June 30, 2022

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

Re: Exempt Modification Application – AT&T Site 13757774
AT&T Mobility Telecommunications Facility @ 14 Canton Springs Rd., Canton, CT 06019

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC (dba AT&T) currently maintains antennas on a wireless telecommunications facility on an existing American Tower Corporation (ATC) telecommunications tower at the above referenced address. AT&T desires to modify its existing equipment as described in the attached Construction Drawings:

- Remove six (6) antennas, six (6) TMAs, and one (1) DC-8 Squid.
- Install a three (3) sector antenna mount frame, one (1) monopole attachment kit, nine (9) antennas, three (3) RRHs, one (1) squid, six (6) Y cables and one (1) fiber trunk.
- Ground work includes removing three (3) RRHs and twelve (12) Diplexers, install one 6648 and three (3) rectifiers.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A §16-50j-72(b)(2). In accordance with R.C.S.A §16-50j-73, a copy of this letter is being sent to the following individuals: American Tower Corporation as Tower Operator/Owner; Canton Volunteer Fire Department as Property Owner; the Honorable Robert Bessel, Canton First Selectman, and Neil Pade, Canton Director of Planning and Community. The applicant's proposal falls squarely within those activities explicitly provided for in R.C.S.A. §16-50j-89. Specifically:

1. The proposed modifications will NOT result in an increase in the height of the existing structure.
2. The proposed modifications will NOT require an extension of the site boundary.
3. The proposed modifications will NOT increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will NOT increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.
5. The proposed modifications will NOT cause an ineligible change or alteration in the physical or environmental characteristics of the site.

Jack Andrews, Zoning Manager 10130 Donleigh Drive, Columbia, MD 21046 (443) 677-0144
Centerline Communications • 750 W Center Street, Suite 301, W Bridgewater, MA 02379

6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis enclosed herewith.

For the foregoing reasons, AT&T respectfully requests that the Council approve this Exempt Modification request for this tower located at 14 Canton Springs Rd., Canton, CT 06019. If you have any questions, please feel free to contact me.

Sincerely,

Jack Andrews
Zoning Manager, Centerline Communications
443-677-0144

Enclosures:
Exhibit 1 – Letter of Authorization from tower owner
Exhibit 2 – Property Card and GIS
Exhibit 3 – Construction Drawings
Exhibit 4 – Structural Analysis Report
Exhibit 5 – Antenna Mount Analysis Report
Exhibit 6 – EME Study Report
Exhibit 7 – Four (4) Notice Confirmations

Cc:
American Tower Corporation - Tower Operator/Owner
Canton Volunteer Fire Department - Property Owner
The Honorable Robert Bessel – Town of Canton First Selectman
Neil Pade - Canton Director of Planning and Community

AMERICAN TOWER®
CORPORATION

LETTER OF AUTHORIZATION

CENTERLINE COMMUNICATIONS LLC/ AT&T MOBILITY

I, Margaret Robinson, Vice President, US Tower Legal Division on behalf of American Tower*, owner/operator of the tower facility located at the address identified below (the "Tower Facilities"), do hereby authorize AT&T MOBILITY, CENTERLINE COMMUNICATIONS LLC, its successors and assigns, to act as American Tower's non-exclusive agent for the purpose of filing and securing any zoning, land-use, building permit and/or electrical permit application(s) and approvals of the applicable jurisdiction for and to conduct the construction of the installation of antennas and related telecommunications equipment on the Tower Facility located at the above address. This installation shall not affect adjoining lands and will occur only within the area leased by American Tower.

American Tower understands that the application may be denied, modified or approved with conditions. The above authorization is limited to the acceptance by American Tower of conditions related to American Tower's installation. Any such conditions of approval or modifications will not be effective unless approved in writing by American Tower.

The above authorization does not permit AT&T MOBILITY, CENTERLINE COMMUNICATIONS LLC to modify or alter any existing permit(s) and/or zoning or land-use conditions or impose any additional conditions unrelated to American Tower's installation of telecommunications equipment without the prior written approval of American Tower.

*American Tower includes all affiliates and subsidiaries of American Tower Corporation.

ATC Asset #	Site Name	Project Number	Site Address
283420	STONEYBROOK RD CT	13682835	23 Stonybrook Road, Stratford, Connecticut
243036	WEST HAVEN & RT 162 CT	13682841	668 Jones Hill Road, West Haven, Connecticut
302479	Rkhl - Rocky Hill	13683394	699 West Street, Rocky Hill, Connecticut
302537	Middletown CT 3	13747862	47 Inwood Road, Rocky Hill, Connecticut
302535	Milford CT 2	13748383	185 Research Drive, Milford, Connecticut
302473	E H F R - Prestige Park	13748397	310 Prestige Park Road, East Hartford, Connecticut
302505	Wshn - West Haven	13748405	204 Burwell Street, West Haven, Connecticut
302489	Enfd - Enfield	13753208	77 Town Farm Road, Enfield, Connecticut
302524	Beacon Falls	13753210	664 Rimmon Hill Road, Seymour, Connecticut
310968	WSPT-WESTPORT REBUILD CT	13753216	180A Bayberry Lane, Westport, Connecticut
302526	Naugatuck (telephone Pole)	13753218	585 South Main St. (soc. Club), Naugatuck, Connecticut
310972	WATERFORD REBUILD CT	13753547	15 Miner Lane, Waterford, Connecticut
302538	Parsonage Hill Aka Wallin	13753549	922 Northrop Road, Wallingford, Connecticut
370624	Mankes Silo	13754283	1338 Highland Ave, Cheshire, Connecticut

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88017	SHELTON-TRUMBULL	13755484	14 OXFORD DRIVE/BOOTH HILL RD, Shelton, Connecticut
414240	Byram Park CT	13755490	48 RITCH AVENUE WEST, Greenwich, Connecticut
283423	NAUGATUCK CT	13755758	880 Andrew Mountain Road, Naugatuck, Connecticut
302480	Woodbridge CT 1	13756843	77 Pease Road, Woodbridge, Connecticut
411183	WATERFORD CT	13756866	53 Dayton Rd. Waterford, Connecticut
302540	Madison CT 6	13757740	8 Old 79, Madison, Connecticut
411259	CT Collinsville CAC 802816 CT	13757764	650 Albany Turnpike, Collinsville, Connecticut
411256	CANTON CT	13757774	14 CANTON SPRINGS ROAD, Canton, Connecticut
302493	Nrwc - Norwich	13757776	225 Rogers Road, Norwich, Connecticut
302476	Wtbr - Waterbury	13757794	352 Garden Circle, Waterbury, Connecticut
302475	Sttn - Southington	13757796	80 Shuttle Meadow Road, Southington, Connecticut
302494	Hddm - Haddam	13757798	139 Morris Hubbard Rd, Higganum, Connecticut
283419	PINE ORCHARD BRANFORD CT	13757800	123 Pine Orchard Road, Brrandford, Connecticut
302482	North Havent CT 1	13757802	15 Dewight Street, North Haven, Connecticut
302485	Mdfd - Middlefield	13757806	134 Kikapoo Road, Middlefield, Connecticut
302500	Brst - Bristol	13757810	790 Willis Street, Bristol, Connecticut
302467	Bilkays Express	13757812	90 North Plains Industrial Rd. Wallingford, Connecticut
302536	Cherry Hill-branford	13759895	4 Beaver Road, Brandford, Connecticut
302482	North Havent CT 1	14050356	15 Dewight Street, North Haven, Connecticut
311305	GLFD-GUILFORD REBUILD CT	14050358	10 Tanner Marsh Road, Guilford, Connecticut
411261	CROMWELLSW CT	14089799	99 Christian Hill Road, Cromwell, Connecticut
302481	Hrfr - South	14090117	289 Mountain Street, Hartford, Connecticut

Signature: _____

Margaret Robinson, Vice President
US Tower Legal Division

See attached Notary Block

AMERICAN TOWER®
CORPORATION

LETTER OF AUTHORIZATION
CENTERLINE COMMUNICATIONS LLC/ AT&T MOBILITY

NOTARY BLOCK

COMMONWEALTH OF MASSACHUSETTS
County of Middlesex

This instrument was acknowledged before me by Margaret Robinson, Vice President, UST Legal of American Tower (Tower Facility owner), personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same.

WITNESS my hand and official seal, this 30th day of June, 2022.

NOTARY SEAL

MELISSA ANN METZLER
Notary Public
Commonwealth of Massachusetts
My Commission Expires March 14, 2025

Notary Public
My Commission Expires: March 14, 2025

Town of Canton

Geographic Information System (GIS)

Date Printed: 6/30/2022

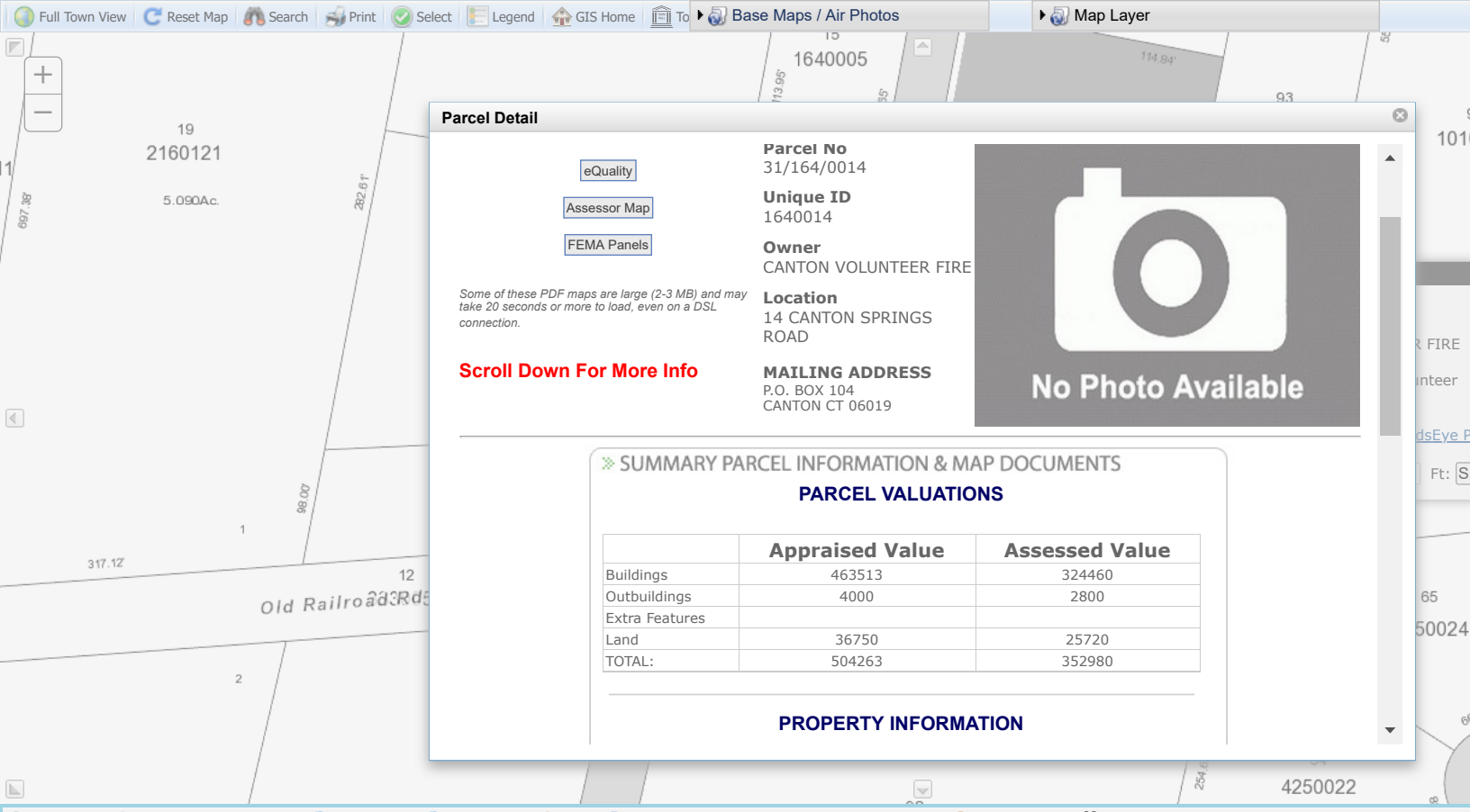
MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Canton and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 100 feet

0 100 Feet

N W E S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1640005
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Old Railroad Rd
317.12'
Parcel Detail
eQuality
Assessor Map
FEMA Panels
Some of these PDF maps are large (2-3 MB) and may take 20 seconds or more to load, even on a DSL connection.
Scroll Down For More Info
Parcel No
31/164/0014
Unique ID
1640014
Owner
CANTON VOLUNTEER FIRE
Location
14 CANTON SPRINGS ROAD
MAILING ADDRESS
P.O. BOX 104
CANTON CT 06019
No Photo Available
SUMMARY PARCEL INFORMATION & MAP DOCUMENTS
PARCEL VALUATIONS
Appraised Value
Assessed Value
Buildings 463513 324460
Outbuildings 4000 2800
Extra Features
Land 36750 25720
TOTAL: 504263 352980
PROPERTY INFORMATION
4250022
Full Extent
Zoom In
Zoom Out
Prev Extent
Next Extent
Pan
Parcel Information
Simple Measure
Path Measure
Area Measure
MapXpress v1.2
Scale: 1 in = 100 ft

Radio Frequency Exposure Analysis Report

June 27, 2022

American Tower on behalf of AT&T
Centerline Communications Project Number: 950035-005

AT&T Site Name: CANTON CT
Site Number: CTL01022
FA#: 10035260
USID: 25969

Site Address: 14 CANTON SPRINGS ROAD, CANTON, CT 06019

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	17.26222 µW/cm^2
Cumulative General Population % MPE (Ground Level):	1.7264600000000001%

750 West Center Street | Suite 301 | West Bridgewater | MA | 02379

June 27, 2022

Centerline
Attn: John Luca, Associate Project Manager
750 W Center St, Suite 301
West Bridgewater, MA 02379

RF Exposure Analysis for Site: **CANTON CT**

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **14 CANTON SPRINGS ROAD, CANTON, CT 06019** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu W/cm^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{MHz}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of 1 mW/cm^2 (1000 $\mu W/cm^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/ controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.

Calculation Methodology

Centerline Communications, LLC has performed theoretical modeling of the site using a software tool, RoofMaster®, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

Data & Results

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at the ground.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.

Maximum Calculated Cumulative Power Density (Location: approximately 290' west of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density ($\mu W/cm^2$)	General Population MPE Limit ($\mu W/cm^2$)	General Population % MPE
AT&T A 1	KATHREIN 840370799	700	12.34	130.00	4.00	30.00	2056.75	0.00000	466.67	0.00000
AT&T A 1	KATHREIN 840370799	1900	14.88	130.00	4.00	30.00	3691.32	0.00000	1000.00	0.00000
AT&T A 1	KATHREIN 840370799	2100	15.26	130.00	4.00	30.00	4028.85	0.00000	1000.00	0.00000
AT&T A 2	Ericsson AIR6449	3700	23.45	128.00	1.00	108.40	23989.95	0.00001	1000.00	0.00000
AT&T A 3	Ericsson AIR6419	3450	23.45	132.00	1.00	108.40	23989.95	0.00001	1000.00	0.00000
AT&T A 4	CCI DMP65R-BU8D	700	12.25	130.00	4.00	30.00	2014.56	0.00000	466.67	0.00000
AT&T A 4	CCI DMP65R-BU8D	850	12.55	130.00	4.00	30.00	2158.65	0.00000	566.67	0.00000
AT&T A 4	CCI DMP65R-BU8D	2300	14.95	130.00	4.00	18.00	2250.78	0.00000	1000.00	0.00000
AT&T B 5	KATHREIN 840370799	700	12.34	130.00	4.00	30.00	2056.75	0.00000	466.67	0.00000
AT&T B 5	KATHREIN 840370799	1900	14.88	130.00	4.00	30.00	3691.32	0.00000	1000.00	0.00000
AT&T B 5	KATHREIN 840370799	2100	15.26	130.00	4.00	30.00	4028.85	0.00000	1000.00	0.00000
AT&T B 6	Ericsson AIR6449	3700	23.45	128.00	1.00	108.40	23989.95	0.00002	1000.00	0.00000
AT&T B 7	Ericsson AIR6419	3450	23.45	132.00	1.00	108.40	23989.95	0.00002	1000.00	0.00000
AT&T B 8	CCI DMP65R-BU8D	700	12.25	130.00	4.00	30.00	2014.56	0.00000	466.67	0.00000
AT&T B 8	CCI DMP65R-BU8D	850	12.55	130.00	4.00	30.00	2158.65	0.00000	566.67	0.00000
AT&T B 8	CCI DMP65R-BU8D	2300	14.95	130.00	4.00	18.00	2250.78	0.00000	1000.00	0.00000
AT&T C 9	KATHREIN 840370799	700	12.34	130.00	4.00	30.00	2056.75	0.00028	466.67	0.00006
AT&T C 9	KATHREIN 840370799	1900	14.88	130.00	4.00	30.00	3691.32	0.00024	1000.00	0.00002
AT&T C 9	KATHREIN 840370799	2100	15.26	130.00	4.00	30.00	4028.85	0.00031	1000.00	0.00003
AT&T C 10	Ericsson AIR6449	3700	23.45	128.00	1.00	108.40	23989.95	0.00166	1000.00	0.00017
AT&T C 11	Ericsson AIR6419	3450	23.45	132.00	1.00	108.40	23989.95	0.00124	1000.00	0.00012
AT&T C 12	CCI DMP65R-BU8D	700	12.25	130.00	4.00	30.00	2014.56	0.00040	466.67	0.00009
AT&T C 12	CCI DMP65R-BU8D	850	12.55	130.00	4.00	30.00	2158.65	0.00024	566.67	0.00004
AT&T C 12	CCI DMP65R-BU8D	2300	14.95	130.00	4.00	18.00	2250.78	0.00017	1000.00	0.00002
T-Mobile A 13	GENERIC PANEL 6FT	1900	15.84	120.00	2.00	60.00	4604.49	0.00000	1000.00	0.00000
T-Mobile A 14	GENERIC PANEL 6FT	600	12.33	120.00	2.00	60.00	2052.02	0.00000	400.00	0.00000
T-Mobile A 15	GENERIC PANEL 6FT	700	12.33	120.00	2.00	60.00	2052.02	0.00000	466.67	0.00000
T-Mobile A 16	GENERIC PANEL 6FT	2100	15.84	120.00	2.00	60.00	4604.49	0.00000	1000.00	0.00000
T-Mobile B 17	GENERIC PANEL 6FT	1900	15.84	120.00	2.00	60.00	4604.49	0.00000	1000.00	0.00000
T-Mobile B 18	GENERIC PANEL 6FT	600	12.33	120.00	2.00	60.00	2052.02	0.00000	400.00	0.00000
T-Mobile B 19	GENERIC PANEL 6FT	700	12.33	120.00	2.00	60.00	2052.02	0.00000	466.67	0.00000
T-Mobile B 20	GENERIC PANEL 6FT	2100	15.84	120.00	2.00	60.00	4604.49	0.00000	1000.00	0.00000
T-Mobile C 21	GENERIC PANEL 6FT	1900	15.84	120.00	2.00	60.00	4604.49	0.00019	1000.00	0.00002
T-Mobile C 22	GENERIC PANEL 6FT	600	12.33	120.00	2.00	60.00	2052.02	0.00017	400.00	0.00004
T-Mobile C 23	GENERIC PANEL 6FT	700	12.33	120.00	2.00	60.00	2052.02	0.00017	466.67	0.00004

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density (µW/cm²)	General Population MPE Limit (µW/cm²)	General Population % MPE
T-Mobile C 24	GENERIC PANEL 6FT	2100	15.84	120.00	2.00	60.00	4604.49	0.00019	1000.00	0.00002
Verizon A 25	GENERIC PANEL 6FT	850	12.62	100.00	4.00	40.00	2924.96	0.00000	566.67	0.00000
Verizon A 26	GENERIC PANEL 6FT	1900	15.84	100.00	4.00	40.00	6139.32	0.00000	1000.00	0.00000
Verizon A 27	GENERIC PANEL 6FT	2100	16.39	100.00	4.00	40.00	6968.19	0.00000	1000.00	0.00000
Verizon A 28	GENERIC PANEL 6FT	700	12.33	100.00	4.00	40.00	2736.02	0.00000	466.67	0.00000
Verizon B 29	GENERIC PANEL 6FT	850	12.62	100.00	4.00	40.00	2924.96	0.00000	566.67	0.00000
Verizon B 30	GENERIC PANEL 6FT	1900	15.84	100.00	4.00	40.00	6139.32	0.00000	1000.00	0.00000
Verizon B 31	GENERIC PANEL 6FT	2100	16.39	100.00	4.00	40.00	6968.19	0.00000	1000.00	0.00000
Verizon B 32	GENERIC PANEL 6FT	700	12.33	100.00	4.00	40.00	2736.02	0.00000	466.67	0.00000
Verizon C 33	GENERIC PANEL 6FT	850	12.62	100.00	4.00	40.00	2924.96	0.00044	566.67	0.00008
Verizon C 34	GENERIC PANEL 6FT	1900	15.84	100.00	4.00	40.00	6139.32	0.00044	1000.00	0.00004
Verizon C 35	GENERIC PANEL 6FT	2100	16.39	100.00	4.00	40.00	6968.19	0.00046	1000.00	0.00005
Verizon C 36	GENERIC PANEL 6FT	700	12.33	100.00	4.00	40.00	2736.02	0.00042	466.67	0.00009
Sprint A 37	GENERIC PANEL 6FT	862	12.62	94.00	2.00	40.00	1462.48	0.00000	574.67	0.00000
Sprint A 37	GENERIC PANEL 6FT	1900	15.84	94.00	2.00	60.00	4604.49	0.00000	1000.00	0.00000
Sprint A 38	GENERIC PANEL 6FT	2500	14.49	94.00	1.00	34.70	975.73	0.00000	1000.00	0.00000
Sprint B 39	GENERIC PANEL 6FT	862	12.62	94.00	2.00	40.00	1462.48	0.00000	574.67	0.00000
Sprint B 39	GENERIC PANEL 6FT	1900	15.84	94.00	2.00	60.00	4604.49	0.00000	1000.00	0.00000
Sprint B 40	GENERIC PANEL 6FT	2500	14.49	94.00	1.00	34.70	975.73	0.00000	1000.00	0.00000
Sprint C 41	GENERIC PANEL 6FT	862	12.62	94.00	2.00	40.00	1462.48	0.00019	574.67	0.00003
Sprint C 41	GENERIC PANEL 6FT	1900	15.84	94.00	2.00	60.00	4604.49	0.00031	1000.00	0.00003
Sprint C 42	GENERIC PANEL 6FT	2500	14.49	94.00	1.00	34.70	975.73	0.00010	1000.00	0.00001
							Cumulative Power Density:	**17.26222 µW/cm²**	**Cumulative % MPE:**	**1.72646%**

Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **Compliant** with FCC rules and regulations.

Katrina Styx
RF EME Technical Writer
Centerline Communications, LLC

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

TOWER ENGINEERING PROFESSIONALS

Antenna Mount Analysis Report

ATC Site Name	:	Canton CT, CT
ATC Site Number	:	411256
Engineering Number	:	13757774_C8_01
Mount Elevation	:	130 ft
Carrier	:	AT&T Mobility
Carrier Site Name	:	MRCTB055481
Carrier Site Number	:	CTL01022
Site Location	:	14 Canton Springs Road Canton, CT 06019-2401 41.8229, -72.8952
County	:	Hartford
Date	:	April 1, 2022
Max Usage	:	54%
Result	:	Replacement (Pass)

Prepared By:
Sean D. Jones, P.E.
TEP # 69007.677391

Reviewed By:

STATE OF CONNECTICUT
AARON THOMAS RUCKER
32608
LICENSED
PROFESSIONAL ENGINEER

04/01/2022

Table of Contents

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 130 ft.

Supporting Documents

Spec. Sheet	Spec Sheet for Sabre C10857003C (CONMAT ANT.17195)
Spec. Sheet	Spec Sheet for Sabre C10-899-055 (CONMAT ANT.46140)
RFDS	RFDS dated February 15, 2022
Photos	Site photos from 2020

Analysis

This antenna mount was analyzed using RISA-3D v17 analysis software

Basic Wind Speed:	116 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) with 1.50 inch ice thickness
Codes:	ANSI/TIA-222-H
Risk Category:	II
Exposure Category:	B
Topographic Factor Procedure:	Method 2
Kzt:	1.000
Spectral Response:	Ss = 0.177, S_1 = 0.054
Site Class:	D - Default
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

Conclusion

Due to customer antenna spacing/separation requirements, the existing mount cannot support the equipment as described in this report and must be replaced with the mount listed below. Based on the analysis results, the proposed mount meets the requirements, per the applicable codes listed above, and can support the equipment as described in this report.

- Analysis is based on new Sabre C10857003C Sector Mounts (CONMAT ANT.17195) with a Sabre C10-899-055 Monopole Attachment Kit (CONMAT ANT. 46140)

If the load differs from that described in this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

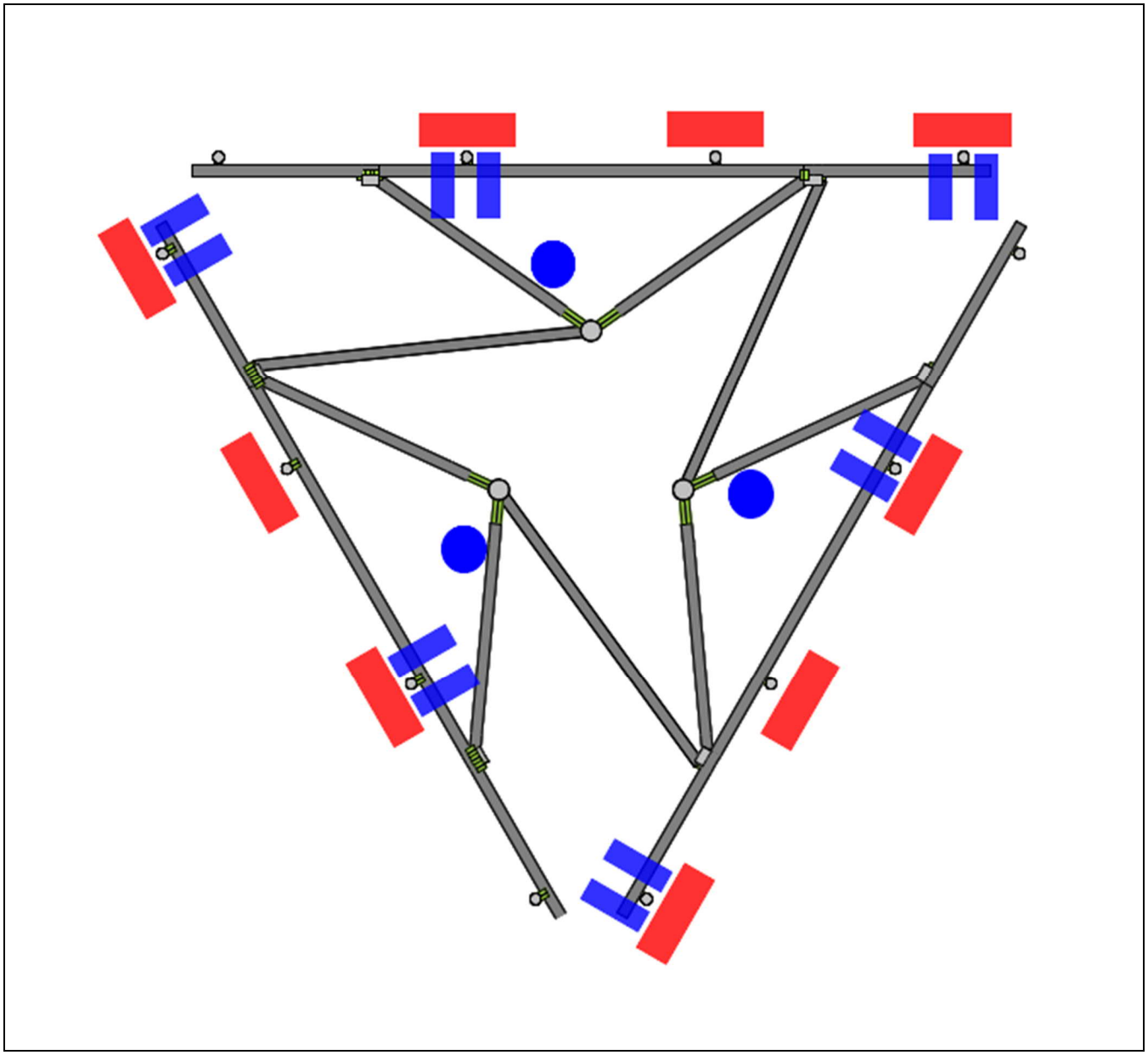
Antenna Loading

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
130.0	132.0	3	Ericsson Air 6449 B77D
	130.0	3	CCI DMP65R-BU8D
		3	Kathrein Scala 840370799
		1	Raycap DC9-48-60-24-8C-EV
		2	Raycap DC6-48-60-18-8F
		3	Ericsson RRUS 4449 B5, B12
		3	Ericsson RRUS 32 B30
		3	Ericsson RRUS 4478 B14
		3	Ericsson RRUS 8843 B2, B66A
	128.0	3	Ericsson AIR 6419 B77G

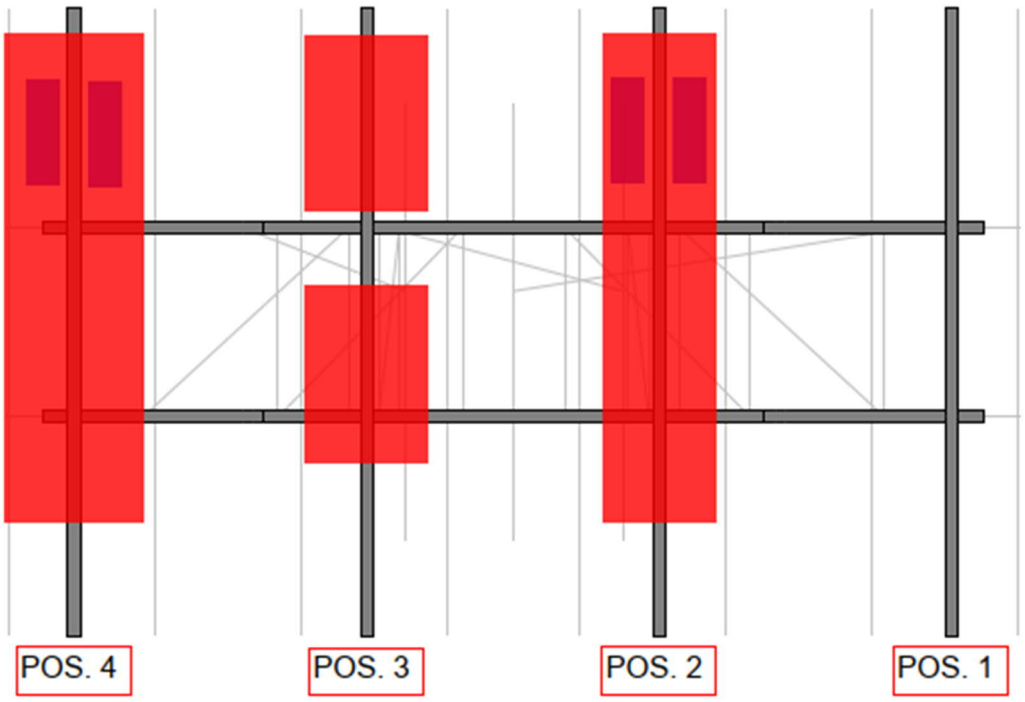
Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Horizontals	41%	Pass
Bracing	20%	Pass
Mount Pipes	54%	Pass
Tower Connection	18%	Pass

Mount Layout



Equipment Layout



Standard Conditions

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

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of TEP

It is the responsibility of the client to ensure that the information provided to TEP and used in the performance of our engineering services is correct and complete.

TEP assumes that all structures were constructed in accordance with the drawings and specifications.

TEP assumes that the mount has been maintained in accordance with the manufacturer's specification.

TEP assumes that all mount components are in sufficient condition to carry their full design capacity for this analysis.

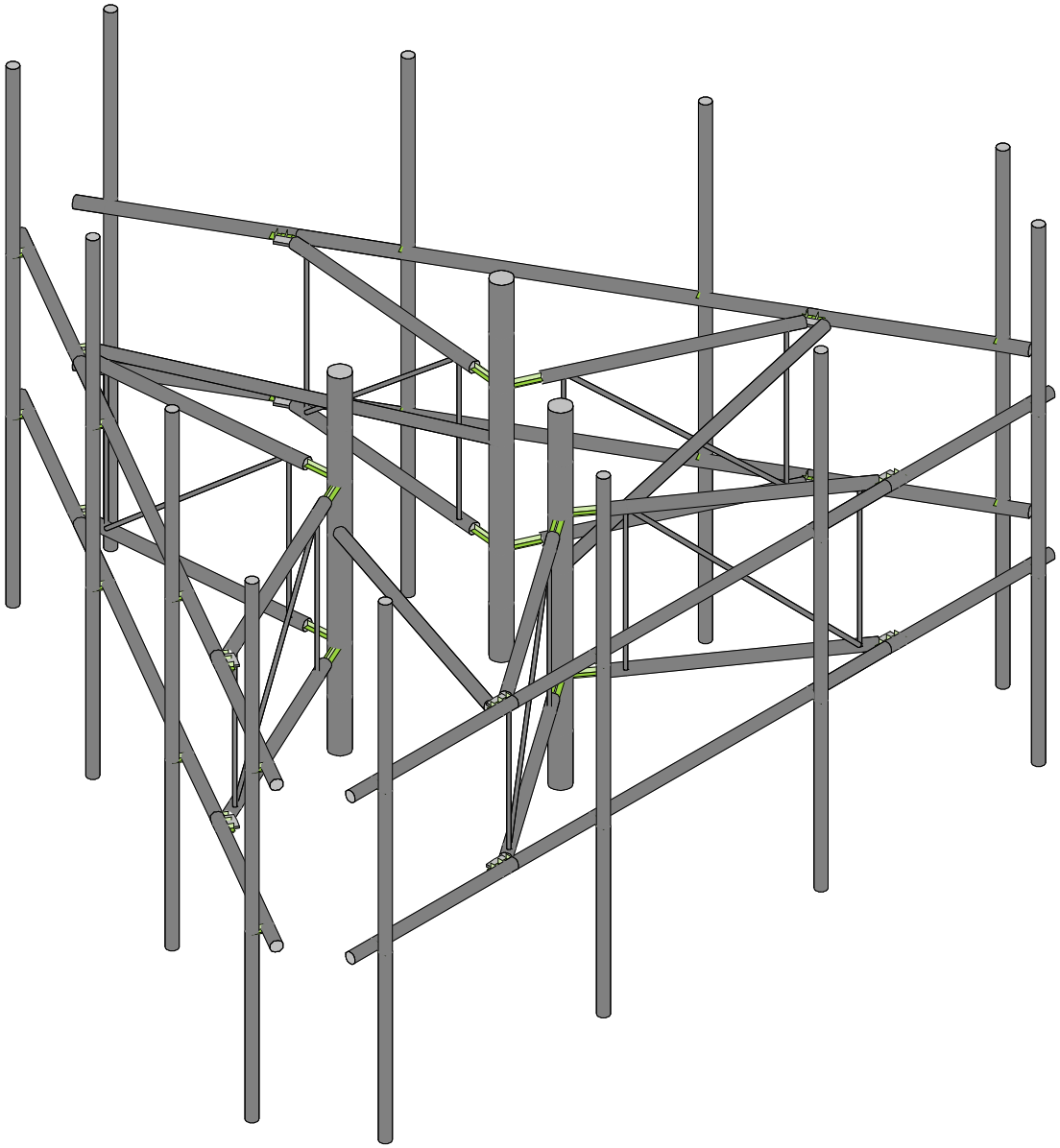
Serviceability with respect to antenna twist, tilt, roll, or lateral translation, is not checked and is left to the carrier or tower owner to ensure conformance.

