %100
15	GSOP3	X	-0.06	-0.06	0 %100
16	GSC1	X	-0.06	-0.06	0 %100
17	GSC2	X	-0.06	-0.06	0 %100
18	GSC3	X	-0.06	-0.06	0 %100
19	K1	X	-0.06	-0.06	0 %100
20	K2	X	-0.06	-0.06	0 %100
21	K3	X	-0.06	-0.06	0 %100
22	MP-1	X	-0.04	-0.04	0 %100
23	MP-2	X	-0.04	-0.04	0 %100
24	MP-3	X	-0.04	-0.04	0 %100
25	MP-4	X	-0.04	-0.04	0 %100
26	MP-5	X	-0.04	-0.04	0 %100
27	MP-6	X	-0.04	-0.04	0 %100
28	MP-7	X	-0.04	-0.04	0 %100
29	MP-8	X	-0.04	-0.04	0 %100
30	MP-9	X	-0.04	-0.04	0 %100
31	MP-10	X	-0.04	-0.04	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
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Member Distributed Loads (BLC 19 : 0 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
32	MP-11	X	-0.04	-0.04	0 %100
33	MP-12	X	-0.04	-0.04	0 %100
34	MP-13	X	-0.03	-0.03	0 %100
35	MP-14	X	-0.03	-0.03	0 %100
36	MP-15	X	-0.03	-0.03	0 %100
37	SA1	X	-0.07	-0.07	0 %100
38	SA2	X	-0.07	-0.07	0 %100
39	SA3	X	-0.07	-0.07	0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	-0.05	-0.05	0 %100
2	CP-2	X	0	0	0 %100
3	CP-3	X	-0.05	-0.05	0 %100
4	FF-H2	X	-0.07	-0.07	0 %100
5	SF1-H2	X	-0.05	-0.05	0 %100
6	SF2-H2	X	0	0	0 %100
7	FF-SR	X	-0.04	-0.04	0 %100
8	SF1-SR	X	-0.03	-0.03	0 %100
9	SF2-SR	X	0	0	0 %100
10	HRB-1	X	-0.02	-0.02	0 %100
11	HRB-2	X	0	0	0 %100
12	HRB-3	X	-0.03	-0.03	0 %100
13	GSOP1	X	-0.05	-0.05	0 %100
14	GSOP2	X	-0.05	-0.05	0 %100
15	GSOP3	X	0	0	0 %100
16	GSC1	X	-0.03	-0.03	0 %100
17	GSC2	X	-0.06	-0.06	0 %100
18	GSC3	X	-0.02	-0.02	0 %100
19	K1	X	-0.05	-0.05	0 %100
20	K2	X	-0.05	-0.05	0 %100
21	K3	X	-0.05	-0.05	0 %100
22	MP-1	X	-0.03	-0.03	0 %100
23	MP-2	X	-0.03	-0.03	0 %100
24	MP-3	X	-0.03	-0.03	0 %100
25	MP-4	X	-0.03	-0.03	0 %100
26	MP-5	X	-0.03	-0.03	0 %100
27	MP-6	X	-0.03	-0.03	0 %100
28	MP-7	X	-0.03	-0.03	0 %100
29	MP-8	X	-0.03	-0.03	0 %100
30	MP-9	X	-0.03	-0.03	0 %100
31	MP-10	X	-0.03	-0.03	0 %100
32	MP-11	X	-0.03	-0.03	0 %100
33	MP-12	X	-0.03	-0.03	0 %100
34	MP-13	X	-0.03	-0.03	0 %100
35	MP-14	X	-0.03	-0.03	0 %100
36	MP-15	X	-0.03	-0.03	0 %100
37	SA1	X	-0.03	-0.03	0 %100
38	SA2	X	-0.03	-0.03	0 %100
39	SA3	X	-0.06	-0.06	0 %100
40	CP-1	Z	-0.03	-0.03	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666-406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)		
41	CP-2	Z	0	0	%100	
42	CP-3	Z	-0.003	-0.003	0	%100
43	FF-H2	Z	-0.003	-0.003	0	%100
44	SF1-H2	Z	-0.004	-0.004	0	%100
45	SF2-H2	Z	0	0	0	%100
46	FF-SR	Z	-0.002	-0.002	0	%100
47	SF1-SR	Z	-0.002	-0.002	0	%100
48	SF2-SR	Z	0	0	0	%100
49	HRB-1	Z	-0.002	-0.002	0	%100
50	HRB-2	Z	0	0	0	%100
51	HRB-3	Z	-0.001	-0.001	0	%100
52	GSOP1	Z	-0.003	-0.003	0	%100
53	GSOP2	Z	-0.003	-0.003	0	%100
54	GSOP3	Z	0	0	0	%100
55	GSC1	Z	-0.001	-0.001	0	%100
56	GSC2	Z	-0.003	-0.003	0	%100
57	GSC3	Z	-0.002	-0.002	0	%100
58	K1	Z	-0.004	-0.004	0	%100
59	K2	Z	-0.004	-0.004	0	%100
60	K3	Z	-0.004	-0.004	0	%100
61	MP-1	Z	-0.002	-0.002	0	%100
62	MP-2	Z	-0.002	-0.002	0	%100
63	MP-3	Z	-0.002	-0.002	0	%100
64	MP-4	Z	-0.002	-0.002	0	%100
65	MP-5	Z	-0.002	-0.002	0	%100
66	MP-6	Z	-0.002	-0.002	0	%100
67	MP-7	Z	-0.002	-0.002	0	%100
68	MP-8	Z	-0.002	-0.002	0	%100
69	MP-9	Z	-0.002	-0.002	0	%100
70	MP-10	Z	-0.002	-0.002	0	%100
71	MP-11	Z	-0.002	-0.002	0	%100
72	MP-12	Z	-0.002	-0.002	0	%100
73	MP-13	Z	-0.002	-0.002	0	%100
74	MP-14	Z	-0.002	-0.002	0	%100
75	MP-15	Z	-0.002	-0.002	0	%100
76	SA1	Z	-0.002	-0.002	0	%100
77	SA2	Z	-0.002	-0.002	0	%100
78	SA3	Z	-0.003	-0.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)		
1	CP-1	X	-0.004	-0.004	0	%100
2	CP-2	X	-0.001	-0.001	0	%100
3	CP-3	X	-0.003	-0.003	0	%100
4	FF-H2	X	-0.004	-0.004	0	%100
5	SF1-H2	X	-0.005	-0.005	0	%100
6	SF2-H2	X	-0.001	-0.001	0	%100
7	FF-SR	X	-0.003	-0.003	0	%100
8	SF1-SR	X	-0.003	-0.003	0	%100
9	SF2-SR	X	-0.00747	-0.00747	0	%100
10	HRB-1	X	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666-406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)		
11	HRB-2	X	-0.00593	-0.00593	0	%100
12	HRB-3	X	-0.002	-0.002	0	%100
13	GSOP1	X	-0.004	-0.004	0	%100
14	GSOP2	X	-0.004	-0.004	0	%100
15	GSOP3	X	-0.001	-0.001	0	%100
16	GSC1	X	-0.001	-0.001	0	%100
17	GSC2	X	-0.004	-0.004	0	%100
18	GSC3	X	-0.003	-0.003	0	%100
19	K1	X	-0.004	-0.004	0	%100
20	K2	X	-0.004	-0.004	0	%100
21	K3	X	-0.004	-0.004	0	%100
22	MP-1	X	-0.003	-0.003	0	%100
23	MP-2	X	-0.003	-0.003	0	%100
24	MP-3	X	-0.003	-0.003	0	%100
25	MP-4	X	-0.003	-0.003	0	%100
26	MP-5	X	-0.003	-0.003	0	%100
27	MP-6	X	-0.003	-0.003	0	%100
28	MP-7	X	-0.003	-0.003	0	%100
29	MP-8	X	-0.003	-0.003	0	%100
30	MP-9	X	-0.003	-0.003	0	%100
31	MP-10	X	-0.003	-0.003	0	%100
32	MP-11	X	-0.003	-0.003	0	%100
33	MP-12	X	-0.003	-0.003	0	%100
34	MP-13	X	-0.002	-0.002	0	%100
35	MP-14	X	-0.002	-0.002	0	%100
36	MP-15	X	-0.002	-0.002	0	%100
37	SA1	X	-0.003	-0.003	0	%100
38	SA2	X	-0.001	-0.001	0	%100
39	SA3	X	-0.005	-0.005	0	%100
40	CP-1	Z	-0.004	-0.004	0	%100
41	CP-2	Z	-0.001	-0.001	0	%100
42	CP-3	Z	-0.003	-0.003	0	%100
43	FF-H2	Z	-0.004	-0.004	0	%100
44	SF1-H2	Z	-0.006	-0.006	0	%100
45	SF2-H2	Z	-0.002	-0.002	0	%100
46	FF-SR	Z	-0.002	-0.002	0	%100
47	SF1-SR	Z	-0.003	-0.003	0	%100
48	SF2-SR	Z	-0.00913	-0.00913	0	%100
49	HRB-1	Z	-0.002	-0.002	0	%100
50	HRB-2	Z	-0.00664	-0.00664	0	%100
51	HRB-3	Z	-0.002	-0.002	0	%100
52	GSOP1	Z	-0.003	-0.003	0	%100
53	GSOP2	Z	-0.005	-0.005	0	%100
54	GSOP3	Z	-0.001	-0.001	0	%100
55	GSC1	Z	-0.001	-0.001	0	%100
56	GSC2	Z	-0.004	-0.004	0	%100
57	GSC3	Z	-0.003	-0.003	0	%100
58	K1	Z	-0.005	-0.005	0	%100
59	K2	Z	-0.005	-0.005	0	%100
60	K3	Z	-0.005	-0.005	0	%100
61	MP-1	Z	-0.003	-0.003	0	%100
62	MP-2	Z	-0.003	-0.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
63	MP-3	Z	-0.03	-0.03	0 %100
64	MP-4	Z	-0.03	-0.03	0 %100
65	MP-5	Z	-0.03	-0.03	0 %100
66	MP-6	Z	-0.03	-0.03	0 %100
67	MP-7	Z	-0.03	-0.03	0 %100
68	MP-8	Z	-0.03	-0.03	0 %100
69	MP-9	Z	-0.03	-0.03	0 %100
70	MP-10	Z	-0.03	-0.03	0 %100
71	MP-11	Z	-0.03	-0.03	0 %100
72	MP-12	Z	-0.03	-0.03	0 %100
73	MP-13	Z	-0.02	-0.02	0 %100
74	MP-14	Z	-0.02	-0.02	0 %100
75	MP-15	Z	-0.02	-0.02	0 %100
76	SA1	Z	-0.04	-0.04	0 %100
77	SA2	Z	-0.01	-0.01	0 %100
78	SA3	Z	-0.05	-0.05	0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	-0.03	-0.03	0 %100
2	CP-2	X	-0.02	-0.02	0 %100
3	CP-3	X	-0.02	-0.02	0 %100
4	FF-H2	X	-0.02	-0.02	0 %100
5	SF1-H2	X	-0.04	-0.04	0 %100
6	SF2-H2	X	-0.02	-0.02	0 %100
7	FF-SR	X	-0.01	-0.01	0 %100
8	SF1-SR	X	-0.02	-0.02	0 %100
9	SF2-SR	X	-0.01	-0.01	0 %100
10	HRB-1	X	-0.02	-0.02	0 %100
11	HRB-2	X	-0.00809	-0.00809	0 %100
12	HRB-3	X	-0.00943	-0.00943	0 %100
13	GSOP1	X	-0.02	-0.02	0 %100
14	GSOP2	X	-0.03	-0.03	0 %100
15	GSOP3	X	-0.02	-0.02	0 %100
16	GSC1	X	0	0	0 %100
17	GSC2	X	-0.03	-0.03	0 %100
18	GSC3	X	-0.02	-0.02	0 %100
19	K1	X	-0.03	-0.03	0 %100
20	K2	X	-0.03	-0.03	0 %100
21	K3	X	-0.03	-0.03	0 %100
22	MP-1	X	-0.02	-0.02	0 %100
23	MP-2	X	-0.02	-0.02	0 %100
24	MP-3	X	-0.02	-0.02	0 %100
25	MP-4	X	-0.02	-0.02	0 %100
26	MP-5	X	-0.02	-0.02	0 %100
27	MP-6	X	-0.02	-0.02	0 %100
28	MP-7	X	-0.02	-0.02	0 %100
29	MP-8	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