All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA 3-D output for confirmation on grades used in this analysis.

All connections are to be verified for condition and tightness by the installation contractor preceding any changes to the appurtenance mounting system and/or equipment attached to it.

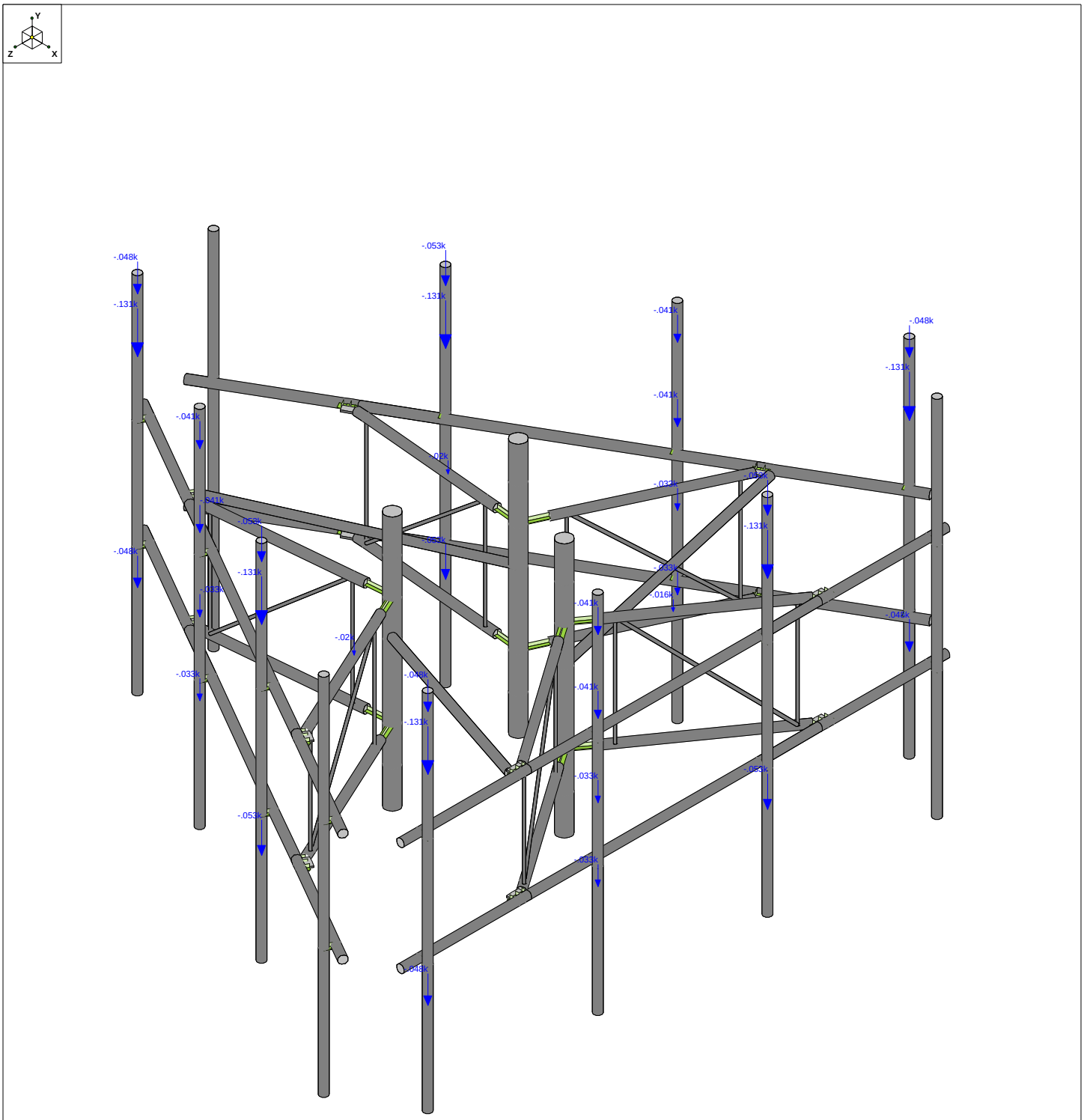
Unless explicitly agreed by both the client and TEP, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. TEP is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



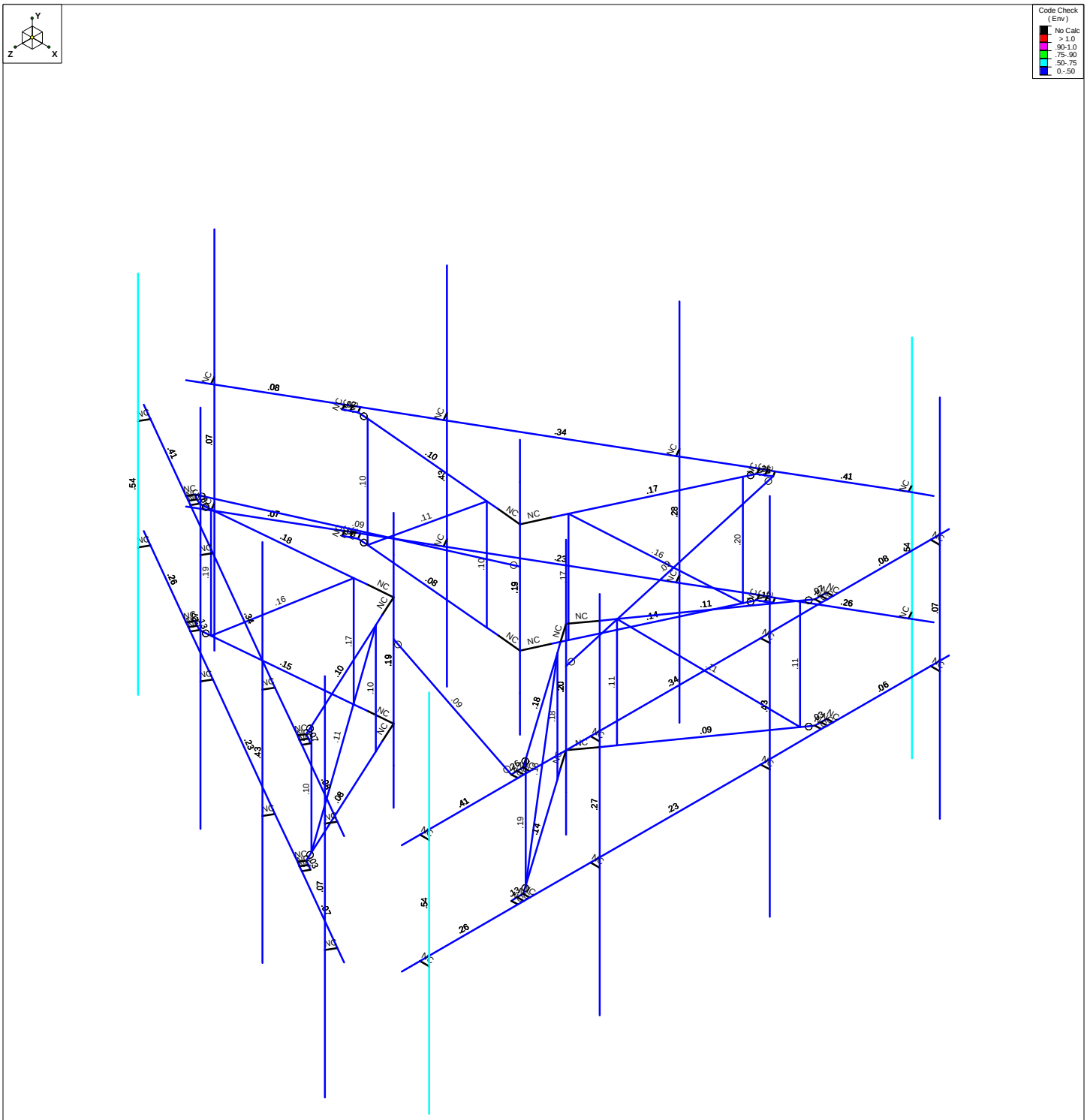
Envelope Only Solution

Tower Engineering Profess...		SK - 1
SDJ	ATC 411256	Apr 1, 2022 at 1:46 PM
TEP No. 69007.677391		Sabre C10857003 HD V-Boom.r3d



Loads: BLC 1, Dead
Envelope Only Solution

Tower Engineering Profess...		SK - 2
SDJ	ATC 411256	Apr 1, 2022 at 1:47 PM
TEP No. 69007.677391		Sabre C10857003 HD V-Boom.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profess...		SK - 3
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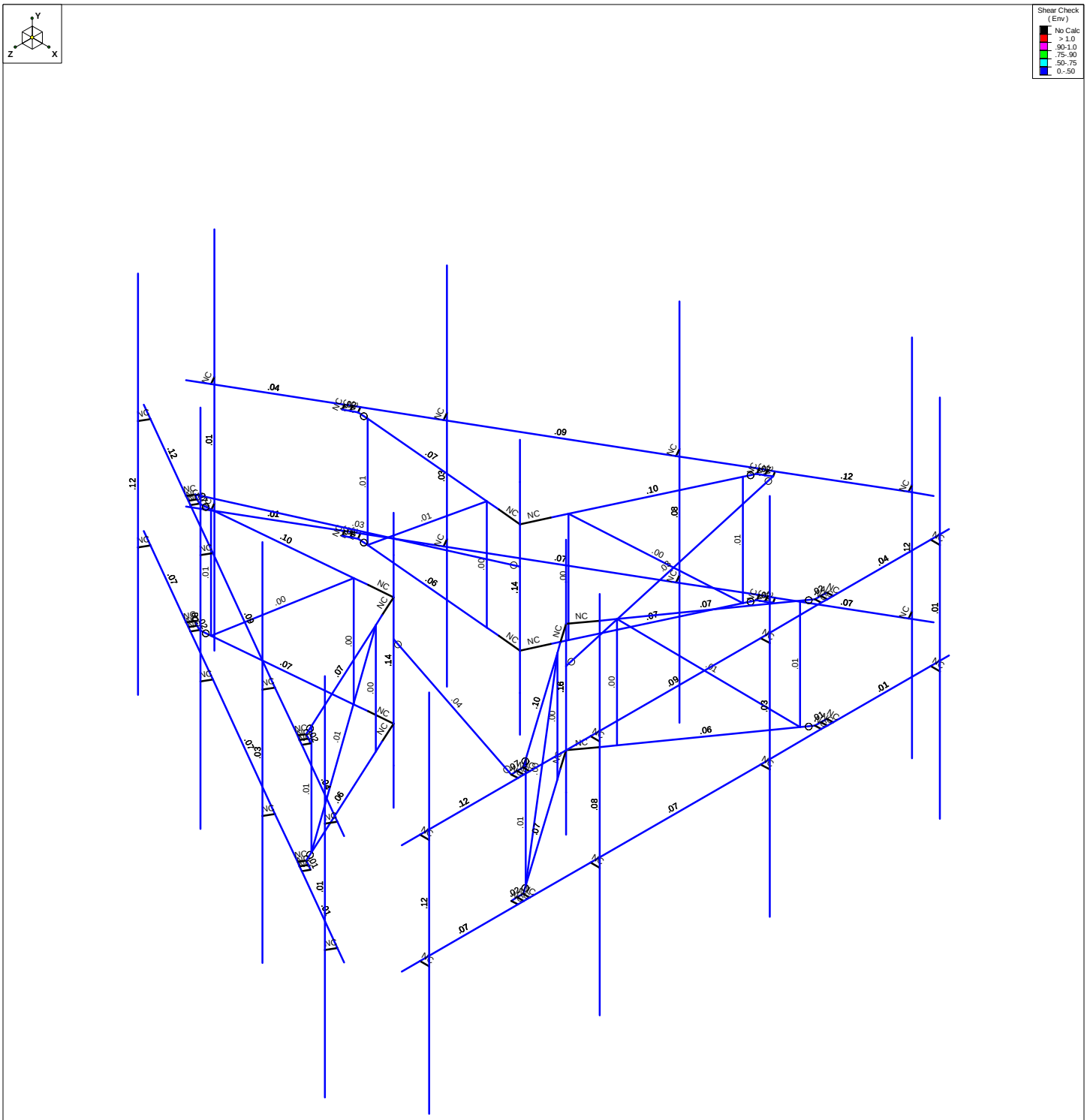
TEP No. 69007.677391		Sabre C10857003 HD V-Boom.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profess...		SK - 4
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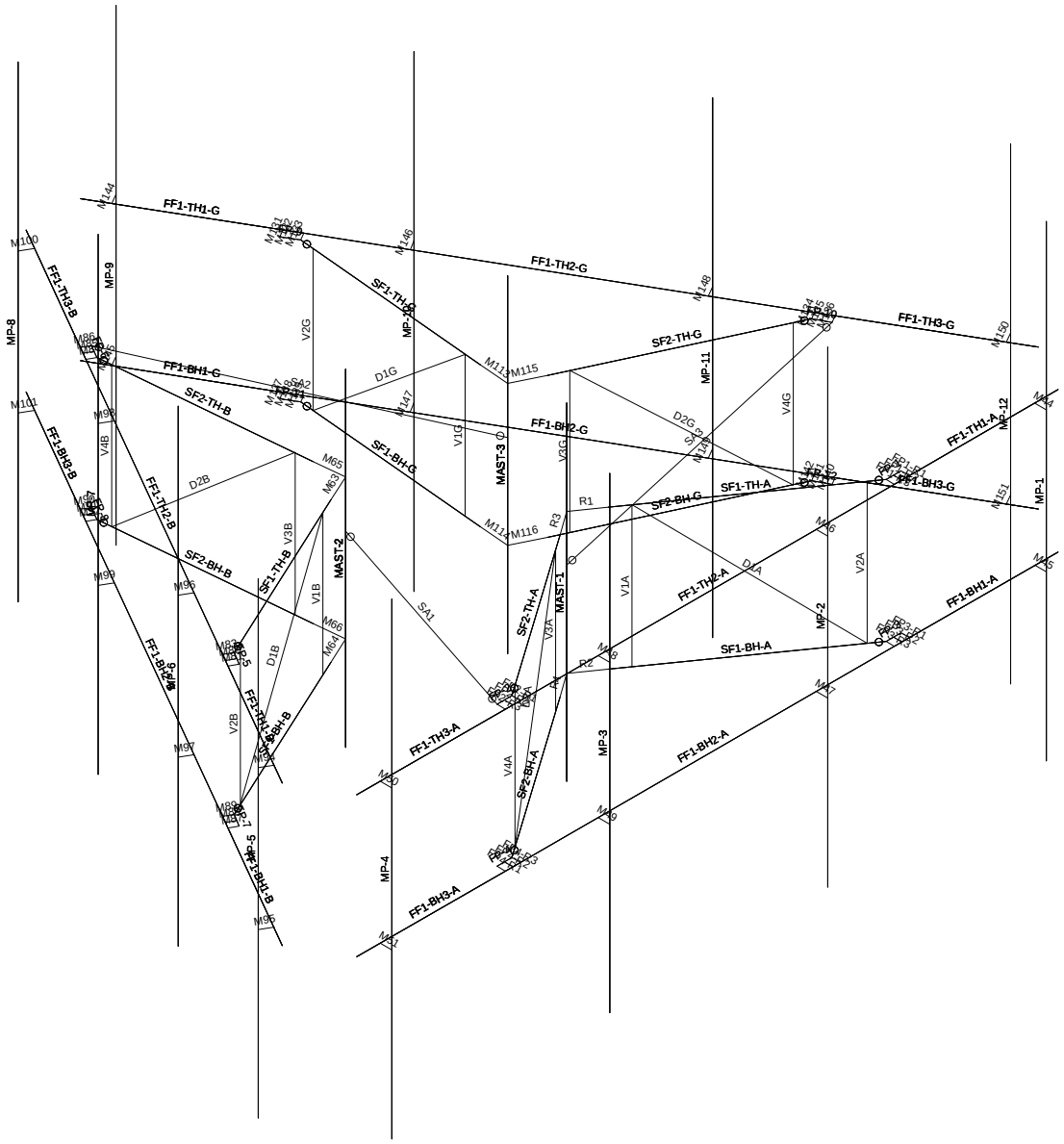
TEP No. 69007.677391		Sabre C10857003 HD V-Boom.r3d



Envelope Only Solution

Tower Engineering Profess...		SK - 5
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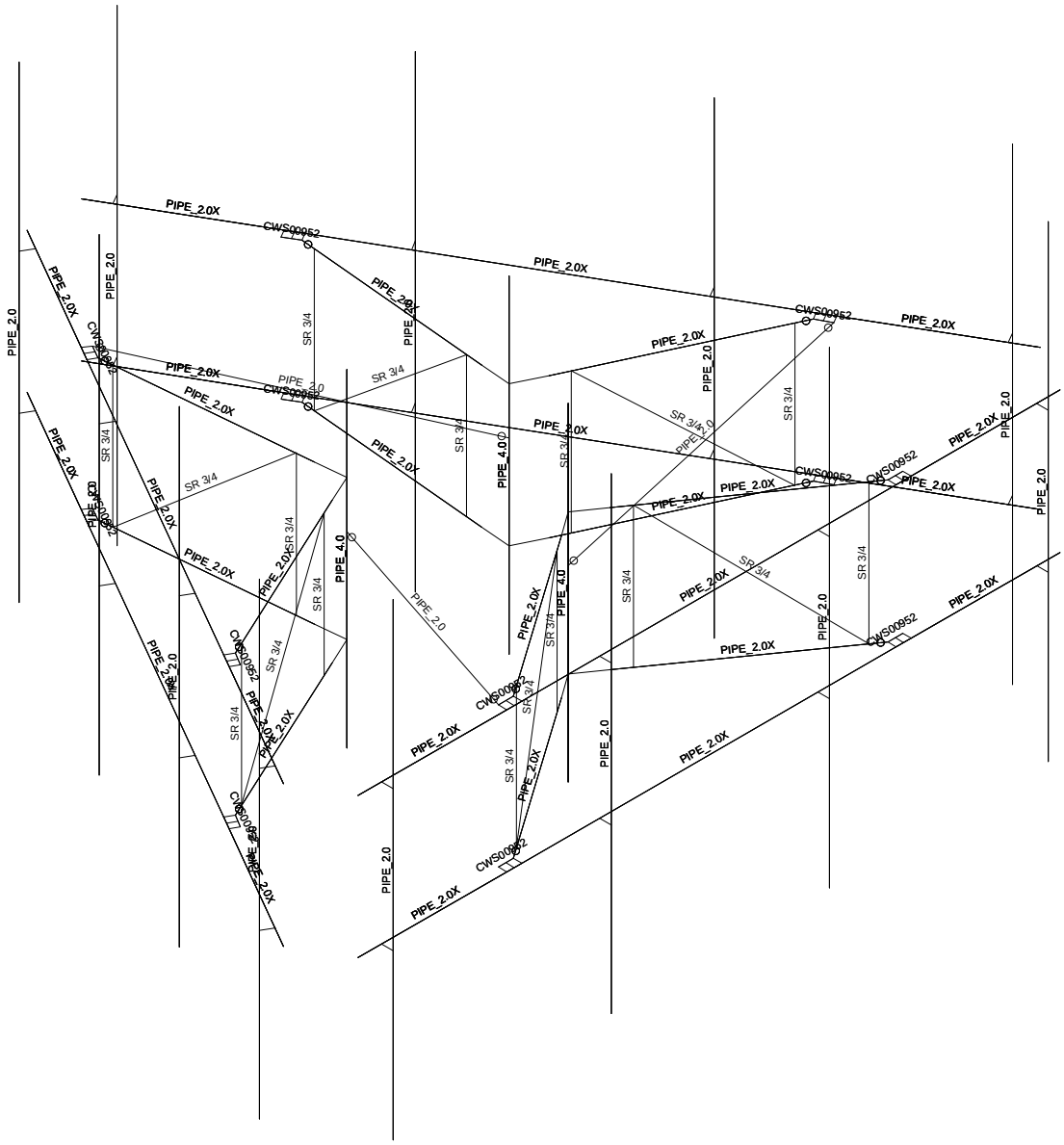
TEP No. 69007.677391		Sabre C10857003 HD V-Boom.r3d



Envelope Only Solution

Tower Engineering Profess...		SK - 6
SDJ	ATC 411256	Apr 1, 2022 at 1:49 PM
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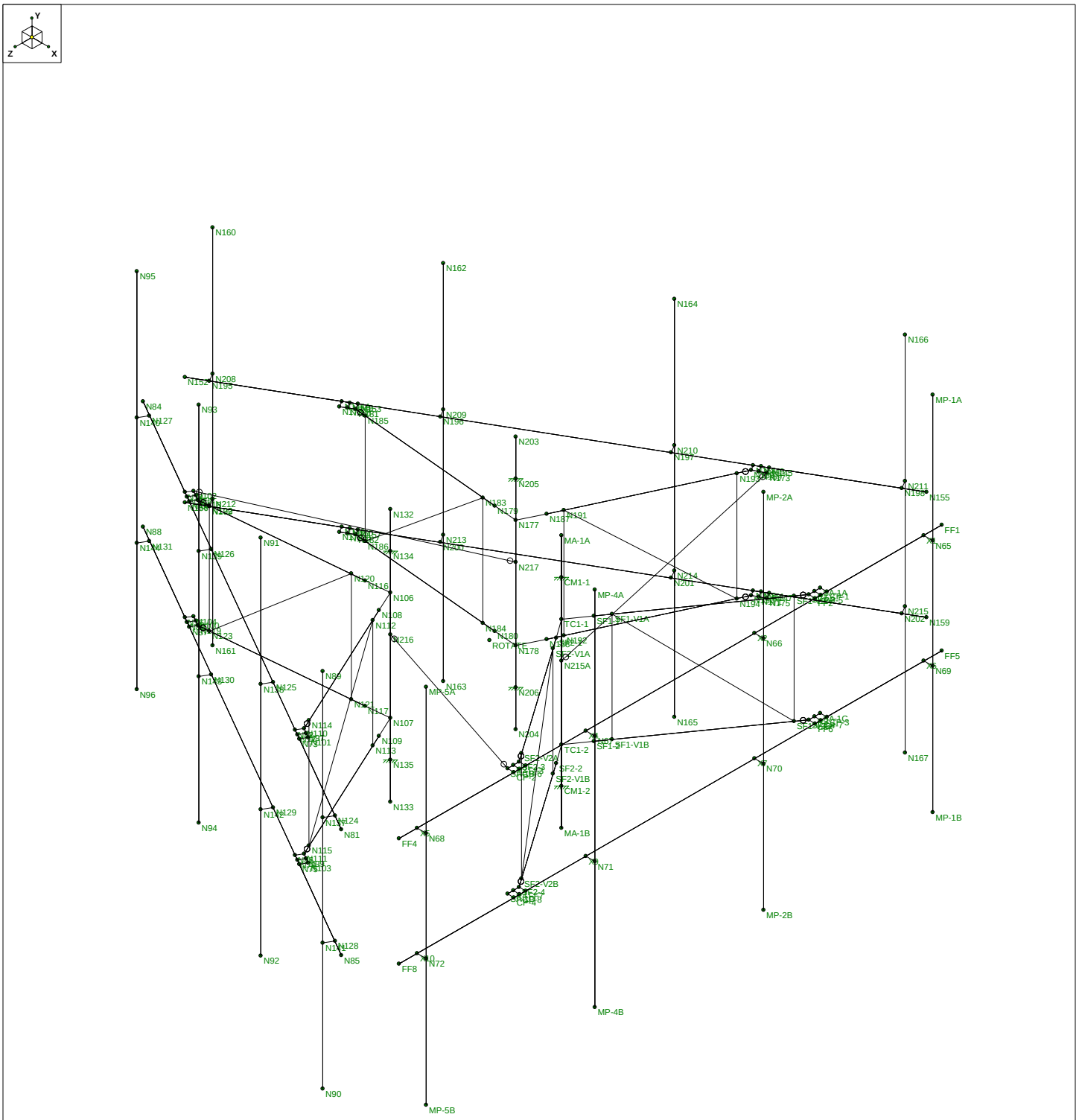

Envelope Only Solution

Tower Engineering Profess...		SK - 7
SDJ	ATC 411256	Apr 1, 2022 at 1:49 PM
TEP No. 69007.677391		Sabre C10857003 HD V-Boom.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Dead	None		-1			39			
2	0 Wind - No Ice	None					39	78		
3	30 Wind - No Ice	None					78	156		
4	45 Wind - No Ice	None					78	156		
5	60 Wind - No Ice	None					78	156		
6	90 Wind - No Ice	None					39	78		
7	120 Wind - No Ice	None					78	156		
8	135 Wind - No Ice	None					78	156		
9	150 Wind - No Ice	None					78	156		
10	180 Wind - No Ice	None					39	78		
11	210 Wind - No Ice	None					78	156		
12	225 Wind - No Ice	None					78	156		
13	240 Wind - No Ice	None					78	156		
14	270 Wind - No Ice	None					39	78		
15	300 Wind - No Ice	None					78	156		
16	315 Wind - No Ice	None					78	156		
17	330 Wind - No Ice	None					78	156		
18	Ice Weight	None					39	78		
19	0 Wind - Ice	None					39	78		
20	30 Wind - Ice	None					78	156		
21	45 Wind - Ice	None					78	156		
22	60 Wind - Ice	None					78	156		
23	90 Wind - Ice	None					39	78		
24	120 Wind - Ice	None					78	156		
25	135 Wind - Ice	None					78	156		
26	150 Wind - Ice	None					78	156		
27	180 Wind - Ice	None					39	78		
28	210 Wind - Ice	None					78	156		
29	225 Wind - Ice	None					78	156		
30	240 Wind - Ice	None					78	156		
31	270 Wind - Ice	None					39	78		
32	300 Wind - Ice	None					78	156		
33	315 Wind - Ice	None					78	156		
34	330 Wind - Ice	None					78	156		
35	Lm	None				3				
36	Lv	None				3				
37	Seismic Load X	ELX	-1				39			
38	Seismic Load Z	ELZ			-1		39			

Load Combinations

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

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

Apr 1, 2022
1:51 PM
Checked By: JWS

Load Combinations (Continued)

	Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
20	1.2D+1.0 45-Wind	Yes	Y		1	1.2	4	1																		
21	1.2D+1.0 60-Wind	Yes	Y		1	1.2	5	1																		
22	1.2D+1.0 90-Wind	Yes	Y		1	1.2	6	1																		
23	1.2D+1.0 120-Wind	Yes	Y		1	1.2	7	1																		
24	1.2D+1.0 135-Wind	Yes	Y		1	1.2	8	1																		
25	1.2D+1.0 150-Wind	Yes	Y		1	1.2	9	1																		
26	1.2D+1.0 180-Wind	Yes	Y		1	1.2	10	1																		
27	1.2D+1.0 210-Wind	Yes	Y		1	1.2	11	1																		
28	1.2D+1.0 225-Wind	Yes	Y		1	1.2	12	1																		
29	1.2D+1.0 240-Wind	Yes	Y		1	1.2	13	1																		
30	1.2D+1.0 270-Wind	Yes	Y		1	1.2	14	1																		
31	1.2D+1.0 300-Wind	Yes	Y		1	1.2	15	1																		
32	1.2D+1.0 315-Wind	Yes	Y		1	1.2	16	1																		
33	1.2D+1.0 330-Wind	Yes	Y		1	1.2	17	1																		
34	1.2D+1.0Di+1.0 0-Wind Ice	Yes	Y		1	1.2	18	1	19	1																
35	1.2D+1.0Di+1.0 30-Wind Ice	Yes	Y		1	1.2	18	1	20	1																
36	1.2D+1.0Di+1.0 45-Wind Ice	Yes	Y		1	1.2	18	1	21	1																
37	1.2D+1.0Di+1.0 60-Wind Ice	Yes	Y		1	1.2	18	1	22	1																
38	1.2D+1.0Di+1.0 90-Wind Ice	Yes	Y		1	1.2	18	1	23	1																
39	1.2D+1.0Di+1.0 120-Wind Ice	Yes	Y		1	1.2	18	1	24	1																
40	1.2D+1.0Di+1.0 135-Wind Ice	Yes	Y		1	1.2	18	1	25	1																
41	1.2D+1.0Di+1.0 150-Wind Ice	Yes	Y		1	1.2	18	1	26	1																
42	1.2D+1.0Di+1.0 180-Wind Ice	Yes	Y		1	1.2	18	1	27	1																
43	1.2D+1.0Di+1.0 210-Wind Ice	Yes	Y		1	1.2	18	1	28	1																
44	1.2D+1.0Di+1.0 225-Wind Ice	Yes	Y		1	1.2	18	1	29	1																
45	1.2D+1.0Di+1.0 240-Wind Ice	Yes	Y		1	1.2	18	1	30	1																
46	1.2D+1.0Di+1.0 270-Wind Ice	Yes	Y		1	1.2	18	1	31	1																
47	1.2D+1.0Di+1.0 300-Wind Ice	Yes	Y		1	1.2	18	1	32	1																
48	1.2D+1.0Di+1.0 315-Wind Ice	Yes	Y		1	1.2	18	1	33	1																
49	1.2D+1.0Di+1.0 330-Wind Ice	Yes	Y		1	1.2	18	1	34	1																
50	1.2D+1.5Lv	Yes	Y		36	1.5	1	1.2																		
51	1.2D+1.5Lm+1.0 0-Wind	Yes	Y		1	1.2	2	.067	35	1.5																
52	1.2D+1.5Lm+1.0 30-Wind	Yes	Y		1	1.2	3	.067	35	1.5																
53	1.2D+1.5Lm+1.0 45-Wind	Yes	Y		1	1.2	4	.067	35	1.5																
54	1.2D+1.5Lm+1.0 60-Wind	Yes	Y		1	1.2	5	.067	35	1.5																
55	1.2D+1.5Lm+1.0 90-Wind	Yes	Y		1	1.2	6	.067	35	1.5																
56	1.2D+1.5Lm+1.0 120-Wind	Yes	Y		1	1.2	7	.067	35	1.5																
57	1.2D+1.5Lm+1.0 135-Wind	Yes	Y		1	1.2	8	.067	35	1.5																
58	1.2D+1.5Lm+1.0 150-Wind	Yes	Y		1	1.2	9	.067	35	1.5																
59	1.2D+1.5Lm+1.0 180-Wind	Yes	Y		1	1.2	10	.067	35	1.5																
60	1.2D+1.5Lm+1.0 210-Wind	Yes	Y		1	1.2	11	.067	35	1.5																
61	1.2D+1.5Lm+1.0 225-Wind	Yes	Y		1	1.2	12	.067	35	1.5																
62	1.2D+1.5Lm+1.0 240-Wind	Yes	Y		1	1.2	13	.067	35	1.5																
63	1.2D+1.5Lm+1.0 270-Wind	Yes	Y		1	1.2	14	.067	35	1.5																
64	1.2D+1.5Lm+1.0 300-Wind	Yes	Y		1	1.2	15	.067	35	1.5																
65	1.2D+1.5Lm+1.0 315-Wind	Yes	Y		1	1.2	16	.067	35	1.5																
66	1.2D+1.5Lm+1.0 330-Wind	Yes	Y		1	1.2	17	.067	35	1.5																
67	(1.2+0.2Sds)D+1.0 0 Seismic	Yes	Y		1	1.2...	E...	.095	0																	
68	(1.2+0.2Sds)D+1.0 30 Seismic	Yes	Y		1	1.2...	E...	.082	E...	.047																
69	(1.2+0.2Sds)D+1.0 45 Seismic	Yes	Y		1	1.2...	E...	.067	E...	.067																
70	(1.2+0.2Sds)D+1.0 60 Seismic	Yes	Y		1	1.2...	E...	.047	E...	.082																
71	(1.2+0.2Sds)D+1.0 90 Seismic	Yes	Y		1	1.2...	0		E...	.095																
72	(1.2+0.2Sds)D+1.0 120 Seismic	Yes	Y		1	1.2...	E...	-0...	E...	.082																
73	(1.2+0.2Sds)D+1.0 135 Seismic	Yes	Y		1	1.2...	E...	-0...	E...	.067																
74	(1.2+0.2Sds)D+1.0 150 Seismic	Yes	Y		1	1.2...	E...	-0...	E...	.047																
75	(1.2+0.2Sds)D+1.0 180 Seismic	Yes	Y		1	1.2...	E...	-0...	0																	
76	(1.2+0.2Sds)D+1.0 210 Seismic	Yes	Y		1	1.2...	E...	-0...	E...	-0...																
77	(1.2+0.2Sds)D+1.0 225 Seismic	Yes	Y		1	1.2...	E...	-0...	E...	-0...																
78	(1.2+0.2Sds)D+1.0 240 Seismic	Yes	Y		1	1.2...	E...	-0...	E...	-0...																
79	(1.2+0.2Sds)D+1.0 270 Seismic	Yes	Y		1	1.2...	0		E...	-0...																
80	(1.2+0.2Sds)D+1.0 300 Seismic	Yes	Y		1	1.2...	E...	.047	E...	-0...																
81	(1.2+0.2Sds)D+1.0 315 Seismic	Yes	Y		1	1.2...	E...	.067	E...	-0...																
82	(1.2+0.2Sds)D+1.0 330 Seismic	Yes	Y		1	1.2...	E...	.082	E...	-0...																

Load Combinations (Continued)

	Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
83	(0.9-0.2Sds)*DL+1.0 0 Seismic	Yes	Y		1	.862	E...	.095	0																	
84	(0.9-0.2Sds)*DL+1.0 30 Seismic	Yes	Y		1	.862	E...	.082	E...	.047																
85	(0.9-0.2Sds)*DL+1.0 Seismic	Yes	Y		1	.862	E...	.067	E...	.067																
86	(0.9-0.2Sds)*DL+1.0 60 Seismic	Yes	Y		1	.862	E...	.047	E...	.082																
87	(0.9-0.2Sds)*DL+1.0 90 Seismic	Yes	Y		1	.862	0		E...	.095																
88	(0.9-0.2Sds)*DL+1.0 120 Seismic	Yes	Y		1	.862	E...	-.0...	E...	.082																
89	(0.9-0.2Sds)*DL+1.0 135 Seismic	Yes	Y		1	.862	E...	-.0...	E...	.067																
90	(0.9-0.2Sds)*DL+1.0 150 Seismic	Yes	Y		1	.862	E...	-.0...	E...	.047																
91	(0.9-0.2Sds)*DL+1.0 180 Seismic	Yes	Y		1	.862	E...	-.0...	0																	
92	(0.9-0.2Sds)*DL+1.0 210 Seismic	Yes	Y		1	.862	E...	-.0...	E...	-.0...																
93	(0.9-0.2Sds)*DL+1.0 225 Seismic	Yes	Y		1	.862	E...	-.0...	E...	-.0...																
94	(0.9-0.2Sds)*DL+1.0 240 Seismic	Yes	Y		1	.862	E...	-.0...	E...	-.0...																
95	(0.9-0.2Sds)*DL+1.0 270 Seismic	Yes	Y		1	.862	0		E...	-.0...																
96	(0.9-0.2Sds)*DL+1.0 300 Seismic	Yes	Y		1	.862	E...	.047	E...	-.0...																
97	(0.9-0.2Sds)*DL+1.0 315 Seismic	Yes	Y		1	.862	E...	.067	E...	-.0...																
98	(0.9-0.2Sds)*DL+1.0 330 Seismic	Yes	Y		1	.862	E...	.082	E...	-.0...																

(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)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISAConnection Code	None
Cold Formed Steel Code	None
Wood Code	None
Wood Temperature	< 100F
Concrete Code	None
Masonry Code	None
Aluminum Code	None - Building
Stainless Steel Code	None

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

Apr 1, 2022
1:51 PM
Checked By: JWS

(Global) Model Settings, Continued

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	Yes
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8

Seismic Code	ASCE 7-10
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
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	1
Cd X	1
Rho Z	1
Rho X	1

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Fu[ksi]
1	A653 SS Gr33	29500	11346	.3	.65	.49	33	45
2	A653 SS Gr50/1	29500	11346	.3	.65	.49	50	65

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE_2.0X	None	None	A572 Gr.50	Typical	1.4	.827	.827	1.65
2	Support Horizontal	PIPE_2.0X	None	None	A572 Gr.50	Typical	1.4	.827	.827	1.65
3	Mount Pipes	PIPE_2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Support Bracing	SR 3/4	None	None	A572 Gr.50	Typical	.442	.016	.016	.031

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
5	Monopole Attachment	PIPE_4.0	None	None	A53 Gr.B	Typical	2.96	6.82	6.82	13.6
6	Stabilizer Arm	PIPE_2.0	None	None	A572 Gr.50	Typical	1.02	.627	.627	1.25
7	Face Plate	CWS00952	None	None	A36 Gr.36	Typical	1.063	.022	.4	.075

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	CF1A	8CU1.25X057	Beam	None	A653 SS ...	Typical	.581	.057	4.41	.00063

Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	General				
2	RIGID		72	20.1	0
3	Total General		72	20.1	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	CWS00952	12	3.9	.014
7	A53 Gr.B	PIPE_2.0	12	120	.417
8	A53 Gr.B	PIPE_4.0	3	21	.212
9	A572 Gr.50	PIPE_2.0	3	19.4	.067
10	A572 Gr.50	PIPE_2.0X	30	141.1	.672
11	A572 Gr.50	SR 3/4	18	64.1	.096
12	Total HR Steel		78	369.4	1.478

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	CM1-1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	CM1-2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N134	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N135	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N205	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N206	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
1	FF1-TH1-A	FF1	FF2			Face Horizontal	None	None	A572 Gr...	Typical
2	FF1-TH2-A	FF2	FF3			Face Horizontal	None	None	A572 Gr...	Typical
3	FF1-TH3-A	FF3	FF4			Face Horizontal	None	None	A572 Gr...	Typical
4	FF1-BH1-A	FF5	FF6			Face Horizontal	None	None	A572 Gr...	Typical
5	FF1-BH2-A	FF6	FF7			Face Horizontal	None	None	A572 Gr...	Typical
6	FF1-BH3-A	FF7	FF8			Face Horizontal	None	None	A572 Gr...	Typical
7	MP-1	MP-1A	MP-1B			Mount Pipes	None	None	A53 Gr.B	Typical
8	MP-2	MP-2A	MP-2B			Mount Pipes	None	None	A53 Gr.B	Typical
9	MP-3	MP-4A	MP-4B			Mount Pipes	None	None	A53 Gr.B	Typical
10	MP-4	MP-5A	MP-5B			Mount Pipes	None	None	A53 Gr.B	Typical
11	SA1	SA-1B	N216			Stabilizer Arm	None	None	A572 Gr...	Typical
12	R1	TC1-1	SF1-1			RIGID	None	None	RIGID	Typical
13	R2	TC1-2	SF1-2			RIGID	None	None	RIGID	Typical
14	R3	TC1-1	SF2-1			RIGID	None	None	RIGID	Typical
15	R4	TC1-2	SF2-2			RIGID	None	None	RIGID	Typical
16	SF1-TH-A	SF1-1	SF1-3			Support Horizontal	None	None	A572 Gr...	Typical
17	SF1-BH-A	SF1-2	SF1-4			Support Horizontal	None	None	A572 Gr...	Typical
18	SF2-TH-A	SF2-1	SF2-3			Support Horizontal	None	None	A572 Gr...	Typical
19	SF2-BH-A	SF2-2	SF2-4			Support Horizontal	None	None	A572 Gr...	Typical
20	FP-1	SA-1A	SF1-3		90	Face Plate	None	None	A36 Gr.36	Typical
21	FP-2	SF2-3	SA-1B		90	Face Plate	None	None	A36 Gr.36	Typical
22	FP-3	SA-1C	SF1-4		90	Face Plate	None	None	A36 Gr.36	Typical
23	FP-4	SF2-4	SA-1D		90	Face Plate	None	None	A36 Gr.36	Typical

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
24	V1A	SF1-V1A	SF1-V1B			Support Bracing	None	None	A572 Gr...	Typical
25	V2A	SF1-V2A	SF1-V2B			Support Bracing	None	None	A572 Gr...	Typical
26	D1A	SF1-V1A	SF1-V2B			Support Bracing	None	None	A572 Gr...	Typical
27	V3A	SF2-V1A	SF2-V1B			Support Bracing	None	None	A572 Gr...	Typical
28	V4A	SF2-V2A	SF2-V2B			Support Bracing	None	None	A572 Gr...	Typical
29	D2A	SF2-V1A	SF2-V2B			Support Bracing	None	None	A572 Gr...	Typical
30	FP1-R1	SA-1A	CP-1			RIGID	None	None	RIGID	Typical
31	FP1-R2	R1	CP-5			RIGID	None	None	RIGID	Typical
32	FP1-R3	SF1-3	FF2			RIGID	None	None	RIGID	Typical
33	FP2-R1	SF2-3	FF3			RIGID	None	None	RIGID	Typical
34	FP2-R2	R2	CP-6			RIGID	None	None	RIGID	Typical
35	FP2-R3	SA-1B	CP-2			RIGID	None	None	RIGID	Typical
36	FP3-R1	SA-1C	CP-3			RIGID	None	None	RIGID	Typical
37	FP3-R2	R3	CP-7			RIGID	None	None	RIGID	Typical
38	FP3-R3	SF1-4	FF6			RIGID	None	None	RIGID	Typical
39	FP4-R1	SA-1D	CP-4			RIGID	None	None	RIGID	Typical
40	FP4-R2	R4	CP-8			RIGID	None	None	RIGID	Typical
41	FP4-R3	SF2-4	FF7			RIGID	None	None	RIGID	Typical
42	MAST-1	MA-1A	MA-1B			Monopole Attachment	None	None	A53 Gr.B	Typical
43	M44	X1	N65			RIGID	None	None	RIGID	Typical
44	M45	X6	N69			RIGID	None	None	RIGID	Typical
45	M46	X2	N66			RIGID	None	None	RIGID	Typical
46	M47	X7	N70			RIGID	None	None	RIGID	Typical
47	M48	X4	N67			RIGID	None	None	RIGID	Typical
48	M49	X9	N71			RIGID	None	None	RIGID	Typical
49	M50	X5	N68			RIGID	None	None	RIGID	Typical
50	M51	X10	N72			RIGID	None	None	RIGID	Typical
51	FF1-TH1-B	N81	N82			Face Horizontal	None	None	A572 Gr...	Typical
52	FF1-TH2-B	N82	N83			Face Horizontal	None	None	A572 Gr...	Typical
53	FF1-TH3-B	N83	N84			Face Horizontal	None	None	A572 Gr...	Typical
54	FF1-BH1-B	N85	N86			Face Horizontal	None	None	A572 Gr...	Typical
55	FF1-BH2-B	N86	N87			Face Horizontal	None	None	A572 Gr...	Typical
56	FF1-BH3-B	N87	N88			Face Horizontal	None	None	A572 Gr...	Typical
57	MP-5	N89	N90			Mount Pipes	None	None	A53 Gr.B	Typical
58	MP-6	N91	N92			Mount Pipes	None	None	A53 Gr.B	Typical
59	MP-7	N93	N94			Mount Pipes	None	None	A53 Gr.B	Typical
60	MP-8	N95	N96			Mount Pipes	None	None	A53 Gr.B	Typical
61	SA2	N102	N217			Stabilizer Arm	None	None	A572 Gr...	Typical
62	M63	N106	N108			RIGID	None	None	RIGID	Typical
63	M64	N107	N109			RIGID	None	None	RIGID	Typical
64	M65	N106	N116			RIGID	None	None	RIGID	Typical
65	M66	N107	N117			RIGID	None	None	RIGID	Typical
66	SF1-TH-B	N108	N110			Support Horizontal	None	None	A572 Gr...	Typical
67	SF1-BH-B	N109	N111			Support Horizontal	None	None	A572 Gr...	Typical
68	SF2-TH-B	N116	N118			Support Horizontal	None	None	A572 Gr...	Typical
69	SF2-BH-B	N117	N119			Support Horizontal	None	None	A572 Gr...	Typical
70	FP-5	N101	N110		90	Face Plate	None	None	A36 Gr.36	Typical
71	FP-6	N118	N102		90	Face Plate	None	None	A36 Gr.36	Typical
72	FP-7	N103	N111		90	Face Plate	None	None	A36 Gr.36	Typical
73	FP-8	N119	N104		90	Face Plate	None	None	A36 Gr.36	Typical
74	V1B	N112	N113			Support Bracing	None	None	A572 Gr...	Typical
75	V2B	N114	N115			Support Bracing	None	None	A572 Gr...	Typical
76	D1B	N112	N115			Support Bracing	None	None	A572 Gr...	Typical
77	V3B	N120	N121			Support Bracing	None	None	A572 Gr...	Typical
78	V4B	N122	N123			Support Bracing	None	None	A572 Gr...	Typical
79	D2B	N120	N123			Support Bracing	None	None	A572 Gr...	Typical
80	M81	N101	N73			RIGID	None	None	RIGID	Typical
81	M82	N97	N77			RIGID	None	None	RIGID	Typical
82	M83	N110	N82			RIGID	None	None	RIGID	Typical
83	M84	N118	N83			RIGID	None	None	RIGID	Typical
84	M85	N98	N78			RIGID	None	None	RIGID	Typical
85	M86	N102	N74			RIGID	None	None	RIGID	Typical
86	M87	N103	N75			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
87	M88	N99	N79			RIGID	None	None	RIGID	Typical
88	M89	N111	N86			RIGID	None	None	RIGID	Typical
89	M90	N104	N76			RIGID	None	None	RIGID	Typical
90	M91	N100	N80			RIGID	None	None	RIGID	Typical
91	M92	N119	N87			RIGID	None	None	RIGID	Typical
92	MAST-2	N132	N133			Monopole Attachment	None	None	A53 Gr.B	Typical
93	M94	N124	N137			RIGID	None	None	RIGID	Typical
94	M95	N128	N141			RIGID	None	None	RIGID	Typical
95	M96	N125	N138			RIGID	None	None	RIGID	Typical
96	M97	N129	N142			RIGID	None	None	RIGID	Typical
97	M98	N126	N139			RIGID	None	None	RIGID	Typical
98	M99	N130	N143			RIGID	None	None	RIGID	Typical
99	M100	N127	N140			RIGID	None	None	RIGID	Typical
100	M101	N131	N144			RIGID	None	None	RIGID	Typical
101	FF1-TH1-G	N152	N153			Face Horizontal	None	None	A572 Gr....	Typical
102	FF1-TH2-G	N153	N154			Face Horizontal	None	None	A572 Gr....	Typical
103	FF1-TH3-G	N154	N155			Face Horizontal	None	None	A572 Gr....	Typical
104	FF1-BH1-G	N156	N157			Face Horizontal	None	None	A572 Gr....	Typical
105	FF1-BH2-G	N157	N158			Face Horizontal	None	None	A572 Gr....	Typical
106	FF1-BH3-G	N158	N159			Face Horizontal	None	None	A572 Gr....	Typical
107	MP-9	N160	N161			Mount Pipes	None	None	A53 Gr.B	Typical
108	MP-10	N162	N163			Mount Pipes	None	None	A53 Gr.B	Typical
109	MP-11	N164	N165			Mount Pipes	None	None	A53 Gr.B	Typical
110	MP-12	N166	N167			Mount Pipes	None	None	A53 Gr.B	Typical
111	SA3	N173	N215A			Stabilizer Arm	None	None	A572 Gr....	Typical
112	M113	N177	N179			RIGID	None	None	RIGID	Typical
113	M114	N178	N180			RIGID	None	None	RIGID	Typical
114	M115	N177	N187			RIGID	None	None	RIGID	Typical
115	M116	N178	N188			RIGID	None	None	RIGID	Typical
116	SF1-TH-G	N179	N181			Support Horizontal	None	None	A572 Gr....	Typical
117	SF1-BH-G	N180	N182			Support Horizontal	None	None	A572 Gr....	Typical
118	SF2-TH-G	N187	N189			Support Horizontal	None	None	A572 Gr....	Typical
119	SF2-BH-G	N188	N190			Support Horizontal	None	None	A572 Gr....	Typical
120	FP-9	N172	N181		90	Face Plate	None	None	A36 Gr.36	Typical
121	FP-10	N189	N173		90	Face Plate	None	None	A36 Gr.36	Typical
122	FP-11	N174	N182		90	Face Plate	None	None	A36 Gr.36	Typical
123	FP-12	N190	N175		90	Face Plate	None	None	A36 Gr.36	Typical
124	V1G	N183	N184			Support Bracing	None	None	A572 Gr....	Typical
125	V2G	N185	N186			Support Bracing	None	None	A572 Gr....	Typical
126	D1G	N183	N186			Support Bracing	None	None	A572 Gr....	Typical
127	V3G	N191	N192			Support Bracing	None	None	A572 Gr....	Typical
128	V4G	N193	N194			Support Bracing	None	None	A572 Gr....	Typical
129	D2G	N191	N194			Support Bracing	None	None	A572 Gr....	Typical
130	M131	N172	N144A			RIGID	None	None	RIGID	Typical
131	M132	N168	N148			RIGID	None	None	RIGID	Typical
132	M133	N181	N153			RIGID	None	None	RIGID	Typical
133	M134	N189	N154			RIGID	None	None	RIGID	Typical
134	M135	N169	N149			RIGID	None	None	RIGID	Typical
135	M136	N173	N145			RIGID	None	None	RIGID	Typical
136	M137	N174	N146			RIGID	None	None	RIGID	Typical
137	M138	N170	N150			RIGID	None	None	RIGID	Typical
138	M139	N182	N157			RIGID	None	None	RIGID	Typical
139	M140	N175	N147			RIGID	None	None	RIGID	Typical
140	M141	N171	N151			RIGID	None	None	RIGID	Typical
141	M142	N190	N158			RIGID	None	None	RIGID	Typical
142	MAST-3	N203	N204			Monopole Attachment	None	None	A53 Gr.B	Typical
143	M144	N195	N208			RIGID	None	None	RIGID	Typical
144	M145	N199	N212			RIGID	None	None	RIGID	Typical
145	M146	N196	N209			RIGID	None	None	RIGID	Typical
146	M147	N200	N213			RIGID	None	None	RIGID	Typical
147	M148	N197	N210			RIGID	None	None	RIGID	Typical
148	M149	N201	N214			RIGID	None	None	RIGID	Typical
149	M150	N198	N211			RIGID	None	None	RIGID	Typical

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
150	M151	N202	N215			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic ...
1	FF1-TH1-A						Yes	** NA **			None
2	FF1-TH2-A						Yes	** NA **			None
3	FF1-TH3-A						Yes	** NA **			None
4	FF1-BH1-A						Yes	** NA **			None
5	FF1-BH2-A						Yes	** NA **			None
6	FF1-BH3-A						Yes	** NA **			None
7	MP-1						Yes	** NA **			None
8	MP-2						Yes	** NA **			None
9	MP-3						Yes	** NA **			None
10	MP-4						Yes	** NA **			None
11	SA1	BenPIN	BenPIN				Yes	** NA **			None
12	R1						Yes	** NA **			None
13	R2						Yes	** NA **			None
14	R3						Yes	** NA **			None
15	R4						Yes	** NA **			None
16	SF1-TH-A		BenPIN				Yes	** NA **			None
17	SF1-BH-A		BenPIN				Yes	** NA **			None
18	SF2-TH-A		BenPIN				Yes	** NA **			None
19	SF2-BH-A		BenPIN				Yes	** NA **			None
20	FP-1						Yes	** NA **			None
21	FP-2						Yes	** NA **			None
22	FP-3						Yes	** NA **			None
23	FP-4						Yes	** NA **			None
24	V1A						Yes	** NA **			None
25	V2A						Yes	** NA **			None
26	D1A						Yes	** NA **			None
27	V3A						Yes	** NA **			None
28	V4A						Yes	** NA **			None
29	D2A						Yes	** NA **			None
30	FP1-R1						Yes	** NA **			None
31	FP1-R2						Yes	** NA **			None
32	FP1-R3						Yes	** NA **			None
33	FP2-R1						Yes	** NA **			None
34	FP2-R2						Yes	** NA **			None
35	FP2-R3						Yes	** NA **			None
36	FP3-R1						Yes	** NA **			None
37	FP3-R2						Yes	** NA **			None
38	FP3-R3						Yes	** NA **			None
39	FP4-R1						Yes	** NA **			None
40	FP4-R2						Yes	** NA **			None
41	FP4-R3						Yes	** NA **			None
42	MAST-1						Yes	** NA **			None
43	M44						Yes	** NA **			None
44	M45						Yes	** NA **			None
45	M46						Yes	** NA **			None
46	M47						Yes	** NA **			None
47	M48						Yes	** NA **			None
48	M49						Yes	** NA **			None
49	M50						Yes	** NA **			None
50	M51						Yes	** NA **			None
51	FF1-TH1-B						Yes	** NA **			None
52	FF1-TH2-B						Yes	** NA **			None
53	FF1-TH3-B						Yes	** NA **			None
54	FF1-BH1-B						Yes	** NA **			None
55	FF1-BH2-B						Yes	** NA **			None
56	FF1-BH3-B						Yes	** NA **			None
57	MP-5						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic ...
58	MP-6						Yes	** NA **			None
59	MP-7						Yes	** NA **			None
60	MP-8						Yes	** NA **			None
61	SA2	BenPIN	BenPIN				Yes	** NA **			None
62	M63						Yes	** NA **			None
63	M64						Yes	** NA **			None
64	M65						Yes	** NA **			None
65	M66						Yes	** NA **			None
66	SF1-TH-B		BenPIN				Yes	** NA **			None
67	SF1-BH-B		BenPIN				Yes	** NA **			None
68	SF2-TH-B		BenPIN				Yes	** NA **			None
69	SF2-BH-B		BenPIN				Yes	** NA **			None
70	FP-5						Yes	** NA **			None
71	FP-6						Yes	** NA **			None
72	FP-7						Yes	** NA **			None
73	FP-8						Yes	** NA **			None
74	V1B						Yes	** NA **			None
75	V2B						Yes	** NA **			None
76	D1B						Yes	** NA **			None
77	V3B						Yes	** NA **			None
78	V4B						Yes	** NA **			None
79	D2B						Yes	** NA **			None
80	M81						Yes	** NA **			None
81	M82						Yes	** NA **			None
82	M83						Yes	** NA **			None
83	M84						Yes	** NA **			None
84	M85						Yes	** NA **			None
85	M86						Yes	** NA **			None
86	M87						Yes	** NA **			None
87	M88						Yes	** NA **			None
88	M89						Yes	** NA **			None
89	M90						Yes	** NA **			None
90	M91						Yes	** NA **			None
91	M92						Yes	** NA **			None
92	MAST-2						Yes	** NA **			None
93	M94						Yes	** NA **			None
94	M95						Yes	** NA **			None
95	M96						Yes	** NA **			None
96	M97						Yes	** NA **			None
97	M98						Yes	** NA **			None
98	M99						Yes	** NA **			None
99	M100						Yes	** NA **			None
100	M101						Yes	** NA **			None
101	FF1-TH1-G						Yes	** NA **			None
102	FF1-TH2-G						Yes	** NA **			None
103	FF1-TH3-G						Yes	** NA **			None
104	FF1-BH1-G						Yes	** NA **			None
105	FF1-BH2-G						Yes	** NA **			None
106	FF1-BH3-G						Yes	** NA **			None
107	MP-9						Yes	** NA **			None
108	MP-10						Yes	** NA **			None
109	MP-11						Yes	** NA **			None
110	MP-12						Yes	** NA **			None
111	SA3	BenPIN	BenPIN				Yes	** NA **			None
112	M113						Yes	** NA **			None
113	M114						Yes	** NA **			None
114	M115						Yes	** NA **			None
115	M116						Yes	** NA **			None
116	SF1-TH-G		BenPIN				Yes	** NA **			None
117	SF1-BH-G		BenPIN				Yes	** NA **			None
118	SF2-TH-G		BenPIN				Yes	** NA **			None
119	SF2-BH-G		BenPIN				Yes	** NA **			None
120	FP-9						Yes	** NA **			None

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic ...
121	FP-10						Yes	** NA **			None
122	FP-11						Yes	** NA **			None
123	FP-12						Yes	** NA **			None
124	V1G						Yes	** NA **			None
125	V2G						Yes	** NA **			None
126	D1G						Yes	** NA **			None
127	V3G						Yes	** NA **			None
128	V4G						Yes	** NA **			None
129	D2G						Yes	** NA **			None
130	M131						Yes	** NA **			None
131	M132						Yes	** NA **			None
132	M133						Yes	** NA **			None
133	M134						Yes	** NA **			None
134	M135						Yes	** NA **			None
135	M136						Yes	** NA **			None
136	M137						Yes	** NA **			None
137	M138						Yes	** NA **			None
138	M139						Yes	** NA **			None
139	M140						Yes	** NA **			None
140	M141						Yes	** NA **			None
141	M142						Yes	** NA **			None
142	MAST-3						Yes	** NA **			None
143	M144						Yes	** NA **			None
144	M145						Yes	** NA **			None
145	M146						Yes	** NA **			None
146	M147						Yes	** NA **			None
147	M148						Yes	** NA **			None
148	M149						Yes	** NA **			None
149	M150						Yes	** NA **			None
150	M151						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp to...	Lcomp b...	L-torque[ft]	Kyy	Kzz	Cb	Func...
1	FF1-TH1...	Face Horizontal	3.5						2.1	2.1		Lateral
2	FF1-TH2...	Face Horizontal	8						1	1		Lateral
3	FF1-TH3...	Face Horizontal	3.5						2.1	2.1		Lateral
4	FF1-BH1...	Face Horizontal	3.5						2.1	2.1		Lateral
5	FF1-BH2...	Face Horizontal	8						1	1		Lateral
6	FF1-BH3...	Face Horizontal	3.5						2.1	2.1		Lateral
7	MP-1	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
8	MP-2	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
9	MP-3	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
10	MP-4	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
11	SA1	Stabilizer Arm	6.451						1	1		Lateral
12	SF1-TH-A	Support Horizontal	4.255		3.604				1	1		Lateral
13	SF1-BH-A	Support Horizontal	4.255		3.604				1	1		Lateral
14	SF2-TH-A	Support Horizontal	4.255		3.604				1	1		Lateral
15	SF2-BH-A	Support Horizontal	4.255		3.604				1	1		Lateral
16	FP-1	Face Plate	.323	.001	.001				.65	.65		Lateral
17	FP-2	Face Plate	.323	.001	.001				.65	.65		Lateral
18	FP-3	Face Plate	.323	.001	.001				.65	.65		Lateral
19	FP-4	Face Plate	.323	.001	.001				.65	.65		Lateral
20	V1A	Support Bracing	3						.65	.65		Lateral
21	V2A	Support Bracing	3						.65	.65		Lateral
22	D1A	Support Bracing	4.689						.65	.65		Lateral
23	V3A	Support Bracing	3						.65	.65		Lateral
24	V4A	Support Bracing	3						.65	.65		Lateral
25	D2A	Support Bracing	4.689						.65	.65		Lateral
26	MAST-1	Monopole Attachm...	7	Segment	Segment				2.1	2.1		Lateral
27	FF1-TH1...	Face Horizontal	3.5						2.1	2.1		Lateral
28	FF1-TH2...	Face Horizontal	8						1	1		Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp to...	Lcomp b...	L-torque[ft]	Kyy	Kzz	Cb	Func...
29	FF1-TH3...	Face Horizontal	3.5						2.1	2.1		Lateral
30	FF1-BH1...	Face Horizontal	3.5						2.1	2.1		Lateral
31	FF1-BH2...	Face Horizontal	8						1	1		Lateral
32	FF1-BH3...	Face Horizontal	3.5						2.1	2.1		Lateral
33	MP-5	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
34	MP-6	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
35	MP-7	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
36	MP-8	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
37	SA2	Stabilizer Arm	6.451						1	1		Lateral
38	SF1-TH-B	Support Horizontal	4.255		3.604				1	1		Lateral
39	SF1-BH-B	Support Horizontal	4.255		3.604				1	1		Lateral
40	SF2-TH-B	Support Horizontal	4.255		3.604				1	1		Lateral
41	SF2-BH-B	Support Horizontal	4.255		3.604				1	1		Lateral
42	FP-5	Face Plate	.323	.001	.001				.65	.65		Lateral
43	FP-6	Face Plate	.323	.001	.001				.65	.65		Lateral
44	FP-7	Face Plate	.323	.001	.001				.65	.65		Lateral
45	FP-8	Face Plate	.323	.001	.001				.65	.65		Lateral
46	V1B	Support Bracing	3						.65	.65		Lateral
47	V2B	Support Bracing	3						.65	.65		Lateral
48	D1B	Support Bracing	4.689						.65	.65		Lateral
49	V3B	Support Bracing	3						.65	.65		Lateral
50	V4B	Support Bracing	3						.65	.65		Lateral
51	D2B	Support Bracing	4.689						.65	.65		Lateral
52	MAST-2	Monopole Attachm...	7	Segment	Segment				2.1	2.1		Lateral
53	FF1-TH1...	Face Horizontal	3.5						2.1	2.1		Lateral
54	FF1-TH2...	Face Horizontal	8						1	1		Lateral
55	FF1-TH3...	Face Horizontal	3.5						2.1	2.1		Lateral
56	FF1-BH1...	Face Horizontal	3.5						2.1	2.1		Lateral
57	FF1-BH2...	Face Horizontal	8						1	1		Lateral
58	FF1-BH3...	Face Horizontal	3.5						2.1	2.1		Lateral
59	MP-9	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
60	MP-10	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
61	MP-11	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
62	MP-12	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
63	SA3	Stabilizer Arm	6.451						1	1		Lateral
64	SF1-TH-G	Support Horizontal	4.255		3.604				1	1		Lateral
65	SF1-BH-G	Support Horizontal	4.255		3.604				1	1		Lateral
66	SF2-TH-G	Support Horizontal	4.255		3.604				1	1		Lateral
67	SF2-BH-G	Support Horizontal	4.255		3.604				1	1		Lateral
68	FP-9	Face Plate	.323	.001	.001				.65	.65		Lateral
69	FP-10	Face Plate	.323	.001	.001				.65	.65		Lateral
70	FP-11	Face Plate	.323	.001	.001				.65	.65		Lateral
71	FP-12	Face Plate	.323	.001	.001				.65	.65		Lateral
72	V1G	Support Bracing	3						.65	.65		Lateral
73	V2G	Support Bracing	3						.65	.65		Lateral
74	D1G	Support Bracing	4.689						.65	.65		Lateral
75	V3G	Support Bracing	3						.65	.65		Lateral
76	V4G	Support Bracing	3						.65	.65		Lateral
77	D2G	Support Bracing	4.689						.65	.65		Lateral
78	MAST-3	Monopole Attachm...	7	Segment	Segment				2.1	2.1		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 ...														

Joint Loads and Enforced Displacements (BLC 35 : Lm)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1	X10	L	Y	-.5
2	N131	L	Y	-.5
3	N202	L	Y	-.5

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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Joint Loads and Enforced Displacements (BLC 36 : Lv)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1	FF8	L	Y	-.25
2	N88	L	Y	-.25
3	N159	L	Y	-.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Y	-.053	.5
2	MP-2	Y	-.059	2
3	MP-2	Y	-.072	2
4	MP-3	Y	-.041	1
5	MP-3	Y	-.033	5
6	MP-4	Y	-.048	.5
7	MP-4	Y	-.071	2
8	MP-4	Y	-.06	2
9	MP-6	Y	-.053	.5
10	MP-6	Y	-.059	2
11	MP-6	Y	-.072	2
12	MP-7	Y	-.041	1
13	MP-7	Y	-.033	5
14	MP-8	Y	-.048	.5
15	MP-8	Y	-.071	2
16	MP-8	Y	-.06	2
17	MP-10	Y	-.053	.5
18	MP-10	Y	-.059	2
19	MP-10	Y	-.072	2
20	MP-11	Y	-.041	1
21	MP-11	Y	-.033	5
22	MP-12	Y	-.048	.5
23	MP-12	Y	-.071	2
24	MP-12	Y	-.06	2
25	SF1-TH-A	Y	-.016	1.5
26	SF1-TH-B	Y	-.02	1.5
27	SF1-TH-G	Y	-.02	1.5
28	MP-2	Y	-.053	7.5
29	MP-3	Y	-.041	3
30	MP-3	Y	-.033	7
31	MP-4	Y	-.048	7.5
32	MP-6	Y	-.053	7.5
33	MP-7	Y	-.041	3
34	MP-7	Y	-.033	7
35	MP-8	Y	-.048	7.5
36	MP-10	Y	-.053	7.5
37	MP-11	Y	-.041	3
38	MP-11	Y	-.033	7
39	MP-12	Y	-.048	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.212	.5
2	MP-2	X	-.039	2
3	MP-2	X	-.042	2
4	MP-3	X	-.062	1
5	MP-3	X	-.059	5
6	MP-4	X	-.277	.5
7	MP-4	X	-.043	2
8	MP-4	X	-.052	2
9	MP-6	X	-.141	.5
10	MP-6	X	-.057	2
11	MP-6	X	-.049	2
12	MP-7	X	-.042	1
13	MP-7	X	-.039	5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	MP-8	X	-.171	.5
15	MP-8	X	-.057	2
16	MP-8	X	-.077	2
17	MP-10	X	-.136	.5
18	MP-10	X	-.057	2
19	MP-10	X	-.049	2
20	MP-11	X	-.041	1
21	MP-11	X	-.037	5
22	MP-12	X	-.164	.5
23	MP-12	X	-.057	2
24	MP-12	X	-.077	2
25	SF1-TH-A	X	-.148	1.5
26	SF1-TH-B	X	-.025	1.5
27	SF1-TH-G	X	-.025	1.5
28	MP-2	X	-.212	7.5
29	MP-3	X	-.062	3
30	MP-3	X	-.059	7
31	MP-4	X	-.277	7.5
32	MP-6	X	-.141	7.5
33	MP-7	X	-.042	3
34	MP-7	X	-.039	7
35	MP-8	X	-.171	7.5
36	MP-10	X	-.136	7.5
37	MP-11	X	-.041	3
38	MP-11	X	-.037	7
39	MP-12	X	-.164	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.162	.5
2	MP-2	X	-.039	2
3	MP-2	X	-.038	2
4	MP-3	X	-.048	1
5	MP-3	X	-.045	5
6	MP-4	X	-.207	.5
7	MP-4	X	-.041	2
8	MP-4	X	-.052	2
9	MP-6	X	-.097	.5
10	MP-6	X	-.054	2
11	MP-6	X	-.044	2
12	MP-7	X	-.029	1
13	MP-7	X	-.026	5
14	MP-8	X	-.109	.5
15	MP-8	X	-.053	2
16	MP-8	X	-.074	2
17	MP-10	X	-.162	.5
18	MP-10	X	-.039	2
19	MP-10	X	-.038	2
20	MP-11	X	-.048	1
21	MP-11	X	-.045	5
22	MP-12	X	-.207	.5
23	MP-12	X	-.041	2
24	MP-12	X	-.052	2
25	SF1-TH-A	X	-.115	1.5
26	SF1-TH-B	X	-.021	1.5
27	SF1-TH-G	X	-.021	1.5
28	MP-2	X	-.162	7.5
29	MP-3	X	-.048	3
30	MP-3	X	-.045	7
31	MP-4	X	-.207	7.5
32	MP-6	X	-.097	7.5
33	MP-7	X	-.029	3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
34	MP-7	X	-.026	7
35	MP-8	X	-.109	7.5
36	MP-10	X	-.162	7.5
37	MP-11	X	-.048	3
38	MP-11	X	-.045	7
39	MP-12	X	-.207	7.5
40	MP-2	Z	-.093	.5
41	MP-2	Z	-.022	2
42	MP-2	Z	-.022	2
43	MP-3	Z	-.028	1
44	MP-3	Z	-.026	5
45	MP-4	Z	-.12	.5
46	MP-4	Z	-.024	2
47	MP-4	Z	-.03	2
48	MP-6	Z	-.056	.5
49	MP-6	Z	-.031	2
50	MP-6	Z	-.025	2
51	MP-7	Z	-.017	1
52	MP-7	Z	-.015	5
53	MP-8	Z	-.063	.5
54	MP-8	Z	-.031	2
55	MP-8	Z	-.042	2
56	MP-10	Z	-.093	.5
57	MP-10	Z	-.022	2
58	MP-10	Z	-.022	2
59	MP-11	Z	-.028	1
60	MP-11	Z	-.026	5
61	MP-12	Z	-.12	.5
62	MP-12	Z	-.024	2
63	MP-12	Z	-.03	2
64	SF1-TH-A	Z	-.066	1.5
65	SF1-TH-B	Z	-.012	1.5
66	SF1-TH-G	Z	-.012	1.5
67	MP-2	Z	-.093	7.5
68	MP-3	Z	-.028	3
69	MP-3	Z	-.026	7
70	MP-4	Z	-.12	7.5
71	MP-6	Z	-.056	7.5
72	MP-7	Z	-.017	3
73	MP-7	Z	-.015	7
74	MP-8	Z	-.063	7.5
75	MP-10	Z	-.093	7.5
76	MP-11	Z	-.028	3
77	MP-11	Z	-.026	7
78	MP-12	Z	-.12	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.114	.5
2	MP-2	X	-.036	2
3	MP-2	X	-.033	2
4	MP-3	X	-.034	1
5	MP-3	X	-.031	5
6	MP-4	X	-.142	.5
7	MP-4	X	-.037	2
8	MP-4	X	-.048	2
9	MP-6	X	-.082	.5
10	MP-6	X	-.043	2
11	MP-6	X	-.035	2
12	MP-7	X	-.024	1
13	MP-7	X	-.022	5
14	MP-8	X	-.094	.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP-8	X	-.042	2
16	MP-8	X	-.059	2
17	MP-10	X	-.145	.5
18	MP-10	X	-.029	2
19	MP-10	X	-.03	2
20	MP-11	X	-.043	1
21	MP-11	X	-.04	5
22	MP-12	X	-.189	.5
23	MP-12	X	-.032	2
24	MP-12	X	-.038	2
25	SF1-TH-A	X	-.082	1.5
26	SF1-TH-B	X	-.017	1.5
27	SF1-TH-G	X	-.017	1.5
28	MP-2	X	-.114	7.5
29	MP-3	X	-.034	3
30	MP-3	X	-.031	7
31	MP-4	X	-.142	7.5
32	MP-6	X	-.082	7.5
33	MP-7	X	-.024	3
34	MP-7	X	-.022	7
35	MP-8	X	-.094	7.5
36	MP-10	X	-.145	7.5
37	MP-11	X	-.043	3
38	MP-11	X	-.04	7
39	MP-12	X	-.189	7.5
40	MP-2	Z	-.114	.5
41	MP-2	Z	-.036	2
42	MP-2	Z	-.033	2
43	MP-3	Z	-.034	1
44	MP-3	Z	-.031	5
45	MP-4	Z	-.142	.5
46	MP-4	Z	-.037	2
47	MP-4	Z	-.048	2
48	MP-6	Z	-.082	.5
49	MP-6	Z	-.043	2
50	MP-6	Z	-.035	2
51	MP-7	Z	-.024	1
52	MP-7	Z	-.022	5
53	MP-8	Z	-.094	.5
54	MP-8	Z	-.042	2
55	MP-8	Z	-.059	2
56	MP-10	Z	-.145	.5
57	MP-10	Z	-.029	2
58	MP-10	Z	-.03	2
59	MP-11	Z	-.043	1
60	MP-11	Z	-.04	5
61	MP-12	Z	-.189	.5
62	MP-12	Z	-.032	2
63	MP-12	Z	-.038	2
64	SF1-TH-A	Z	-.082	1.5
65	SF1-TH-B	Z	-.017	1.5
66	SF1-TH-G	Z	-.017	1.5
67	MP-2	Z	-.114	7.5
68	MP-3	Z	-.034	3
69	MP-3	Z	-.031	7
70	MP-4	Z	-.142	7.5
71	MP-6	Z	-.082	7.5
72	MP-7	Z	-.024	3
73	MP-7	Z	-.022	7
74	MP-8	Z	-.094	7.5
75	MP-10	Z	-.145	7.5
76	MP-11	Z	-.043	3
77	MP-11	Z	-.04	7