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
33	MP-12	X	-0.02	-0.02	0 %100
34	MP-13	X	-0.02	-0.02	0 %100
35	MP-14	X	-0.02	-0.02	0 %100
36	MP-15	X	-0.02	-0.02	0 %100
37	SA1	X	-0.03	-0.03	0 %100
38	SA2	X	0	0	0 %100
39	SA3	X	-0.03	-0.03	0 %100
40	CP-1	Z	-0.06	-0.06	0 %100
41	CP-2	Z	-0.03	-0.03	0 %100
42	CP-3	Z	-0.03	-0.03	0 %100
43	FF-H2	Z	-0.03	-0.03	0 %100
44	SF1-H2	Z	-0.07	-0.07	0 %100
45	SF2-H2	Z	-0.04	-0.04	0 %100
46	FF-SR	Z	-0.02	-0.02	0 %100
47	SF1-SR	Z	-0.04	-0.04	0 %100
48	SF2-SR	Z	-0.02	-0.02	0 %100
49	HRB-1	Z	-0.03	-0.03	0 %100
50	HRB-2	Z	-0.02	-0.02	0 %100
51	HRB-3	Z	-0.01	-0.01	0 %100
52	GSOP1	Z	-0.03	-0.03	0 %100
53	GSOP2	Z	-0.06	-0.06	0 %100
54	GSOP3	Z	-0.03	-0.03	0 %100
55	GSC1	Z	0	0	0 %100
56	GSC2	Z	-0.04	-0.04	0 %100
57	GSC3	Z	-0.05	-0.05	0 %100
58	K1	Z	-0.06	-0.06	0 %100
59	K2	Z	-0.06	-0.06	0 %100
60	K3	Z	-0.06	-0.06	0 %100
61	MP-1	Z	-0.04	-0.04	0 %100
62	MP-2	Z	-0.04	-0.04	0 %100
63	MP-3	Z	-0.04	-0.04	0 %100
64	MP-4	Z	-0.04	-0.04	0 %100
65	MP-5	Z	-0.04	-0.04	0 %100
66	MP-6	Z	-0.04	-0.04	0 %100
67	MP-7	Z	-0.04	-0.04	0 %100
68	MP-8	Z	-0.04	-0.04	0 %100
69	MP-9	Z	-0.04	-0.04	0 %100
70	MP-10	Z	-0.04	-0.04	0 %100
71	MP-11	Z	-0.04	-0.04	0 %100
72	MP-12	Z	-0.04	-0.04	0 %100
73	MP-13	Z	-0.03	-0.03	0 %100
74	MP-14	Z	-0.03	-0.03	0 %100
75	MP-15	Z	-0.03	-0.03	0 %100
76	SA1	Z	-0.05	-0.05	0 %100
77	SA2	Z	0	0	0 %100
78	SA3	Z	-0.05	-0.05	0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
1	CP-1	Z	-0.06	-0.06	0 %100
2	CP-2	Z	-0.06	-0.06	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F,ksf]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)		
3	CP-3	Z	0	0	%100	
4	FF-H2	Z	0	0	%100	
5	SF1-H2	Z	-0.07	-0.07	0	%100
6	SF2-H2	Z	-0.07	-0.07	0	%100
7	FF-SR	Z	0	0	%100	
8	SF1-SR	Z	-0.04	-0.04	0	%100
9	SF2-SR	Z	-0.04	-0.04	0	%100
10	HRB-1	Z	-0.03	-0.03	0	%100
11	HRB-2	Z	-0.03	-0.03	0	%100
12	HRB-3	Z	0	0	%100	
13	GSOP1	Z	0	0	%100	
14	GSOP2	Z	-0.06	-0.06	0	%100
15	GSOP3	Z	-0.06	-0.06	0	%100
16	GSC1	Z	-0.03	-0.03	0	%100
17	GSC2	Z	-0.03	-0.03	0	%100
18	GSC3	Z	-0.07	-0.07	0	%100
19	K1	Z	-0.07	-0.07	0	%100
20	K2	Z	-0.07	-0.07	0	%100
21	K3	Z	-0.07	-0.07	0	%100
22	MP-1	Z	-0.04	-0.04	0	%100
23	MP-2	Z	-0.04	-0.04	0	%100
24	MP-3	Z	-0.04	-0.04	0	%100
25	MP-4	Z	-0.04	-0.04	0	%100
26	MP-5	Z	-0.04	-0.04	0	%100
27	MP-6	Z	-0.04	-0.04	0	%100
28	MP-7	Z	-0.04	-0.04	0	%100
29	MP-8	Z	-0.04	-0.04	0	%100
30	MP-9	Z	-0.04	-0.04	0	%100
31	MP-10	Z	-0.04	-0.04	0	%100
32	MP-11	Z	-0.04	-0.04	0	%100
33	MP-12	Z	-0.04	-0.04	0	%100
34	MP-13	Z	-0.04	-0.04	0	%100
35	MP-14	Z	-0.04	-0.04	0	%100
36	MP-15	Z	-0.04	-0.04	0	%100
37	SA1	Z	-0.07	-0.07	0	%100
38	SA2	Z	-0.03	-0.03	0	%100
39	SA3	Z	-0.03	-0.03	0	%100

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

Member Label	Direction	Start Magnitude[k/ft, F,ksf]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)		
1	CP-1	X	0.02	0.02	0	%100
2	CP-2	X	0.03	0.03	0	%100
3	CP-3	X	0.02	0.02	0	%100
4	FF-H2	X	0.02	0.02	0	%100
5	SF1-H2	X	0.02	0.02	0	%100
6	SF2-H2	X	0.04	0.04	0	%100
7	FF-SR	X	0.01	0.01	0	%100
8	SF1-SR	X	0.01	0.01	0	%100
9	SF2-SR	X	0.02	0.02	0	%100
10	HRB-1	X	0.00809	0.00809	0	%100
11	HRB-2	X	0.02	0.02	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F,ksf]	End Magnitude[k/ft, Start Location(ft, %)	End Location(ft, %)		
12	HRB-3	X	0.00943	0.00943	0	%100
13	GSOP1	X	0.02	0.02	0	%100
14	GSOP2	X	0.02	0.02	0	%100
15	GSOP3	X	0.03	0.03	0	%100
16	GSC1	X	0.03	0.03	0	%100
17	GSC2	X	0	0	%100	
18	GSC3	X	0.02	0.02	0	%100
19	K1	X	0.03	0.03	0	%100
20	K2	X	0.03	0.03	0	%100
21	K3	X	0.03	0.03	0	%100
22	MP-1	X	0.02	0.02	0	%100
23	MP-2	X	0.02	0.02	0	%100
24	MP-3	X	0.02	0.02	0	%100
25	MP-4	X	0.02	0.02	0	%100
26	MP-5	X	0.02	0.02	0	%100
27	MP-6	X	0.02	0.02	0	%100
28	MP-7	X	0.02	0.02	0	%100
29	MP-8	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	MP-13	X	0.02	0.02	0	%100
35	MP-14	X	0.02	0.02	0	%100
36	MP-15	X	0.02	0.02	0	%100
37	SA1	X	0.03	0.03	0	%100
38	SA2	X	0.03	0.03	0	%100
39	SA3	X	0	0	0	%100
40	CP-1	Z	-0.03	-0.03	0	%100
41	CP-2	Z	-0.06	-0.06	0	%100
42	CP-3	Z	-0.03	-0.03	0	%100
43	FF-H2	Z	-0.03	-0.03	0	%100
44	SF1-H2	Z	-0.04	-0.04	0	%100
45	SF2-H2	Z	-0.07	-0.07	0	%100
46	FF-SR	Z	-0.02	-0.02	0	%100
47	SF1-SR	Z	-0.02	-0.02	0	%100
48	SF2-SR	Z	-0.04	-0.04	0	%100
49	HRB-1	Z	-0.02	-0.02	0	%100
50	HRB-2	Z	-0.03	-0.03	0	%100
51	HRB-3	Z	-0.01	-0.01	0	%100
52	GSOP1	Z	-0.03	-0.03	0	%100
53	GSOP2	Z	-0.03	-0.03	0	%100
54	GSOP3	Z	-0.06	-0.06	0	%100
55	GSC1	Z	-0.04	-0.04	0	%100
56	GSC2	Z	0	0	%100	
57	GSC3	Z	-0.05	-0.05	0	%100
58	K1	Z	-0.06	-0.06	0	%100
59	K2	Z	-0.06	-0.06	0	%100
60	K3	Z	-0.06	-0.06	0	%100
61	MP-1	Z	-0.04	-0.04	0	%100
62	MP-2	Z	-0.04	-0.04	0	%100
63	MP-3	Z	-0.04	-0.04	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
64	MP-4	Z	-0.04	-0.04 0 %100
65	MP-5	Z	-0.04	-0.04 0 %100
66	MP-6	Z	-0.04	-0.04 0 %100
67	MP-7	Z	-0.04	-0.04 0 %100
68	MP-8	Z	-0.04	-0.04 0 %100
69	MP-9	Z	-0.04	-0.04 0 %100
70	MP-10	Z	-0.04	-0.04 0 %100
71	MP-11	Z	-0.04	-0.04 0 %100
72	MP-12	Z	-0.04	-0.04 0 %100
73	MP-13	Z	-0.03	-0.03 0 %100
74	MP-14	Z	-0.03	-0.03 0 %100
75	MP-15	Z	-0.03	-0.03 0 %100
76	SA1	Z	-0.05	-0.05 0 %100
77	SA2	Z	-0.05	-0.05 0 %100
78	SA3	Z	0	0 %100

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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	.001	.001 0 %100
2	CP-2	X	.004	.004 0 %100
3	CP-3	X	.003	.003 0 %100
4	FF-H2	X	.004	.004 0 %100
5	SF1-H2	X	.001	.001 0 %100
6	SF2-H2	X	.005	.005 0 %100
7	FF-SR	X	.003	.003 0 %100
8	SF1-SR	X	.000747	.000747 0 %100
9	SF2-SR	X	.003	.003 0 %100
10	HRB-1	X	.000593	.000593 0 %100
11	HRB-2	X	.002	.002 0 %100
12	HRB-3	X	.002	.002 0 %100
13	GSOP1	X	.004	.004 0 %100
14	GSOP2	X	.001	.001 0 %100
15	GSOP3	X	.004	.004 0 %100
16	GSC1	X	.004	.004 0 %100
17	GSC2	X	.001	.001 0 %100
18	GSC3	X	.003	.003 0 %100
19	K1	X	.004	.004 0 %100
20	K2	X	.004	.004 0 %100
21	K3	X	.004	.004 0 %100
22	MP-1	X	.003	.003 0 %100
23	MP-2	X	.003	.003 0 %100
24	MP-3	X	.003	.003 0 %100
25	MP-4	X	.003	.003 0 %100
26	MP-5	X	.003	.003 0 %100
27	MP-6	X	.003	.003 0 %100
28	MP-7	X	.003	.003 0 %100
29	MP-8	X	.003	.003 0 %100
30	MP-9	X	.003	.003 0 %100
31	MP-10	X	.003	.003 0 %100
32	MP-11	X	.003	.003 0 %100
33	MP-12	X	.003	.003 0 %100



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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
34	MP-13	X	.002	.002 0 %100
35	MP-14	X	.002	.002 0 %100
36	MP-15	X	.002	.002 0 %100
37	SA1	X	.003	.003 0 %100
38	SA2	X	.005	.005 0 %100
39	SA3	X	.001	.001 0 %100
40	CP-1	Z	-.001	-.001 0 %100
41	CP-2	Z	-.004	-.004 0 %100
42	CP-3	Z	-.003	-.003 0 %100
43	FF-H2	Z	-.004	-.004 0 %100
44	SF1-H2	Z	-.002	-.002 0 %100
45	SF2-H2	Z	-.006	-.006 0 %100
46	FF-SR	Z	-.002	-.002 0 %100
47	SF1-SR	Z	-.000913	-.000913 0 %100
48	SF2-SR	Z	-.003	-.003 0 %100
49	HRB-1	Z	-.000664	-.000664 0 %100
50	HRB-2	Z	-.002	-.002 0 %100
51	HRB-3	Z	-.002	-.002 0 %100
52	GSOP1	Z	-.003	-.003 0 %100
53	GSOP2	Z	-.001	-.001 0 %100
54	GSOP3	Z	-.005	-.005 0 %100
55	GSC1	Z	-.004	-.004 0 %100
56	GSC2	Z	-.001	-.001 0 %100
57	GSC3	Z	-.003	-.003 0 %100
58	K1	Z	-.005	-.005 0 %100
59	K2	Z	-.005	-.005 0 %100
60	K3	Z	-.005	-.005 0 %100
61	MP-1	Z	-.003	-.003 0 %100
62	MP-2	Z	-.003	-.003 0 %100
63	MP-3	Z	-.003	-.003 0 %100
64	MP-4	Z	-.003	-.003 0 %100
65	MP-5	Z	-.003	-.003 0 %100
66	MP-6	Z	-.003	-.003 0 %100
67	MP-7	Z	-.003	-.003 0 %100
68	MP-8	Z	-.003	-.003 0 %100
69	MP-9	Z	-.003	-.003 0 %100
70	MP-10	Z	-.003	-.003 0 %100
71	MP-11	Z	-.003	-.003 0 %100
72	MP-12	Z	-.003	-.003 0 %100
73	MP-13	Z	-.002	-.002 0 %100
74	MP-14	Z	-.002	-.002 0 %100
75	MP-15	Z	-.002	-.002 0 %100
76	SA1	Z	-.004	-.004 0 %100
77	SA2	Z	-.005	-.005 0 %100
78	SA3	Z	-.001	-.001 0 %100

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

Member Label	Direction	Start Magnitude(k/ft, F, ksf)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	0	0 0 %100
2	CP-2	X	.005	.005 0 %100
3	CP-3	X	.005	.005 0 %100