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
78	MP-12	Z	-.189	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.068	.5
2	MP-2	X	-.028	2
3	MP-2	X	-.024	2
4	MP-3	X	-.02	1
5	MP-3	X	-.019	5
6	MP-4	X	-.082	.5
7	MP-4	X	-.028	2
8	MP-4	X	-.038	2
9	MP-6	X	-.066	.5
10	MP-6	X	-.028	2
11	MP-6	X	-.024	2
12	MP-7	X	-.02	1
13	MP-7	X	-.018	5
14	MP-8	X	-.078	.5
15	MP-8	X	-.028	2
16	MP-8	X	-.038	2
17	MP-10	X	-.106	.5
18	MP-10	X	-.019	2
19	MP-10	X	-.021	2
20	MP-11	X	-.031	1
21	MP-11	X	-.029	5
22	MP-12	X	-.138	.5
23	MP-12	X	-.022	2
24	MP-12	X	-.026	2
25	SF1-TH-A	X	-.05	1.5
26	SF1-TH-B	X	-.012	1.5
27	SF1-TH-G	X	-.012	1.5
28	MP-2	X	-.068	7.5
29	MP-3	X	-.02	3
30	MP-3	X	-.019	7
31	MP-4	X	-.082	7.5
32	MP-6	X	-.066	7.5
33	MP-7	X	-.02	3
34	MP-7	X	-.018	7
35	MP-8	X	-.078	7.5
36	MP-10	X	-.106	7.5
37	MP-11	X	-.031	3
38	MP-11	X	-.029	7
39	MP-12	X	-.138	7.5
40	MP-2	Z	-.118	.5
41	MP-2	Z	-.049	2
42	MP-2	Z	-.042	2
43	MP-3	Z	-.035	1
44	MP-3	Z	-.032	5
45	MP-4	Z	-.142	.5
46	MP-4	Z	-.049	2
47	MP-4	Z	-.066	2
48	MP-6	Z	-.114	.5
49	MP-6	Z	-.049	2
50	MP-6	Z	-.042	2
51	MP-7	Z	-.034	1
52	MP-7	Z	-.031	5
53	MP-8	Z	-.136	.5
54	MP-8	Z	-.049	2
55	MP-8	Z	-.066	2
56	MP-10	Z	-.183	.5
57	MP-10	Z	-.034	2
58	MP-10	Z	-.036	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
59	MP-11	Z	-.054	1
60	MP-11	Z	-.051	5
61	MP-12	Z	-.24	.5
62	MP-12	Z	-.038	2
63	MP-12	Z	-.045	2
64	SF1-TH-A	Z	-.087	1.5
65	SF1-TH-B	Z	-.021	1.5
66	SF1-TH-G	Z	-.021	1.5
67	MP-2	Z	-.118	7.5
68	MP-3	Z	-.035	3
69	MP-3	Z	-.032	7
70	MP-4	Z	-.142	7.5
71	MP-6	Z	-.114	7.5
72	MP-7	Z	-.034	3
73	MP-7	Z	-.031	7
74	MP-8	Z	-.136	7.5
75	MP-10	Z	-.183	7.5
76	MP-11	Z	-.054	3
77	MP-11	Z	-.051	7
78	MP-12	Z	-.24	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-.111	.5
2	MP-2	Z	-.063	2
3	MP-2	Z	-.051	2
4	MP-3	Z	-.033	1
5	MP-3	Z	-.03	5
6	MP-4	Z	-.126	.5
7	MP-4	Z	-.061	2
8	MP-4	Z	-.085	2
9	MP-6	Z	-.182	.5
10	MP-6	Z	-.045	2
11	MP-6	Z	-.044	2
12	MP-7	Z	-.054	1
13	MP-7	Z	-.05	5
14	MP-8	Z	-.232	.5
15	MP-8	Z	-.048	2
16	MP-8	Z	-.06	2
17	MP-10	Z	-.187	.5
18	MP-10	Z	-.045	2
19	MP-10	Z	-.044	2
20	MP-11	Z	-.055	1
21	MP-11	Z	-.052	5
22	MP-12	Z	-.239	.5
23	MP-12	Z	-.048	2
24	MP-12	Z	-.06	2
25	SF1-TH-A	Z	-.084	1.5
26	SF1-TH-B	Z	-.025	1.5
27	SF1-TH-G	Z	-.025	1.5
28	MP-2	Z	-.111	7.5
29	MP-3	Z	-.033	3
30	MP-3	Z	-.03	7
31	MP-4	Z	-.126	7.5
32	MP-6	Z	-.182	7.5
33	MP-7	Z	-.054	3
34	MP-7	Z	-.05	7
35	MP-8	Z	-.232	7.5
36	MP-10	Z	-.187	7.5
37	MP-11	Z	-.055	3
38	MP-11	Z	-.052	7
39	MP-12	Z	-.239	7.5

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Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.068	.5
2	MP-2	X	.028	2
3	MP-2	X	.024	2
4	MP-3	X	.02	1
5	MP-3	X	.019	5
6	MP-4	X	.082	.5
7	MP-4	X	.028	2
8	MP-4	X	.038	2
9	MP-6	X	.106	.5
10	MP-6	X	.019	2
11	MP-6	X	.021	2
12	MP-7	X	.031	1
13	MP-7	X	.029	5
14	MP-8	X	.138	.5
15	MP-8	X	.022	2
16	MP-8	X	.026	2
17	MP-10	X	.068	.5
18	MP-10	X	.028	2
19	MP-10	X	.024	2
20	MP-11	X	.02	1
21	MP-11	X	.019	5
22	MP-12	X	.082	.5
23	MP-12	X	.028	2
24	MP-12	X	.038	2
25	SF1-TH-A	X	.05	1.5
26	SF1-TH-B	X	.012	1.5
27	SF1-TH-G	X	.012	1.5
28	MP-2	X	.068	7.5
29	MP-3	X	.02	3
30	MP-3	X	.019	7
31	MP-4	X	.082	7.5
32	MP-6	X	.106	7.5
33	MP-7	X	.031	3
34	MP-7	X	.029	7
35	MP-8	X	.138	7.5
36	MP-10	X	.068	7.5
37	MP-11	X	.02	3
38	MP-11	X	.019	7
39	MP-12	X	.082	7.5
40	MP-2	Z	-.118	.5
41	MP-2	Z	-.049	2
42	MP-2	Z	-.042	2
43	MP-3	Z	-.035	1
44	MP-3	Z	-.032	5
45	MP-4	Z	-.142	.5
46	MP-4	Z	-.049	2
47	MP-4	Z	-.066	2
48	MP-6	Z	-.183	.5
49	MP-6	Z	-.034	2
50	MP-6	Z	-.036	2
51	MP-7	Z	-.054	1
52	MP-7	Z	-.051	5
53	MP-8	Z	-.239	.5
54	MP-8	Z	-.038	2
55	MP-8	Z	-.045	2
56	MP-10	Z	-.118	.5
57	MP-10	Z	-.049	2
58	MP-10	Z	-.042	2
59	MP-11	Z	-.035	1
60	MP-11	Z	-.032	5
61	MP-12	Z	-.142	.5
62	MP-12	Z	-.049	2
63	MP-12	Z	-.066	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	SF1-TH-A	Z	-.087	1.5
65	SF1-TH-B	Z	-.021	1.5
66	SF1-TH-G	Z	-.021	1.5
67	MP-2	Z	-.118	7.5
68	MP-3	Z	-.035	3
69	MP-3	Z	-.032	7
70	MP-4	Z	-.142	7.5
71	MP-6	Z	-.183	7.5
72	MP-7	Z	-.054	3
73	MP-7	Z	-.051	7
74	MP-8	Z	-.239	7.5
75	MP-10	Z	-.118	7.5
76	MP-11	Z	-.035	3
77	MP-11	Z	-.032	7
78	MP-12	Z	-.142	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.114	.5
2	MP-2	X	.036	2
3	MP-2	X	.033	2
4	MP-3	X	.034	1
5	MP-3	X	.031	5
6	MP-4	X	.142	.5
7	MP-4	X	.037	2
8	MP-4	X	.048	2
9	MP-6	X	.147	.5
10	MP-6	X	.029	2
11	MP-6	X	.03	2
12	MP-7	X	.043	1
13	MP-7	X	.041	5
14	MP-8	X	.191	.5
15	MP-8	X	.032	2
16	MP-8	X	.038	2
17	MP-10	X	.084	.5
18	MP-10	X	.043	2
19	MP-10	X	.035	2
20	MP-11	X	.025	1
21	MP-11	X	.023	5
22	MP-12	X	.096	.5
23	MP-12	X	.042	2
24	MP-12	X	.059	2
25	SF1-TH-A	X	.082	1.5
26	SF1-TH-B	X	.017	1.5
27	SF1-TH-G	X	.017	1.5
28	MP-2	X	.114	7.5
29	MP-3	X	.034	3
30	MP-3	X	.031	7
31	MP-4	X	.142	7.5
32	MP-6	X	.147	7.5
33	MP-7	X	.043	3
34	MP-7	X	.041	7
35	MP-8	X	.191	7.5
36	MP-10	X	.084	7.5
37	MP-11	X	.025	3
38	MP-11	X	.023	7
39	MP-12	X	.096	7.5
40	MP-2	Z	-.114	.5
41	MP-2	Z	-.036	2
42	MP-2	Z	-.033	2
43	MP-3	Z	-.034	1
44	MP-3	Z	-.031	5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP-4	Z	-.142	.5
46	MP-4	Z	-.037	2
47	MP-4	Z	-.048	2
48	MP-6	Z	-.147	.5
49	MP-6	Z	-.029	2
50	MP-6	Z	-.03	2
51	MP-7	Z	-.043	1
52	MP-7	Z	-.041	5
53	MP-8	Z	-.191	.5
54	MP-8	Z	-.032	2
55	MP-8	Z	-.038	2
56	MP-10	Z	-.084	.5
57	MP-10	Z	-.043	2
58	MP-10	Z	-.035	2
59	MP-11	Z	-.025	1
60	MP-11	Z	-.023	5
61	MP-12	Z	-.096	.5
62	MP-12	Z	-.042	2
63	MP-12	Z	-.059	2
64	SF1-TH-A	Z	-.082	1.5
65	SF1-TH-B	Z	-.017	1.5
66	SF1-TH-G	Z	-.017	1.5
67	MP-2	Z	-.114	7.5
68	MP-3	Z	-.034	3
69	MP-3	Z	-.031	7
70	MP-4	Z	-.142	7.5
71	MP-6	Z	-.147	7.5
72	MP-7	Z	-.043	3
73	MP-7	Z	-.041	7
74	MP-8	Z	-.191	7.5
75	MP-10	Z	-.084	7.5
76	MP-11	Z	-.025	3
77	MP-11	Z	-.023	7
78	MP-12	Z	-.096	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.162	.5
2	MP-2	X	.039	2
3	MP-2	X	.038	2
4	MP-3	X	.048	1
5	MP-3	X	.045	5
6	MP-4	X	.207	.5
7	MP-4	X	.041	2
8	MP-4	X	.052	2
9	MP-6	X	.165	.5
10	MP-6	X	.039	2
11	MP-6	X	.038	2
12	MP-7	X	.049	1
13	MP-7	X	.046	5
14	MP-8	X	.213	.5
15	MP-8	X	.041	2
16	MP-8	X	.052	2
17	MP-10	X	.096	.5
18	MP-10	X	.054	2
19	MP-10	X	.044	2
20	MP-11	X	.029	1
21	MP-11	X	.026	5
22	MP-12	X	.109	.5
23	MP-12	X	.053	2
24	MP-12	X	.074	2
25	SF1-TH-A	X	.115	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
26	SF1-TH-B	X	.021	1.5
27	SF1-TH-G	X	.021	1.5
28	MP-2	X	.162	7.5
29	MP-3	X	.048	3
30	MP-3	X	.045	7
31	MP-4	X	.207	7.5
32	MP-6	X	.165	7.5
33	MP-7	X	.049	3
34	MP-7	X	.046	7
35	MP-8	X	.213	7.5
36	MP-10	X	.096	7.5
37	MP-11	X	.029	3
38	MP-11	X	.026	7
39	MP-12	X	.109	7.5
40	MP-2	Z	-.093	.5
41	MP-2	Z	-.022	2
42	MP-2	Z	-.022	2
43	MP-3	Z	-.028	1
44	MP-3	Z	-.026	5
45	MP-4	Z	-.12	.5
46	MP-4	Z	-.024	2
47	MP-4	Z	-.03	2
48	MP-6	Z	-.095	.5
49	MP-6	Z	-.022	2
50	MP-6	Z	-.022	2
51	MP-7	Z	-.028	1
52	MP-7	Z	-.026	5
53	MP-8	Z	-.123	.5
54	MP-8	Z	-.024	2
55	MP-8	Z	-.03	2
56	MP-10	Z	-.056	.5
57	MP-10	Z	-.031	2
58	MP-10	Z	-.025	2
59	MP-11	Z	-.017	1
60	MP-11	Z	-.015	5
61	MP-12	Z	-.063	.5
62	MP-12	Z	-.031	2
63	MP-12	Z	-.042	2
64	SF1-TH-A	Z	-.066	1.5
65	SF1-TH-B	Z	-.012	1.5
66	SF1-TH-G	Z	-.012	1.5
67	MP-2	Z	-.093	7.5
68	MP-3	Z	-.028	3
69	MP-3	Z	-.026	7
70	MP-4	Z	-.12	7.5
71	MP-6	Z	-.095	7.5
72	MP-7	Z	-.028	3
73	MP-7	Z	-.026	7
74	MP-8	Z	-.123	7.5
75	MP-10	Z	-.056	7.5
76	MP-11	Z	-.017	3
77	MP-11	Z	-.015	7
78	MP-12	Z	-.063	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.212	.5
2	MP-2	X	.039	2
3	MP-2	X	.042	2
4	MP-3	X	.062	1
5	MP-3	X	.059	5
6	MP-4	X	.277	.5

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP-4	X	.043	2
8	MP-4	X	.052	2
9	MP-6	X	.141	.5
10	MP-6	X	.057	2
11	MP-6	X	.049	2
12	MP-7	X	.042	1
13	MP-7	X	.039	5
14	MP-8	X	.171	.5
15	MP-8	X	.057	2
16	MP-8	X	.077	2
17	MP-10	X	.136	.5
18	MP-10	X	.057	2
19	MP-10	X	.049	2
20	MP-11	X	.041	1
21	MP-11	X	.037	5
22	MP-12	X	.164	.5
23	MP-12	X	.057	2
24	MP-12	X	.077	2
25	SF1-TH-A	X	.148	1.5
26	SF1-TH-B	X	.025	1.5
27	SF1-TH-G	X	.025	1.5
28	MP-2	X	.212	7.5
29	MP-3	X	.062	3
30	MP-3	X	.059	7
31	MP-4	X	.277	7.5
32	MP-6	X	.141	7.5
33	MP-7	X	.042	3
34	MP-7	X	.039	7
35	MP-8	X	.171	7.5
36	MP-10	X	.136	7.5
37	MP-11	X	.041	3
38	MP-11	X	.037	7
39	MP-12	X	.164	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.162	.5
2	MP-2	X	.039	2
3	MP-2	X	.038	2
4	MP-3	X	.048	1
5	MP-3	X	.045	5
6	MP-4	X	.207	.5
7	MP-4	X	.041	2
8	MP-4	X	.052	2
9	MP-6	X	.097	.5
10	MP-6	X	.054	2
11	MP-6	X	.044	2
12	MP-7	X	.029	1
13	MP-7	X	.026	5
14	MP-8	X	.109	.5
15	MP-8	X	.053	2
16	MP-8	X	.074	2
17	MP-10	X	.162	.5
18	MP-10	X	.039	2
19	MP-10	X	.038	2
20	MP-11	X	.048	1
21	MP-11	X	.045	5
22	MP-12	X	.207	.5
23	MP-12	X	.041	2
24	MP-12	X	.052	2
25	SF1-TH-A	X	.115	1.5
26	SF1-TH-B	X	.021	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	SF1-TH-G	X	.021	1.5
28	MP-2	X	.162	7.5
29	MP-3	X	.048	3
30	MP-3	X	.045	7
31	MP-4	X	.207	7.5
32	MP-6	X	.097	7.5
33	MP-7	X	.029	3
34	MP-7	X	.026	7
35	MP-8	X	.109	7.5
36	MP-10	X	.162	7.5
37	MP-11	X	.048	3
38	MP-11	X	.045	7
39	MP-12	X	.207	7.5
40	MP-2	Z	.093	.5
41	MP-2	Z	.022	2
42	MP-2	Z	.022	2
43	MP-3	Z	.028	1
44	MP-3	Z	.026	5
45	MP-4	Z	.12	.5
46	MP-4	Z	.024	2
47	MP-4	Z	.03	2
48	MP-6	Z	.056	.5
49	MP-6	Z	.031	2
50	MP-6	Z	.025	2
51	MP-7	Z	.017	1
52	MP-7	Z	.015	5
53	MP-8	Z	.063	.5
54	MP-8	Z	.031	2
55	MP-8	Z	.042	2
56	MP-10	Z	.093	.5
57	MP-10	Z	.022	2
58	MP-10	Z	.022	2
59	MP-11	Z	.028	1
60	MP-11	Z	.026	5
61	MP-12	Z	.12	.5
62	MP-12	Z	.024	2
63	MP-12	Z	.03	2
64	SF1-TH-A	Z	.066	1.5
65	SF1-TH-B	Z	.012	1.5
66	SF1-TH-G	Z	.012	1.5
67	MP-2	Z	.093	7.5
68	MP-3	Z	.028	3
69	MP-3	Z	.026	7
70	MP-4	Z	.12	7.5
71	MP-6	Z	.056	7.5
72	MP-7	Z	.017	3
73	MP-7	Z	.015	7
74	MP-8	Z	.063	7.5
75	MP-10	Z	.093	7.5
76	MP-11	Z	.028	3
77	MP-11	Z	.026	7
78	MP-12	Z	.12	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.114	.5
2	MP-2	X	.036	2
3	MP-2	X	.033	2
4	MP-3	X	.034	1
5	MP-3	X	.031	5
6	MP-4	X	.142	.5
7	MP-4	X	.037	2

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
8	MP-4	X	.048	2
9	MP-6	X	.082	.5
10	MP-6	X	.043	2
11	MP-6	X	.035	2
12	MP-7	X	.024	1
13	MP-7	X	.022	5
14	MP-8	X	.094	.5
15	MP-8	X	.042	2
16	MP-8	X	.059	2
17	MP-10	X	.145	.5
18	MP-10	X	.029	2
19	MP-10	X	.03	2
20	MP-11	X	.043	1
21	MP-11	X	.04	5
22	MP-12	X	.189	.5
23	MP-12	X	.032	2
24	MP-12	X	.038	2
25	SF1-TH-A	X	.082	1.5
26	SF1-TH-B	X	.017	1.5
27	SF1-TH-G	X	.017	1.5
28	MP-2	X	.114	7.5
29	MP-3	X	.034	3
30	MP-3	X	.031	7
31	MP-4	X	.142	7.5
32	MP-6	X	.082	7.5
33	MP-7	X	.024	3
34	MP-7	X	.022	7
35	MP-8	X	.094	7.5
36	MP-10	X	.145	7.5
37	MP-11	X	.043	3
38	MP-11	X	.04	7
39	MP-12	X	.189	7.5
40	MP-2	Z	.114	.5
41	MP-2	Z	.036	2
42	MP-2	Z	.033	2
43	MP-3	Z	.034	1
44	MP-3	Z	.031	5
45	MP-4	Z	.142	.5
46	MP-4	Z	.037	2
47	MP-4	Z	.048	2
48	MP-6	Z	.082	.5
49	MP-6	Z	.043	2
50	MP-6	Z	.035	2
51	MP-7	Z	.024	1
52	MP-7	Z	.022	5
53	MP-8	Z	.094	.5
54	MP-8	Z	.042	2
55	MP-8	Z	.059	2
56	MP-10	Z	.145	.5
57	MP-10	Z	.029	2
58	MP-10	Z	.03	2
59	MP-11	Z	.043	1
60	MP-11	Z	.04	5
61	MP-12	Z	.189	.5
62	MP-12	Z	.032	2
63	MP-12	Z	.038	2
64	SF1-TH-A	Z	.082	1.5
65	SF1-TH-B	Z	.017	1.5
66	SF1-TH-G	Z	.017	1.5
67	MP-2	Z	.114	7.5
68	MP-3	Z	.034	3
69	MP-3	Z	.031	7
70	MP-4	Z	.142	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
71	MP-6	Z	.082	7.5
72	MP-7	Z	.024	3
73	MP-7	Z	.022	7
74	MP-8	Z	.094	7.5
75	MP-10	Z	.145	7.5
76	MP-11	Z	.043	3
77	MP-11	Z	.04	7
78	MP-12	Z	.189	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.068	.5
2	MP-2	X	.028	2
3	MP-2	X	.024	2
4	MP-3	X	.02	1
5	MP-3	X	.019	5
6	MP-4	X	.082	.5
7	MP-4	X	.028	2
8	MP-4	X	.038	2
9	MP-6	X	.066	.5
10	MP-6	X	.028	2
11	MP-6	X	.024	2
12	MP-7	X	.02	1
13	MP-7	X	.018	5
14	MP-8	X	.078	.5
15	MP-8	X	.028	2
16	MP-8	X	.038	2
17	MP-10	X	.106	.5
18	MP-10	X	.019	2
19	MP-10	X	.021	2
20	MP-11	X	.031	1
21	MP-11	X	.029	5
22	MP-12	X	.138	.5
23	MP-12	X	.022	2
24	MP-12	X	.026	2
25	SF1-TH-A	X	.05	1.5
26	SF1-TH-B	X	.012	1.5
27	SF1-TH-G	X	.012	1.5
28	MP-2	X	.068	7.5
29	MP-3	X	.02	3
30	MP-3	X	.019	7
31	MP-4	X	.082	7.5
32	MP-6	X	.066	7.5
33	MP-7	X	.02	3
34	MP-7	X	.018	7
35	MP-8	X	.078	7.5
36	MP-10	X	.106	7.5
37	MP-11	X	.031	3
38	MP-11	X	.029	7
39	MP-12	X	.138	7.5
40	MP-2	Z	.118	.5
41	MP-2	Z	.049	2
42	MP-2	Z	.042	2
43	MP-3	Z	.035	1
44	MP-3	Z	.032	5
45	MP-4	Z	.142	.5
46	MP-4	Z	.049	2
47	MP-4	Z	.066	2
48	MP-6	Z	.114	.5
49	MP-6	Z	.049	2
50	MP-6	Z	.042	2
51	MP-7	Z	.034	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
52	MP-7	Z	.031	5
53	MP-8	Z	.136	.5
54	MP-8	Z	.049	2
55	MP-8	Z	.066	2
56	MP-10	Z	.183	.5
57	MP-10	Z	.034	2
58	MP-10	Z	.036	2
59	MP-11	Z	.054	1
60	MP-11	Z	.051	5
61	MP-12	Z	.24	.5
62	MP-12	Z	.038	2
63	MP-12	Z	.045	2
64	SF1-TH-A	Z	.087	1.5
65	SF1-TH-B	Z	.021	1.5
66	SF1-TH-G	Z	.021	1.5
67	MP-2	Z	.118	7.5
68	MP-3	Z	.035	3
69	MP-3	Z	.032	7
70	MP-4	Z	.142	7.5
71	MP-6	Z	.114	7.5
72	MP-7	Z	.034	3
73	MP-7	Z	.031	7
74	MP-8	Z	.136	7.5
75	MP-10	Z	.183	7.5
76	MP-11	Z	.054	3
77	MP-11	Z	.051	7
78	MP-12	Z	.24	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	.111	.5
2	MP-2	Z	.063	2
3	MP-2	Z	.051	2
4	MP-3	Z	.033	1
5	MP-3	Z	.03	5
6	MP-4	Z	.126	.5
7	MP-4	Z	.061	2
8	MP-4	Z	.085	2
9	MP-6	Z	.182	.5
10	MP-6	Z	.045	2
11	MP-6	Z	.044	2
12	MP-7	Z	.054	1
13	MP-7	Z	.05	5
14	MP-8	Z	.232	.5
15	MP-8	Z	.048	2
16	MP-8	Z	.06	2
17	MP-10	Z	.187	.5
18	MP-10	Z	.045	2
19	MP-10	Z	.044	2
20	MP-11	Z	.055	1
21	MP-11	Z	.052	5
22	MP-12	Z	.239	.5
23	MP-12	Z	.048	2
24	MP-12	Z	.06	2
25	SF1-TH-A	Z	.084	1.5
26	SF1-TH-B	Z	.025	1.5
27	SF1-TH-G	Z	.025	1.5
28	MP-2	Z	.111	7.5
29	MP-3	Z	.033	3
30	MP-3	Z	.03	7
31	MP-4	Z	.126	7.5
32	MP-6	Z	.182	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-7	Z	.054	3
34	MP-7	Z	.05	7
35	MP-8	Z	.232	7.5
36	MP-10	Z	.187	7.5
37	MP-11	Z	.055	3
38	MP-11	Z	.052	7
39	MP-12	Z	.239	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.068	.5
2	MP-2	X	-.028	2
3	MP-2	X	-.024	2
4	MP-3	X	-.02	1
5	MP-3	X	-.019	5
6	MP-4	X	-.082	.5
7	MP-4	X	-.028	2
8	MP-4	X	-.038	2
9	MP-6	X	-.106	.5
10	MP-6	X	-.019	2
11	MP-6	X	-.021	2
12	MP-7	X	-.031	1
13	MP-7	X	-.029	5
14	MP-8	X	-.138	.5
15	MP-8	X	-.022	2
16	MP-8	X	-.026	2
17	MP-10	X	-.068	.5
18	MP-10	X	-.028	2
19	MP-10	X	-.024	2
20	MP-11	X	-.02	1
21	MP-11	X	-.019	5
22	MP-12	X	-.082	.5
23	MP-12	X	-.028	2
24	MP-12	X	-.038	2
25	SF1-TH-A	X	-.05	1.5
26	SF1-TH-B	X	-.012	1.5
27	SF1-TH-G	X	-.012	1.5
28	MP-2	X	-.068	7.5
29	MP-3	X	-.02	3
30	MP-3	X	-.019	7
31	MP-4	X	-.082	7.5
32	MP-6	X	-.106	7.5
33	MP-7	X	-.031	3
34	MP-7	X	-.029	7
35	MP-8	X	-.138	7.5
36	MP-10	X	-.068	7.5
37	MP-11	X	-.02	3
38	MP-11	X	-.019	7
39	MP-12	X	-.082	7.5
40	MP-2	Z	.118	.5
41	MP-2	Z	.049	2
42	MP-2	Z	.042	2
43	MP-3	Z	.035	1
44	MP-3	Z	.032	5
45	MP-4	Z	.142	.5
46	MP-4	Z	.049	2
47	MP-4	Z	.066	2
48	MP-6	Z	.183	.5
49	MP-6	Z	.034	2
50	MP-6	Z	.036	2
51	MP-7	Z	.054	1
52	MP-7	Z	.051	5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
53	MP-8	Z	.239	.5
54	MP-8	Z	.038	2
55	MP-8	Z	.045	2
56	MP-10	Z	.118	.5
57	MP-10	Z	.049	2
58	MP-10	Z	.042	2
59	MP-11	Z	.035	1
60	MP-11	Z	.032	5
61	MP-12	Z	.142	.5
62	MP-12	Z	.049	2
63	MP-12	Z	.066	2
64	SF1-TH-A	Z	.087	1.5
65	SF1-TH-B	Z	.021	1.5
66	SF1-TH-G	Z	.021	1.5
67	MP-2	Z	.118	7.5
68	MP-3	Z	.035	3
69	MP-3	Z	.032	7
70	MP-4	Z	.142	7.5
71	MP-6	Z	.183	7.5
72	MP-7	Z	.054	3
73	MP-7	Z	.051	7
74	MP-8	Z	.239	7.5
75	MP-10	Z	.118	7.5
76	MP-11	Z	.035	3
77	MP-11	Z	.032	7
78	MP-12	Z	.142	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.114	.5
2	MP-2	X	-.036	2
3	MP-2	X	-.033	2
4	MP-3	X	-.034	1
5	MP-3	X	-.031	5
6	MP-4	X	-.142	.5
7	MP-4	X	-.037	2
8	MP-4	X	-.048	2
9	MP-6	X	-.147	.5
10	MP-6	X	-.029	2
11	MP-6	X	-.03	2
12	MP-7	X	-.043	1
13	MP-7	X	-.041	5
14	MP-8	X	-.191	.5
15	MP-8	X	-.032	2
16	MP-8	X	-.038	2
17	MP-10	X	-.084	.5
18	MP-10	X	-.043	2
19	MP-10	X	-.035	2
20	MP-11	X	-.025	1
21	MP-11	X	-.023	5
22	MP-12	X	-.096	.5
23	MP-12	X	-.042	2
24	MP-12	X	-.059	2
25	SF1-TH-A	X	-.082	1.5
26	SF1-TH-B	X	-.017	1.5
27	SF1-TH-G	X	-.017	1.5
28	MP-2	X	-.114	7.5
29	MP-3	X	-.034	3
30	MP-3	X	-.031	7
31	MP-4	X	-.142	7.5
32	MP-6	X	-.147	7.5
33	MP-7	X	-.043	3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
34	MP-7	X	-.041	7
35	MP-8	X	-.191	7.5
36	MP-10	X	-.084	7.5
37	MP-11	X	-.025	3
38	MP-11	X	-.023	7
39	MP-12	X	-.096	7.5
40	MP-2	Z	.114	.5
41	MP-2	Z	.036	2
42	MP-2	Z	.033	2
43	MP-3	Z	.034	1
44	MP-3	Z	.031	5
45	MP-4	Z	.142	.5
46	MP-4	Z	.037	2
47	MP-4	Z	.048	2
48	MP-6	Z	.147	.5
49	MP-6	Z	.029	2
50	MP-6	Z	.03	2
51	MP-7	Z	.043	1
52	MP-7	Z	.041	5
53	MP-8	Z	.191	.5
54	MP-8	Z	.032	2
55	MP-8	Z	.038	2
56	MP-10	Z	.084	.5
57	MP-10	Z	.043	2
58	MP-10	Z	.035	2
59	MP-11	Z	.025	1
60	MP-11	Z	.023	5
61	MP-12	Z	.096	.5
62	MP-12	Z	.042	2
63	MP-12	Z	.059	2
64	SF1-TH-A	Z	.082	1.5
65	SF1-TH-B	Z	.017	1.5
66	SF1-TH-G	Z	.017	1.5
67	MP-2	Z	.114	7.5
68	MP-3	Z	.034	3
69	MP-3	Z	.031	7
70	MP-4	Z	.142	7.5
71	MP-6	Z	.147	7.5
72	MP-7	Z	.043	3
73	MP-7	Z	.041	7
74	MP-8	Z	.191	7.5
75	MP-10	Z	.084	7.5
76	MP-11	Z	.025	3
77	MP-11	Z	.023	7
78	MP-12	Z	.096	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.162	.5
2	MP-2	X	-.039	2
3	MP-2	X	-.038	2
4	MP-3	X	-.048	1
5	MP-3	X	-.045	5
6	MP-4	X	-.207	.5
7	MP-4	X	-.041	2
8	MP-4	X	-.052	2
9	MP-6	X	-.165	.5
10	MP-6	X	-.039	2
11	MP-6	X	-.038	2
12	MP-7	X	-.049	1
13	MP-7	X	-.046	5
14	MP-8	X	-.213	.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP-8	X	-.041	2
16	MP-8	X	-.052	2
17	MP-10	X	-.096	.5
18	MP-10	X	-.054	2
19	MP-10	X	-.044	2
20	MP-11	X	-.029	1
21	MP-11	X	-.026	5
22	MP-12	X	-.109	.5
23	MP-12	X	-.053	2
24	MP-12	X	-.074	2
25	SF1-TH-A	X	-.115	1.5
26	SF1-TH-B	X	-.021	1.5
27	SF1-TH-G	X	-.021	1.5
28	MP-2	X	-.162	7.5
29	MP-3	X	-.048	3
30	MP-3	X	-.045	7
31	MP-4	X	-.207	7.5
32	MP-6	X	-.165	7.5
33	MP-7	X	-.049	3
34	MP-7	X	-.046	7
35	MP-8	X	-.213	7.5
36	MP-10	X	-.096	7.5
37	MP-11	X	-.029	3
38	MP-11	X	-.026	7
39	MP-12	X	-.109	7.5
40	MP-2	Z	.093	.5
41	MP-2	Z	.022	2
42	MP-2	Z	.022	2
43	MP-3	Z	.028	1
44	MP-3	Z	.026	5
45	MP-4	Z	.12	.5
46	MP-4	Z	.024	2
47	MP-4	Z	.03	2
48	MP-6	Z	.095	.5
49	MP-6	Z	.022	2
50	MP-6	Z	.022	2
51	MP-7	Z	.028	1
52	MP-7	Z	.026	5
53	MP-8	Z	.123	.5
54	MP-8	Z	.024	2
55	MP-8	Z	.03	2
56	MP-10	Z	.056	.5
57	MP-10	Z	.031	2
58	MP-10	Z	.025	2
59	MP-11	Z	.017	1
60	MP-11	Z	.015	5
61	MP-12	Z	.063	.5
62	MP-12	Z	.031	2
63	MP-12	Z	.042	2
64	SF1-TH-A	Z	.066	1.5
65	SF1-TH-B	Z	.012	1.5
66	SF1-TH-G	Z	.012	1.5
67	MP-2	Z	.093	7.5
68	MP-3	Z	.028	3
69	MP-3	Z	.026	7
70	MP-4	Z	.12	7.5
71	MP-6	Z	.095	7.5
72	MP-7	Z	.028	3
73	MP-7	Z	.026	7
74	MP-8	Z	.123	7.5
75	MP-10	Z	.056	7.5
76	MP-11	Z	.017	3
77	MP-11	Z	.015	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
78	MP-12	Z	.063	7.5