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

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft., Start Location(ft.%)	End Location(ft.%)
4	FF-H2	X	.007	.007 0 %100
5	SF1-H2	X	0	0 %100
6	SF2-H2	X	.005	.005 0 %100
7	FF-SR	X	.004	.004 0 %100
8	SF1-SR	X	0	0 %100
9	SF2-SR	X	.003	.003 0 %100
10	HRB-1	X	0	0 %100
11	HRB-2	X	.002	.002 0 %100
12	HRB-3	X	.003	.003 0 %100
13	GSOP1	X	.005	.005 0 %100
14	GSOP2	X	0	0 %100
15	GSOP3	X	.005	.005 0 %100
16	GSC1	X	.006	.006 0 %100
17	GSC2	X	.003	.003 0 %100
18	GSC3	X	.002	.002 0 %100
19	K1	X	.005	.005 0 %100
20	K2	X	.005	.005 0 %100
21	K3	X	.005	.005 0 %100
22	MP-1	X	.003	.003 0 %100
23	MP-2	X	.003	.003 0 %100
24	MP-3	X	.003	.003 0 %100
25	MP-4	X	.003	.003 0 %100
26	MP-5	X	.003	.003 0 %100
27	MP-6	X	.003	.003 0 %100
28	MP-7	X	.003	.003 0 %100
29	MP-8	X	.003	.003 0 %100
30	MP-9	X	.003	.003 0 %100
31	MP-10	X	.003	.003 0 %100
32	MP-11	X	.003	.003 0 %100
33	MP-12	X	.003	.003 0 %100
34	MP-13	X	.003	.003 0 %100
35	MP-14	X	.003	.003 0 %100
36	MP-15	X	.003	.003 0 %100
37	SA1	X	.003	.003 0 %100
38	SA2	X	.006	.006 0 %100
39	SA3	X	.003	.003 0 %100
40	CP-1	Z	0	0 %100
41	CP-2	Z	-.003	-.003 0 %100
42	CP-3	Z	-.003	-.003 0 %100
43	FF-H2	Z	-.003	-.003 0 %100
44	SF1-H2	Z	0	0 %100
45	SF2-H2	Z	-.004	-.004 0 %100
46	FF-SR	Z	-.002	-.002 0 %100
47	SF1-SR	Z	0	0 %100
48	SF2-SR	Z	-.002	-.002 0 %100
49	HRB-1	Z	0	0 %100
50	HRB-2	Z	-.002	-.002 0 %100
51	HRB-3	Z	-.001	-.001 0 %100
52	GSOP1	Z	-.003	-.003 0 %100
53	GSOP2	Z	0	0 %100
54	GSOP3	Z	-.003	-.003 0 %100
55	GSC1	Z	-.003	-.003 0 %100



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

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft., Start Location(ft.%)	End Location(ft.%)
56	GSC2	Z	-.001	-.001 0 %100
57	GSC3	Z	-.002	-.002 0 %100
58	K1	Z	-.004	-.004 0 %100
59	K2	Z	-.004	-.004 0 %100
60	K3	Z	-.004	-.004 0 %100
61	MP-1	Z	-.002	-.002 0 %100
62	MP-2	Z	-.002	-.002 0 %100
63	MP-3	Z	-.002	-.002 0 %100
64	MP-4	Z	-.002	-.002 0 %100
65	MP-5	Z	-.002	-.002 0 %100
66	MP-6	Z	-.002	-.002 0 %100
67	MP-7	Z	-.002	-.002 0 %100
68	MP-8	Z	-.002	-.002 0 %100
69	MP-9	Z	-.002	-.002 0 %100
70	MP-10	Z	-.002	-.002 0 %100
71	MP-11	Z	-.002	-.002 0 %100
72	MP-12	Z	-.002	-.002 0 %100
73	MP-13	Z	-.002	-.002 0 %100
74	MP-14	Z	-.002	-.002 0 %100
75	MP-15	Z	-.002	-.002 0 %100
76	SA1	Z	-.002	-.002 0 %100
77	SA2	Z	-.003	-.003 0 %100
78	SA3	Z	-.002	-.002 0 %100

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

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft., Start Location(ft.%)	End Location(ft.%)
1	CP-1	X	.006	.006 0 %100
2	CP-2	X	.006	.006 0 %100
3	CP-3	X	.006	.006 0 %100
4	FF-H2	X	.009	.009 0 %100
5	SF1-H2	X	.007	.007 0 %100
6	SF2-H2	X	.007	.007 0 %100
7	FF-SR	X	.005	.005 0 %100
8	SF1-SR	X	.004	.004 0 %100
9	SF2-SR	X	.004	.004 0 %100
10	HRB-1	X	.003	.003 0 %100
11	HRB-2	X	.003	.003 0 %100
12	HRB-3	X	.004	.004 0 %100
13	GSOP1	X	.007	.007 0 %100
14	GSOP2	X	.006	.006 0 %100
15	GSOP3	X	.006	.006 0 %100
16	GSC1	X	.006	.006 0 %100
17	GSC2	X	.006	.006 0 %100
18	GSC3	X	.006	.006 0 %100
19	K1	X	.006	.006 0 %100
20	K2	X	.006	.006 0 %100
21	K3	X	.006	.006 0 %100
22	MP-1	X	.004	.004 0 %100
23	MP-2	X	.004	.004 0 %100
24	MP-3	X	.004	.004 0 %100
25	MP-4	X	.004	.004 0 %100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 27 : 180 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
26	MP-5	X	.004	.004	0 %100
27	MP-6	X	.004	.004	0 %100
28	MP-7	X	.004	.004	0 %100
29	MP-8	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	MP-13	X	.003	.003	0 %100
35	MP-14	X	.003	.003	0 %100
36	MP-15	X	.003	.003	0 %100
37	SA1	X	.007	.007	0 %100
38	SA2	X	.007	.007	0 %100
39	SA3	X	.007	.007	0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	.005	.005	0 %100
2	CP-2	X	0	0	0 %100
3	CP-3	X	.005	.005	0 %100
4	FF-H2	X	.007	.007	0 %100
5	SF1-H2	X	.005	.005	0 %100
6	SF2-H2	X	0	0	0 %100
7	FF-SR	X	.004	.004	0 %100
8	SF1-SR	X	.003	.003	0 %100
9	SF2-SR	X	0	0	0 %100
10	HRB-1	X	.002	.002	0 %100
11	HRB-2	X	0	0	0 %100
12	HRB-3	X	.003	.003	0 %100
13	GSOP1	X	.005	.005	0 %100
14	GSOP2	X	.005	.005	0 %100
15	GSOP3	X	0	0	0 %100
16	GSC1	X	.003	.003	0 %100
17	GSC2	X	.006	.006	0 %100
18	GSC3	X	.002	.002	0 %100
19	K1	X	.005	.005	0 %100
20	K2	X	.005	.005	0 %100
21	K3	X	.005	.005	0 %100
22	MP-1	X	.003	.003	0 %100
23	MP-2	X	.003	.003	0 %100
24	MP-3	X	.003	.003	0 %100
25	MP-4	X	.003	.003	0 %100
26	MP-5	X	.003	.003	0 %100
27	MP-6	X	.003	.003	0 %100
28	MP-7	X	.003	.003	0 %100
29	MP-8	X	.003	.003	0 %100
30	MP-9	X	.003	.003	0 %100
31	MP-10	X	.003	.003	0 %100
32	MP-11	X	.003	.003	0 %100
33	MP-12	X	.003	.003	0 %100
34	MP-13	X	.003	.003	0 %100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 28 : 210 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
35	MP-14	X	.003	.003	0 %100
36	MP-15	X	.003	.003	0 %100
37	SA1	X	.003	.003	0 %100
38	SA2	X	.003	.003	0 %100
39	SA3	X	.006	.006	0 %100
40	CP-1	Z	.003	.003	0 %100
41	CP-2	Z	0	0	0 %100
42	CP-3	Z	.003	.003	0 %100
43	FF-H2	Z	.003	.003	0 %100
44	SF1-H2	Z	.004	.004	0 %100
45	SF2-H2	Z	0	0	0 %100
46	FF-SR	Z	.002	.002	0 %100
47	SF1-SR	Z	.002	.002	0 %100
48	SF2-SR	Z	0	0	0 %100
49	HRB-1	Z	.002	.002	0 %100
50	HRB-2	Z	0	0	0 %100
51	HRB-3	Z	.001	.001	0 %100
52	GSOP1	Z	.003	.003	0 %100
53	GSOP2	Z	.003	.003	0 %100
54	GSOP3	Z	0	0	0 %100
55	GSC1	Z	.001	.001	0 %100
56	GSC2	Z	.003	.003	0 %100
57	GSC3	Z	.002	.002	0 %100
58	K1	Z	.004	.004	0 %100
59	K2	Z	.004	.004	0 %100
60	K3	Z	.004	.004	0 %100
61	MP-1	Z	.002	.002	0 %100
62	MP-2	Z	.002	.002	0 %100
63	MP-3	Z	.002	.002	0 %100
64	MP-4	Z	.002	.002	0 %100
65	MP-5	Z	.002	.002	0 %100
66	MP-6	Z	.002	.002	0 %100
67	MP-7	Z	.002	.002	0 %100
68	MP-8	Z	.002	.002	0 %100
69	MP-9	Z	.002	.002	0 %100
70	MP-10	Z	.002	.002	0 %100
71	MP-11	Z	.002	.002	0 %100
72	MP-12	Z	.002	.002	0 %100
73	MP-13	Z	.002	.002	0 %100
74	MP-14	Z	.002	.002	0 %100
75	MP-15	Z	.002	.002	0 %100
76	SA1	Z	.002	.002	0 %100
77	SA2	Z	.002	.002	0 %100
78	SA3	Z	.003	.003	0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	.004	.004	0 %100
2	CP-2	X	.001	.001	0 %100
3	CP-3	X	.003	.003	0 %100
4	FF-H2	X	.004	.004	0 %100



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

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft.F,ksf)	Start Location(ft.%)	End Location(ft.%)
5	SF1-H2	X	.005	.005	0 %100
6	SF2-H2	X	.001	.001	0 %100
7	FF-SR	X	.003	.003	0 %100
8	SF1-SR	X	.003	.003	0 %100
9	SF2-SR	X	.000747	.000747	0 %100
10	HRB-1	X	.002	.002	0 %100
11	HRB-2	X	.000593	.000593	0 %100
12	HRB-3	X	.002	.002	0 %100
13	GSOP1	X	.004	.004	0 %100
14	GSOP2	X	.004	.004	0 %100
15	GSOP3	X	.001	.001	0 %100
16	GSC1	X	.001	.001	0 %100
17	GSC2	X	.004	.004	0 %100
18	GSC3	X	.003	.003	0 %100
19	K1	X	.004	.004	0 %100
20	K2	X	.004	.004	0 %100
21	K3	X	.004	.004	0 %100
22	MP-1	X	.003	.003	0 %100
23	MP-2	X	.003	.003	0 %100
24	MP-3	X	.003	.003	0 %100
25	MP-4	X	.003	.003	0 %100
26	MP-5	X	.003	.003	0 %100
27	MP-6	X	.003	.003	0 %100
28	MP-7	X	.003	.003	0 %100
29	MP-8	X	.003	.003	0 %100
30	MP-9	X	.003	.003	0 %100
31	MP-10	X	.003	.003	0 %100
32	MP-11	X	.003	.003	0 %100
33	MP-12	X	.003	.003	0 %100
34	MP-13	X	.002	.002	0 %100
35	MP-14	X	.002	.002	0 %100
36	MP-15	X	.002	.002	0 %100
37	SA1	X	.003	.003	0 %100
38	SA2	X	.001	.001	0 %100
39	SA3	X	.005	.005	0 %100
40	CP-1	Z	.004	.004	0 %100
41	CP-2	Z	.001	.001	0 %100
42	CP-3	Z	.003	.003	0 %100
43	FF-H2	Z	.004	.004	0 %100
44	SF1-H2	Z	.006	.006	0 %100
45	SF2-H2	Z	.002	.002	0 %100
46	FF-SR	Z	.002	.002	0 %100
47	SF1-SR	Z	.003	.003	0 %100
48	SF2-SR	Z	.000913	.000913	0 %100
49	HRB-1	Z	.002	.002	0 %100
50	HRB-2	Z	.000664	.000664	0 %100
51	HRB-3	Z	.002	.002	0 %100
52	GSOP1	Z	.003	.003	0 %100
53	GSOP2	Z	.005	.005	0 %100
54	GSOP3	Z	.001	.001	0 %100
55	GSC1	Z	.001	.001	0 %100
56	GSC2	Z	.004	.004	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
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Member Distributed Loads (BLC 29 : 225 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft.F,ksf)	Start Location(ft.%)	End Location(ft.%)
57	GSC3	Z	.003	.003	0 %100
58	K1	Z	.005	.005	0 %100
59	K2	Z	.005	.005	0 %100
60	K3	Z	.005	.005	0 %100
61	MP-1	Z	.003	.003	0 %100
62	MP-2	Z	.003	.003	0 %100
63	MP-3	Z	.003	.003	0 %100
64	MP-4	Z	.003	.003	0 %100
65	MP-5	Z	.003	.003	0 %100
66	MP-6	Z	.003	.003	0 %100
67	MP-7	Z	.003	.003	0 %100
68	MP-8	Z	.003	.003	0 %100
69	MP-9	Z	.003	.003	0 %100
70	MP-10	Z	.003	.003	0 %100
71	MP-11	Z	.003	.003	0 %100
72	MP-12	Z	.003	.003	0 %100
73	MP-13	Z	.002	.002	0 %100
74	MP-14	Z	.002	.002	0 %100
75	MP-15	Z	.002	.002	0 %100
76	SA1	Z	.004	.004	0 %100
77	SA2	Z	.001	.001	0 %100
78	SA3	Z	.005	.005	0 %100

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

Member Label	Direction	Start Magnitude(k/ft.F,ksf)	End Magnitude(k/ft.F,ksf)	Start Location(ft.%)	End Location(ft.%)
1	CP-1	X	.003	.003	0 %100
2	CP-2	X	.002	.002	0 %100
3	CP-3	X	.002	.002	0 %100
4	FF-H2	X	.002	.002	0 %100
5	SF1-H2	X	.004	.004	0 %100
6	SF2-H2	X	.002	.002	0 %100
7	FF-SR	X	.001	.001	0 %100
8	SF1-SR	X	.002	.002	0 %100
9	SF2-SR	X	.001	.001	0 %100
10	HRB-1	X	.002	.002	0 %100
11	HRB-2	X	.000809	.000809	0 %100
12	HRB-3	X	.000843	.000843	0 %100
13	GSOP1	X	.002	.002	0 %100
14	GSOP2	X	.003	.003	0 %100
15	GSOP3	X	.002	.002	0 %100
16	GSC1	X	0	0	0 %100
17	GSC2	X	.003	.003	0 %100
18	GSC3	X	.002	.002	0 %100
19	K1	X	.003	.003	0 %100
20	K2	X	.003	.003	0 %100
21	K3	X	.003	.003	0 %100
22	MP-1	X	.002	.002	0 %100
23	MP-2	X	.002	.002	0 %100
24	MP-3	X	.002	.002	0 %100
25	MP-4	X	.002	.002	0 %100
26	MP-5	X	.002	.002	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, F, ks/f]	Start Location(ft, %)	End Location(ft, %)
27	MP-6	X	.002	.002	0 %100
28	MP-7	X	.002	.002	0 %100
29	MP-8	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	MP-13	X	.002	.002	0 %100
35	MP-14	X	.002	.002	0 %100
36	MP-15	X	.002	.002	0 %100
37	SA1	X	.003	.003	0 %100
38	SA2	X	0	0	0 %100
39	SA3	X	.003	.003	0 %100
40	CP-1	Z	.006	.006	0 %100
41	CP-2	Z	.003	.003	0 %100
42	CP-3	Z	.003	.003	0 %100
43	FF-H2	Z	.003	.003	0 %100
44	SF1-H2	Z	.007	.007	0 %100
45	SF2-H2	Z	.004	.004	0 %100
46	FF-SR	Z	.002	.002	0 %100
47	SF1-SR	Z	.004	.004	0 %100
48	SF2-SR	Z	.002	.002	0 %100
49	HRB-1	Z	.003	.003	0 %100
50	HRB-2	Z	.002	.002	0 %100
51	HRB-3	Z	.001	.001	0 %100
52	GSOP1	Z	.003	.003	0 %100
53	GSOP2	Z	.006	.006	0 %100
54	GSOP3	Z	.003	.003	0 %100
55	GSC1	Z	0	0	0 %100
56	GSC2	Z	.004	.004	0 %100
57	GSC3	Z	.005	.005	0 %100
58	K1	Z	.006	.006	0 %100
59	K2	Z	.006	.006	0 %100
60	K3	Z	.006	.006	0 %100
61	MP-1	Z	.004	.004	0 %100
62	MP-2	Z	.004	.004	0 %100
63	MP-3	Z	.004	.004	0 %100
64	MP-4	Z	.004	.004	0 %100
65	MP-5	Z	.004	.004	0 %100
66	MP-6	Z	.004	.004	0 %100
67	MP-7	Z	.004	.004	0 %100
68	MP-8	Z	.004	.004	0 %100
69	MP-9	Z	.004	.004	0 %100
70	MP-10	Z	.004	.004	0 %100
71	MP-11	Z	.004	.004	0 %100
72	MP-12	Z	.004	.004	0 %100
73	MP-13	Z	.003	.003	0 %100
74	MP-14	Z	.003	.003	0 %100
75	MP-15	Z	.003	.003	0 %100
76	SA1	Z	.005	.005	0 %100
77	SA2	Z	0	0	0 %100
78	SA3	Z	.005	.005	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, F, ks/f]	Start Location(ft, %)	End Location(ft, %)
1	CP-1	Z	.006	.006	0 %100
2	CP-2	Z	.006	.006	0 %100
3	CP-3	Z	0	0	0 %100
4	FF-H2	Z	0	0	0 %100
5	SF1-H2	Z	.007	.007	0 %100
6	SF2-H2	Z	.007	.007	0 %100
7	FF-SR	Z	0	0	0 %100
8	SF1-SR	Z	.004	.004	0 %100
9	SF2-SR	Z	.004	.004	0 %100
10	HRB-1	Z	.003	.003	0 %100
11	HRB-2	Z	.003	.003	0 %100
12	HRB-3	Z	0	0	0 %100
13	GSOP1	Z	0	0	0 %100
14	GSOP2	Z	.006	.006	0 %100
15	GSOP3	Z	.006	.006	0 %100
16	GSC1	Z	.003	.003	0 %100
17	GSC2	Z	.003	.003	0 %100
18	GSC3	Z	.007	.007	0 %100
19	K1	Z	.007	.007	0 %100
20	K2	Z	.007	.007	0 %100
21	K3	Z	.007	.007	0 %100
22	MP-1	Z	.004	.004	0 %100
23	MP-2	Z	.004	.004	0 %100
24	MP-3	Z	.004	.004	0 %100
25	MP-4	Z	.004	.004	0 %100
26	MP-5	Z	.004	.004	0 %100
27	MP-6	Z	.004	.004	0 %100
28	MP-7	Z	.004	.004	0 %100
29	MP-8	Z	.004	.004	0 %100
30	MP-9	Z	.004	.004	0 %100
31	MP-10	Z	.004	.004	0 %100
32	MP-11	Z	.004	.004	0 %100
33	MP-12	Z	.004	.004	0 %100
34	MP-13	Z	.004	.004	0 %100
35	MP-14	Z	.004	.004	0 %100
36	MP-15	Z	.004	.004	0 %100
37	SA1	Z	.007	.007	0 %100
38	SA2	Z	.003	.003	0 %100
39	SA3	Z	.003	.003	0 %100

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

Member Label	Direction	Start Magnitude[k/ft, F, ks/f]	End Magnitude[k/ft, F, ks/f]	Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	-.002	-.002	0 %100
2	CP-2	X	-.003	-.003	0 %100
3	CP-3	X	-.002	-.002	0 %100
4	FF-H2	X	-.002	-.002	0 %100
5	SF1-H2	X	-.002	-.002	0 %100
6	SF2-H2	X	-.004	-.004	0 %100
7	FF-SR	X	-.001	-.001	0 %100
8	SF1-SR	X	-.001	-.001	0 %100
9	SF2-SR	X	-.002	-.002	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location(ft.%)	End Location(ft.%)
10	HRB-1	X	-0.00809	-0.00809	0 %100
11	HRB-2	X	-0.002	-0.002	0 %100
12	HRB-3	X	-0.00943	-0.00943	0 %100
13	GSOP1	X	-0.002	-0.002	0 %100
14	GSOP2	X	-0.002	-0.002	0 %100
15	GSOP3	X	-0.003	-0.003	0 %100
16	GSC1	X	-0.003	-0.003	0 %100
17	GSC2	X	0	0	%100
18	GSC3	X	-0.002	-0.002	0 %100
19	K1	X	-0.003	-0.003	0 %100
20	K2	X	-0.003	-0.003	0 %100
21	K3	X	-0.003	-0.003	0 %100
22	MP-1	X	-0.002	-0.002	0 %100
23	MP-2	X	-0.002	-0.002	0 %100
24	MP-3	X	-0.002	-0.002	0 %100
25	MP-4	X	-0.002	-0.002	0 %100
26	MP-5	X	-0.002	-0.002	0 %100
27	MP-6	X	-0.002	-0.002	0 %100
28	MP-7	X	-0.002	-0.002	0 %100
29	MP-8	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	MP-13	X	-0.002	-0.002	0 %100
35	MP-14	X	-0.002	-0.002	0 %100
36	MP-15	X	-0.002	-0.002	0 %100
37	SA1	X	-0.003	-0.003	0 %100
38	SA2	X	-0.003	-0.003	0 %100
39	SA3	X	0	0	%100
40	CP-1	Z	0.003	0.003	0 %100
41	CP-2	Z	0.006	0.006	0 %100
42	CP-3	Z	0.003	0.003	0 %100
43	FF-H2	Z	0.003	0.003	0 %100
44	SF1-H2	Z	0.004	0.004	0 %100
45	SF2-H2	Z	0.007	0.007	0 %100
46	FF-SR	Z	0.002	0.002	0 %100
47	SF1-SR	Z	0.002	0.002	0 %100
48	SF2-SR	Z	0.004	0.004	0 %100
49	HRB-1	Z	0.002	0.002	0 %100
50	HRB-2	Z	0.003	0.003	0 %100
51	HRB-3	Z	0.001	0.001	0 %100
52	GSOP1	Z	0.003	0.003	0 %100
53	GSOP2	Z	0.003	0.003	0 %100
54	GSOP3	Z	0.006	0.006	0 %100
55	GSC1	Z	0.004	0.004	0 %100
56	GSC2	Z	0	0	%100
57	GSC3	Z	0.005	0.005	0 %100
58	K1	Z	0.006	0.006	0 %100
59	K2	Z	0.006	0.006	0 %100
60	K3	Z	0.006	0.006	0 %100
61	MP-1	Z	0.004	0.004	0 %100



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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location(ft.%)	End Location(ft.%)
62	MP-2	Z	0.004	0.004	0 %100
63	MP-3	Z	0.004	0.004	0 %100
64	MP-4	Z	0.004	0.004	0 %100
65	MP-5	Z	0.004	0.004	0 %100
66	MP-6	Z	0.004	0.004	0 %100
67	MP-7	Z	0.004	0.004	0 %100
68	MP-8	Z	0.004	0.004	0 %100
69	MP-9	Z	0.004	0.004	0 %100
70	MP-10	Z	0.004	0.004	0 %100
71	MP-11	Z	0.004	0.004	0 %100
72	MP-12	Z	0.004	0.004	0 %100
73	MP-13	Z	0.003	0.003	0 %100
74	MP-14	Z	0.003	0.003	0 %100
75	MP-15	Z	0.003	0.003	0 %100
76	SA1	Z	0.005	0.005	0 %100
77	SA2	Z	0.005	0.005	0 %100
78	SA3	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F,ksf]	End Magnitude[k/ft.F,ksf]	Start Location(ft.%)	End Location(ft.%)
1	CP-1	X	-0.001	-0.001	0 %100
2	CP-2	X	-0.004	-0.004	0 %100
3	CP-3	X	-0.003	-0.003	0 %100
4	FF-H2	X	-0.004	-0.004	0 %100
5	SF1-H2	X	-0.001	-0.001	0 %100
6	SF2-H2	X	-0.005	-0.005	0 %100
7	FF-SR	X	-0.003	-0.003	0 %100
8	SF1-SR	X	-0.000747	-0.000747	0 %100
9	SF2-SR	X	-0.003	-0.003	0 %100
10	HRB-1	X	-0.00593	-0.00593	0 %100
11	HRB-2	X	-0.002	-0.002	0 %100
12	HRB-3	X	-0.002	-0.002	0 %100
13	GSOP1	X	-0.004	-0.004	0 %100
14	GSOP2	X	-0.001	-0.001	0 %100
15	GSOP3	X	-0.004	-0.004	0 %100
16	GSC1	X	-0.004	-0.004	0 %100
17	GSC2	X	-0.001	-0.001	0 %100
18	GSC3	X	-0.003	-0.003	0 %100
19	K1	X	-0.004	-0.004	0 %100
20	K2	X	-0.004	-0.004	0 %100
21	K3	X	-0.004	-0.004	0 %100
22	MP-1	X	-0.003	-0.003	0 %100
23	MP-2	X	-0.003	-0.003	0 %100
24	MP-3	X	-0.003	-0.003	0 %100
25	MP-4	X	-0.003	-0.003	0 %100
26	MP-5	X	-0.003	-0.003	0 %100
27	MP-6	X	-0.003	-0.003	0 %100
28	MP-7	X	-0.003	-0.003	0 %100
29	MP-8	X	-0.003	-0.003	0 %100
30	MP-9	X	-0.003	-0.003	0 %100
31	MP-10	X	-0.003	-0.003	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude(k/ft, F, ksfl)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
32	MP-11	X	-0.03	-0.03 0 %100
33	MP-12	X	-0.03	-0.03 0 %100
34	MP-13	X	-0.02	-0.02 0 %100
35	MP-14	X	-0.02	-0.02 0 %100
36	MP-15	X	-0.02	-0.02 0 %100
37	SA1	X	-0.03	-0.03 0 %100
38	SA2	X	-0.05	-0.05 0 %100
39	SA3	X	-0.01	-0.01 0 %100
40	CP-1	Z	0.01	0.01 0 %100
41	CP-2	Z	0.04	0.04 0 %100
42	CP-3	Z	0.03	0.03 0 %100
43	FF-H2	Z	0.04	0.04 0 %100
44	SF1-H2	Z	0.02	0.02 0 %100
45	SF2-H2	Z	0.06	0.06 0 %100
46	FF-SR	Z	0.02	0.02 0 %100
47	SF1-SR	Z	0.00913	0.00913 0 %100
48	SF2-SR	Z	0.03	0.03 0 %100
49	HRB-1	Z	0.00664	0.00664 0 %100
50	HRB-2	Z	0.02	0.02 0 %100
51	HRB-3	Z	0.02	0.02 0 %100
52	GSOP1	Z	0.03	0.03 0 %100
53	GSOP2	Z	0.01	0.01 0 %100
54	GSOP3	Z	0.05	0.05 0 %100
55	GSC1	Z	0.04	0.04 0 %100
56	GSC2	Z	0.01	0.01 0 %100
57	GSC3	Z	0.03	0.03 0 %100
58	K1	Z	0.05	0.05 0 %100
59	K2	Z	0.05	0.05 0 %100
60	K3	Z	0.05	0.05 0 %100
61	MP-1	Z	0.03	0.03 0 %100
62	MP-2	Z	0.03	0.03 0 %100
63	MP-3	Z	0.03	0.03 0 %100
64	MP-4	Z	0.03	0.03 0 %100
65	MP-5	Z	0.03	0.03 0 %100
66	MP-6	Z	0.03	0.03 0 %100
67	MP-7	Z	0.03	0.03 0 %100
68	MP-8	Z	0.03	0.03 0 %100
69	MP-9	Z	0.03	0.03 0 %100
70	MP-10	Z	0.03	0.03 0 %100
71	MP-11	Z	0.03	0.03 0 %100
72	MP-12	Z	0.03	0.03 0 %100
73	MP-13	Z	0.02	0.02 0 %100
74	MP-14	Z	0.02	0.02 0 %100
75	MP-15	Z	0.02	0.02 0 %100
76	SA1	Z	0.04	0.04 0 %100
77	SA2	Z	0.05	0.05 0 %100
78	SA3	Z	0.01	0.01 0 %100