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Y	-.143	.5
2	MP-2	Y	-.073	2
3	MP-2	Y	-.072	2
4	MP-3	Y	-.059	1
5	MP-3	Y	-.056	5
6	MP-4	Y	-.185	.5
7	MP-4	Y	-.076	2
8	MP-4	Y	-.086	2
9	MP-6	Y	-.143	.5
10	MP-6	Y	-.073	2
11	MP-6	Y	-.072	2
12	MP-7	Y	-.059	1
13	MP-7	Y	-.056	5
14	MP-8	Y	-.185	.5
15	MP-8	Y	-.076	2
16	MP-8	Y	-.086	2
17	MP-10	Y	-.143	.5
18	MP-10	Y	-.073	2
19	MP-10	Y	-.072	2
20	MP-11	Y	-.059	1
21	MP-11	Y	-.056	5
22	MP-12	Y	-.185	.5
23	MP-12	Y	-.076	2
24	MP-12	Y	-.086	2
25	SF1-TH-A	Y	-.145	1.5
26	SF1-TH-B	Y	-.054	1.5
27	SF1-TH-G	Y	-.054	1.5
28	MP-2	Y	-.143	7.5
29	MP-3	Y	-.059	3
30	MP-3	Y	-.056	7
31	MP-4	Y	-.185	7.5
32	MP-6	Y	-.143	7.5
33	MP-7	Y	-.059	3
34	MP-7	Y	-.056	7
35	MP-8	Y	-.185	7.5
36	MP-10	Y	-.143	7.5
37	MP-11	Y	-.059	3
38	MP-11	Y	-.056	7
39	MP-12	Y	-.185	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.048	.5
2	MP-2	X	-.017	2
3	MP-2	X	-.015	2
4	MP-3	X	-.016	1
5	MP-3	X	-.015	5
6	MP-4	X	-.061	.5
7	MP-4	X	-.017	2
8	MP-4	X	-.023	2
9	MP-6	X	-.048	.5
10	MP-6	X	-.017	2
11	MP-6	X	-.015	2
12	MP-7	X	-.016	1
13	MP-7	X	-.015	5
14	MP-8	X	-.061	.5
15	MP-8	X	-.017	2
16	MP-8	X	-.023	2

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
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Member Point Loads (BLC 19 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP-10	X	-.048	.5
18	MP-10	X	-.017	2
19	MP-10	X	-.015	2
20	MP-11	X	-.016	1
21	MP-11	X	-.015	5
22	MP-12	X	-.061	.5
23	MP-12	X	-.017	2
24	MP-12	X	-.023	2
25	SF1-TH-A	X	-.036	1.5
26	SF1-TH-B	X	-.007	1.5
27	SF1-TH-G	X	-.007	1.5
28	MP-2	X	-.048	7.5
29	MP-3	X	-.016	3
30	MP-3	X	-.015	7
31	MP-4	X	-.061	7.5
32	MP-6	X	-.048	7.5
33	MP-7	X	-.016	3
34	MP-7	X	-.015	7
35	MP-8	X	-.061	7.5
36	MP-10	X	-.048	7.5
37	MP-11	X	-.016	3
38	MP-11	X	-.015	7
39	MP-12	X	-.061	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.038	.5
2	MP-2	X	-.012	2
3	MP-2	X	-.011	2
4	MP-3	X	-.012	1
5	MP-3	X	-.012	5
6	MP-4	X	-.047	.5
7	MP-4	X	-.012	2
8	MP-4	X	-.015	2
9	MP-6	X	-.026	.5
10	MP-6	X	-.015	2
11	MP-6	X	-.013	2
12	MP-7	X	-.008	1
13	MP-7	X	-.008	5
14	MP-8	X	-.028	.5
15	MP-8	X	-.015	2
16	MP-8	X	-.02	2
17	MP-10	X	-.038	.5
18	MP-10	X	-.012	2
19	MP-10	X	-.011	2
20	MP-11	X	-.012	1
21	MP-11	X	-.012	5
22	MP-12	X	-.047	.5
23	MP-12	X	-.012	2
24	MP-12	X	-.015	2
25	SF1-TH-A	X	-.029	1.5
26	SF1-TH-B	X	-.006	1.5
27	SF1-TH-G	X	-.006	1.5
28	MP-2	X	-.038	7.5
29	MP-3	X	-.012	3
30	MP-3	X	-.012	7
31	MP-4	X	-.047	7.5
32	MP-6	X	-.026	7.5
33	MP-7	X	-.008	3
34	MP-7	X	-.008	7
35	MP-8	X	-.028	7.5
36	MP-10	X	-.038	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP-11	X	-.012	3
38	MP-11	X	-.012	7
39	MP-12	X	-.047	7.5
40	MP-2	Z	-.022	.5
41	MP-2	Z	-.007	2
42	MP-2	Z	-.007	2
43	MP-3	Z	-.007	1
44	MP-3	Z	-.007	5
45	MP-4	Z	-.027	.5
46	MP-4	Z	-.007	2
47	MP-4	Z	-.009	2
48	MP-6	Z	-.015	.5
49	MP-6	Z	-.009	2
50	MP-6	Z	-.007	2
51	MP-7	Z	-.005	1
52	MP-7	Z	-.004	5
53	MP-8	Z	-.016	.5
54	MP-8	Z	-.009	2
55	MP-8	Z	-.011	2
56	MP-10	Z	-.022	.5
57	MP-10	Z	-.007	2
58	MP-10	Z	-.007	2
59	MP-11	Z	-.007	1
60	MP-11	Z	-.007	5
61	MP-12	Z	-.027	.5
62	MP-12	Z	-.007	2
63	MP-12	Z	-.009	2
64	SF1-TH-A	Z	-.016	1.5
65	SF1-TH-B	Z	-.004	1.5
66	SF1-TH-G	Z	-.004	1.5
67	MP-2	Z	-.022	7.5
68	MP-3	Z	-.007	3
69	MP-3	Z	-.007	7
70	MP-4	Z	-.027	7.5
71	MP-6	Z	-.015	7.5
72	MP-7	Z	-.005	3
73	MP-7	Z	-.004	7
74	MP-8	Z	-.016	7.5
75	MP-10	Z	-.022	7.5
76	MP-11	Z	-.007	3
77	MP-11	Z	-.007	7
78	MP-12	Z	-.027	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.028	.5
2	MP-2	X	-.01	2
3	MP-2	X	-.01	2
4	MP-3	X	-.009	1
5	MP-3	X	-.008	5
6	MP-4	X	-.033	.5
7	MP-4	X	-.011	2
8	MP-4	X	-.014	2
9	MP-6	X	-.022	.5
10	MP-6	X	-.012	2
11	MP-6	X	-.01	2
12	MP-7	X	-.007	1
13	MP-7	X	-.006	5
14	MP-8	X	-.024	.5
15	MP-8	X	-.012	2
16	MP-8	X	-.016	2
17	MP-10	X	-.033	.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP-10	X	-.009	2
19	MP-10	X	-.009	2
20	MP-11	X	-.011	1
21	MP-11	X	-.01	5
22	MP-12	X	-.042	.5
23	MP-12	X	-.009	2
24	MP-12	X	-.011	2
25	SF1-TH-A	X	-.021	1.5
26	SF1-TH-B	X	-.005	1.5
27	SF1-TH-G	X	-.005	1.5
28	MP-2	X	-.028	7.5
29	MP-3	X	-.009	3
30	MP-3	X	-.008	7
31	MP-4	X	-.033	7.5
32	MP-6	X	-.022	7.5
33	MP-7	X	-.007	3
34	MP-7	X	-.006	7
35	MP-8	X	-.024	7.5
36	MP-10	X	-.033	7.5
37	MP-11	X	-.011	3
38	MP-11	X	-.01	7
39	MP-12	X	-.042	7.5
40	MP-2	Z	-.028	.5
41	MP-2	Z	-.01	2
42	MP-2	Z	-.01	2
43	MP-3	Z	-.009	1
44	MP-3	Z	-.008	5
45	MP-4	Z	-.033	.5
46	MP-4	Z	-.011	2
47	MP-4	Z	-.014	2
48	MP-6	Z	-.022	.5
49	MP-6	Z	-.012	2
50	MP-6	Z	-.01	2
51	MP-7	Z	-.007	1
52	MP-7	Z	-.006	5
53	MP-8	Z	-.024	.5
54	MP-8	Z	-.012	2
55	MP-8	Z	-.016	2
56	MP-10	Z	-.033	.5
57	MP-10	Z	-.009	2
58	MP-10	Z	-.009	2
59	MP-11	Z	-.011	1
60	MP-11	Z	-.01	5
61	MP-12	Z	-.042	.5
62	MP-12	Z	-.009	2
63	MP-12	Z	-.011	2
64	SF1-TH-A	Z	-.021	1.5
65	SF1-TH-B	Z	-.005	1.5
66	SF1-TH-G	Z	-.005	1.5
67	MP-2	Z	-.028	7.5
68	MP-3	Z	-.009	3
69	MP-3	Z	-.008	7
70	MP-4	Z	-.033	7.5
71	MP-6	Z	-.022	7.5
72	MP-7	Z	-.007	3
73	MP-7	Z	-.006	7
74	MP-8	Z	-.024	7.5
75	MP-10	Z	-.033	7.5
76	MP-11	Z	-.011	3
77	MP-11	Z	-.01	7
78	MP-12	Z	-.042	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.017	.5
2	MP-2	X	-.008	2
3	MP-2	X	-.007	2
4	MP-3	X	-.006	1
5	MP-3	X	-.005	5
6	MP-4	X	-.02	.5
7	MP-4	X	-.008	2
8	MP-4	X	-.011	2
9	MP-6	X	-.017	.5
10	MP-6	X	-.008	2
11	MP-6	X	-.007	2
12	MP-7	X	-.005	1
13	MP-7	X	-.005	5
14	MP-8	X	-.019	.5
15	MP-8	X	-.008	2
16	MP-8	X	-.011	2
17	MP-10	X	-.024	.5
18	MP-10	X	-.006	2
19	MP-10	X	-.006	2
20	MP-11	X	-.008	1
21	MP-11	X	-.007	5
22	MP-12	X	-.031	.5
23	MP-12	X	-.007	2
24	MP-12	X	-.008	2
25	SF1-TH-A	X	-.013	1.5
26	SF1-TH-B	X	-.004	1.5
27	SF1-TH-G	X	-.004	1.5
28	MP-2	X	-.017	7.5
29	MP-3	X	-.006	3
30	MP-3	X	-.005	7
31	MP-4	X	-.02	7.5
32	MP-6	X	-.017	7.5
33	MP-7	X	-.005	3
34	MP-7	X	-.005	7
35	MP-8	X	-.019	7.5
36	MP-10	X	-.024	7.5
37	MP-11	X	-.008	3
38	MP-11	X	-.007	7
39	MP-12	X	-.031	7.5
40	MP-2	Z	-.03	.5
41	MP-2	Z	-.014	2
42	MP-2	Z	-.012	2
43	MP-3	Z	-.01	1
44	MP-3	Z	-.009	5
45	MP-4	Z	-.034	.5
46	MP-4	Z	-.014	2
47	MP-4	Z	-.018	2
48	MP-6	Z	-.029	.5
49	MP-6	Z	-.014	2
50	MP-6	Z	-.012	2
51	MP-7	Z	-.009	1
52	MP-7	Z	-.009	5
53	MP-8	Z	-.033	.5
54	MP-8	Z	-.014	2
55	MP-8	Z	-.018	2
56	MP-10	Z	-.042	.5
57	MP-10	Z	-.011	2
58	MP-10	Z	-.011	2
59	MP-11	Z	-.014	1
60	MP-11	Z	-.013	5
61	MP-12	Z	-.053	.5
62	MP-12	Z	-.011	2
63	MP-12	Z	-.014	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	SF1-TH-A	Z	-.023	1.5
65	SF1-TH-B	Z	-.006	1.5
66	SF1-TH-G	Z	-.006	1.5
67	MP-2	Z	-.03	7.5
68	MP-3	Z	-.01	3
69	MP-3	Z	-.009	7
70	MP-4	Z	-.034	7.5
71	MP-6	Z	-.029	7.5
72	MP-7	Z	-.009	3
73	MP-7	Z	-.009	7
74	MP-8	Z	-.033	7.5
75	MP-10	Z	-.042	7.5
76	MP-11	Z	-.014	3
77	MP-11	Z	-.013	7
78	MP-12	Z	-.053	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-.03	.5
2	MP-2	Z	-.012	2
3	MP-2	Z	-.013	2
4	MP-3	Z	-.01	1
5	MP-3	Z	-.009	5
6	MP-4	Z	-.032	.5
7	MP-4	Z	-.013	2
8	MP-4	Z	-.016	2
9	MP-6	Z	-.03	.5
10	MP-6	Z	-.012	2
11	MP-6	Z	-.013	2
12	MP-7	Z	-.01	1
13	MP-7	Z	-.009	5
14	MP-8	Z	-.032	.5
15	MP-8	Z	-.013	2
16	MP-8	Z	-.016	2
17	MP-10	Z	-.03	.5
18	MP-10	Z	-.012	2
19	MP-10	Z	-.013	2
20	MP-11	Z	-.01	1
21	MP-11	Z	-.009	5
22	MP-12	Z	-.032	.5
23	MP-12	Z	-.013	2
24	MP-12	Z	-.016	2
25	SF1-TH-A	Z	-.023	1.5
26	SF1-TH-B	Z	-.007	1.5
27	SF1-TH-G	Z	-.007	1.5
28	MP-2	Z	-.03	7.5
29	MP-3	Z	-.01	3
30	MP-3	Z	-.009	7
31	MP-4	Z	-.032	7.5
32	MP-6	Z	-.03	7.5
33	MP-7	Z	-.01	3
34	MP-7	Z	-.009	7
35	MP-8	Z	-.032	7.5
36	MP-10	Z	-.03	7.5
37	MP-11	Z	-.01	3
38	MP-11	Z	-.009	7
39	MP-12	Z	-.032	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.017	.5
2	MP-2	X	.008	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP-2	X	.007	2
4	MP-3	X	.006	1
5	MP-3	X	.005	5
6	MP-4	X	.02	.5
7	MP-4	X	.008	2
8	MP-4	X	.011	2
9	MP-6	X	.024	.5
10	MP-6	X	.006	2
11	MP-6	X	.006	2
12	MP-7	X	.008	1
13	MP-7	X	.007	5
14	MP-8	X	.03	.5
15	MP-8	X	.007	2
16	MP-8	X	.008	2
17	MP-10	X	.017	.5
18	MP-10	X	.008	2
19	MP-10	X	.007	2
20	MP-11	X	.006	1
21	MP-11	X	.005	5
22	MP-12	X	.02	.5
23	MP-12	X	.008	2
24	MP-12	X	.011	2
25	SF1-TH-A	X	.013	1.5
26	SF1-TH-B	X	.004	1.5
27	SF1-TH-G	X	.004	1.5
28	MP-2	X	.017	7.5
29	MP-3	X	.006	3
30	MP-3	X	.005	7
31	MP-4	X	.02	7.5
32	MP-6	X	.024	7.5
33	MP-7	X	.008	3
34	MP-7	X	.007	7
35	MP-8	X	.03	7.5
36	MP-10	X	.017	7.5
37	MP-11	X	.006	3
38	MP-11	X	.005	7
39	MP-12	X	.02	7.5
40	MP-2	Z	-.03	.5
41	MP-2	Z	-.014	2
42	MP-2	Z	-.012	2
43	MP-3	Z	-.01	1
44	MP-3	Z	-.009	5
45	MP-4	Z	-.034	.5
46	MP-4	Z	-.014	2
47	MP-4	Z	-.018	2
48	MP-6	Z	-.042	.5
49	MP-6	Z	-.011	2
50	MP-6	Z	-.011	2
51	MP-7	Z	-.014	1
52	MP-7	Z	-.013	5
53	MP-8	Z	-.053	.5
54	MP-8	Z	-.011	2
55	MP-8	Z	-.014	2
56	MP-10	Z	-.03	.5
57	MP-10	Z	-.014	2
58	MP-10	Z	-.012	2
59	MP-11	Z	-.01	1
60	MP-11	Z	-.009	5
61	MP-12	Z	-.034	.5
62	MP-12	Z	-.014	2
63	MP-12	Z	-.018	2
64	SF1-TH-A	Z	-.023	1.5
65	SF1-TH-B	Z	-.006	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
66	SF1-TH-G	Z	-.006	1.5
67	MP-2	Z	-.03	7.5
68	MP-3	Z	-.01	3
69	MP-3	Z	-.009	7
70	MP-4	Z	-.034	7.5
71	MP-6	Z	-.042	7.5
72	MP-7	Z	-.014	3
73	MP-7	Z	-.013	7
74	MP-8	Z	-.053	7.5
75	MP-10	Z	-.03	7.5
76	MP-11	Z	-.01	3
77	MP-11	Z	-.009	7
78	MP-12	Z	-.034	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.028	.5
2	MP-2	X	.01	2
3	MP-2	X	.01	2
4	MP-3	X	.009	1
5	MP-3	X	.008	5
6	MP-4	X	.033	.5
7	MP-4	X	.011	2
8	MP-4	X	.014	2
9	MP-6	X	.034	.5
10	MP-6	X	.009	2
11	MP-6	X	.009	2
12	MP-7	X	.011	1
13	MP-7	X	.01	5
14	MP-8	X	.042	.5
15	MP-8	X	.009	2
16	MP-8	X	.011	2
17	MP-10	X	.022	.5
18	MP-10	X	.012	2
19	MP-10	X	.01	2
20	MP-11	X	.007	1
21	MP-11	X	.006	5
22	MP-12	X	.024	.5
23	MP-12	X	.012	2
24	MP-12	X	.016	2
25	SF1-TH-A	X	.021	1.5
26	SF1-TH-B	X	.005	1.5
27	SF1-TH-G	X	.005	1.5
28	MP-2	X	.028	7.5
29	MP-3	X	.009	3
30	MP-3	X	.008	7
31	MP-4	X	.033	7.5
32	MP-6	X	.034	7.5
33	MP-7	X	.011	3
34	MP-7	X	.01	7
35	MP-8	X	.042	7.5
36	MP-10	X	.022	7.5
37	MP-11	X	.007	3
38	MP-11	X	.006	7
39	MP-12	X	.024	7.5
40	MP-2	Z	-.028	.5
41	MP-2	Z	-.01	2
42	MP-2	Z	-.01	2
43	MP-3	Z	-.009	1
44	MP-3	Z	-.008	5
45	MP-4	Z	-.033	.5
46	MP-4	Z	-.011	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
47	MP-4	Z	-.014	2
48	MP-6	Z	-.034	.5
49	MP-6	Z	-.009	2
50	MP-6	Z	-.009	2
51	MP-7	Z	-.011	1
52	MP-7	Z	-.01	5
53	MP-8	Z	-.042	.5
54	MP-8	Z	-.009	2
55	MP-8	Z	-.011	2
56	MP-10	Z	-.022	.5
57	MP-10	Z	-.012	2
58	MP-10	Z	-.01	2
59	MP-11	Z	-.007	1
60	MP-11	Z	-.006	5
61	MP-12	Z	-.024	.5
62	MP-12	Z	-.012	2
63	MP-12	Z	-.016	2
64	SF1-TH-A	Z	-.021	1.5
65	SF1-TH-B	Z	-.005	1.5
66	SF1-TH-G	Z	-.005	1.5
67	MP-2	Z	-.028	7.5
68	MP-3	Z	-.009	3
69	MP-3	Z	-.008	7
70	MP-4	Z	-.033	7.5
71	MP-6	Z	-.034	7.5
72	MP-7	Z	-.011	3
73	MP-7	Z	-.01	7
74	MP-8	Z	-.042	7.5
75	MP-10	Z	-.022	7.5
76	MP-11	Z	-.007	3
77	MP-11	Z	-.006	7
78	MP-12	Z	-.024	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.038	.5
2	MP-2	X	.012	2
3	MP-2	X	.011	2
4	MP-3	X	.012	1
5	MP-3	X	.012	5
6	MP-4	X	.047	.5
7	MP-4	X	.012	2
8	MP-4	X	.015	2
9	MP-6	X	.039	.5
10	MP-6	X	.012	2
11	MP-6	X	.011	2
12	MP-7	X	.012	1
13	MP-7	X	.012	5
14	MP-8	X	.048	.5
15	MP-8	X	.012	2
16	MP-8	X	.015	2
17	MP-10	X	.026	.5
18	MP-10	X	.015	2
19	MP-10	X	.013	2
20	MP-11	X	.008	1
21	MP-11	X	.008	5
22	MP-12	X	.028	.5
23	MP-12	X	.015	2
24	MP-12	X	.02	2
25	SF1-TH-A	X	.029	1.5
26	SF1-TH-B	X	.006	1.5
27	SF1-TH-G	X	.006	1.5

Company : Tower Engineering Professionals, Inc.
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Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP-2	X	.038	7.5
29	MP-3	X	.012	3
30	MP-3	X	.012	7
31	MP-4	X	.047	7.5
32	MP-6	X	.039	7.5
33	MP-7	X	.012	3
34	MP-7	X	.012	7
35	MP-8	X	.048	7.5
36	MP-10	X	.026	7.5
37	MP-11	X	.008	3
38	MP-11	X	.008	7
39	MP-12	X	.028	7.5
40	MP-2	Z	-.022	.5
41	MP-2	Z	-.007	2
42	MP-2	Z	-.007	2
43	MP-3	Z	-.007	1
44	MP-3	Z	-.007	5
45	MP-4	Z	-.027	.5
46	MP-4	Z	-.007	2
47	MP-4	Z	-.009	2
48	MP-6	Z	-.022	.5
49	MP-6	Z	-.007	2
50	MP-6	Z	-.007	2
51	MP-7	Z	-.007	1
52	MP-7	Z	-.007	5
53	MP-8	Z	-.028	.5
54	MP-8	Z	-.007	2
55	MP-8	Z	-.009	2
56	MP-10	Z	-.015	.5
57	MP-10	Z	-.009	2
58	MP-10	Z	-.007	2
59	MP-11	Z	-.005	1
60	MP-11	Z	-.004	5
61	MP-12	Z	-.016	.5
62	MP-12	Z	-.009	2
63	MP-12	Z	-.011	2
64	SF1-TH-A	Z	-.016	1.5
65	SF1-TH-B	Z	-.004	1.5
66	SF1-TH-G	Z	-.004	1.5
67	MP-2	Z	-.022	7.5
68	MP-3	Z	-.007	3
69	MP-3	Z	-.007	7
70	MP-4	Z	-.027	7.5
71	MP-6	Z	-.022	7.5
72	MP-7	Z	-.007	3
73	MP-7	Z	-.007	7
74	MP-8	Z	-.028	7.5
75	MP-10	Z	-.015	7.5
76	MP-11	Z	-.005	3
77	MP-11	Z	-.004	7
78	MP-12	Z	-.016	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.048	.5
2	MP-2	X	.017	2
3	MP-2	X	.015	2
4	MP-3	X	.016	1
5	MP-3	X	.015	5
6	MP-4	X	.061	.5
7	MP-4	X	.017	2
8	MP-4	X	.023	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP-6	X	.048	.5
10	MP-6	X	.017	2
11	MP-6	X	.015	2
12	MP-7	X	.016	1
13	MP-7	X	.015	5
14	MP-8	X	.061	.5
15	MP-8	X	.017	2
16	MP-8	X	.023	2
17	MP-10	X	.048	.5
18	MP-10	X	.017	2
19	MP-10	X	.015	2
20	MP-11	X	.016	1
21	MP-11	X	.015	5
22	MP-12	X	.061	.5
23	MP-12	X	.017	2
24	MP-12	X	.023	2
25	SF1-TH-A	X	.036	1.5
26	SF1-TH-B	X	.007	1.5
27	SF1-TH-G	X	.007	1.5
28	MP-2	X	.048	7.5
29	MP-3	X	.016	3
30	MP-3	X	.015	7
31	MP-4	X	.061	7.5
32	MP-6	X	.048	7.5
33	MP-7	X	.016	3
34	MP-7	X	.015	7
35	MP-8	X	.061	7.5
36	MP-10	X	.048	7.5
37	MP-11	X	.016	3
38	MP-11	X	.015	7
39	MP-12	X	.061	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.038	.5
2	MP-2	X	.012	2
3	MP-2	X	.011	2
4	MP-3	X	.012	1
5	MP-3	X	.012	5
6	MP-4	X	.047	.5
7	MP-4	X	.012	2
8	MP-4	X	.015	2
9	MP-6	X	.026	.5
10	MP-6	X	.015	2
11	MP-6	X	.013	2
12	MP-7	X	.008	1
13	MP-7	X	.008	5
14	MP-8	X	.028	.5
15	MP-8	X	.015	2
16	MP-8	X	.02	2
17	MP-10	X	.038	.5
18	MP-10	X	.012	2
19	MP-10	X	.011	2
20	MP-11	X	.012	1
21	MP-11	X	.012	5
22	MP-12	X	.047	.5
23	MP-12	X	.012	2
24	MP-12	X	.015	2
25	SF1-TH-A	X	.029	1.5
26	SF1-TH-B	X	.006	1.5
27	SF1-TH-G	X	.006	1.5
28	MP-2	X	.038	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP-3	X	.012	3
30	MP-3	X	.012	7
31	MP-4	X	.047	7.5
32	MP-6	X	.026	7.5
33	MP-7	X	.008	3
34	MP-7	X	.008	7
35	MP-8	X	.028	7.5
36	MP-10	X	.038	7.5
37	MP-11	X	.012	3
38	MP-11	X	.012	7
39	MP-12	X	.047	7.5
40	MP-2	Z	.022	.5
41	MP-2	Z	.007	2
42	MP-2	Z	.007	2
43	MP-3	Z	.007	1
44	MP-3	Z	.007	5
45	MP-4	Z	.027	.5
46	MP-4	Z	.007	2
47	MP-4	Z	.009	2
48	MP-6	Z	.015	.5
49	MP-6	Z	.009	2
50	MP-6	Z	.007	2
51	MP-7	Z	.005	1
52	MP-7	Z	.004	5
53	MP-8	Z	.016	.5
54	MP-8	Z	.009	2
55	MP-8	Z	.011	2
56	MP-10	Z	.022	.5
57	MP-10	Z	.007	2
58	MP-10	Z	.007	2
59	MP-11	Z	.007	1
60	MP-11	Z	.007	5
61	MP-12	Z	.027	.5
62	MP-12	Z	.007	2
63	MP-12	Z	.009	2
64	SF1-TH-A	Z	.016	1.5
65	SF1-TH-B	Z	.004	1.5
66	SF1-TH-G	Z	.004	1.5
67	MP-2	Z	.022	7.5
68	MP-3	Z	.007	3
69	MP-3	Z	.007	7
70	MP-4	Z	.027	7.5
71	MP-6	Z	.015	7.5
72	MP-7	Z	.005	3
73	MP-7	Z	.004	7
74	MP-8	Z	.016	7.5
75	MP-10	Z	.022	7.5
76	MP-11	Z	.007	3
77	MP-11	Z	.007	7
78	MP-12	Z	.027	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.028	.5
2	MP-2	X	.01	2
3	MP-2	X	.01	2
4	MP-3	X	.009	1
5	MP-3	X	.008	5
6	MP-4	X	.033	.5
7	MP-4	X	.011	2
8	MP-4	X	.014	2
9	MP-6	X	.022	.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP-6	X	.012	2
11	MP-6	X	.01	2
12	MP-7	X	.007	1
13	MP-7	X	.006	5
14	MP-8	X	.024	.5
15	MP-8	X	.012	2
16	MP-8	X	.016	2
17	MP-10	X	.033	.5
18	MP-10	X	.009	2
19	MP-10	X	.009	2
20	MP-11	X	.011	1
21	MP-11	X	.01	5
22	MP-12	X	.042	.5
23	MP-12	X	.009	2
24	MP-12	X	.011	2
25	SF1-TH-A	X	.021	1.5
26	SF1-TH-B	X	.005	1.5
27	SF1-TH-G	X	.005	1.5
28	MP-2	X	.028	7.5
29	MP-3	X	.009	3
30	MP-3	X	.008	7
31	MP-4	X	.033	7.5
32	MP-6	X	.022	7.5
33	MP-7	X	.007	3
34	MP-7	X	.006	7
35	MP-8	X	.024	7.5
36	MP-10	X	.033	7.5
37	MP-11	X	.011	3
38	MP-11	X	.01	7
39	MP-12	X	.042	7.5
40	MP-2	Z	.028	.5
41	MP-2	Z	.01	2
42	MP-2	Z	.01	2
43	MP-3	Z	.009	1
44	MP-3	Z	.008	5
45	MP-4	Z	.033	.5
46	MP-4	Z	.011	2
47	MP-4	Z	.014	2
48	MP-6	Z	.022	.5
49	MP-6	Z	.012	2
50	MP-6	Z	.01	2
51	MP-7	Z	.007	1
52	MP-7	Z	.006	5
53	MP-8	Z	.024	.5
54	MP-8	Z	.012	2
55	MP-8	Z	.016	2
56	MP-10	Z	.033	.5
57	MP-10	Z	.009	2
58	MP-10	Z	.009	2
59	MP-11	Z	.011	1
60	MP-11	Z	.01	5
61	MP-12	Z	.042	.5
62	MP-12	Z	.009	2
63	MP-12	Z	.011	2
64	SF1-TH-A	Z	.021	1.5
65	SF1-TH-B	Z	.005	1.5
66	SF1-TH-G	Z	.005	1.5
67	MP-2	Z	.028	7.5
68	MP-3	Z	.009	3
69	MP-3	Z	.008	7
70	MP-4	Z	.033	7.5
71	MP-6	Z	.022	7.5
72	MP-7	Z	.007	3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
73	MP-7	Z	.006	7
74	MP-8	Z	.024	7.5
75	MP-10	Z	.033	7.5
76	MP-11	Z	.011	3
77	MP-11	Z	.01	7
78	MP-12	Z	.042	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.017	.5
2	MP-2	X	.008	2
3	MP-2	X	.007	2
4	MP-3	X	.006	1
5	MP-3	X	.005	5
6	MP-4	X	.02	.5
7	MP-4	X	.008	2
8	MP-4	X	.011	2
9	MP-6	X	.017	.5
10	MP-6	X	.008	2
11	MP-6	X	.007	2
12	MP-7	X	.005	1
13	MP-7	X	.005	5
14	MP-8	X	.019	.5
15	MP-8	X	.008	2
16	MP-8	X	.011	2
17	MP-10	X	.024	.5
18	MP-10	X	.006	2
19	MP-10	X	.006	2
20	MP-11	X	.008	1
21	MP-11	X	.007	5
22	MP-12	X	.031	.5
23	MP-12	X	.007	2
24	MP-12	X	.008	2
25	SF1-TH-A	X	.013	1.5
26	SF1-TH-B	X	.004	1.5
27	SF1-TH-G	X	.004	1.5
28	MP-2	X	.017	7.5
29	MP-3	X	.006	3
30	MP-3	X	.005	7
31	MP-4	X	.02	7.5
32	MP-6	X	.017	7.5
33	MP-7	X	.005	3
34	MP-7	X	.005	7
35	MP-8	X	.019	7.5
36	MP-10	X	.024	7.5
37	MP-11	X	.008	3
38	MP-11	X	.007	7
39	MP-12	X	.031	7.5
40	MP-2	Z	.03	.5
41	MP-2	Z	.014	2
42	MP-2	Z	.012	2
43	MP-3	Z	.01	1
44	MP-3	Z	.009	5
45	MP-4	Z	.034	.5
46	MP-4	Z	.014	2
47	MP-4	Z	.018	2
48	MP-6	Z	.029	.5
49	MP-6	Z	.014	2
50	MP-6	Z	.012	2
51	MP-7	Z	.009	1
52	MP-7	Z	.009	5
53	MP-8	Z	.033	.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
54	MP-8	Z	.014	2
55	MP-8	Z	.018	2
56	MP-10	Z	.042	.5
57	MP-10	Z	.011	2
58	MP-10	Z	.011	2
59	MP-11	Z	.014	1
60	MP-11	Z	.013	5
61	MP-12	Z	.053	.5
62	MP-12	Z	.011	2
63	MP-12	Z	.014	2
64	SF1-TH-A	Z	.023	1.5
65	SF1-TH-B	Z	.006	1.5
66	SF1-TH-G	Z	.006	1.5
67	MP-2	Z	.03	7.5
68	MP-3	Z	.01	3
69	MP-3	Z	.009	7
70	MP-4	Z	.034	7.5
71	MP-6	Z	.029	7.5
72	MP-7	Z	.009	3
73	MP-7	Z	.009	7
74	MP-8	Z	.033	7.5
75	MP-10	Z	.042	7.5
76	MP-11	Z	.014	3
77	MP-11	Z	.013	7
78	MP-12	Z	.053	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	.03	.5
2	MP-2	Z	.012	2
3	MP-2	Z	.013	2
4	MP-3	Z	.01	1
5	MP-3	Z	.009	5
6	MP-4	Z	.032	.5
7	MP-4	Z	.013	2
8	MP-4	Z	.016	2
9	MP-6	Z	.03	.5
10	MP-6	Z	.012	2
11	MP-6	Z	.013	2
12	MP-7	Z	.01	1
13	MP-7	Z	.009	5
14	MP-8	Z	.032	.5
15	MP-8	Z	.013	2
16	MP-8	Z	.016	2
17	MP-10	Z	.03	.5
18	MP-10	Z	.012	2
19	MP-10	Z	.013	2
20	MP-11	Z	.01	1
21	MP-11	Z	.009	5
22	MP-12	Z	.032	.5
23	MP-12	Z	.013	2
24	MP-12	Z	.016	2
25	SF1-TH-A	Z	.023	1.5
26	SF1-TH-B	Z	.007	1.5
27	SF1-TH-G	Z	.007	1.5
28	MP-2	Z	.03	7.5
29	MP-3	Z	.01	3
30	MP-3	Z	.009	7
31	MP-4	Z	.032	7.5
32	MP-6	Z	.03	7.5
33	MP-7	Z	.01	3
34	MP-7	Z	.009	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP-8	Z	.032	7.5
36	MP-10	Z	.03	7.5
37	MP-11	Z	.01	3
38	MP-11	Z	.009	7
39	MP-12	Z	.032	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.017	.5
2	MP-2	X	-.008	2
3	MP-2	X	-.007	2
4	MP-3	X	-.006	1
5	MP-3	X	-.005	5
6	MP-4	X	-.02	.5
7	MP-4	X	-.008	2
8	MP-4	X	-.011	2
9	MP-6	X	-.024	.5
10	MP-6	X	-.006	2
11	MP-6	X	-.006	2
12	MP-7	X	-.008	1
13	MP-7	X	-.007	5
14	MP-8	X	-.03	.5
15	MP-8	X	-.007	2
16	MP-8	X	-.008	2
17	MP-10	X	-.017	.5
18	MP-10	X	-.008	2
19	MP-10	X	-.007	2
20	MP-11	X	-.006	1
21	MP-11	X	-.005	5
22	MP-12	X	-.02	.5
23	MP-12	X	-.008	2
24	MP-12	X	-.011	2
25	SF1-TH-A	X	-.013	1.5
26	SF1-TH-B	X	-.004	1.5
27	SF1-TH-G	X	-.004	1.5
28	MP-2	X	-.017	7.5
29	MP-3	X	-.006	3
30	MP-3	X	-.005	7
31	MP-4	X	-.02	7.5
32	MP-6	X	-.024	7.5
33	MP-7	X	-.008	3
34	MP-7	X	-.007	7
35	MP-8	X	-.03	7.5
36	MP-10	X	-.017	7.5
37	MP-11	X	-.006	3
38	MP-11	X	-.005	7
39	MP-12	X	-.02	7.5
40	MP-2	Z	.03	.5
41	MP-2	Z	.014	2
42	MP-2	Z	.012	2
43	MP-3	Z	.01	1
44	MP-3	Z	.009	5
45	MP-4	Z	.034	.5
46	MP-4	Z	.014	2
47	MP-4	Z	.018	2
48	MP-6	Z	.042	.5
49	MP-6	Z	.011	2
50	MP-6	Z	.011	2
51	MP-7	Z	.014	1
52	MP-7	Z	.013	5
53	MP-8	Z	.053	.5
54	MP-8	Z	.011	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
55	MP-8	Z	.014	2
56	MP-10	Z	.03	.5
57	MP-10	Z	.014	2
58	MP-10	Z	.012	2
59	MP-11	Z	.01	1
60	MP-11	Z	.009	5
61	MP-12	Z	.034	.5
62	MP-12	Z	.014	2
63	MP-12	Z	.018	2
64	SF1-TH-A	Z	.023	1.5
65	SF1-TH-B	Z	.006	1.5
66	SF1-TH-G	Z	.006	1.5
67	MP-2	Z	.03	7.5
68	MP-3	Z	.01	3
69	MP-3	Z	.009	7
70	MP-4	Z	.034	7.5
71	MP-6	Z	.042	7.5
72	MP-7	Z	.014	3
73	MP-7	Z	.013	7
74	MP-8	Z	.053	7.5
75	MP-10	Z	.03	7.5
76	MP-11	Z	.01	3
77	MP-11	Z	.009	7
78	MP-12	Z	.034	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.028	.5
2	MP-2	X	-.01	2
3	MP-2	X	-.01	2
4	MP-3	X	-.009	1
5	MP-3	X	-.008	5
6	MP-4	X	-.033	.5
7	MP-4	X	-.011	2
8	MP-4	X	-.014	2
9	MP-6	X	-.034	.5
10	MP-6	X	-.009	2
11	MP-6	X	-.009	2
12	MP-7	X	-.011	1
13	MP-7	X	-.01	5
14	MP-8	X	-.042	.5
15	MP-8	X	-.009	2
16	MP-8	X	-.011	2
17	MP-10	X	-.022	.5
18	MP-10	X	-.012	2
19	MP-10	X	-.01	2
20	MP-11	X	-.007	1
21	MP-11	X	-.006	5
22	MP-12	X	-.024	.5
23	MP-12	X	-.012	2
24	MP-12	X	-.016	2
25	SF1-TH-A	X	-.021	1.5
26	SF1-TH-B	X	-.005	1.5
27	SF1-TH-G	X	-.005	1.5
28	MP-2	X	-.028	7.5
29	MP-3	X	-.009	3
30	MP-3	X	-.008	7
31	MP-4	X	-.033	7.5
32	MP-6	X	-.034	7.5
33	MP-7	X	-.011	3
34	MP-7	X	-.01	7
35	MP-8	X	-.042	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
36	MP-10	X	-.022	7.5
37	MP-11	X	-.007	3
38	MP-11	X	-.006	7
39	MP-12	X	-.024	7.5
40	MP-2	Z	.028	.5
41	MP-2	Z	.01	2
42	MP-2	Z	.01	2
43	MP-3	Z	.009	1
44	MP-3	Z	.008	5
45	MP-4	Z	.033	.5
46	MP-4	Z	.011	2
47	MP-4	Z	.014	2
48	MP-6	Z	.034	.5
49	MP-6	Z	.009	2
50	MP-6	Z	.009	2
51	MP-7	Z	.011	1
52	MP-7	Z	.01	5
53	MP-8	Z	.042	.5
54	MP-8	Z	.009	2
55	MP-8	Z	.011	2
56	MP-10	Z	.022	.5
57	MP-10	Z	.012	2
58	MP-10	Z	.01	2
59	MP-11	Z	.007	1
60	MP-11	Z	.006	5
61	MP-12	Z	.024	.5
62	MP-12	Z	.012	2
63	MP-12	Z	.016	2
64	SF1-TH-A	Z	.021	1.5
65	SF1-TH-B	Z	.005	1.5
66	SF1-TH-G	Z	.005	1.5
67	MP-2	Z	.028	7.5
68	MP-3	Z	.009	3
69	MP-3	Z	.008	7
70	MP-4	Z	.033	7.5
71	MP-6	Z	.034	7.5
72	MP-7	Z	.011	3
73	MP-7	Z	.01	7
74	MP-8	Z	.042	7.5
75	MP-10	Z	.022	7.5
76	MP-11	Z	.007	3
77	MP-11	Z	.006	7
78	MP-12	Z	.024	7.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.038	.5
2	MP-2	X	-.012	2
3	MP-2	X	-.011	2
4	MP-3	X	-.012	1
5	MP-3	X	-.012	5
6	MP-4	X	-.047	.5
7	MP-4	X	-.012	2
8	MP-4	X	-.015	2
9	MP-6	X	-.039	.5
10	MP-6	X	-.012	2
11	MP-6	X	-.011	2
12	MP-7	X	-.012	1
13	MP-7	X	-.012	5
14	MP-8	X	-.048	.5
15	MP-8	X	-.012	2
16	MP-8	X	-.015	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP-10	X	-.026	.5
18	MP-10	X	-.015	2
19	MP-10	X	-.013	2
20	MP-11	X	-.008	1
21	MP-11	X	-.008	5
22	MP-12	X	-.028	.5
23	MP-12	X	-.015	2
24	MP-12	X	-.02	2
25	SF1-TH-A	X	-.029	1.5
26	SF1-TH-B	X	-.006	1.5
27	SF1-TH-G	X	-.006	1.5
28	MP-2	X	-.038	7.5
29	MP-3	X	-.012	3
30	MP-3	X	-.012	7
31	MP-4	X	-.047	7.5
32	MP-6	X	-.039	7.5
33	MP-7	X	-.012	3
34	MP-7	X	-.012	7
35	MP-8	X	-.048	7.5
36	MP-10	X	-.026	7.5
37	MP-11	X	-.008	3
38	MP-11	X	-.008	7
39	MP-12	X	-.028	7.5
40	MP-2	Z	.022	.5
41	MP-2	Z	.007	2
42	MP-2	Z	.007	2
43	MP-3	Z	.007	1
44	MP-3	Z	.007	5
45	MP-4	Z	.027	.5
46	MP-4	Z	.007	2
47	MP-4	Z	.009	2
48	MP-6	Z	.022	.5
49	MP-6	Z	.007	2
50	MP-6	Z	.007	2
51	MP-7	Z	.007	1
52	MP-7	Z	.007	5
53	MP-8	Z	.028	.5
54	MP-8	Z	.007	2
55	MP-8	Z	.009	2
56	MP-10	Z	.015	.5
57	MP-10	Z	.009	2
58	MP-10	Z	.007	2
59	MP-11	Z	.005	1
60	MP-11	Z	.004	5
61	MP-12	Z	.016	.5
62	MP-12	Z	.009	2
63	MP-12	Z	.011	2
64	SF1-TH-A	Z	.016	1.5
65	SF1-TH-B	Z	.004	1.5
66	SF1-TH-G	Z	.004	1.5
67	MP-2	Z	.022	7.5
68	MP-3	Z	.007	3
69	MP-3	Z	.007	7
70	MP-4	Z	.027	7.5
71	MP-6	Z	.022	7.5
72	MP-7	Z	.007	3
73	MP-7	Z	.007	7
74	MP-8	Z	.028	7.5
75	MP-10	Z	.015	7.5
76	MP-11	Z	.005	3
77	MP-11	Z	.004	7
78	MP-12	Z	.016	7.5

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.053	.5
2	MP-2	X	-.059	2
3	MP-2	X	-.072	2
4	MP-3	X	-.041	1
5	MP-3	X	-.033	5
6	MP-4	X	-.048	.5
7	MP-4	X	-.071	2
8	MP-4	X	-.06	2
9	MP-6	X	-.053	.5
10	MP-6	X	-.059	2
11	MP-6	X	-.072	2
12	MP-7	X	-.041	1
13	MP-7	X	-.033	5
14	MP-8	X	-.048	.5
15	MP-8	X	-.071	2
16	MP-8	X	-.06	2
17	MP-10	X	-.053	.5
18	MP-10	X	-.059	2
19	MP-10	X	-.072	2
20	MP-11	X	-.041	1
21	MP-11	X	-.033	5
22	MP-12	X	-.048	.5
23	MP-12	X	-.071	2
24	MP-12	X	-.06	2
25	SF1-TH-A	X	-.016	1.5
26	SF1-TH-B	X	-.02	1.5
27	SF1-TH-G	X	-.02	1.5
28	MP-2	X	-.053	7.5
29	MP-3	X	-.041	3
30	MP-3	X	-.033	7
31	MP-4	X	-.048	7.5
32	MP-6	X	-.053	7.5
33	MP-7	X	-.041	3
34	MP-7	X	-.033	7
35	MP-8	X	-.048	7.5
36	MP-10	X	-.053	7.5
37	MP-11	X	-.041	3
38	MP-11	X	-.033	7
39	MP-12	X	-.048	7.5

Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-.053	.5
2	MP-2	Z	-.059	2
3	MP-2	Z	-.072	2
4	MP-3	Z	-.041	1
5	MP-3	Z	-.033	5
6	MP-4	Z	-.048	.5
7	MP-4	Z	-.071	2
8	MP-4	Z	-.06	2
9	MP-6	Z	-.053	.5
10	MP-6	Z	-.059	2
11	MP-6	Z	-.072	2
12	MP-7	Z	-.041	1
13	MP-7	Z	-.033	5
14	MP-8	Z	-.048	.5
15	MP-8	Z	-.071	2
16	MP-8	Z	-.06	2
17	MP-10	Z	-.053	.5
18	MP-10	Z	-.059	2
19	MP-10	Z	-.072	2
20	MP-11	Z	-.041	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	MP-11	Z	-.033	5
22	MP-12	Z	-.048	.5
23	MP-12	Z	-.071	2
24	MP-12	Z	-.06	2
25	SF1-TH-A	Z	-.016	1.5
26	SF1-TH-B	Z	-.02	1.5
27	SF1-TH-G	Z	-.02	1.5
28	MP-2	Z	-.053	7.5
29	MP-3	Z	-.041	3
30	MP-3	Z	-.033	7
31	MP-4	Z	-.048	7.5
32	MP-6	Z	-.053	7.5
33	MP-7	Z	-.041	3
34	MP-7	Z	-.033	7
35	MP-8	Z	-.048	7.5
36	MP-10	Z	-.053	7.5
37	MP-11	Z	-.041	3
38	MP-11	Z	-.033	7
39	MP-12	Z	-.048	7.5