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

Member Label	Direction	Start Magnitude(k/ft, F, ksfl)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
1	CP-1	X	0	0 0 %100



Company : Tower Engineering Professionals, Inc.
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Member Distributed Loads (BLC 34 : 330 Wind - Ice) (Continued)

Member Label	Direction	Start Magnitude(k/ft, F, ksfl)	End Magnitude(k/ft, Start Location(ft, %)	End Location(ft, %)
2	CP-2	X	-0.05	-0.05 0 %100
3	CP-3	X	-0.05	-0.05 0 %100
4	FF-H2	X	-0.07	-0.07 0 %100
5	SF1-H2	X	0	0 0 %100
6	SF2-H2	X	-0.05	-0.05 0 %100
7	FF-SR	X	-0.04	-0.04 0 %100
8	SF1-SR	X	0	0 0 %100
9	SF2-SR	X	-0.03	-0.03 0 %100
10	HRB-1	X	0	0 0 %100
11	HRB-2	X	-0.02	-0.02 0 %100
12	HRB-3	X	-0.03	-0.03 0 %100
13	GSOP1	X	-0.05	-0.05 0 %100
14	GSOP2	X	0	0 0 %100
15	GSOP3	X	-0.05	-0.05 0 %100
16	GSC1	X	-0.06	-0.06 0 %100
17	GSC2	X	-0.03	-0.03 0 %100
18	GSC3	X	-0.02	-0.02 0 %100
19	K1	X	-0.05	-0.05 0 %100
20	K2	X	-0.05	-0.05 0 %100
21	K3	X	-0.05	-0.05 0 %100
22	MP-1	X	-0.03	-0.03 0 %100
23	MP-2	X	-0.03	-0.03 0 %100
24	MP-3	X	-0.03	-0.03 0 %100
25	MP-4	X	-0.03	-0.03 0 %100
26	MP-5	X	-0.03	-0.03 0 %100
27	MP-6	X	-0.03	-0.03 0 %100
28	MP-7	X	-0.03	-0.03 0 %100
29	MP-8	X	-0.03	-0.03 0 %100
30	MP-9	X	-0.03	-0.03 0 %100
31	MP-10	X	-0.03	-0.03 0 %100
32	MP-11	X	-0.03	-0.03 0 %100
33	MP-12	X	-0.03	-0.03 0 %100
34	MP-13	X	-0.03	-0.03 0 %100
35	MP-14	X	-0.03	-0.03 0 %100
36	MP-15	X	-0.03	-0.03 0 %100
37	SA1	X	-0.03	-0.03 0 %100
38	SA2	X	-0.06	-0.06 0 %100
39	SA3	X	-0.03	-0.03 0 %100
40	CP-1	Z	0	0 0 %100
41	CP-2	Z	0.03	0.03 0 %100
42	CP-3	Z	0.03	0.03 0 %100
43	FF-H2	Z	0.03	0.03 0 %100
44	SF1-H2	Z	0	0 0 %100
45	SF2-H2	Z	0.04	0.04 0 %100
46	FF-SR	Z	0.02	0.02 0 %100
47	SF1-SR	Z	0	0 0 %100
48	SF2-SR	Z	0.02	0.02 0 %100
49	HRB-1	Z	0	0 0 %100
50	HRB-2	Z	0.02	0.02 0 %100
51	HRB-3	Z	0.01	0.01 0 %100
52	GSOP1	Z	0.03	0.03 0 %100
53	GSOP2	Z	0	0 0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
54	GSCP3	Z	.003	.003	0 %100
55	GSC1	Z	.003	.003	0 %100
56	GSC2	Z	.001	.001	0 %100
57	GSC3	Z	.002	.002	0 %100
58	K1	Z	.004	.004	0 %100
59	K2	Z	.004	.004	0 %100
60	K3	Z	.004	.004	0 %100
61	MP-1	Z	.002	.002	0 %100
62	MP-2	Z	.002	.002	0 %100
63	MP-3	Z	.002	.002	0 %100
64	MP-4	Z	.002	.002	0 %100
65	MP-5	Z	.002	.002	0 %100
66	MP-6	Z	.002	.002	0 %100
67	MP-7	Z	.002	.002	0 %100
68	MP-8	Z	.002	.002	0 %100
69	MP-9	Z	.002	.002	0 %100
70	MP-10	Z	.002	.002	0 %100
71	MP-11	Z	.002	.002	0 %100
72	MP-12	Z	.002	.002	0 %100
73	MP-13	Z	.002	.002	0 %100
74	MP-14	Z	.002	.002	0 %100
75	MP-15	Z	.002	.002	0 %100
76	SA1	Z	.002	.002	0 %100
77	SA2	Z	.003	.003	0 %100
78	SA3	Z	.002	.002	0 %100

Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
1	FF-H2	Y	-.003	-.006	0 2.333
2	FF-H2	Y	-.006	-.009	2.333 4.667
3	FF-H2	Y	-.009	-.009	4.667 7
4	FF-H2	Y	-.009	-.009	7 9.333
5	FF-H2	Y	-.009	-.006	9.333 11.667
6	FF-H2	Y	-.006	-.003	11.667 14
7	GSCP1	Y	-.009	-.011	7.061
8	GSC1	Y	-.003	-.012	0 2
9	GSC1	Y	-.012	-.021	2 4
10	GSC2	Y	-.003	-.012	0 2
11	GSC2	Y	-.012	-.021	2 4
12	SA1	Y	-.021	-.021	25 2.25
13	SF2H2	Y	-.003	-.006	0 2.333
14	SF2H2	Y	-.006	-.009	2.333 4.667
15	SF2H2	Y	-.009	-.009	4.667 7
16	SF2H2	Y	-.009	-.009	7 9.333
17	SF2H2	Y	-.009	-.006	9.333 11.667
18	SF2H2	Y	-.006	-.003	11.667 14
19	GSCP3	Y	-.004	-.004	.004 7.061
20	GSCP3	Y	-.009	-.009	.004 7.061
21	GSC3	Y	-.005	-.009	2 4
22	SA3	Y	-.009	-.009	.25 2.25
23	SF1H2	Y	-.001	-.003	0 2.333
24	SF1H2	Y	-.003	-.004	2.333 4.667
25	SF1H2	Y	-.004	-.005	4.667 7
26	SF1H2	Y	-.005	-.004	7 9.333
27	SF1H2	Y	-.004	-.003	9.333 11.667
28	SF1H2	Y	-.003	-.001	11.667 14
29	GSCP2	Y	-.005	-.005	.011 7.068
30	SA2	Y	-.011	-.011	.25 2.25



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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Member Distributed Loads (BLC 39 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
24	SF1H2	Y	-.006	-.009	2.333 4.667
25	SF1H2	Y	-.009	-.009	4.667 7
26	SF1H2	Y	-.009	-.009	7 9.333
27	SF1H2	Y	-.009	-.006	9.333 11.667
28	SF1H2	Y	-.006	-.003	11.667 14
29	GSCP2	Y	-.009	-.009	.011 7.068
30	SA2	Y	-.021	-.021	.25 2.25

Member Distributed Loads (BLC 40 : BLC 18 Transient Area Loads)

Member Label	Direction	Start Magnitude[k/ft, F, ksf]	End Magnitude[k/ft, F, ksf]	Start Location(ft, %)	End Location(ft, %)
1	FF-H2	Y	-.001	-.003	0 2.333
2	FF-H2	Y	-.003	-.004	2.333 4.667
3	FF-H2	Y	-.004	-.004	4.667 7
4	FF-H2	Y	-.004	-.004	7 9.333
5	FF-H2	Y	-.004	-.003	9.333 11.667
6	FF-H2	Y	-.003	-.001	11.667 14
7	GSCP1	Y	-.004	-.004	.011 7.061
8	GSC1	Y	-.001	-.005	0 2
9	GSC1	Y	-.005	-.009	2 4
10	GSC2	Y	-.001	-.005	0 2
11	GSC2	Y	-.005	-.01	2 4
12	SA1	Y	-.009	-.009	.25 2.25
13	SF2H2	Y	-.001	-.003	0 2.333
14	SF2H2	Y	-.003	-.004	2.333 4.667
15	SF2H2	Y	-.004	-.004	4.667 7
16	SF2H2	Y	-.004	-.004	7 9.333
17	SF2H2	Y	-.004	-.003	9.333 11.667
18	SF2H2	Y	-.003	-.001	11.667 14
19	GSCP3	Y	-.004	-.004	.004 7.061
20	GSC3	Y	-.001	-.005	0 2
21	GSC3	Y	-.005	-.009	2 4
22	SA3	Y	-.009	-.009	.25 2.25
23	SF1H2	Y	-.001	-.003	0 2.333
24	SF1H2	Y	-.003	-.004	2.333 4.667
25	SF1H2	Y	-.004	-.005	4.667 7
26	SF1H2	Y	-.005	-.004	7 9.333
27	SF1H2	Y	-.004	-.003	9.333 11.667
28	SF1H2	Y	-.003	-.001	11.667 14
29	GSCP2	Y	-.005	-.005	.011 7.068
30	SA2	Y	-.011	-.011	.25 2.25

Member Area Loads (BLC 1 : Dead)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	GSI8	FF2	FF4	GSI7	Y	Two Way	-.012
2	GSI7	FF4	SF1-2	GSI9	Y	Two Way	-.012
3	GSI9	SF1-2	FF2	GSI8	Y	Two Way	-.012

Member Area Loads (BLC 18 : Ice Weight)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
---------	---------	---------	---------	-----------	--------------	----------------



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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Member Area Loads (BLC 18 : Ice Weight) (Continued)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	GSI8	FF2	FF4	GSI7	Y	Two Way	-.005
2	GSI7	FF4	SF1-2	GSI9	Y	Two Way	-.005
3	GSI9	SF1-2	FF2	GSI8	Y	Two Way	-.006

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	N55A	max	.568	2	.609	34	7.261	23	0	98	0	98
2		min	-.856	26	.039	10	-7.189	15	0	1	0	1
3	N62A	max	6.748	20	.534	39	3.97	5	0	98	0	98
4		min	-6.533	12	.076	15	-4.182	29	0	1	0	1
5	N63A	max	6.347	18	.539	45	3.926	23	0	98	0	98
6		min	-6.196	10	.076	5	-3.878	15	0	1	0	1
7	N98	max	3.658	45	4.422	45	6.332	45	0	26	0	26
8		min	-.646	5	-.792	5	-1.12	5	0	2	0	2
9	N99	max	1.083	10	4.714	34	.069	6	0	7	0	31
10		min	-7.806	34	-.666	10	-.069	14	0	31	0	7
11	N100	max	3.68	39	4.449	39	1.072	15	0	21	0	21
12		min	-.619	15	-.759	15	-6.372	39	0	13	0	13
13	Totals:	max	8.456	18	13.475	49	8.637	22				
14		min	-8.456	10	3.182	83	-8.637	14				

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Che.	Loc[ft]	phi'	phi'	phi'	phi'	Egn	
1	SF2-H2	L3X3X4	.841	14	47	.187	14	v	15.7	46.6	1.688	2.856
2	SF1-H2	L3X3X4	.838	0	37	.186	0	v	15.7	46.6	1.688	2.854
3	SF-H2	L3X3X4	.810	14	42	.177	14	v	15.7	46.6	1.688	2.863
4	SF2-SR	PIPE 2.5	.747	5.043	29	.137	.865		2.696	50.7	3.596	3.596
5	FF-SR	PIPE 2.5	.747	5.043	23	.121	.865		2.696	50.7	3.596	3.596
6	SF1-SR	PIPE 2.5	.731	1.009	34	.144	.865		2.696	50.7	3.596	3.596
7	MP-6	PIPE 2.5	.609	2	28	.148	6		43.8	50.7	3.596	3.596
8	MP-3	PIPE 2.5	.602	2	30	.131	6		43.8	50.7	3.596	3.596
9	MP-2	PIPE 2.5	.602	2	22	.140	6		43.8	50.7	3.596	3.596
10	MP-12	PIPE 2.5	.599	6	24	.092	6		28.4	50.7	3.596	3.596
11	MP-7	PIPE 2.5	.590	2	20	.136	6		43.8	50.7	3.596	3.596
12	MP-8	PIPE 2.5	.589	6	34	.101	6		28.4	50.7	3.596	3.596
13	MP-10	PIPE 2.5	.586	2	33	.135	6		43.8	50.7	3.596	3.596
14	MP-5	PIPE 2.5	.585	6	28	.089	6		28.4	50.7	3.596	3.596
15	MP-11	PIPE 2.5	.582	2	24	.137	6		43.8	50.7	3.596	3.596
16	MP-4	PIPE 2.5	.581	6	30	.100	6		28.4	50.7	3.596	3.596
17	MP-9	PIPE 2.5	.576	6	34	.097	6		28.4	50.7	3.596	3.596
18	MP-1	PIPE 2.5	.573	6	23	.095	6		28.4	50.7	3.596	3.596
19	CP-3	L2.5x2.5x3	.555	.833	21	.128	0	v	27.8	29.1	.873	1.972
20	GSC3	LL3x3x4x0	.546	0	37	.158	.417	v	76.2	93.3	6.48	4.357
21	GSC1	LL3x3x4x0	.532	0	42	.147	.417	v	76.2	93.3	6.48	4.357
22	GSC2	LL3x3x4x0	.531	0	42	.149	.417	v	76.2	93.3	6.48	4.357
23	CP-1	L2.5x2.5x3	.527	.833	32	.124	0	v	27.8	29.1	.873	1.972
24	CP-2	L2.5x2.5x3	.474	.833	26	.113	0	v	27.8	29.1	.873	1.972
25	G SOP2	L3X3X4	.414	3.536	22	.053	3.536	v	35.5	46.6	1.688	3.412
26	G SOP3	L3X3X4	.410	3.536	30	.053	3.536	v	35.5	46.6	1.688	3.413