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.007	-.007	0	%100
2	FF1-TH2-A	X	-.007	-.007	0	%100
3	FF1-TH3-A	X	-.007	-.007	0	%100
4	FF1-BH1-A	X	-.007	-.007	0	%100
5	FF1-BH2-A	X	-.007	-.007	0	%100
6	FF1-BH3-A	X	-.007	-.007	0	%100
7	MP-1	X	-.007	-.007	0	%100
8	MP-2	X	-.007	-.007	0	%100
9	MP-3	X	-.007	-.007	0	%100
10	MP-4	X	-.007	-.007	0	%100
11	SA1	X	-.007	-.007	0	%100
12	SF1-TH-A	X	-.005	-.005	0	%100
13	SF1-BH-A	X	-.005	-.005	0	%100
14	SF2-TH-A	X	-.005	-.005	0	%100
15	SF2-BH-A	X	-.005	-.005	0	%100
16	FP-1	X	-.002	-.002	0	%100
17	FP-2	X	-.002	-.002	0	%100
18	FP-3	X	-.002	-.002	0	%100
19	FP-4	X	-.002	-.002	0	%100
20	V1A	X	-.002	-.002	0	%100
21	V2A	X	-.002	-.002	0	%100
22	D1A	X	-.002	-.002	0	%100
23	V3A	X	-.002	-.002	0	%100
24	V4A	X	-.002	-.002	0	%100
25	D2A	X	-.002	-.002	0	%100
26	MAST-1	X	-.009	-.009	0	%100
27	FF1-TH1-B	X	-.004	-.004	0	%100
28	FF1-TH2-B	X	-.004	-.004	0	%100
29	FF1-TH3-B	X	-.004	-.004	0	%100
30	FF1-BH1-B	X	-.004	-.004	0	%100
31	FF1-BH2-B	X	-.004	-.004	0	%100
32	FF1-BH3-B	X	-.004	-.004	0	%100
33	MP-5	X	-.007	-.007	0	%100
34	MP-6	X	-.007	-.007	0	%100
35	MP-7	X	-.007	-.007	0	%100
36	MP-8	X	-.007	-.007	0	%100
37	SA2	X	-.007	-.007	0	%100
38	SF1-TH-B	X	-.006	-.006	0	%100
39	SF1-BH-B	X	-.006	-.006	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
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Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	SF2-TH-B	X	-.00039	-.00039	0	%100
41	SF2-BH-B	X	-.00039	-.00039	0	%100
42	FP-5	X	-.000814	-.000814	0	%100
43	FP-6	X	-.000814	-.000814	0	%100
44	FP-7	X	-.000814	-.000814	0	%100
45	FP-8	X	-.000814	-.000814	0	%100
46	V1B	X	-.002	-.002	0	%100
47	V2B	X	-.002	-.002	0	%100
48	D1B	X	-.002	-.002	0	%100
49	V3B	X	-.002	-.002	0	%100
50	V4B	X	-.002	-.002	0	%100
51	D2B	X	-.002	-.002	0	%100
52	MAST-2	X	-.009	-.009	0	%100
53	FF1-TH1-G	X	-.004	-.004	0	%100
54	FF1-TH2-G	X	-.004	-.004	0	%100
55	FF1-TH3-G	X	-.004	-.004	0	%100
56	FF1-BH1-G	X	-.004	-.004	0	%100
57	FF1-BH2-G	X	-.004	-.004	0	%100
58	FF1-BH3-G	X	-.004	-.004	0	%100
59	MP-9	X	-.007	-.007	0	%100
60	MP-10	X	-.007	-.007	0	%100
61	MP-11	X	-.007	-.007	0	%100
62	MP-12	X	-.007	-.007	0	%100
63	SA3	X	-.007	-.007	0	%100
64	SF1-TH-G	X	-.00039	-.00039	0	%100
65	SF1-BH-G	X	-.00039	-.00039	0	%100
66	SF2-TH-G	X	-.006	-.006	0	%100
67	SF2-BH-G	X	-.006	-.006	0	%100
68	FP-9	X	-.000814	-.000814	0	%100
69	FP-10	X	-.000814	-.000814	0	%100
70	FP-11	X	-.000814	-.000814	0	%100
71	FP-12	X	-.000814	-.000814	0	%100
72	V1G	X	-.002	-.002	0	%100
73	V2G	X	-.002	-.002	0	%100
74	D1G	X	-.002	-.002	0	%100
75	V3G	X	-.002	-.002	0	%100
76	V4G	X	-.002	-.002	0	%100
77	D2G	X	-.002	-.002	0	%100
78	MAST-3	X	-.009	-.009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.006	-.006	0	%100
2	FF1-TH2-A	X	-.006	-.006	0	%100
3	FF1-TH3-A	X	-.006	-.006	0	%100
4	FF1-BH1-A	X	-.006	-.006	0	%100
5	FF1-BH2-A	X	-.006	-.006	0	%100
6	FF1-BH3-A	X	-.006	-.006	0	%100
7	MP-1	X	-.006	-.006	0	%100
8	MP-2	X	-.006	-.006	0	%100
9	MP-3	X	-.006	-.006	0	%100
10	MP-4	X	-.006	-.006	0	%100
11	SA1	X	-.006	-.006	0	%100
12	SF1-TH-A	X	-.005	-.005	0	%100
13	SF1-BH-A	X	-.005	-.005	0	%100
14	SF2-TH-A	X	-.002	-.002	0	%100
15	SF2-BH-A	X	-.002	-.002	0	%100
16	FP-1	X	-.001	-.001	0	%100
17	FP-2	X	-.001	-.001	0	%100
18	FP-3	X	-.001	-.001	0	%100
19	FP-4	X	-.001	-.001	0	%100
20	V1A	X	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	V2A	X	-.002	-.002	0	%100
22	D1A	X	-.002	-.002	0	%100
23	V3A	X	-.002	-.002	0	%100
24	V4A	X	-.002	-.002	0	%100
25	D2A	X	-.002	-.002	0	%100
26	MAST-1	X	-.007	-.007	0	%100
27	FF1-TH1-B	X	0	0	0	%100
28	FF1-TH2-B	X	0	0	0	%100
29	FF1-TH3-B	X	0	0	0	%100
30	FF1-BH1-B	X	0	0	0	%100
31	FF1-BH2-B	X	0	0	0	%100
32	FF1-BH3-B	X	0	0	0	%100
33	MP-5	X	-.006	-.006	0	%100
34	MP-6	X	-.006	-.006	0	%100
35	MP-7	X	-.006	-.006	0	%100
36	MP-8	X	-.006	-.006	0	%100
37	SA2	X	-.006	-.006	0	%100
38	SF1-TH-B	X	-.003	-.003	0	%100
39	SF1-BH-B	X	-.003	-.003	0	%100
40	SF2-TH-B	X	-.002	-.002	0	%100
41	SF2-BH-B	X	-.002	-.002	0	%100
42	FP-5	X	0	0	0	%100
43	FP-6	X	0	0	0	%100
44	FP-7	X	0	0	0	%100
45	FP-8	X	0	0	0	%100
46	V1B	X	-.002	-.002	0	%100
47	V2B	X	-.002	-.002	0	%100
48	D1B	X	-.002	-.002	0	%100
49	V3B	X	-.002	-.002	0	%100
50	V4B	X	-.002	-.002	0	%100
51	D2B	X	-.002	-.002	0	%100
52	MAST-2	X	-.007	-.007	0	%100
53	FF1-TH1-G	X	-.006	-.006	0	%100
54	FF1-TH2-G	X	-.006	-.006	0	%100
55	FF1-TH3-G	X	-.006	-.006	0	%100
56	FF1-BH1-G	X	-.006	-.006	0	%100
57	FF1-BH2-G	X	-.006	-.006	0	%100
58	FF1-BH3-G	X	-.006	-.006	0	%100
59	MP-9	X	-.006	-.006	0	%100
60	MP-10	X	-.006	-.006	0	%100
61	MP-11	X	-.006	-.006	0	%100
62	MP-12	X	-.006	-.006	0	%100
63	SA3	X	-.006	-.006	0	%100
64	SF1-TH-G	X	-.002	-.002	0	%100
65	SF1-BH-G	X	-.002	-.002	0	%100
66	SF2-TH-G	X	-.006	-.006	0	%100
67	SF2-BH-G	X	-.006	-.006	0	%100
68	FP-9	X	-.001	-.001	0	%100
69	FP-10	X	-.001	-.001	0	%100
70	FP-11	X	-.001	-.001	0	%100
71	FP-12	X	-.001	-.001	0	%100
72	V1G	X	-.002	-.002	0	%100
73	V2G	X	-.002	-.002	0	%100
74	D1G	X	-.002	-.002	0	%100
75	V3G	X	-.002	-.002	0	%100
76	V4G	X	-.002	-.002	0	%100
77	D2G	X	-.002	-.002	0	%100
78	MAST-3	X	-.007	-.007	0	%100
79	FF1-TH1-A	Z	-.003	-.003	0	%100
80	FF1-TH2-A	Z	-.003	-.003	0	%100
81	FF1-TH3-A	Z	-.003	-.003	0	%100
82	FF1-BH1-A	Z	-.003	-.003	0	%100
83	FF1-BH2-A	Z	-.003	-.003	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
84	FF1-BH3-A	Z	-.003	-.003	0	%100
85	MP-1	Z	-.004	-.004	0	%100
86	MP-2	Z	-.004	-.004	0	%100
87	MP-3	Z	-.004	-.004	0	%100
88	MP-4	Z	-.004	-.004	0	%100
89	SA1	Z	-.004	-.004	0	%100
90	SF1-TH-A	Z	-.003	-.003	0	%100
91	SF1-BH-A	Z	-.003	-.003	0	%100
92	SF2-TH-A	Z	-.001	-.001	0	%100
93	SF2-BH-A	Z	-.001	-.001	0	%100
94	FP-1	Z	-.000797	-.000797	0	%100
95	FP-2	Z	-.000797	-.000797	0	%100
96	FP-3	Z	-.000797	-.000797	0	%100
97	FP-4	Z	-.000797	-.000797	0	%100
98	V1A	Z	-.001	-.001	0	%100
99	V2A	Z	-.001	-.001	0	%100
100	D1A	Z	-.001	-.001	0	%100
101	V3A	Z	-.001	-.001	0	%100
102	V4A	Z	-.001	-.001	0	%100
103	D2A	Z	-.001	-.001	0	%100
104	MAST-1	Z	-.004	-.004	0	%100
105	FF1-TH1-B	Z	0	0	0	%100
106	FF1-TH2-B	Z	0	0	0	%100
107	FF1-TH3-B	Z	0	0	0	%100
108	FF1-BH1-B	Z	0	0	0	%100
109	FF1-BH2-B	Z	0	0	0	%100
110	FF1-BH3-B	Z	0	0	0	%100
111	MP-5	Z	-.004	-.004	0	%100
112	MP-6	Z	-.004	-.004	0	%100
113	MP-7	Z	-.004	-.004	0	%100
114	MP-8	Z	-.004	-.004	0	%100
115	SA2	Z	-.004	-.004	0	%100
116	SF1-TH-B	Z	-.001	-.001	0	%100
117	SF1-BH-B	Z	-.001	-.001	0	%100
118	SF2-TH-B	Z	-.002	-.002	0	%100
119	SF2-BH-B	Z	-.002	-.002	0	%100
120	FP-5	Z	0	0	0	%100
121	FP-6	Z	0	0	0	%100
122	FP-7	Z	0	0	0	%100
123	FP-8	Z	0	0	0	%100
124	V1B	Z	-.001	-.001	0	%100
125	V2B	Z	-.001	-.001	0	%100
126	D1B	Z	-.001	-.001	0	%100
127	V3B	Z	-.001	-.001	0	%100
128	V4B	Z	-.001	-.001	0	%100
129	D2B	Z	-.001	-.001	0	%100
130	MAST-2	Z	-.004	-.004	0	%100
131	FF1-TH1-G	Z	-.003	-.003	0	%100
132	FF1-TH2-G	Z	-.003	-.003	0	%100
133	FF1-TH3-G	Z	-.003	-.003	0	%100
134	FF1-BH1-G	Z	-.003	-.003	0	%100
135	FF1-BH2-G	Z	-.003	-.003	0	%100
136	FF1-BH3-G	Z	-.003	-.003	0	%100
137	MP-9	Z	-.004	-.004	0	%100
138	MP-10	Z	-.004	-.004	0	%100
139	MP-11	Z	-.004	-.004	0	%100
140	MP-12	Z	-.004	-.004	0	%100
141	SA3	Z	-.004	-.004	0	%100
142	SF1-TH-G	Z	-.001	-.001	0	%100
143	SF1-BH-G	Z	-.001	-.001	0	%100
144	SF2-TH-G	Z	-.003	-.003	0	%100
145	SF2-BH-G	Z	-.003	-.003	0	%100
146	FP-9	Z	-.000776	-.000776	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
147	FP-10	Z	-.000776	-.000776	0	%100
148	FP-11	Z	-.000776	-.000776	0	%100
149	FP-12	Z	-.000776	-.000776	0	%100
150	V1G	Z	-.001	-.001	0	%100
151	V2G	Z	-.001	-.001	0	%100
152	D1G	Z	-.001	-.001	0	%100
153	V3G	Z	-.001	-.001	0	%100
154	V4G	Z	-.001	-.001	0	%100
155	D2G	Z	-.001	-.001	0	%100
156	MAST-3	Z	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.004	-.004	0	%100
2	FF1-TH2-A	X	-.004	-.004	0	%100
3	FF1-TH3-A	X	-.004	-.004	0	%100
4	FF1-BH1-A	X	-.004	-.004	0	%100
5	FF1-BH2-A	X	-.004	-.004	0	%100
6	FF1-BH3-A	X	-.004	-.004	0	%100
7	MP-1	X	-.005	-.005	0	%100
8	MP-2	X	-.005	-.005	0	%100
9	MP-3	X	-.005	-.005	0	%100
10	MP-4	X	-.005	-.005	0	%100
11	SA1	X	-.005	-.005	0	%100
12	SF1-TH-A	X	-.004	-.004	0	%100
13	SF1-BH-A	X	-.004	-.004	0	%100
14	SF2-TH-A	X	-.000763	-.000763	0	%100
15	SF2-BH-A	X	-.000763	-.000763	0	%100
16	FP-1	X	-.00092	-.00092	0	%100
17	FP-2	X	-.00092	-.00092	0	%100
18	FP-3	X	-.00092	-.00092	0	%100
19	FP-4	X	-.00092	-.00092	0	%100
20	V1A	X	-.002	-.002	0	%100
21	V2A	X	-.002	-.002	0	%100
22	D1A	X	-.002	-.002	0	%100
23	V3A	X	-.002	-.002	0	%100
24	V4A	X	-.002	-.002	0	%100
25	D2A	X	-.002	-.002	0	%100
26	MAST-1	X	-.006	-.006	0	%100
27	FF1-TH1-B	X	-.001	-.001	0	%100
28	FF1-TH2-B	X	-.001	-.001	0	%100
29	FF1-TH3-B	X	-.001	-.001	0	%100
30	FF1-BH1-B	X	-.001	-.001	0	%100
31	FF1-BH2-B	X	-.001	-.001	0	%100
32	FF1-BH3-B	X	-.001	-.001	0	%100
33	MP-5	X	-.005	-.005	0	%100
34	MP-6	X	-.005	-.005	0	%100
35	MP-7	X	-.005	-.005	0	%100
36	MP-8	X	-.005	-.005	0	%100
37	SA2	X	-.005	-.005	0	%100
38	SF1-TH-B	X	-.002	-.002	0	%100
39	SF1-BH-B	X	-.002	-.002	0	%100
40	SF2-TH-B	X	-.002	-.002	0	%100
41	SF2-BH-B	X	-.002	-.002	0	%100
42	FP-5	X	-.000298	-.000298	0	%100
43	FP-6	X	-.000298	-.000298	0	%100
44	FP-7	X	-.000298	-.000298	0	%100
45	FP-8	X	-.000298	-.000298	0	%100
46	V1B	X	-.002	-.002	0	%100
47	V2B	X	-.002	-.002	0	%100
48	D1B	X	-.002	-.002	0	%100
49	V3B	X	-.002	-.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
50	V4B	X	-.002	-.002	0	%100
51	D2B	X	-.002	-.002	0	%100
52	MAST-2	X	-.006	-.006	0	%100
53	FF1-TH1-G	X	-.005	-.005	0	%100
54	FF1-TH2-G	X	-.005	-.005	0	%100
55	FF1-TH3-G	X	-.005	-.005	0	%100
56	FF1-BH1-G	X	-.005	-.005	0	%100
57	FF1-BH2-G	X	-.005	-.005	0	%100
58	FF1-BH3-G	X	-.005	-.005	0	%100
59	MP-9	X	-.005	-.005	0	%100
60	MP-10	X	-.005	-.005	0	%100
61	MP-11	X	-.005	-.005	0	%100
62	MP-12	X	-.005	-.005	0	%100
63	SA3	X	-.005	-.005	0	%100
64	SF1-TH-G	X	-.002	-.002	0	%100
65	SF1-BH-G	X	-.002	-.002	0	%100
66	SF2-TH-G	X	-.004	-.004	0	%100
67	SF2-BH-G	X	-.004	-.004	0	%100
68	FP-9	X	-.001	-.001	0	%100
69	FP-10	X	-.001	-.001	0	%100
70	FP-11	X	-.001	-.001	0	%100
71	FP-12	X	-.001	-.001	0	%100
72	V1G	X	-.002	-.002	0	%100
73	V2G	X	-.002	-.002	0	%100
74	D1G	X	-.002	-.002	0	%100
75	V3G	X	-.002	-.002	0	%100
76	V4G	X	-.002	-.002	0	%100
77	D2G	X	-.002	-.002	0	%100
78	MAST-3	X	-.006	-.006	0	%100
79	FF1-TH1-A	Z	-.004	-.004	0	%100
80	FF1-TH2-A	Z	-.004	-.004	0	%100
81	FF1-TH3-A	Z	-.004	-.004	0	%100
82	FF1-BH1-A	Z	-.004	-.004	0	%100
83	FF1-BH2-A	Z	-.004	-.004	0	%100
84	FF1-BH3-A	Z	-.004	-.004	0	%100
85	MP-1	Z	-.005	-.005	0	%100
86	MP-2	Z	-.005	-.005	0	%100
87	MP-3	Z	-.005	-.005	0	%100
88	MP-4	Z	-.005	-.005	0	%100
89	SA1	Z	-.005	-.005	0	%100
90	SF1-TH-A	Z	-.004	-.004	0	%100
91	SF1-BH-A	Z	-.004	-.004	0	%100
92	SF2-TH-A	Z	-.000678	-.000678	0	%100
93	SF2-BH-A	Z	-.000678	-.000678	0	%100
94	FP-1	Z	-.00092	-.00092	0	%100
95	FP-2	Z	-.00092	-.00092	0	%100
96	FP-3	Z	-.00092	-.00092	0	%100
97	FP-4	Z	-.00092	-.00092	0	%100
98	V1A	Z	-.002	-.002	0	%100
99	V2A	Z	-.002	-.002	0	%100
100	D1A	Z	-.002	-.002	0	%100
101	V3A	Z	-.002	-.002	0	%100
102	V4A	Z	-.002	-.002	0	%100
103	D2A	Z	-.002	-.002	0	%100
104	MAST-1	Z	-.006	-.006	0	%100
105	FF1-TH1-B	Z	-.001	-.001	0	%100
106	FF1-TH2-B	Z	-.001	-.001	0	%100
107	FF1-TH3-B	Z	-.001	-.001	0	%100
108	FF1-BH1-B	Z	-.001	-.001	0	%100
109	FF1-BH2-B	Z	-.001	-.001	0	%100
110	FF1-BH3-B	Z	-.001	-.001	0	%100
111	MP-5	Z	-.005	-.005	0	%100
112	MP-6	Z	-.005	-.005	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
113	MP-7	Z	-.005	-.005	0	%100
114	MP-8	Z	-.005	-.005	0	%100
115	SA2	Z	-.005	-.005	0	%100
116	SF1-TH-B	Z	-.001	-.001	0	%100
117	SF1-BH-B	Z	-.001	-.001	0	%100
118	SF2-TH-B	Z	-.004	-.004	0	%100
119	SF2-BH-B	Z	-.004	-.004	0	%100
120	FP-5	Z	-.000328	-.000328	0	%100
121	FP-6	Z	-.000328	-.000328	0	%100
122	FP-7	Z	-.000328	-.000328	0	%100
123	FP-8	Z	-.000328	-.000328	0	%100
124	V1B	Z	-.002	-.002	0	%100
125	V2B	Z	-.002	-.002	0	%100
126	D1B	Z	-.002	-.002	0	%100
127	V3B	Z	-.002	-.002	0	%100
128	V4B	Z	-.002	-.002	0	%100
129	D2B	Z	-.002	-.002	0	%100
130	MAST-2	Z	-.006	-.006	0	%100
131	FF1-TH1-G	Z	-.005	-.005	0	%100
132	FF1-TH2-G	Z	-.005	-.005	0	%100
133	FF1-TH3-G	Z	-.005	-.005	0	%100
134	FF1-BH1-G	Z	-.005	-.005	0	%100
135	FF1-BH2-G	Z	-.005	-.005	0	%100
136	FF1-BH3-G	Z	-.005	-.005	0	%100
137	MP-9	Z	-.005	-.005	0	%100
138	MP-10	Z	-.005	-.005	0	%100
139	MP-11	Z	-.005	-.005	0	%100
140	MP-12	Z	-.005	-.005	0	%100
141	SA3	Z	-.005	-.005	0	%100
142	SF1-TH-G	Z	-.003	-.003	0	%100
143	SF1-BH-G	Z	-.003	-.003	0	%100
144	SF2-TH-G	Z	-.003	-.003	0	%100
145	SF2-BH-G	Z	-.003	-.003	0	%100
146	FP-9	Z	-.001	-.001	0	%100
147	FP-10	Z	-.001	-.001	0	%100
148	FP-11	Z	-.001	-.001	0	%100
149	FP-12	Z	-.001	-.001	0	%100
150	V1G	Z	-.002	-.002	0	%100
151	V2G	Z	-.002	-.002	0	%100
152	D1G	Z	-.002	-.002	0	%100
153	V3G	Z	-.002	-.002	0	%100
154	V4G	Z	-.002	-.002	0	%100
155	D2G	Z	-.002	-.002	0	%100
156	MAST-3	Z	-.006	-.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.002	-.002	0	%100
2	FF1-TH2-A	X	-.002	-.002	0	%100
3	FF1-TH3-A	X	-.002	-.002	0	%100
4	FF1-BH1-A	X	-.002	-.002	0	%100
5	FF1-BH2-A	X	-.002	-.002	0	%100
6	FF1-BH3-A	X	-.002	-.002	0	%100
7	MP-1	X	-.004	-.004	0	%100
8	MP-2	X	-.004	-.004	0	%100
9	MP-3	X	-.004	-.004	0	%100
10	MP-4	X	-.004	-.004	0	%100
11	SA1	X	-.004	-.004	0	%100
12	SF1-TH-A	X	-.003	-.003	0	%100
13	SF1-BH-A	X	-.003	-.003	0	%100
14	SF2-TH-A	X	-.000288	-.000288	0	%100
15	SF2-BH-A	X	-.000288	-.000288	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	FP-1	X	-.00046	-.00046	0	%100
17	FP-2	X	-.00046	-.00046	0	%100
18	FP-3	X	-.00046	-.00046	0	%100
19	FP-4	X	-.00046	-.00046	0	%100
20	V1A	X	-.001	-.001	0	%100
21	V2A	X	-.001	-.001	0	%100
22	D1A	X	-.001	-.001	0	%100
23	V3A	X	-.001	-.001	0	%100
24	V4A	X	-.001	-.001	0	%100
25	D2A	X	-.001	-.001	0	%100
26	MAST-1	X	-.004	-.004	0	%100
27	FF1-TH1-B	X	-.002	-.002	0	%100
28	FF1-TH2-B	X	-.002	-.002	0	%100
29	FF1-TH3-B	X	-.002	-.002	0	%100
30	FF1-BH1-B	X	-.002	-.002	0	%100
31	FF1-BH2-B	X	-.002	-.002	0	%100
32	FF1-BH3-B	X	-.002	-.002	0	%100
33	MP-5	X	-.004	-.004	0	%100
34	MP-6	X	-.004	-.004	0	%100
35	MP-7	X	-.004	-.004	0	%100
36	MP-8	X	-.004	-.004	0	%100
37	SA2	X	-.004	-.004	0	%100
38	SF1-TH-B	X	-.0003	-.0003	0	%100
39	SF1-BH-B	X	-.0003	-.0003	0	%100
40	SF2-TH-B	X	-.002	-.002	0	%100
41	SF2-BH-B	X	-.002	-.002	0	%100
42	FP-5	X	-.000407	-.000407	0	%100
43	FP-6	X	-.000407	-.000407	0	%100
44	FP-7	X	-.000407	-.000407	0	%100
45	FP-8	X	-.000407	-.000407	0	%100
46	V1B	X	-.001	-.001	0	%100
47	V2B	X	-.001	-.001	0	%100
48	D1B	X	-.001	-.001	0	%100
49	V3B	X	-.001	-.001	0	%100
50	V4B	X	-.001	-.001	0	%100
51	D2B	X	-.001	-.001	0	%100
52	MAST-2	X	-.004	-.004	0	%100
53	FF1-TH1-G	X	-.004	-.004	0	%100
54	FF1-TH2-G	X	-.004	-.004	0	%100
55	FF1-TH3-G	X	-.004	-.004	0	%100
56	FF1-BH1-G	X	-.004	-.004	0	%100
57	FF1-BH2-G	X	-.004	-.004	0	%100
58	FF1-BH3-G	X	-.004	-.004	0	%100
59	MP-9	X	-.004	-.004	0	%100
60	MP-10	X	-.004	-.004	0	%100
61	MP-11	X	-.004	-.004	0	%100
62	MP-12	X	-.004	-.004	0	%100
63	SA3	X	-.004	-.004	0	%100
64	SF1-TH-G	X	-.002	-.002	0	%100
65	SF1-BH-G	X	-.002	-.002	0	%100
66	SF2-TH-G	X	-.003	-.003	0	%100
67	SF2-BH-G	X	-.003	-.003	0	%100
68	FP-9	X	-.000814	-.000814	0	%100
69	FP-10	X	-.000814	-.000814	0	%100
70	FP-11	X	-.000814	-.000814	0	%100
71	FP-12	X	-.000814	-.000814	0	%100
72	V1G	X	-.001	-.001	0	%100
73	V2G	X	-.001	-.001	0	%100
74	D1G	X	-.001	-.001	0	%100
75	V3G	X	-.001	-.001	0	%100
76	V4G	X	-.001	-.001	0	%100
77	D2G	X	-.001	-.001	0	%100
78	MAST-3	X	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	FF1-TH1-A	Z	-.003	-.003	0	%100
80	FF1-TH2-A	Z	-.003	-.003	0	%100
81	FF1-TH3-A	Z	-.003	-.003	0	%100
82	FF1-BH1-A	Z	-.003	-.003	0	%100
83	FF1-BH2-A	Z	-.003	-.003	0	%100
84	FF1-BH3-A	Z	-.003	-.003	0	%100
85	MP-1	Z	-.006	-.006	0	%100
86	MP-2	Z	-.006	-.006	0	%100
87	MP-3	Z	-.006	-.006	0	%100
88	MP-4	Z	-.006	-.006	0	%100
89	SA1	Z	-.006	-.006	0	%100
90	SF1-TH-A	Z	-.004	-.004	0	%100
91	SF1-BH-A	Z	-.004	-.004	0	%100
92	SF2-TH-A	Z	-.000444	-.000444	0	%100
93	SF2-BH-A	Z	-.000444	-.000444	0	%100
94	FP-1	Z	-.000797	-.000797	0	%100
95	FP-2	Z	-.000797	-.000797	0	%100
96	FP-3	Z	-.000797	-.000797	0	%100
97	FP-4	Z	-.000797	-.000797	0	%100
98	V1A	Z	-.002	-.002	0	%100
99	V2A	Z	-.002	-.002	0	%100
100	D1A	Z	-.002	-.002	0	%100
101	V3A	Z	-.002	-.002	0	%100
102	V4A	Z	-.002	-.002	0	%100
103	D2A	Z	-.002	-.002	0	%100
104	MAST-1	Z	-.007	-.007	0	%100
105	FF1-TH1-B	Z	-.003	-.003	0	%100
106	FF1-TH2-B	Z	-.003	-.003	0	%100
107	FF1-TH3-B	Z	-.003	-.003	0	%100
108	FF1-BH1-B	Z	-.003	-.003	0	%100
109	FF1-BH2-B	Z	-.003	-.003	0	%100
110	FF1-BH3-B	Z	-.003	-.003	0	%100
111	MP-5	Z	-.006	-.006	0	%100
112	MP-6	Z	-.006	-.006	0	%100
113	MP-7	Z	-.006	-.006	0	%100
114	MP-8	Z	-.006	-.006	0	%100
115	SA2	Z	-.006	-.006	0	%100
116	SF1-TH-B	Z	-.000408	-.000408	0	%100
117	SF1-BH-B	Z	-.000408	-.000408	0	%100
118	SF2-TH-B	Z	-.005	-.005	0	%100
119	SF2-BH-B	Z	-.005	-.005	0	%100
120	FP-5	Z	-.000776	-.000776	0	%100
121	FP-6	Z	-.000776	-.000776	0	%100
122	FP-7	Z	-.000776	-.000776	0	%100
123	FP-8	Z	-.000776	-.000776	0	%100
124	V1B	Z	-.002	-.002	0	%100
125	V2B	Z	-.002	-.002	0	%100
126	D1B	Z	-.002	-.002	0	%100
127	V3B	Z	-.002	-.002	0	%100
128	V4B	Z	-.002	-.002	0	%100
129	D2B	Z	-.002	-.002	0	%100
130	MAST-2	Z	-.007	-.007	0	%100
131	FF1-TH1-G	Z	-.006	-.006	0	%100
132	FF1-TH2-G	Z	-.006	-.006	0	%100
133	FF1-TH3-G	Z	-.006	-.006	0	%100
134	FF1-BH1-G	Z	-.006	-.006	0	%100
135	FF1-BH2-G	Z	-.006	-.006	0	%100
136	FF1-BH3-G	Z	-.006	-.006	0	%100
137	MP-9	Z	-.006	-.006	0	%100
138	MP-10	Z	-.006	-.006	0	%100
139	MP-11	Z	-.006	-.006	0	%100
140	MP-12	Z	-.006	-.006	0	%100
141	SA3	Z	-.006	-.006	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
142	SF1-TH-G	Z	-.005	-.005	0	%100
143	SF1-BH-G	Z	-.005	-.005	0	%100
144	SF2-TH-G	Z	-.004	-.004	0	%100
145	SF2-BH-G	Z	-.004	-.004	0	%100
146	FP-9	Z	-.002	-.002	0	%100
147	FP-10	Z	-.002	-.002	0	%100
148	FP-11	Z	-.002	-.002	0	%100
149	FP-12	Z	-.002	-.002	0	%100
150	V1G	Z	-.002	-.002	0	%100
151	V2G	Z	-.002	-.002	0	%100
152	D1G	Z	-.002	-.002	0	%100
153	V3G	Z	-.002	-.002	0	%100
154	V4G	Z	-.002	-.002	0	%100
155	D2G	Z	-.002	-.002	0	%100
156	MAST-3	Z	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	Z	0	0	0	%100
2	FF1-TH2-A	Z	0	0	0	%100
3	FF1-TH3-A	Z	0	0	0	%100
4	FF1-BH1-A	Z	0	0	0	%100
5	FF1-BH2-A	Z	0	0	0	%100
6	FF1-BH3-A	Z	0	0	0	%100
7	MP-1	Z	-.007	-.007	0	%100
8	MP-2	Z	-.007	-.007	0	%100
9	MP-3	Z	-.007	-.007	0	%100
10	MP-4	Z	-.007	-.007	0	%100
11	SA1	Z	-.007	-.007	0	%100
12	SF1-TH-A	Z	-.003	-.003	0	%100
13	SF1-BH-A	Z	-.003	-.003	0	%100
14	SF2-TH-A	Z	-.003	-.003	0	%100
15	SF2-BH-A	Z	-.003	-.003	0	%100
16	FP-1	Z	0	0	0	%100
17	FP-2	Z	0	0	0	%100
18	FP-3	Z	0	0	0	%100
19	FP-4	Z	0	0	0	%100
20	V1A	Z	-.002	-.002	0	%100
21	V2A	Z	-.002	-.002	0	%100
22	D1A	Z	-.002	-.002	0	%100
23	V3A	Z	-.002	-.002	0	%100
24	V4A	Z	-.002	-.002	0	%100
25	D2A	Z	-.002	-.002	0	%100
26	MAST-1	Z	-.009	-.009	0	%100
27	FF1-TH1-B	Z	-.006	-.006	0	%100
28	FF1-TH2-B	Z	-.006	-.006	0	%100
29	FF1-TH3-B	Z	-.006	-.006	0	%100
30	FF1-BH1-B	Z	-.006	-.006	0	%100
31	FF1-BH2-B	Z	-.006	-.006	0	%100
32	FF1-BH3-B	Z	-.006	-.006	0	%100
33	MP-5	Z	-.007	-.007	0	%100
34	MP-6	Z	-.007	-.007	0	%100
35	MP-7	Z	-.007	-.007	0	%100
36	MP-8	Z	-.007	-.007	0	%100
37	SA2	Z	-.007	-.007	0	%100
38	SF1-TH-B	Z	-.002	-.002	0	%100
39	SF1-BH-B	Z	-.002	-.002	0	%100
40	SF2-TH-B	Z	-.007	-.007	0	%100
41	SF2-BH-B	Z	-.007	-.007	0	%100
42	FP-5	Z	-.002	-.002	0	%100
43	FP-6	Z	-.002	-.002	0	%100
44	FP-7	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	FP-8	Z	-.002	-.002	0	%100
46	V1B	Z	-.002	-.002	0	%100
47	V2B	Z	-.002	-.002	0	%100
48	D1B	Z	-.002	-.002	0	%100
49	V3B	Z	-.002	-.002	0	%100
50	V4B	Z	-.002	-.002	0	%100
51	D2B	Z	-.002	-.002	0	%100
52	MAST-2	Z	-.009	-.009	0	%100
53	FF1-TH1-G	Z	-.006	-.006	0	%100
54	FF1-TH2-G	Z	-.006	-.006	0	%100
55	FF1-TH3-G	Z	-.006	-.006	0	%100
56	FF1-BH1-G	Z	-.006	-.006	0	%100
57	FF1-BH2-G	Z	-.006	-.006	0	%100
58	FF1-BH3-G	Z	-.006	-.006	0	%100
59	MP-9	Z	-.007	-.007	0	%100
60	MP-10	Z	-.007	-.007	0	%100
61	MP-11	Z	-.007	-.007	0	%100
62	MP-12	Z	-.007	-.007	0	%100
63	SA3	Z	-.007	-.007	0	%100
64	SF1-TH-G	Z	-.007	-.007	0	%100
65	SF1-BH-G	Z	-.007	-.007	0	%100
66	SF2-TH-G	Z	-.002	-.002	0	%100
67	SF2-BH-G	Z	-.002	-.002	0	%100
68	FP-9	Z	-.002	-.002	0	%100
69	FP-10	Z	-.002	-.002	0	%100
70	FP-11	Z	-.002	-.002	0	%100
71	FP-12	Z	-.002	-.002	0	%100
72	V1G	Z	-.002	-.002	0	%100
73	V2G	Z	-.002	-.002	0	%100
74	D1G	Z	-.002	-.002	0	%100
75	V3G	Z	-.002	-.002	0	%100
76	V4G	Z	-.002	-.002	0	%100
77	D2G	Z	-.002	-.002	0	%100
78	MAST-3	Z	-.009	-.009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.002	.002	0	%100
2	FF1-TH2-A	X	.002	.002	0	%100
3	FF1-TH3-A	X	.002	.002	0	%100
4	FF1-BH1-A	X	.002	.002	0	%100
5	FF1-BH2-A	X	.002	.002	0	%100
6	FF1-BH3-A	X	.002	.002	0	%100
7	MP-1	X	.004	.004	0	%100
8	MP-2	X	.004	.004	0	%100
9	MP-3	X	.004	.004	0	%100
10	MP-4	X	.004	.004	0	%100
11	SA1	X	.004	.004	0	%100
12	SF1-TH-A	X	.000288	.000288	0	%100
13	SF1-BH-A	X	.000288	.000288	0	%100
14	SF2-TH-A	X	.003	.003	0	%100
15	SF2-BH-A	X	.003	.003	0	%100
16	FP-1	X	.00046	.00046	0	%100
17	FP-2	X	.00046	.00046	0	%100
18	FP-3	X	.00046	.00046	0	%100
19	FP-4	X	.00046	.00046	0	%100
20	V1A	X	.001	.001	0	%100
21	V2A	X	.001	.001	0	%100
22	D1A	X	.001	.001	0	%100
23	V3A	X	.001	.001	0	%100
24	V4A	X	.001	.001	0	%100
25	D2A	X	.001	.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	MAST-1	X	.004	.004	0	%100
27	FF1-TH1-B	X	.004	.004	0	%100
28	FF1-TH2-B	X	.004	.004	0	%100
29	FF1-TH3-B	X	.004	.004	0	%100
30	FF1-BH1-B	X	.004	.004	0	%100
31	FF1-BH2-B	X	.004	.004	0	%100
32	FF1-BH3-B	X	.004	.004	0	%100
33	MP-5	X	.004	.004	0	%100
34	MP-6	X	.004	.004	0	%100
35	MP-7	X	.004	.004	0	%100
36	MP-8	X	.004	.004	0	%100
37	SA2	X	.004	.004	0	%100
38	SF1-TH-B	X	.003	.003	0	%100
39	SF1-BH-B	X	.003	.003	0	%100
40	SF2-TH-B	X	.002	.002	0	%100
41	SF2-BH-B	X	.002	.002	0	%100
42	FP-5	X	.000814	.000814	0	%100
43	FP-6	X	.000814	.000814	0	%100
44	FP-7	X	.000814	.000814	0	%100
45	FP-8	X	.000814	.000814	0	%100
46	V1B	X	.001	.001	0	%100
47	V2B	X	.001	.001	0	%100
48	D1B	X	.001	.001	0	%100
49	V3B	X	.001	.001	0	%100
50	V4B	X	.001	.001	0	%100
51	D2B	X	.001	.001	0	%100
52	MAST-2	X	.004	.004	0	%100
53	FF1-TH1-G	X	.002	.002	0	%100
54	FF1-TH2-G	X	.002	.002	0	%100
55	FF1-TH3-G	X	.002	.002	0	%100
56	FF1-BH1-G	X	.002	.002	0	%100
57	FF1-BH2-G	X	.002	.002	0	%100
58	FF1-BH3-G	X	.002	.002	0	%100
59	MP-9	X	.004	.004	0	%100
60	MP-10	X	.004	.004	0	%100
61	MP-11	X	.004	.004	0	%100
62	MP-12	X	.004	.004	0	%100
63	SA3	X	.004	.004	0	%100
64	SF1-TH-G	X	.002	.002	0	%100
65	SF1-BH-G	X	.002	.002	0	%100
66	SF2-TH-G	X	.0003	.0003	0	%100
67	SF2-BH-G	X	.0003	.0003	0	%100
68	FP-9	X	.000407	.000407	0	%100
69	FP-10	X	.000407	.000407	0	%100
70	FP-11	X	.000407	.000407	0	%100
71	FP-12	X	.000407	.000407	0	%100
72	V1G	X	.001	.001	0	%100
73	V2G	X	.001	.001	0	%100
74	D1G	X	.001	.001	0	%100
75	V3G	X	.001	.001	0	%100
76	V4G	X	.001	.001	0	%100
77	D2G	X	.001	.001	0	%100
78	MAST-3	X	.004	.004	0	%100
79	FF1-TH1-A	Z	-.003	-.003	0	%100
80	FF1-TH2-A	Z	-.003	-.003	0	%100
81	FF1-TH3-A	Z	-.003	-.003	0	%100
82	FF1-BH1-A	Z	-.003	-.003	0	%100
83	FF1-BH2-A	Z	-.003	-.003	0	%100
84	FF1-BH3-A	Z	-.003	-.003	0	%100
85	MP-1	Z	-.006	-.006	0	%100
86	MP-2	Z	-.006	-.006	0	%100
87	MP-3	Z	-.006	-.006	0	%100
88	MP-4	Z	-.006	-.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
89	SA1	Z	-.006	-.006	0	%100
90	SF1-TH-A	Z	-.000444	-.000444	0	%100
91	SF1-BH-A	Z	-.000444	-.000444	0	%100
92	SF2-TH-A	Z	-.004	-.004	0	%100
93	SF2-BH-A	Z	-.004	-.004	0	%100
94	FP-1	Z	-.000797	-.000797	0	%100
95	FP-2	Z	-.000797	-.000797	0	%100
96	FP-3	Z	-.000797	-.000797	0	%100
97	FP-4	Z	-.000797	-.000797	0	%100
98	V1A	Z	-.002	-.002	0	%100
99	V2A	Z	-.002	-.002	0	%100
100	D1A	Z	-.002	-.002	0	%100
101	V3A	Z	-.002	-.002	0	%100
102	V4A	Z	-.002	-.002	0	%100
103	D2A	Z	-.002	-.002	0	%100
104	MAST-1	Z	-.007	-.007	0	%100
105	FF1-TH1-B	Z	-.006	-.006	0	%100
106	FF1-TH2-B	Z	-.006	-.006	0	%100
107	FF1-TH3-B	Z	-.006	-.006	0	%100
108	FF1-BH1-B	Z	-.006	-.006	0	%100
109	FF1-BH2-B	Z	-.006	-.006	0	%100
110	FF1-BH3-B	Z	-.006	-.006	0	%100
111	MP-5	Z	-.006	-.006	0	%100
112	MP-6	Z	-.006	-.006	0	%100
113	MP-7	Z	-.006	-.006	0	%100
114	MP-8	Z	-.006	-.006	0	%100
115	SA2	Z	-.006	-.006	0	%100
116	SF1-TH-B	Z	-.004	-.004	0	%100
117	SF1-BH-B	Z	-.004	-.004	0	%100
118	SF2-TH-B	Z	-.005	-.005	0	%100
119	SF2-BH-B	Z	-.005	-.005	0	%100
120	FP-5	Z	-.002	-.002	0	%100
121	FP-6	Z	-.002	-.002	0	%100
122	FP-7	Z	-.002	-.002	0	%100
123	FP-8	Z	-.002	-.002	0	%100
124	V1B	Z	-.002	-.002	0	%100
125	V2B	Z	-.002	-.002	0	%100
126	D1B	Z	-.002	-.002	0	%100
127	V3B	Z	-.002	-.002	0	%100
128	V4B	Z	-.002	-.002	0	%100
129	D2B	Z	-.002	-.002	0	%100
130	MAST-2	Z	-.007	-.007	0	%100
131	FF1-TH1-G	Z	-.003	-.003	0	%100
132	FF1-TH2-G	Z	-.003	-.003	0	%100
133	FF1-TH3-G	Z	-.003	-.003	0	%100
134	FF1-BH1-G	Z	-.003	-.003	0	%100
135	FF1-BH2-G	Z	-.003	-.003	0	%100
136	FF1-BH3-G	Z	-.003	-.003	0	%100
137	MP-9	Z	-.006	-.006	0	%100
138	MP-10	Z	-.006	-.006	0	%100
139	MP-11	Z	-.006	-.006	0	%100
140	MP-12	Z	-.006	-.006	0	%100
141	SA3	Z	-.006	-.006	0	%100
142	SF1-TH-G	Z	-.005	-.005	0	%100
143	SF1-BH-G	Z	-.005	-.005	0	%100
144	SF2-TH-G	Z	-.000408	-.000408	0	%100
145	SF2-BH-G	Z	-.000408	-.000408	0	%100
146	FP-9	Z	-.000776	-.000776	0	%100
147	FP-10	Z	-.000776	-.000776	0	%100
148	FP-11	Z	-.000776	-.000776	0	%100
149	FP-12	Z	-.000776	-.000776	0	%100
150	V1G	Z	-.002	-.002	0	%100
151	V2G	Z	-.002	-.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
152	D1G	Z	-.002	-.002	0	%100
153	V3G	Z	-.002	-.002	0	%100
154	V4G	Z	-.002	-.002	0	%100
155	D2G	Z	-.002	-.002	0	%100
156	MAST-3	Z	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.004	.004	0	%100
2	FF1-TH2-A	X	.004	.004	0	%100
3	FF1-TH3-A	X	.004	.004	0	%100
4	FF1-BH1-A	X	.004	.004	0	%100
5	FF1-BH2-A	X	.004	.004	0	%100
6	FF1-BH3-A	X	.004	.004	0	%100
7	MP-1	X	.005	.005	0	%100
8	MP-2	X	.005	.005	0	%100
9	MP-3	X	.005	.005	0	%100
10	MP-4	X	.005	.005	0	%100
11	SA1	X	.005	.005	0	%100
12	SF1-TH-A	X	.000763	.000763	0	%100
13	SF1-BH-A	X	.000763	.000763	0	%100
14	SF2-TH-A	X	.004	.004	0	%100
15	SF2-BH-A	X	.004	.004	0	%100
16	FP-1	X	.00092	.00092	0	%100
17	FP-2	X	.00092	.00092	0	%100
18	FP-3	X	.00092	.00092	0	%100
19	FP-4	X	.00092	.00092	0	%100
20	V1A	X	.002	.002	0	%100
21	V2A	X	.002	.002	0	%100
22	D1A	X	.002	.002	0	%100
23	V3A	X	.002	.002	0	%100
24	V4A	X	.002	.002	0	%100
25	D2A	X	.002	.002	0	%100
26	MAST-1	X	.006	.006	0	%100
27	FF1-TH1-B	X	.005	.005	0	%100
28	FF1-TH2-B	X	.005	.005	0	%100
29	FF1-TH3-B	X	.005	.005	0	%100
30	FF1-BH1-B	X	.005	.005	0	%100
31	FF1-BH2-B	X	.005	.005	0	%100
32	FF1-BH3-B	X	.005	.005	0	%100
33	MP-5	X	.005	.005	0	%100
34	MP-6	X	.005	.005	0	%100
35	MP-7	X	.005	.005	0	%100
36	MP-8	X	.005	.005	0	%100
37	SA2	X	.005	.005	0	%100
38	SF1-TH-B	X	.004	.004	0	%100
39	SF1-BH-B	X	.004	.004	0	%100
40	SF2-TH-B	X	.002	.002	0	%100
41	SF2-BH-B	X	.002	.002	0	%100
42	FP-5	X	.001	.001	0	%100