Company : Tower Engineering Professionals, Inc.
 Designer : AJW
 Job Number : TEP No. 25666.406159
 Model Name : CCI BU No. 803175

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Che.	Loc[ft]	phi'	phi'	phi'	phi'	Egn	
27	K3	LL2.5x2.5x3x0	.384	3.91	34	.007	0	z	26.7	58.32	3.3	2.477
28	K2	LL2.5x2.5x3x0	.366	3.91	40	.007	7.819	z	26.7	58.32	3.3	2.477
29	K1	LL2.5x2.5x3x0	.364	3.91	44	.007	7.819	z	26.7	58.32	3.3	2.477
30	G SOP1	L3X3X4	.364	3.536	24	.051	3.536	v	35.5	46.6	1.688	3.408
31	MP-13	PIPE 2.0	.190	4	23	.013	4		13.7	32.13	1.872	1.872
32	MP-15	PIPE 2.0	.129	4	22	.010	4		13.7	32.13	1.872	1.872
33	MP-14	PIPE 2.0	.129	4	30	.010	4		13.7	32.13	1.872	1.872
34	SA1	BPL 5.375x4x6	.086	258	22	.297	.75	v	142.	153.	12.3	25.6
35	SA2	BPL 5.375x4x6	.078	258	25	.199	.727	v	142.	153.	12.3	25.6
36	SA3	BPL 5.375x4x6	.076	258	19	.198	0	v	142.	153.	12.3	25.6
37	HRB-2	PIPE 2.0	.057	5.821	31	.079	0		21.4	32.13	1.872	1.872
38	HRB-1	PIPE 2.0	.057	0	21	.079	5.821		21.4	32.13	1.872	1.872
39	HRB-3	PIPE 2.0	.051	0	26	.086	5.821		21.4	32.13	1.872	1.872

Envelope None Cold Formed Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shear Che.	Loc[ft]	Dir	LC	Pr[k]	Tn[k]	Mnyy[k...]	Mnzz[k...]	Cb	Cmyy	Cmzz	Egn
No Data to Print ...																

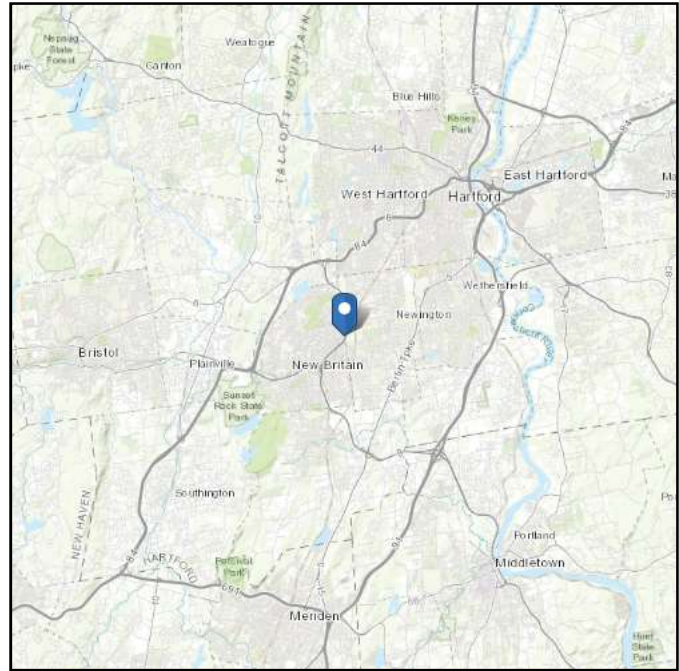
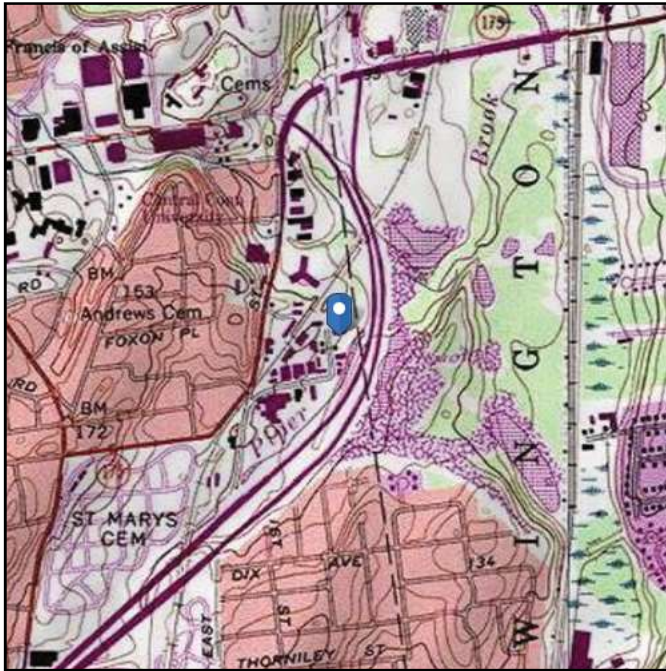
APPENDIX D
ADDITIONAL CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 88.33 ft (NAVD 88)
Latitude: 41.686611
Longitude: -72.757722



Wind

Results:

Wind Speed:	118 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

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

Date Accessed: Thu Apr 09 2020

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

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

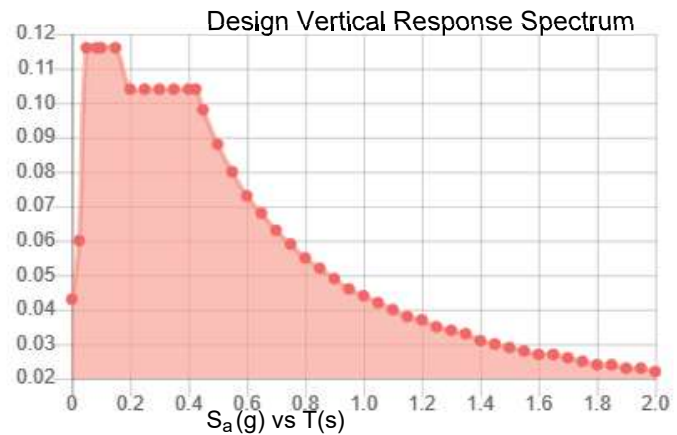
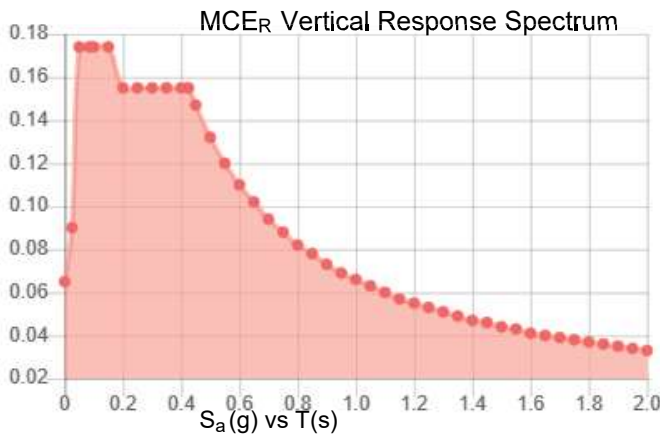
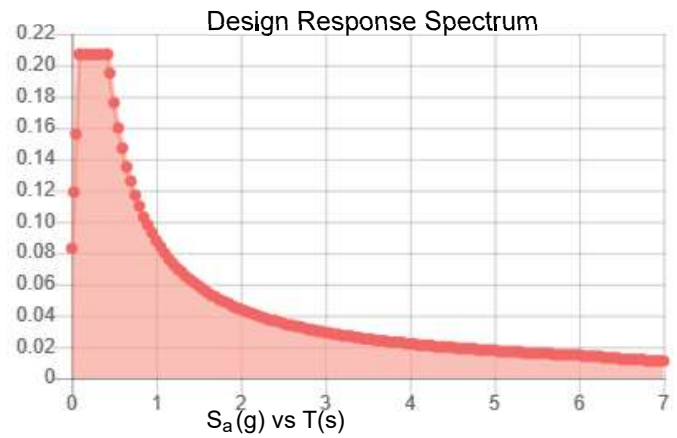
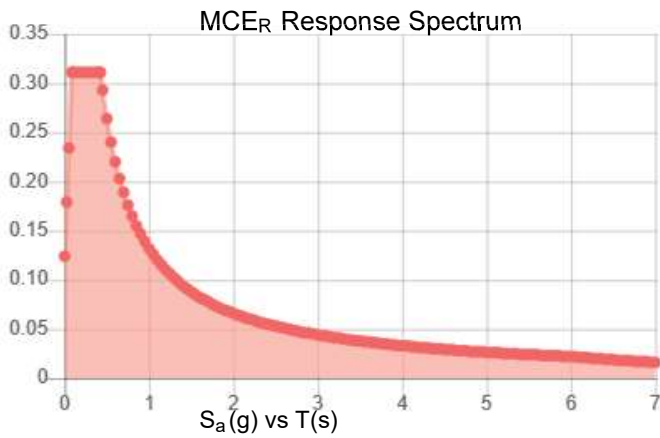
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

Results:

S_s :	0.194	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.106
F_v :	2.4	PGA _M :	0.168
S_{MS} :	0.311	F_{PGA} :	1.589
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.207	C_v :	0.7

Seismic Design Category B



Data Accessed: Thu Apr 09 2020
Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.50 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Thu Apr 09 2020

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

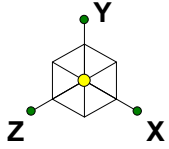
Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from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

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

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

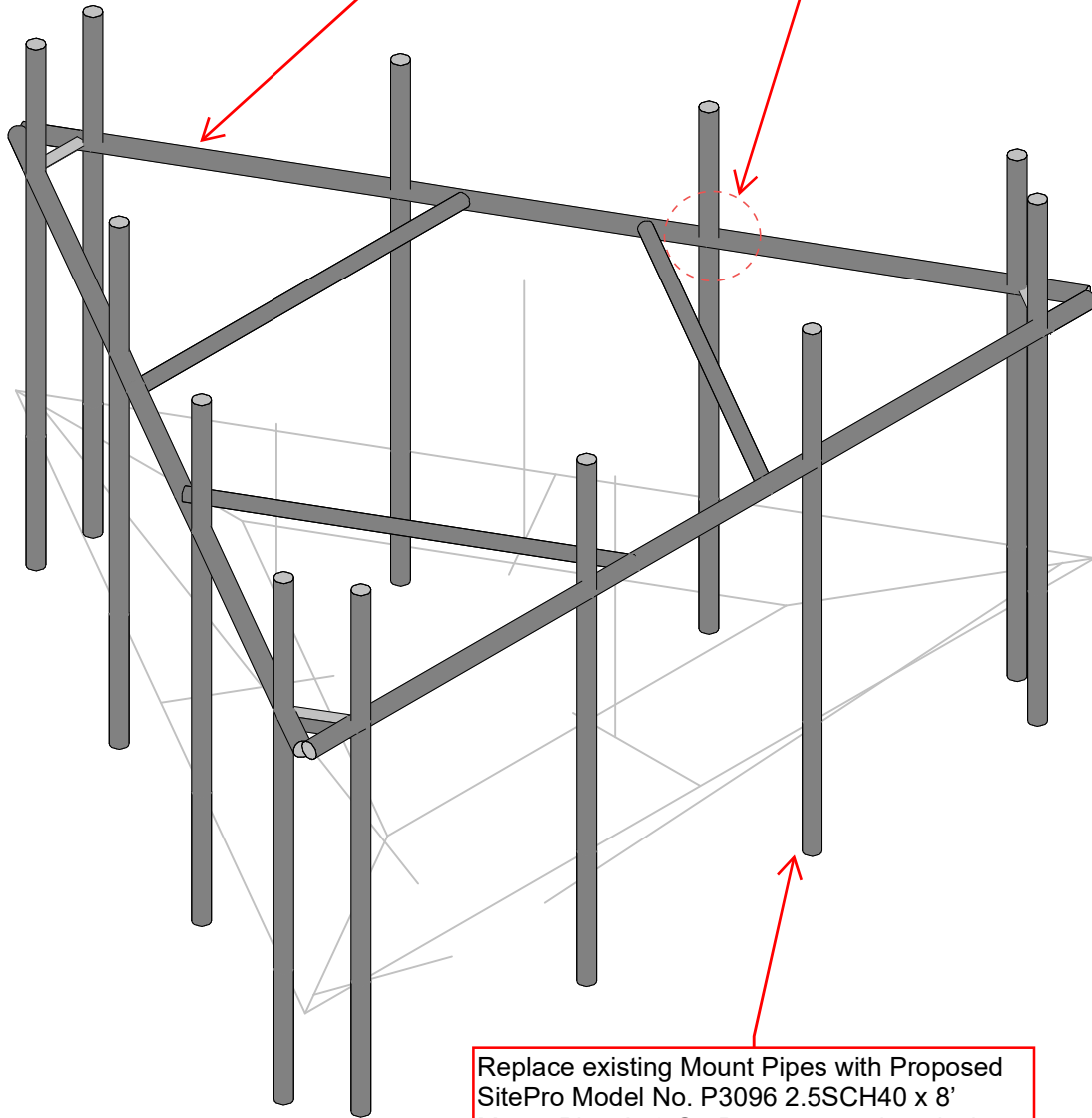
In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from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

APPENDIX E
MOUNT MODIFICATION DESIGN DRAWINGS



Replace existing Support Rails and Face Verticals with Proposed Heavy Duty Handrail Kit, SitePro Part No. HRK14-3HD or approved equivalent (1 total kit).

Proposed Crossover Plate Kit, SitePro Part No. SCX23-K or approved equivalent (typ. 4 per sector, 12 total).



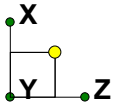
Replace existing Mount Pipes with Proposed SitePro Model No. P3096 2.5SCH40 x 8' Mount Pipe A53 Gr. B or approved equivalent, match existing Mount Pipe locations (typ. 4 per sector, 12 total).

Envelope Only Solution

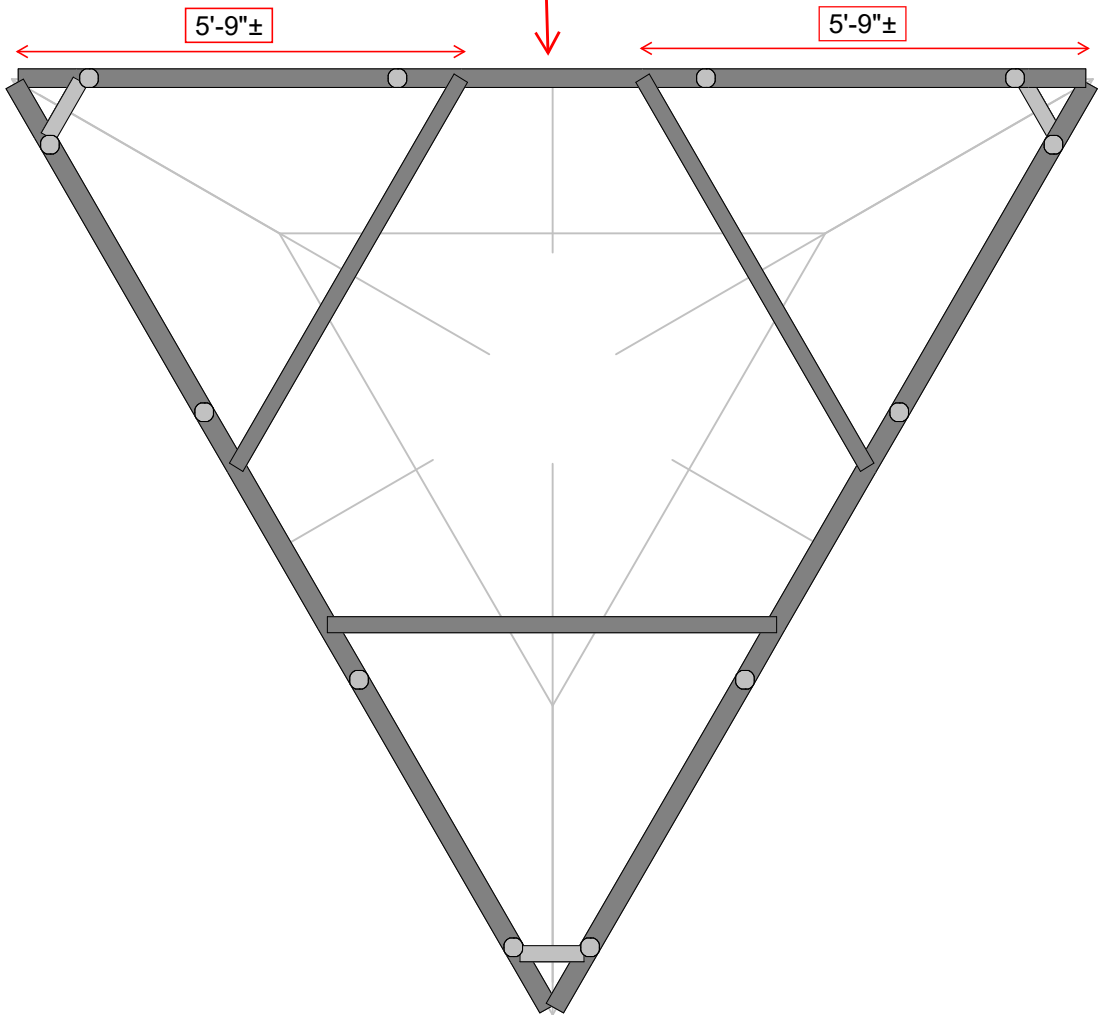
Tower Engineering Profess...
AJW
TEP No. 25666.406159

CCI BU No. 803175

SK - 7
Apr 20, 2020 at 3:27 PM
Mount Rev H.r3d

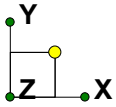


Replace existing Support Rails and Face Verticals with Proposed Heavy Duty Handrail Kit, SitePro Part No. HRK14-3HD or approved equivalent (1 total kit).



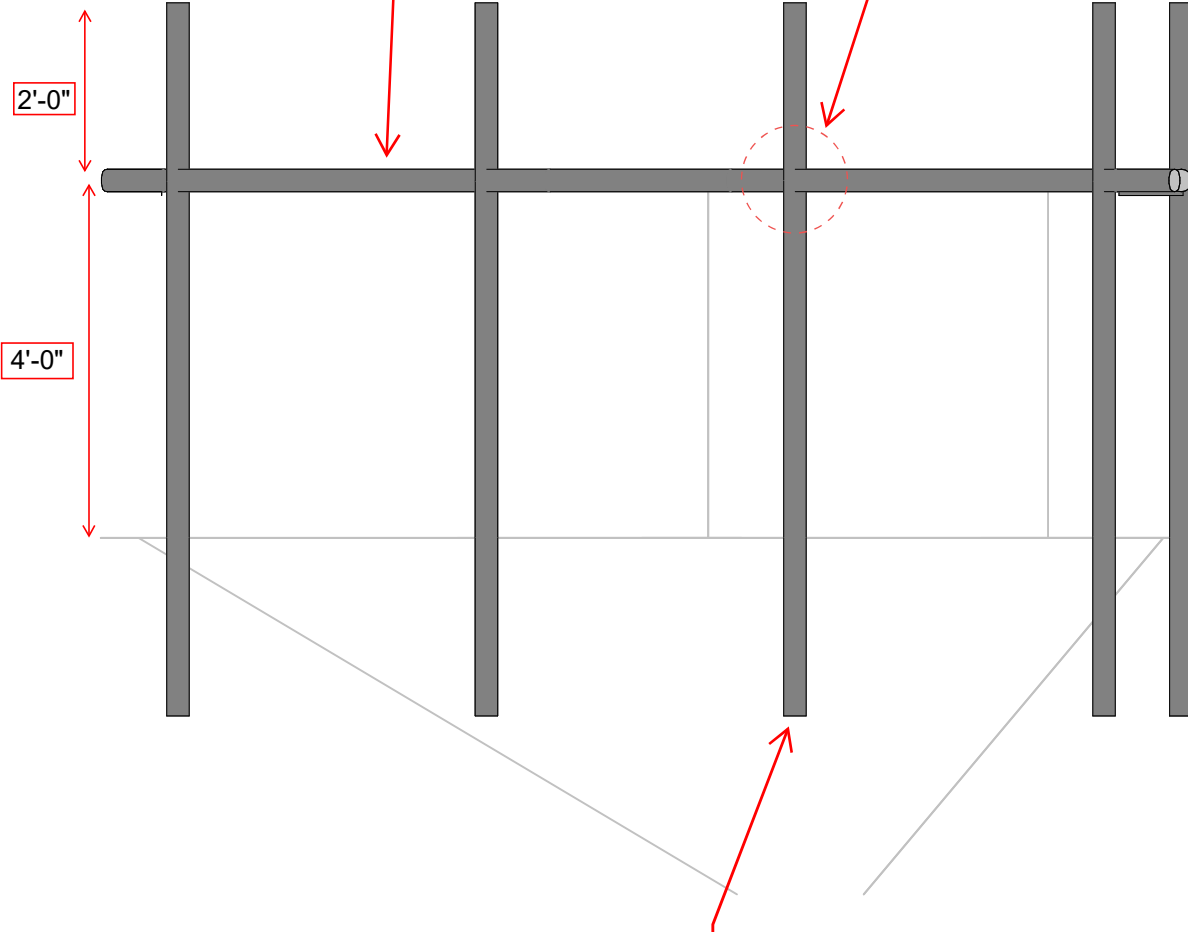
Envelope Only Solution

Tower Engineering Profess...	CCI BU No. 803175	SK - 8
AJW		Apr 20, 2020 at 3:27 PM
TEP No. 25666.406159		Mount Rev H.r3d



Replace existing Support Rails and Face Verticals with Proposed Heavy Duty Handrail Kit, SitePro Part No. HRK14-3HD or approved equivalent (1 total kit).

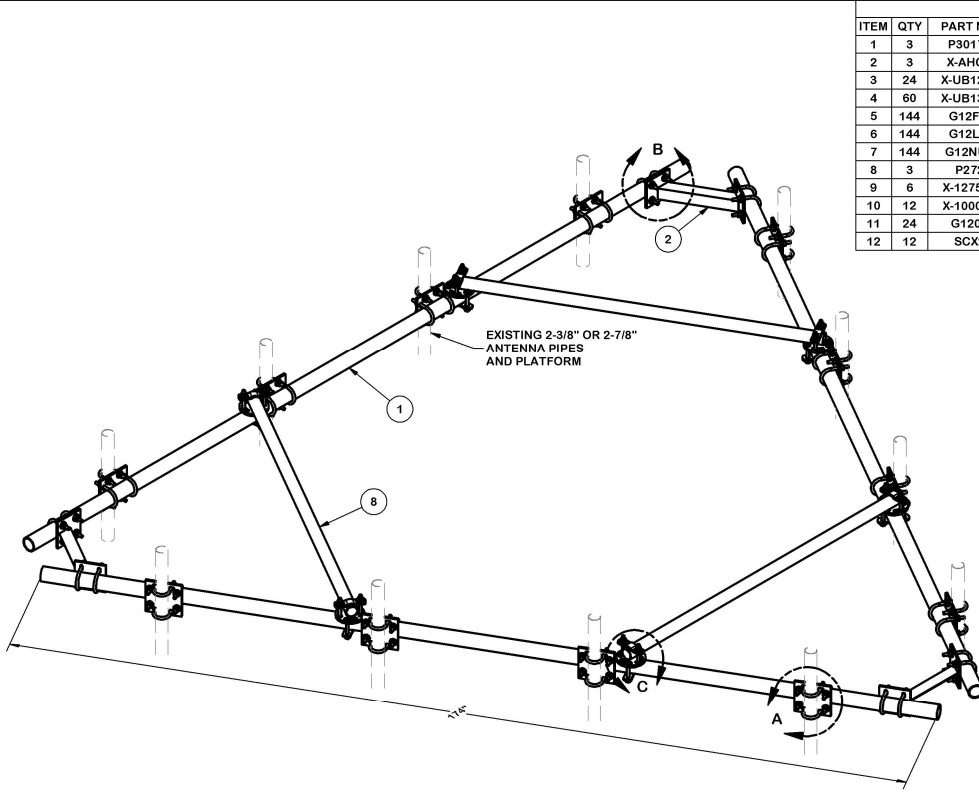
Proposed Crossover Plate Kit, SitePro Part No. SCX23-K or approved equivalent (typ. 4 per sector, 12 total).



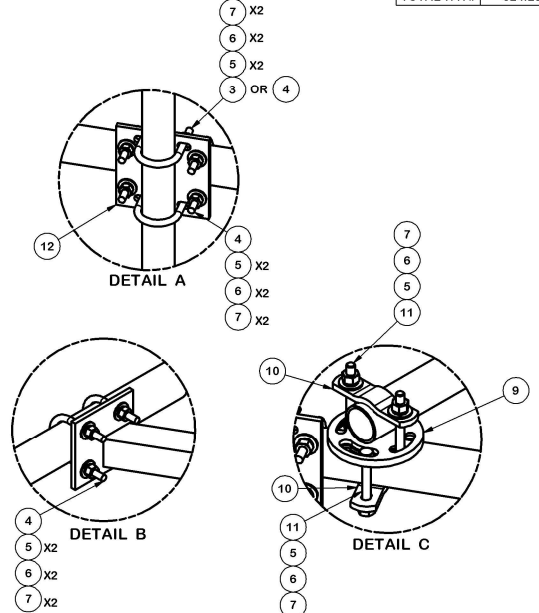
Replace existing Mount Pipes with Proposed SitePro Model No. P3096 2.5SCH40 x 8' Mount Pipe A53 Gr. B or approved equivalent, match existing Mount Pipe locations (typ. 4 per sector, 12 total).

Envelope Only Solution

Tower Engineering Profess...	CCI BU No. 803175	SK - 9
AJW		Apr 20, 2020 at 3:27 PM
TEP No. 25666.406159		Mount Rev H.r3d



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P30174	2-7/8" O.D. x 174" SCH. 40 PIPE	174 in	84.20	252.59
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	24	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	15.00
4	60	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.70	41.81
5	144	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P272	2-3/8" X 72" SCH 40 GALVANIZED PIPE	72 in	23.07	69.20
9	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.51	15.04
10	12	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.91	10.95
11	24	G1204	1/2" x 4" HDG HEX BOLT GRS FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
					TOTAL WT. #	524.23



TOLERANCE NOTES

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

PROPRIETARY NOTE:
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DESCRIPTION
**HEAVY DUTY HANDRAIL KIT
 FOR 14' PLATFORMS WITH
 2-7/8" HANDRAIL PIPES**

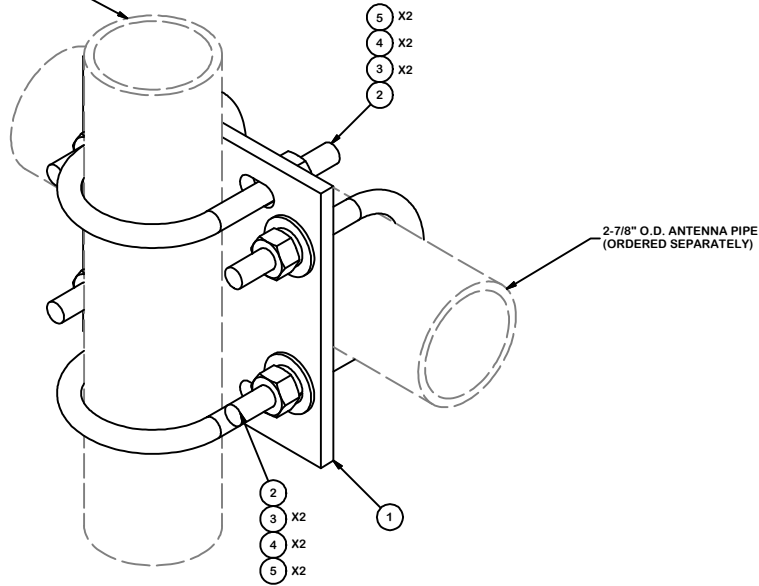
SITE PRO 1
 A valmont COMPANY

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

Engineering Support Team:
 1-888-753-7446

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE 1 OF 1
81	CEK	4/6/2015	HRK14-3HD	
CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	BMC	HRK14-3HD
			7/8/2016	

2-7/8" O.D. ANTENNA PIPE
(ORDERED SEPARATELY)



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX2	CROSSOVER PLATE	7 in	4.80	4.80
2	4	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.73	2.93
3	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
4	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	8.40

TOLERANCE NOTES

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

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION	
CROSSOVER PLATE KIT	

 A valmont COMPANY	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	Engineering Support Team: 1-888-753-7446

CPD NO.	DRAWN BY	ENG. APPROVAL
	CEK 2/19/2015	
CLASS	SUB	DRAWING USAGE
81	01	CUSTOMER
		CHECKED BY
		BMC 2/19/2015

PART NO.	SCX23-K
DWG. NO.	SCX23-K

Exhibit F

Power Density/RF Emissions Report



RF EMISSIONS COMPLIANCE REPORT

Crown Castle on behalf of AT&T Mobility, LLC

BU: 803175
Site Name: CT NEW BRITAIN 3 CAC 803175
Order ID: 509309
167 Coccoimo Circle
New Britain, CT
6/8/2020

Report Status:

The Site is Compliant



Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2021

Signed 09 June 2020

Prepared By:

Site Safe, LLC

Engineering Statement in Re:
Electromagnetic Energy Analysis
AT&T Mobility, LLC
New Britain, 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 "CT NEW BRITAIN 3 CAC 803175" ("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 0.531% 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 1.943% 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.

AT&T Mobility, LLC
CT NEW BRITAIN 3 CAC 803175
Site Summary

Carrier	Area Maximum Percentage MPE
AT&T Mobility, LLC	0.049 %
AT&T Mobility, LLC	0.088 %
AT&T Mobility, LLC (Proposed)	0.185 %
AT&T Mobility, LLC (Proposed)	0.061 %
AT&T Mobility, LLC (Proposed)	0.056 %
AT&T Mobility, LLC (Proposed)	0.092 %
T-Mobile	0.125 %
T-Mobile	0.086 %
T-Mobile	0.174 %
T-Mobile	0.112 %
T-Mobile	0.066 %
Verizon Wireless	0.188 %
Verizon Wireless	0.242 %
Verizon Wireless	0.218 %
Verizon Wireless	0.142 %
Verizon Wireless	0.059 %
Composite Site MPE:	1.943 %

AT&T Mobility, LLC
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 2100 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 0.49296 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.04930 %

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
Quintel	QS46512-2	190	70	2542	0.233819	0.023382	0.362072	0.036207
Quintel	QS66512-2	190	200	3591	0.297652	0.029765	0.482263	0.048226
Quintel	QS66512-2	190	320	3591	0.297652	0.029765	0.482263	0.048226

AT&T Mobility, LLC
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 2300 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 0.88219 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.08822 %

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	OPA-65R-LCUU-H4	190	70	2661	0.438530	0.043853	0.572967	0.057297
CCI	OPA-65R-LCUU-H6	190	200	3206	0.752561	0.075256	0.874147	0.087415
CCI	OPA-65R-LCUU-H6	190	320	3206	0.752561	0.075256	0.874147	0.087415

**AT&T Mobility, LLC (Proposed)
CT NEW BRITAIN 3 CAC 803175
Carrier Summary**

Frequency: 1900 MHz
 Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 1.85070 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.18507 %

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	DMP65R-BU4D	190	70	2656	0.594921	0.059492	0.745491	0.074549
CCI	OPA65R-BU4D	190	70	2781	0.579159	0.057916	0.729252	0.072925
CCI	DMP65R-BU6D	190	200	3056	0.754093	0.075409	0.914157	0.091416
CCI	OPA65R-BU6D	190	200	3343	0.796386	0.079639	0.945452	0.094545
CCI	DMP65R-BU6D	190	320	3056	0.754093	0.075409	0.914157	0.091416
CCI	OPA65R-BU6D	190	320	3343	0.796386	0.079639	0.945452	0.094545

**AT&T Mobility, LLC (Proposed)
 CT NEW BRITAIN 3 CAC 803175
 Carrier Summary**

Frequency: 850 MHz
 Maximum Permissible Exposure (MPE): 566.67 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.34717 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.06127 %

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	DMP65R-BU4D	190	70	1695	0.218062	0.038482	0.228234	0.040277
CCI	DMP65R-BU6D	190	200	2239	0.186712	0.032949	0.337118	0.059491
CCI	DMP65R-BU6D	190	320	2239	0.186712	0.032949	0.337118	0.059491

**AT&T Mobility, LLC (Proposed)
 CT NEW BRITAIN 3 CAC 803175
 Carrier Summary**

Frequency: 763 MHz
 Maximum Permissible Exposure (MPE): 508.67 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.28602 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.05623 %

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	DMP65R-BU4D	190	70	1582	0.217010	0.042663	0.225269	0.044286
CCI	DMP65R-BU6D	190	200	2400	0.199126	0.039147	0.256691	0.050464
CCI	DMP65R-BU6D	190	320	2400	0.199126	0.039147	0.256691	0.050464

**AT&T Mobility, LLC (Proposed)
CT NEW BRITAIN 3 CAC 803175
Carrier Summary**

Frequency: 700 MHz
 Maximum Permissible Exposure (MPE): 466.67 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.42903 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.09193 %

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	DMP65R-BU4D	190	70	791	0.108505	0.023251	0.112635	0.024136
CCI	DMP65R-BU4D	190	70	1582	0.217010	0.046502	0.225269	0.048272
CCI	DMP65R-BU6D	190	200	1200	0.099563	0.021335	0.128346	0.027503
CCI	DMP65R-BU6D	190	200	2400	0.199126	0.042670	0.256691	0.055005
CCI	DMP65R-BU6D	190	320	1200	0.099563	0.021335	0.128346	0.027503
CCI	DMP65R-BU6D	190	320	2400	0.199126	0.042670	0.256691	0.055005

T-Mobile
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 700 MHz
Maximum Permissible Exposure (MPE): 466.67 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 0.58422 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.12519 %

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	161	45	3035	0.374172	0.080180	0.478663	0.102571
RFS	APXVAARR24_43-U-NA20	161	170	3035	0.374172	0.080180	0.478663	0.102571
RFS	APXVAARR24_43-U-NA20	161	300	3035	0.374172	0.080180	0.478663	0.102571

T-Mobile
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 600 MHz
Maximum Permissible Exposure (MPE): 400 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 0.34444 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.08611 %

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	161	45	2015	0.282260	0.070565	0.321891	0.080473
RFS	APXVAARR24_43-U-NA20	161	170	2015	0.282260	0.070565	0.321891	0.080473
RFS	APXVAARR24_43-U-NA20	161	300	2015	0.282260	0.070565	0.321891	0.080473

T-Mobile
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 2100 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 1.73742 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.17374 %

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 3246 B66	161	45	6168	0.445186	0.044519	0.509915	0.050992
Ericsson	AIR 32 B2A/B66AA	161	45	2313	0.715196	0.071520	0.715196	0.071520
Ericsson	AIR 3246 B66	161	170	6168	0.445186	0.044519	0.509915	0.050992
Ericsson	AIR 32 B2A/B66AA	161	170	2313	0.715196	0.071520	0.715196	0.071520
Ericsson	AIR 3246 B66	161	300	6168	0.445186	0.044519	0.509915	0.050992
Ericsson	AIR 32 B2A/B66AA	161	300	2313	0.715196	0.071520	0.715196	0.071520

T-Mobile
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 1900 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 1.11677 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.11168 %

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 3246	161	45	6168	0.445186	0.044519	0.509915	0.050992
Ericsson	AIR 32 B2A/B66AA	161	45	2313	0.166945	0.016694	0.191218	0.019122
Ericsson	AIR 3246	161	170	6168	0.445186	0.044519	0.509915	0.050992
Ericsson	AIR 32 B2A/B66AA	161	170	2313	0.166945	0.016694	0.191218	0.019122
Ericsson	AIR 3246	161	300	6168	0.445186	0.044519	0.509915	0.050992
Ericsson	AIR 32 B2A/B66AA	161	300	2313	0.166945	0.016694	0.191218	0.019122

T-Mobile
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 2500 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 0.65758 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.06576 %

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 6454 B41	161	45	5084	0.488756	0.048876	0.628321	0.062832
Ericsson	AIR 6454 B41	161	170	5084	0.488756	0.048876	0.628321	0.062832
Ericsson	AIR 6454 B41	161	300	5084	0.488756	0.048876	0.628321	0.062832

Verizon Wireless
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 2100 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 1.87928 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.18793 %

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	SBNHH-1D65B	149	30	7732	1.189141	0.118914	1.793044	0.179304
ANDREW	SBNHH-1D65B	149	150	7732	1.189141	0.118914	1.793044	0.179304
ANDREW	SBNHH-1D65B	149	270	7732	1.189141	0.118914	1.793044	0.179304

Verizon Wireless
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 1900 MHz
Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 2.42338 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.24234 %

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	SBNHH-1D65B	149	30	6111	1.878854	0.187885	2.390073	0.239007
ANDREW	SBNHH-1D65B	149	150	6111	1.878854	0.187885	2.390073	0.239007
ANDREW	SBNHH-1D65B	149	270	6111	1.878854	0.187885	2.390073	0.239007

Verizon Wireless
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 850 MHz
Maximum Permissible Exposure (MPE): 566.67 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 1.23438 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.21783 %

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	SBNHH-1D65B	149	30	2892	0.614881	0.108508	0.676717	0.119421
Antel	BXA-80063-6BF-EDIN-4	149	30	2255	0.568371	0.100301	0.574816	0.101438
ANDREW	SBNHH-1D65B	149	150	2892	0.614881	0.108508	0.676717	0.119421
Antel	BXA-80063-6BF-EDIN-4	149	150	2255	0.568371	0.100301	0.574816	0.101438
ANDREW	SBNHH-1D65B	149	270	2892	0.614881	0.108508	0.676717	0.119421
Antel	BXA-80063-6BF-EDIN-4	149	270	2255	0.568371	0.100301	0.574816	0.101438

Verizon Wireless
CT NEW BRITAIN 3 CAC 803175
Carrier Summary

Frequency: 700 MHz
Maximum Permissible Exposure (MPE): 466.67 $\mu\text{W}/\text{cm}^2$
Maximum power density at ground level: 0.66395 $\mu\text{W}/\text{cm}^2$
Highest percentage of Maximum Permissible Exposure: 0.14227 %

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	SBNHH-1D65B	149	30	2723	0.341646	0.073210	0.560770	0.120165
ANDREW	SBNHH-1D65B	149	150	2723	0.341646	0.073210	0.560770	0.120165
ANDREW	SBNHH-1D65B	149	270	2723	0.341646	0.073210	0.560770	0.120165

**Verizon Wireless
CT NEW BRITAIN 3 CAC 803175
Carrier Summary**

Frequency: 3550 MHz
 Maximum Permissible Exposure (MPE): 1000 $\mu\text{W}/\text{cm}^2$
 Maximum power density at ground level: 0.59333 $\mu\text{W}/\text{cm}^2$
 Highest percentage of Maximum Permissible Exposure: 0.05933 %

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
Samsung	CBRS	149	30	1262	0.087365	0.008736	0.297547	0.029755
Samsung	CBRS	149	150	1262	0.087365	0.008736	0.297547	0.029755
Samsung	CBRS	149	270	1262	0.087365	0.008736	0.297547	0.029755