43	FP-6	X	.001	.001	0	%100
44	FP-7	X	.001	.001	0	%100
45	FP-8	X	.001	.001	0	%100
46	V1B	X	.002	.002	0	%100
47	V2B	X	.002	.002	0	%100
48	D1B	X	.002	.002	0	%100
49	V3B	X	.002	.002	0	%100
50	V4B	X	.002	.002	0	%100
51	D2B	X	.002	.002	0	%100
52	MAST-2	X	.006	.006	0	%100
53	FF1-TH1-G	X	.001	.001	0	%100
54	FF1-TH2-G	X	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
55	FF1-TH3-G	X	.001	.001	0	%100
56	FF1-BH1-G	X	.001	.001	0	%100
57	FF1-BH2-G	X	.001	.001	0	%100
58	FF1-BH3-G	X	.001	.001	0	%100
59	MP-9	X	.005	.005	0	%100
60	MP-10	X	.005	.005	0	%100
61	MP-11	X	.005	.005	0	%100
62	MP-12	X	.005	.005	0	%100
63	SA3	X	.005	.005	0	%100
64	SF1-TH-G	X	.002	.002	0	%100
65	SF1-BH-G	X	.002	.002	0	%100
66	SF2-TH-G	X	.002	.002	0	%100
67	SF2-BH-G	X	.002	.002	0	%100
68	FP-9	X	.000298	.000298	0	%100
69	FP-10	X	.000298	.000298	0	%100
70	FP-11	X	.000298	.000298	0	%100
71	FP-12	X	.000298	.000298	0	%100
72	V1G	X	.002	.002	0	%100
73	V2G	X	.002	.002	0	%100
74	D1G	X	.002	.002	0	%100
75	V3G	X	.002	.002	0	%100
76	V4G	X	.002	.002	0	%100
77	D2G	X	.002	.002	0	%100
78	MAST-3	X	.006	.006	0	%100
79	FF1-TH1-A	Z	-.004	-.004	0	%100
80	FF1-TH2-A	Z	-.004	-.004	0	%100
81	FF1-TH3-A	Z	-.004	-.004	0	%100
82	FF1-BH1-A	Z	-.004	-.004	0	%100
83	FF1-BH2-A	Z	-.004	-.004	0	%100
84	FF1-BH3-A	Z	-.004	-.004	0	%100
85	MP-1	Z	-.005	-.005	0	%100
86	MP-2	Z	-.005	-.005	0	%100
87	MP-3	Z	-.005	-.005	0	%100
88	MP-4	Z	-.005	-.005	0	%100
89	SA1	Z	-.005	-.005	0	%100
90	SF1-TH-A	Z	-.000678	-.000678	0	%100
91	SF1-BH-A	Z	-.000678	-.000678	0	%100
92	SF2-TH-A	Z	-.004	-.004	0	%100
93	SF2-BH-A	Z	-.004	-.004	0	%100
94	FP-1	Z	-.00092	-.00092	0	%100
95	FP-2	Z	-.00092	-.00092	0	%100
96	FP-3	Z	-.00092	-.00092	0	%100
97	FP-4	Z	-.00092	-.00092	0	%100
98	V1A	Z	-.002	-.002	0	%100
99	V2A	Z	-.002	-.002	0	%100
100	D1A	Z	-.002	-.002	0	%100
101	V3A	Z	-.002	-.002	0	%100
102	V4A	Z	-.002	-.002	0	%100
103	D2A	Z	-.002	-.002	0	%100
104	MAST-1	Z	-.006	-.006	0	%100
105	FF1-TH1-B	Z	-.005	-.005	0	%100
106	FF1-TH2-B	Z	-.005	-.005	0	%100
107	FF1-TH3-B	Z	-.005	-.005	0	%100
108	FF1-BH1-B	Z	-.005	-.005	0	%100
109	FF1-BH2-B	Z	-.005	-.005	0	%100
110	FF1-BH3-B	Z	-.005	-.005	0	%100
111	MP-5	Z	-.005	-.005	0	%100
112	MP-6	Z	-.005	-.005	0	%100
113	MP-7	Z	-.005	-.005	0	%100
114	MP-8	Z	-.005	-.005	0	%100
115	SA2	Z	-.005	-.005	0	%100
116	SF1-TH-B	Z	-.003	-.003	0	%100
117	SF1-BH-B	Z	-.003	-.003	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
118	SF2-TH-B	Z	-.003	-.003	0	%100
119	SF2-BH-B	Z	-.003	-.003	0	%100
120	FP-5	Z	-.001	-.001	0	%100
121	FP-6	Z	-.001	-.001	0	%100
122	FP-7	Z	-.001	-.001	0	%100
123	FP-8	Z	-.001	-.001	0	%100
124	V1B	Z	-.002	-.002	0	%100
125	V2B	Z	-.002	-.002	0	%100
126	D1B	Z	-.002	-.002	0	%100
127	V3B	Z	-.002	-.002	0	%100
128	V4B	Z	-.002	-.002	0	%100
129	D2B	Z	-.002	-.002	0	%100
130	MAST-2	Z	-.006	-.006	0	%100
131	FF1-TH1-G	Z	-.001	-.001	0	%100
132	FF1-TH2-G	Z	-.001	-.001	0	%100
133	FF1-TH3-G	Z	-.001	-.001	0	%100
134	FF1-BH1-G	Z	-.001	-.001	0	%100
135	FF1-BH2-G	Z	-.001	-.001	0	%100
136	FF1-BH3-G	Z	-.001	-.001	0	%100
137	MP-9	Z	-.005	-.005	0	%100
138	MP-10	Z	-.005	-.005	0	%100
139	MP-11	Z	-.005	-.005	0	%100
140	MP-12	Z	-.005	-.005	0	%100
141	SA3	Z	-.005	-.005	0	%100
142	SF1-TH-G	Z	-.004	-.004	0	%100
143	SF1-BH-G	Z	-.004	-.004	0	%100
144	SF2-TH-G	Z	-.001	-.001	0	%100
145	SF2-BH-G	Z	-.001	-.001	0	%100
146	FP-9	Z	-.000328	-.000328	0	%100
147	FP-10	Z	-.000328	-.000328	0	%100
148	FP-11	Z	-.000328	-.000328	0	%100
149	FP-12	Z	-.000328	-.000328	0	%100
150	V1G	Z	-.002	-.002	0	%100
151	V2G	Z	-.002	-.002	0	%100
152	D1G	Z	-.002	-.002	0	%100
153	V3G	Z	-.002	-.002	0	%100
154	V4G	Z	-.002	-.002	0	%100
155	D2G	Z	-.002	-.002	0	%100
156	MAST-3	Z	-.006	-.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.006	.006	0	%100
2	FF1-TH2-A	X	.006	.006	0	%100
3	FF1-TH3-A	X	.006	.006	0	%100
4	FF1-BH1-A	X	.006	.006	0	%100
5	FF1-BH2-A	X	.006	.006	0	%100
6	FF1-BH3-A	X	.006	.006	0	%100
7	MP-1	X	.006	.006	0	%100
8	MP-2	X	.006	.006	0	%100
9	MP-3	X	.006	.006	0	%100
10	MP-4	X	.006	.006	0	%100
11	SA1	X	.006	.006	0	%100
12	SF1-TH-A	X	.002	.002	0	%100
13	SF1-BH-A	X	.002	.002	0	%100
14	SF2-TH-A	X	.005	.005	0	%100
15	SF2-BH-A	X	.005	.005	0	%100
16	FP-1	X	.001	.001	0	%100
17	FP-2	X	.001	.001	0	%100
18	FP-3	X	.001	.001	0	%100
19	FP-4	X	.001	.001	0	%100
20	V1A	X	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	V2A	X	.002	.002	0	%100
22	D1A	X	.002	.002	0	%100
23	V3A	X	.002	.002	0	%100
24	V4A	X	.002	.002	0	%100
25	D2A	X	.002	.002	0	%100
26	MAST-1	X	.007	.007	0	%100
27	FF1-TH1-B	X	.006	.006	0	%100
28	FF1-TH2-B	X	.006	.006	0	%100
29	FF1-TH3-B	X	.006	.006	0	%100
30	FF1-BH1-B	X	.006	.006	0	%100
31	FF1-BH2-B	X	.006	.006	0	%100
32	FF1-BH3-B	X	.006	.006	0	%100
33	MP-5	X	.006	.006	0	%100
34	MP-6	X	.006	.006	0	%100
35	MP-7	X	.006	.006	0	%100
36	MP-8	X	.006	.006	0	%100
37	SA2	X	.006	.006	0	%100
38	SF1-TH-B	X	.006	.006	0	%100
39	SF1-BH-B	X	.006	.006	0	%100
40	SF2-TH-B	X	.002	.002	0	%100
41	SF2-BH-B	X	.002	.002	0	%100
42	FP-5	X	.001	.001	0	%100
43	FP-6	X	.001	.001	0	%100
44	FP-7	X	.001	.001	0	%100
45	FP-8	X	.001	.001	0	%100
46	V1B	X	.002	.002	0	%100
47	V2B	X	.002	.002	0	%100
48	D1B	X	.002	.002	0	%100
49	V3B	X	.002	.002	0	%100
50	V4B	X	.002	.002	0	%100
51	D2B	X	.002	.002	0	%100
52	MAST-2	X	.007	.007	0	%100
53	FF1-TH1-G	X	0	0	0	%100
54	FF1-TH2-G	X	0	0	0	%100
55	FF1-TH3-G	X	0	0	0	%100
56	FF1-BH1-G	X	0	0	0	%100
57	FF1-BH2-G	X	0	0	0	%100
58	FF1-BH3-G	X	0	0	0	%100
59	MP-9	X	.006	.006	0	%100
60	MP-10	X	.006	.006	0	%100
61	MP-11	X	.006	.006	0	%100
62	MP-12	X	.006	.006	0	%100
63	SA3	X	.006	.006	0	%100
64	SF1-TH-G	X	.002	.002	0	%100
65	SF1-BH-G	X	.002	.002	0	%100
66	SF2-TH-G	X	.003	.003	0	%100
67	SF2-BH-G	X	.003	.003	0	%100
68	FP-9	X	0	0	0	%100
69	FP-10	X	0	0	0	%100
70	FP-11	X	0	0	0	%100
71	FP-12	X	0	0	0	%100
72	V1G	X	.002	.002	0	%100
73	V2G	X	.002	.002	0	%100
74	D1G	X	.002	.002	0	%100
75	V3G	X	.002	.002	0	%100
76	V4G	X	.002	.002	0	%100
77	D2G	X	.002	.002	0	%100
78	MAST-3	X	.007	.007	0	%100
79	FF1-TH1-A	Z	-.003	-.003	0	%100
80	FF1-TH2-A	Z	-.003	-.003	0	%100
81	FF1-TH3-A	Z	-.003	-.003	0	%100
82	FF1-BH1-A	Z	-.003	-.003	0	%100
83	FF1-BH2-A	Z	-.003	-.003	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
84	FF1-BH3-A	Z	-.003	-.003	0	%100
85	MP-1	Z	-.004	-.004	0	%100
86	MP-2	Z	-.004	-.004	0	%100
87	MP-3	Z	-.004	-.004	0	%100
88	MP-4	Z	-.004	-.004	0	%100
89	SA1	Z	-.004	-.004	0	%100
90	SF1-TH-A	Z	-.001	-.001	0	%100
91	SF1-BH-A	Z	-.001	-.001	0	%100
92	SF2-TH-A	Z	-.003	-.003	0	%100
93	SF2-BH-A	Z	-.003	-.003	0	%100
94	FP-1	Z	-.000797	-.000797	0	%100
95	FP-2	Z	-.000797	-.000797	0	%100
96	FP-3	Z	-.000797	-.000797	0	%100
97	FP-4	Z	-.000797	-.000797	0	%100
98	V1A	Z	-.001	-.001	0	%100
99	V2A	Z	-.001	-.001	0	%100
100	D1A	Z	-.001	-.001	0	%100
101	V3A	Z	-.001	-.001	0	%100
102	V4A	Z	-.001	-.001	0	%100
103	D2A	Z	-.001	-.001	0	%100
104	MAST-1	Z	-.004	-.004	0	%100
105	FF1-TH1-B	Z	-.003	-.003	0	%100
106	FF1-TH2-B	Z	-.003	-.003	0	%100
107	FF1-TH3-B	Z	-.003	-.003	0	%100
108	FF1-BH1-B	Z	-.003	-.003	0	%100
109	FF1-BH2-B	Z	-.003	-.003	0	%100
110	FF1-BH3-B	Z	-.003	-.003	0	%100
111	MP-5	Z	-.004	-.004	0	%100
112	MP-6	Z	-.004	-.004	0	%100
113	MP-7	Z	-.004	-.004	0	%100
114	MP-8	Z	-.004	-.004	0	%100
115	SA2	Z	-.004	-.004	0	%100
116	SF1-TH-B	Z	-.003	-.003	0	%100
117	SF1-BH-B	Z	-.003	-.003	0	%100
118	SF2-TH-B	Z	-.001	-.001	0	%100
119	SF2-BH-B	Z	-.001	-.001	0	%100
120	FP-5	Z	-.000776	-.000776	0	%100
121	FP-6	Z	-.000776	-.000776	0	%100
122	FP-7	Z	-.000776	-.000776	0	%100
123	FP-8	Z	-.000776	-.000776	0	%100
124	V1B	Z	-.001	-.001	0	%100
125	V2B	Z	-.001	-.001	0	%100
126	D1B	Z	-.001	-.001	0	%100
127	V3B	Z	-.001	-.001	0	%100
128	V4B	Z	-.001	-.001	0	%100
129	D2B	Z	-.001	-.001	0	%100
130	MAST-2	Z	-.004	-.004	0	%100
131	FF1-TH1-G	Z	0	0	0	%100
132	FF1-TH2-G	Z	0	0	0	%100
133	FF1-TH3-G	Z	0	0	0	%100
134	FF1-BH1-G	Z	0	0	0	%100
135	FF1-BH2-G	Z	0	0	0	%100
136	FF1-BH3-G	Z	0	0	0	%100
137	MP-9	Z	-.004	-.004	0	%100
138	MP-10	Z	-.004	-.004	0	%100
139	MP-11	Z	-.004	-.004	0	%100
140	MP-12	Z	-.004	-.004	0	%100
141	SA3	Z	-.004	-.004	0	%100
142	SF1-TH-G	Z	-.002	-.002	0	%100
143	SF1-BH-G	Z	-.002	-.002	0	%100
144	SF2-TH-G	Z	-.001	-.001	0	%100
145	SF2-BH-G	Z	-.001	-.001	0	%100
146	FP-9	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
147	FP-10	Z	0	0	0	%100
148	FP-11	Z	0	0	0	%100
149	FP-12	Z	0	0	0	%100
150	V1G	Z	-.001	-.001	0	%100
151	V2G	Z	-.001	-.001	0	%100
152	D1G	Z	-.001	-.001	0	%100
153	V3G	Z	-.001	-.001	0	%100
154	V4G	Z	-.001	-.001	0	%100
155	D2G	Z	-.001	-.001	0	%100
156	MAST-3	Z	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.007	.007	0	%100
2	FF1-TH2-A	X	.007	.007	0	%100
3	FF1-TH3-A	X	.007	.007	0	%100
4	FF1-BH1-A	X	.007	.007	0	%100
5	FF1-BH2-A	X	.007	.007	0	%100
6	FF1-BH3-A	X	.007	.007	0	%100
7	MP-1	X	.007	.007	0	%100
8	MP-2	X	.007	.007	0	%100
9	MP-3	X	.007	.007	0	%100
10	MP-4	X	.007	.007	0	%100
11	SA1	X	.007	.007	0	%100
12	SF1-TH-A	X	.005	.005	0	%100
13	SF1-BH-A	X	.005	.005	0	%100
14	SF2-TH-A	X	.005	.005	0	%100
15	SF2-BH-A	X	.005	.005	0	%100
16	FP-1	X	.002	.002	0	%100
17	FP-2	X	.002	.002	0	%100
18	FP-3	X	.002	.002	0	%100
19	FP-4	X	.002	.002	0	%100
20	V1A	X	.002	.002	0	%100
21	V2A	X	.002	.002	0	%100
22	D1A	X	.002	.002	0	%100
23	V3A	X	.002	.002	0	%100
24	V4A	X	.002	.002	0	%100
25	D2A	X	.002	.002	0	%100
26	MAST-1	X	.009	.009	0	%100
27	FF1-TH1-B	X	.004	.004	0	%100
28	FF1-TH2-B	X	.004	.004	0	%100
29	FF1-TH3-B	X	.004	.004	0	%100
30	FF1-BH1-B	X	.004	.004	0	%100
31	FF1-BH2-B	X	.004	.004	0	%100
32	FF1-BH3-B	X	.004	.004	0	%100
33	MP-5	X	.007	.007	0	%100
34	MP-6	X	.007	.007	0	%100
35	MP-7	X	.007	.007	0	%100
36	MP-8	X	.007	.007	0	%100
37	SA2	X	.007	.007	0	%100
38	SF1-TH-B	X	.006	.006	0	%100
39	SF1-BH-B	X	.006	.006	0	%100
40	SF2-TH-B	X	.00039	.00039	0	%100
41	SF2-BH-B	X	.00039	.00039	0	%100
42	FP-5	X	.000814	.000814	0	%100
43	FP-6	X	.000814	.000814	0	%100
44	FP-7	X	.000814	.000814	0	%100
45	FP-8	X	.000814	.000814	0	%100
46	V1B	X	.002	.002	0	%100
47	V2B	X	.002	.002	0	%100
48	D1B	X	.002	.002	0	%100
49	V3B	X	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
50	V4B	X	.002	.002	0	%100
51	D2B	X	.002	.002	0	%100
52	MAST-2	X	.009	.009	0	%100
53	FF1-TH1-G	X	.004	.004	0	%100
54	FF1-TH2-G	X	.004	.004	0	%100
55	FF1-TH3-G	X	.004	.004	0	%100
56	FF1-BH1-G	X	.004	.004	0	%100
57	FF1-BH2-G	X	.004	.004	0	%100
58	FF1-BH3-G	X	.004	.004	0	%100
59	MP-9	X	.007	.007	0	%100
60	MP-10	X	.007	.007	0	%100
61	MP-11	X	.007	.007	0	%100
62	MP-12	X	.007	.007	0	%100
63	SA3	X	.007	.007	0	%100
64	SF1-TH-G	X	.00039	.00039	0	%100
65	SF1-BH-G	X	.00039	.00039	0	%100
66	SF2-TH-G	X	.006	.006	0	%100
67	SF2-BH-G	X	.006	.006	0	%100
68	FP-9	X	.000814	.000814	0	%100
69	FP-10	X	.000814	.000814	0	%100
70	FP-11	X	.000814	.000814	0	%100
71	FP-12	X	.000814	.000814	0	%100
72	V1G	X	.002	.002	0	%100
73	V2G	X	.002	.002	0	%100
74	D1G	X	.002	.002	0	%100
75	V3G	X	.002	.002	0	%100
76	V4G	X	.002	.002	0	%100
77	D2G	X	.002	.002	0	%100
78	MAST-3	X	.009	.009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.006	.006	0	%100
2	FF1-TH2-A	X	.006	.006	0	%100
3	FF1-TH3-A	X	.006	.006	0	%100
4	FF1-BH1-A	X	.006	.006	0	%100
5	FF1-BH2-A	X	.006	.006	0	%100
6	FF1-BH3-A	X	.006	.006	0	%100
7	MP-1	X	.006	.006	0	%100
8	MP-2	X	.006	.006	0	%100
9	MP-3	X	.006	.006	0	%100
10	MP-4	X	.006	.006	0	%100
11	SA1	X	.006	.006	0	%100
12	SF1-TH-A	X	.005	.005	0	%100
13	SF1-BH-A	X	.005	.005	0	%100
14	SF2-TH-A	X	.002	.002	0	%100
15	SF2-BH-A	X	.002	.002	0	%100
16	FP-1	X	.001	.001	0	%100
17	FP-2	X	.001	.001	0	%100
18	FP-3	X	.001	.001	0	%100
19	FP-4	X	.001	.001	0	%100
20	V1A	X	.002	.002	0	%100
21	V2A	X	.002	.002	0	%100
22	D1A	X	.002	.002	0	%100
23	V3A	X	.002	.002	0	%100
24	V4A	X	.002	.002	0	%100
25	D2A	X	.002	.002	0	%100
26	MAST-1	X	.007	.007	0	%100
27	FF1-TH1-B	X	0	0	0	%100
28	FF1-TH2-B	X	0	0	0	%100
29	FF1-TH3-B	X	0	0	0	%100
30	FF1-BH1-B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	FF1-BH2-B	X	0	0	0	%100
32	FF1-BH3-B	X	0	0	0	%100
33	MP-5	X	.006	.006	0	%100
34	MP-6	X	.006	.006	0	%100
35	MP-7	X	.006	.006	0	%100
36	MP-8	X	.006	.006	0	%100
37	SA2	X	.006	.006	0	%100
38	SF1-TH-B	X	.003	.003	0	%100
39	SF1-BH-B	X	.003	.003	0	%100
40	SF2-TH-B	X	.002	.002	0	%100
41	SF2-BH-B	X	.002	.002	0	%100
42	FP-5	X	0	0	0	%100
43	FP-6	X	0	0	0	%100
44	FP-7	X	0	0	0	%100
45	FP-8	X	0	0	0	%100
46	V1B	X	.002	.002	0	%100
47	V2B	X	.002	.002	0	%100
48	D1B	X	.002	.002	0	%100
49	V3B	X	.002	.002	0	%100
50	V4B	X	.002	.002	0	%100
51	D2B	X	.002	.002	0	%100
52	MAST-2	X	.007	.007	0	%100
53	FF1-TH1-G	X	.006	.006	0	%100
54	FF1-TH2-G	X	.006	.006	0	%100
55	FF1-TH3-G	X	.006	.006	0	%100
56	FF1-BH1-G	X	.006	.006	0	%100
57	FF1-BH2-G	X	.006	.006	0	%100
58	FF1-BH3-G	X	.006	.006	0	%100
59	MP-9	X	.006	.006	0	%100
60	MP-10	X	.006	.006	0	%100
61	MP-11	X	.006	.006	0	%100
62	MP-12	X	.006	.006	0	%100
63	SA3	X	.006	.006	0	%100
64	SF1-TH-G	X	.002	.002	0	%100
65	SF1-BH-G	X	.002	.002	0	%100
66	SF2-TH-G	X	.006	.006	0	%100
67	SF2-BH-G	X	.006	.006	0	%100
68	FP-9	X	.001	.001	0	%100
69	FP-10	X	.001	.001	0	%100
70	FP-11	X	.001	.001	0	%100
71	FP-12	X	.001	.001	0	%100
72	V1G	X	.002	.002	0	%100
73	V2G	X	.002	.002	0	%100
74	D1G	X	.002	.002	0	%100
75	V3G	X	.002	.002	0	%100
76	V4G	X	.002	.002	0	%100
77	D2G	X	.002	.002	0	%100
78	MAST-3	X	.007	.007	0	%100
79	FF1-TH1-A	Z	.003	.003	0	%100
80	FF1-TH2-A	Z	.003	.003	0	%100
81	FF1-TH3-A	Z	.003	.003	0	%100
82	FF1-BH1-A	Z	.003	.003	0	%100
83	FF1-BH2-A	Z	.003	.003	0	%100
84	FF1-BH3-A	Z	.003	.003	0	%100
85	MP-1	Z	.004	.004	0	%100
86	MP-2	Z	.004	.004	0	%100
87	MP-3	Z	.004	.004	0	%100
88	MP-4	Z	.004	.004	0	%100
89	SA1	Z	.004	.004	0	%100
90	SF1-TH-A	Z	.003	.003	0	%100
91	SF1-BH-A	Z	.003	.003	0	%100
92	SF2-TH-A	Z	.001	.001	0	%100
93	SF2-BH-A	Z	.001	.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
94	FP-1	Z	.000797	.000797	0	%100
95	FP-2	Z	.000797	.000797	0	%100
96	FP-3	Z	.000797	.000797	0	%100
97	FP-4	Z	.000797	.000797	0	%100
98	V1A	Z	.001	.001	0	%100
99	V2A	Z	.001	.001	0	%100
100	D1A	Z	.001	.001	0	%100
101	V3A	Z	.001	.001	0	%100
102	V4A	Z	.001	.001	0	%100
103	D2A	Z	.001	.001	0	%100
104	MAST-1	Z	.004	.004	0	%100
105	FF1-TH1-B	Z	0	0	0	%100
106	FF1-TH2-B	Z	0	0	0	%100
107	FF1-TH3-B	Z	0	0	0	%100
108	FF1-BH1-B	Z	0	0	0	%100
109	FF1-BH2-B	Z	0	0	0	%100
110	FF1-BH3-B	Z	0	0	0	%100
111	MP-5	Z	.004	.004	0	%100
112	MP-6	Z	.004	.004	0	%100
113	MP-7	Z	.004	.004	0	%100
114	MP-8	Z	.004	.004	0	%100
115	SA2	Z	.004	.004	0	%100
116	SF1-TH-B	Z	.001	.001	0	%100
117	SF1-BH-B	Z	.001	.001	0	%100
118	SF2-TH-B	Z	.002	.002	0	%100
119	SF2-BH-B	Z	.002	.002	0	%100
120	FP-5	Z	0	0	0	%100
121	FP-6	Z	0	0	0	%100
122	FP-7	Z	0	0	0	%100
123	FP-8	Z	0	0	0	%100
124	V1B	Z	.001	.001	0	%100
125	V2B	Z	.001	.001	0	%100
126	D1B	Z	.001	.001	0	%100
127	V3B	Z	.001	.001	0	%100
128	V4B	Z	.001	.001	0	%100
129	D2B	Z	.001	.001	0	%100
130	MAST-2	Z	.004	.004	0	%100
131	FF1-TH1-G	Z	.003	.003	0	%100
132	FF1-TH2-G	Z	.003	.003	0	%100
133	FF1-TH3-G	Z	.003	.003	0	%100
134	FF1-BH1-G	Z	.003	.003	0	%100
135	FF1-BH2-G	Z	.003	.003	0	%100
136	FF1-BH3-G	Z	.003	.003	0	%100
137	MP-9	Z	.004	.004	0	%100
138	MP-10	Z	.004	.004	0	%100
139	MP-11	Z	.004	.004	0	%100
140	MP-12	Z	.004	.004	0	%100
141	SA3	Z	.004	.004	0	%100
142	SF1-TH-G	Z	.001	.001	0	%100
143	SF1-BH-G	Z	.001	.001	0	%100
144	SF2-TH-G	Z	.003	.003	0	%100
145	SF2-BH-G	Z	.003	.003	0	%100
146	FP-9	Z	.000776	.000776	0	%100
147	FP-10	Z	.000776	.000776	0	%100
148	FP-11	Z	.000776	.000776	0	%100
149	FP-12	Z	.000776	.000776	0	%100
150	V1G	Z	.001	.001	0	%100
151	V2G	Z	.001	.001	0	%100
152	D1G	Z	.001	.001	0	%100
153	V3G	Z	.001	.001	0	%100
154	V4G	Z	.001	.001	0	%100
155	D2G	Z	.001	.001	0	%100
156	MAST-3	Z	.004	.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.004	.004	0	%100
2	FF1-TH2-A	X	.004	.004	0	%100
3	FF1-TH3-A	X	.004	.004	0	%100
4	FF1-BH1-A	X	.004	.004	0	%100
5	FF1-BH2-A	X	.004	.004	0	%100
6	FF1-BH3-A	X	.004	.004	0	%100
7	MP-1	X	.005	.005	0	%100
8	MP-2	X	.005	.005	0	%100
9	MP-3	X	.005	.005	0	%100
10	MP-4	X	.005	.005	0	%100
11	SA1	X	.005	.005	0	%100
12	SF1-TH-A	X	.004	.004	0	%100
13	SF1-BH-A	X	.004	.004	0	%100
14	SF2-TH-A	X	.000763	.000763	0	%100
15	SF2-BH-A	X	.000763	.000763	0	%100
16	FP-1	X	.00092	.00092	0	%100
17	FP-2	X	.00092	.00092	0	%100
18	FP-3	X	.00092	.00092	0	%100
19	FP-4	X	.00092	.00092	0	%100
20	V1A	X	.002	.002	0	%100
21	V2A	X	.002	.002	0	%100
22	D1A	X	.002	.002	0	%100
23	V3A	X	.002	.002	0	%100
24	V4A	X	.002	.002	0	%100
25	D2A	X	.002	.002	0	%100
26	MAST-1	X	.006	.006	0	%100
27	FF1-TH1-B	X	.001	.001	0	%100
28	FF1-TH2-B	X	.001	.001	0	%100
29	FF1-TH3-B	X	.001	.001	0	%100
30	FF1-BH1-B	X	.001	.001	0	%100
31	FF1-BH2-B	X	.001	.001	0	%100
32	FF1-BH3-B	X	.001	.001	0	%100
33	MP-5	X	.005	.005	0	%100
34	MP-6	X	.005	.005	0	%100
35	MP-7	X	.005	.005	0	%100
36	MP-8	X	.005	.005	0	%100
37	SA2	X	.005	.005	0	%100
38	SF1-TH-B	X	.002	.002	0	%100
39	SF1-BH-B	X	.002	.002	0	%100
40	SF2-TH-B	X	.002	.002	0	%100
41	SF2-BH-B	X	.002	.002	0	%100
42	FP-5	X	.000298	.000298	0	%100
43	FP-6	X	.000298	.000298	0	%100
44	FP-7	X	.000298	.000298	0	%100
45	FP-8	X	.000298	.000298	0	%100
46	V1B	X	.002	.002	0	%100
47	V2B	X	.002	.002	0	%100
48	D1B	X	.002	.002	0	%100
49	V3B	X	.002	.002	0	%100
50	V4B	X	.002	.002	0	%100
51	D2B	X	.002	.002	0	%100
52	MAST-2	X	.006	.006	0	%100
53	FF1-TH1-G	X	.005	.005	0	%100
54	FF1-TH2-G	X	.005	.005	0	%100
55	FF1-TH3-G	X	.005	.005	0	%100
56	FF1-BH1-G	X	.005	.005	0	%100
57	FF1-BH2-G	X	.005	.005	0	%100
58	FF1-BH3-G	X	.005	.005	0	%100
59	MP-9	X	.005	.005	0	%100
60	MP-10	X	.005	.005	0	%100
61	MP-11	X	.005	.005	0	%100
62	MP-12	X	.005	.005	0	%100
63	SA3	X	.005	.005	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	SF1-TH-G	X	.002	.002	0	%100
65	SF1-BH-G	X	.002	.002	0	%100
66	SF2-TH-G	X	.004	.004	0	%100
67	SF2-BH-G	X	.004	.004	0	%100
68	FP-9	X	.001	.001	0	%100
69	FP-10	X	.001	.001	0	%100
70	FP-11	X	.001	.001	0	%100
71	FP-12	X	.001	.001	0	%100
72	V1G	X	.002	.002	0	%100
73	V2G	X	.002	.002	0	%100
74	D1G	X	.002	.002	0	%100
75	V3G	X	.002	.002	0	%100
76	V4G	X	.002	.002	0	%100
77	D2G	X	.002	.002	0	%100
78	MAST-3	X	.006	.006	0	%100
79	FF1-TH1-A	Z	.004	.004	0	%100
80	FF1-TH2-A	Z	.004	.004	0	%100
81	FF1-TH3-A	Z	.004	.004	0	%100
82	FF1-BH1-A	Z	.004	.004	0	%100
83	FF1-BH2-A	Z	.004	.004	0	%100
84	FF1-BH3-A	Z	.004	.004	0	%100
85	MP-1	Z	.005	.005	0	%100
86	MP-2	Z	.005	.005	0	%100
87	MP-3	Z	.005	.005	0	%100
88	MP-4	Z	.005	.005	0	%100
89	SA1	Z	.005	.005	0	%100
90	SF1-TH-A	Z	.004	.004	0	%100
91	SF1-BH-A	Z	.004	.004	0	%100
92	SF2-TH-A	Z	.000678	.000678	0	%100
93	SF2-BH-A	Z	.000678	.000678	0	%100
94	FP-1	Z	.00092	.00092	0	%100
95	FP-2	Z	.00092	.00092	0	%100
96	FP-3	Z	.00092	.00092	0	%100
97	FP-4	Z	.00092	.00092	0	%100
98	V1A	Z	.002	.002	0	%100
99	V2A	Z	.002	.002	0	%100
100	D1A	Z	.002	.002	0	%100
101	V3A	Z	.002	.002	0	%100
102	V4A	Z	.002	.002	0	%100
103	D2A	Z	.002	.002	0	%100
104	MAST-1	Z	.006	.006	0	%100
105	FF1-TH1-B	Z	.001	.001	0	%100
106	FF1-TH2-B	Z	.001	.001	0	%100
107	FF1-TH3-B	Z	.001	.001	0	%100
108	FF1-BH1-B	Z	.001	.001	0	%100
109	FF1-BH2-B	Z	.001	.001	0	%100
110	FF1-BH3-B	Z	.001	.001	0	%100
111	MP-5	Z	.005	.005	0	%100
112	MP-6	Z	.005	.005	0	%100
113	MP-7	Z	.005	.005	0	%100
114	MP-8	Z	.005	.005	0	%100
115	SA2	Z	.005	.005	0	%100
116	SF1-TH-B	Z	.001	.001	0	%100
117	SF1-BH-B	Z	.001	.001	0	%100
118	SF2-TH-B	Z	.004	.004	0	%100
119	SF2-BH-B	Z	.004	.004	0	%100
120	FP-5	Z	.000328	.000328	0	%100
121	FP-6	Z	.000328	.000328	0	%100
122	FP-7	Z	.000328	.000328	0	%100
123	FP-8	Z	.000328	.000328	0	%100
124	V1B	Z	.002	.002	0	%100
125	V2B	Z	.002	.002	0	%100
126	D1B	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
127	V3B	Z	.002	.002	0	%100
128	V4B	Z	.002	.002	0	%100
129	D2B	Z	.002	.002	0	%100
130	MAST-2	Z	.006	.006	0	%100
131	FF1-TH1-G	Z	.005	.005	0	%100
132	FF1-TH2-G	Z	.005	.005	0	%100
133	FF1-TH3-G	Z	.005	.005	0	%100
134	FF1-BH1-G	Z	.005	.005	0	%100
135	FF1-BH2-G	Z	.005	.005	0	%100
136	FF1-BH3-G	Z	.005	.005	0	%100
137	MP-9	Z	.005	.005	0	%100
138	MP-10	Z	.005	.005	0	%100
139	MP-11	Z	.005	.005	0	%100
140	MP-12	Z	.005	.005	0	%100
141	SA3	Z	.005	.005	0	%100
142	SF1-TH-G	Z	.003	.003	0	%100
143	SF1-BH-G	Z	.003	.003	0	%100
144	SF2-TH-G	Z	.003	.003	0	%100
145	SF2-BH-G	Z	.003	.003	0	%100
146	FP-9	Z	.001	.001	0	%100
147	FP-10	Z	.001	.001	0	%100
148	FP-11	Z	.001	.001	0	%100
149	FP-12	Z	.001	.001	0	%100
150	V1G	Z	.002	.002	0	%100
151	V2G	Z	.002	.002	0	%100
152	D1G	Z	.002	.002	0	%100
153	V3G	Z	.002	.002	0	%100
154	V4G	Z	.002	.002	0	%100
155	D2G	Z	.002	.002	0	%100
156	MAST-3	Z	.006	.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.002	.002	0	%100
2	FF1-TH2-A	X	.002	.002	0	%100
3	FF1-TH3-A	X	.002	.002	0	%100
4	FF1-BH1-A	X	.002	.002	0	%100
5	FF1-BH2-A	X	.002	.002	0	%100
6	FF1-BH3-A	X	.002	.002	0	%100
7	MP-1	X	.004	.004	0	%100
8	MP-2	X	.004	.004	0	%100
9	MP-3	X	.004	.004	0	%100
10	MP-4	X	.004	.004	0	%100
11	SA1	X	.004	.004	0	%100
12	SF1-TH-A	X	.003	.003	0	%100
13	SF1-BH-A	X	.003	.003	0	%100
14	SF2-TH-A	X	.000288	.000288	0	%100
15	SF2-BH-A	X	.000288	.000288	0	%100
16	FP-1	X	.00046	.00046	0	%100
17	FP-2	X	.00046	.00046	0	%100
18	FP-3	X	.00046	.00046	0	%100
19	FP-4	X	.00046	.00046	0	%100
20	V1A	X	.001	.001	0	%100
21	V2A	X	.001	.001	0	%100
22	D1A	X	.001	.001	0	%100
23	V3A	X	.001	.001	0	%100
24	V4A	X	.001	.001	0	%100
25	D2A	X	.001	.001	0	%100
26	MAST-1	X	.004	.004	0	%100
27	FF1-TH1-B	X	.002	.002	0	%100
28	FF1-TH2-B	X	.002	.002	0	%100
29	FF1-TH3-B	X	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	FF1-BH1-B	X	.002	.002	0	%100
31	FF1-BH2-B	X	.002	.002	0	%100
32	FF1-BH3-B	X	.002	.002	0	%100
33	MP-5	X	.004	.004	0	%100
34	MP-6	X	.004	.004	0	%100
35	MP-7	X	.004	.004	0	%100
36	MP-8	X	.004	.004	0	%100
37	SA2	X	.004	.004	0	%100
38	SF1-TH-B	X	.0003	.0003	0	%100
39	SF1-BH-B	X	.0003	.0003	0	%100
40	SF2-TH-B	X	.002	.002	0	%100
41	SF2-BH-B	X	.002	.002	0	%100
42	FP-5	X	.000407	.000407	0	%100
43	FP-6	X	.000407	.000407	0	%100
44	FP-7	X	.000407	.000407	0	%100
45	FP-8	X	.000407	.000407	0	%100
46	V1B	X	.001	.001	0	%100
47	V2B	X	.001	.001	0	%100
48	D1B	X	.001	.001	0	%100
49	V3B	X	.001	.001	0	%100
50	V4B	X	.001	.001	0	%100
51	D2B	X	.001	.001	0	%100
52	MAST-2	X	.004	.004	0	%100
53	FF1-TH1-G	X	.004	.004	0	%100
54	FF1-TH2-G	X	.004	.004	0	%100
55	FF1-TH3-G	X	.004	.004	0	%100
56	FF1-BH1-G	X	.004	.004	0	%100
57	FF1-BH2-G	X	.004	.004	0	%100
58	FF1-BH3-G	X	.004	.004	0	%100
59	MP-9	X	.004	.004	0	%100
60	MP-10	X	.004	.004	0	%100
61	MP-11	X	.004	.004	0	%100
62	MP-12	X	.004	.004	0	%100
63	SA3	X	.004	.004	0	%100
64	SF1-TH-G	X	.002	.002	0	%100
65	SF1-BH-G	X	.002	.002	0	%100
66	SF2-TH-G	X	.003	.003	0	%100
67	SF2-BH-G	X	.003	.003	0	%100
68	FP-9	X	.000814	.000814	0	%100
69	FP-10	X	.000814	.000814	0	%100
70	FP-11	X	.000814	.000814	0	%100
71	FP-12	X	.000814	.000814	0	%100
72	V1G	X	.001	.001	0	%100
73	V2G	X	.001	.001	0	%100
74	D1G	X	.001	.001	0	%100
75	V3G	X	.001	.001	0	%100
76	V4G	X	.001	.001	0	%100
77	D2G	X	.001	.001	0	%100
78	MAST-3	X	.004	.004	0	%100
79	FF1-TH1-A	Z	.003	.003	0	%100
80	FF1-TH2-A	Z	.003	.003	0	%100
81	FF1-TH3-A	Z	.003	.003	0	%100
82	FF1-BH1-A	Z	.003	.003	0	%100
83	FF1-BH2-A	Z	.003	.003	0	%100
84	FF1-BH3-A	Z	.003	.003	0	%100
85	MP-1	Z	.006	.006	0	%100
86	MP-2	Z	.006	.006	0	%100
87	MP-3	Z	.006	.006	0	%100
88	MP-4	Z	.006	.006	0	%100
89	SA1	Z	.006	.006	0	%100
90	SF1-TH-A	Z	.004	.004	0	%100
91	SF1-BH-A	Z	.004	.004	0	%100
92	SF2-TH-A	Z	.000444	.000444	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
93	SF2-BH-A	Z	.000444	.000444	0	%100
94	FP-1	Z	.000797	.000797	0	%100
95	FP-2	Z	.000797	.000797	0	%100
96	FP-3	Z	.000797	.000797	0	%100
97	FP-4	Z	.000797	.000797	0	%100
98	V1A	Z	.002	.002	0	%100
99	V2A	Z	.002	.002	0	%100
100	D1A	Z	.002	.002	0	%100
101	V3A	Z	.002	.002	0	%100
102	V4A	Z	.002	.002	0	%100
103	D2A	Z	.002	.002	0	%100
104	MAST-1	Z	.007	.007	0	%100
105	FF1-TH1-B	Z	.003	.003	0	%100
106	FF1-TH2-B	Z	.003	.003	0	%100
107	FF1-TH3-B	Z	.003	.003	0	%100
108	FF1-BH1-B	Z	.003	.003	0	%100
109	FF1-BH2-B	Z	.003	.003	0	%100
110	FF1-BH3-B	Z	.003	.003	0	%100
111	MP-5	Z	.006	.006	0	%100
112	MP-6	Z	.006	.006	0	%100
113	MP-7	Z	.006	.006	0	%100
114	MP-8	Z	.006	.006	0	%100
115	SA2	Z	.006	.006	0	%100
116	SF1-TH-B	Z	.000408	.000408	0	%100
117	SF1-BH-B	Z	.000408	.000408	0	%100
118	SF2-TH-B	Z	.005	.005	0	%100
119	SF2-BH-B	Z	.005	.005	0	%100
120	FP-5	Z	.000776	.000776	0	%100
121	FP-6	Z	.000776	.000776	0	%100
122	FP-7	Z	.000776	.000776	0	%100
123	FP-8	Z	.000776	.000776	0	%100
124	V1B	Z	.002	.002	0	%100
125	V2B	Z	.002	.002	0	%100
126	D1B	Z	.002	.002	0	%100
127	V3B	Z	.002	.002	0	%100
128	V4B	Z	.002	.002	0	%100
129	D2B	Z	.002	.002	0	%100
130	MAST-2	Z	.007	.007	0	%100
131	FF1-TH1-G	Z	.006	.006	0	%100
132	FF1-TH2-G	Z	.006	.006	0	%100
133	FF1-TH3-G	Z	.006	.006	0	%100
134	FF1-BH1-G	Z	.006	.006	0	%100
135	FF1-BH2-G	Z	.006	.006	0	%100
136	FF1-BH3-G	Z	.006	.006	0	%100
137	MP-9	Z	.006	.006	0	%100
138	MP-10	Z	.006	.006	0	%100
139	MP-11	Z	.006	.006	0	%100
140	MP-12	Z	.006	.006	0	%100
141	SA3	Z	.006	.006	0	%100
142	SF1-TH-G	Z	.005	.005	0	%100
143	SF1-BH-G	Z	.005	.005	0	%100
144	SF2-TH-G	Z	.004	.004	0	%100
145	SF2-BH-G	Z	.004	.004	0	%100
146	FP-9	Z	.002	.002	0	%100
147	FP-10	Z	.002	.002	0	%100
148	FP-11	Z	.002	.002	0	%100
149	FP-12	Z	.002	.002	0	%100
150	V1G	Z	.002	.002	0	%100
151	V2G	Z	.002	.002	0	%100
152	D1G	Z	.002	.002	0	%100
153	V3G	Z	.002	.002	0	%100
154	V4G	Z	.002	.002	0	%100
155	D2G	Z	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
156	MAST-3	Z	.007	.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	Z	0	0	0	%100
2	FF1-TH2-A	Z	0	0	0	%100
3	FF1-TH3-A	Z	0	0	0	%100
4	FF1-BH1-A	Z	0	0	0	%100
5	FF1-BH2-A	Z	0	0	0	%100
6	FF1-BH3-A	Z	0	0	0	%100
7	MP-1	Z	.007	.007	0	%100
8	MP-2	Z	.007	.007	0	%100
9	MP-3	Z	.007	.007	0	%100
10	MP-4	Z	.007	.007	0	%100
11	SA1	Z	.007	.007	0	%100
12	SF1-TH-A	Z	.003	.003	0	%100
13	SF1-BH-A	Z	.003	.003	0	%100
14	SF2-TH-A	Z	.003	.003	0	%100
15	SF2-BH-A	Z	.003	.003	0	%100
16	FP-1	Z	0	0	0	%100
17	FP-2	Z	0	0	0	%100
18	FP-3	Z	0	0	0	%100
19	FP-4	Z	0	0	0	%100
20	V1A	Z	.002	.002	0	%100
21	V2A	Z	.002	.002	0	%100
22	D1A	Z	.002	.002	0	%100
23	V3A	Z	.002	.002	0	%100
24	V4A	Z	.002	.002	0	%100
25	D2A	Z	.002	.002	0	%100
26	MAST-1	Z	.009	.009	0	%100
27	FF1-TH1-B	Z	.006	.006	0	%100
28	FF1-TH2-B	Z	.006	.006	0	%100
29	FF1-TH3-B	Z	.006	.006	0	%100
30	FF1-BH1-B	Z	.006	.006	0	%100
31	FF1-BH2-B	Z	.006	.006	0	%100
32	FF1-BH3-B	Z	.006	.006	0	%100
33	MP-5	Z	.007	.007	0	%100
34	MP-6	Z	.007	.007	0	%100
35	MP-7	Z	.007	.007	0	%100
36	MP-8	Z	.007	.007	0	%100
37	SA2	Z	.007	.007	0	%100
38	SF1-TH-B	Z	.002	.002	0	%100
39	SF1-BH-B	Z	.002	.002	0	%100
40	SF2-TH-B	Z	.007	.007	0	%100
41	SF2-BH-B	Z	.007	.007	0	%100
42	FP-5	Z	.002	.002	0	%100
43	FP-6	Z	.002	.002	0	%100
44	FP-7	Z	.002	.002	0	%100
45	FP-8	Z	.002	.002	0	%100
46	V1B	Z	.002	.002	0	%100
47	V2B	Z	.002	.002	0	%100
48	D1B	Z	.002	.002	0	%100
49	V3B	Z	.002	.002	0	%100
50	V4B	Z	.002	.002	0	%100
51	D2B	Z	.002	.002	0	%100
52	MAST-2	Z	.009	.009	0	%100
53	FF1-TH1-G	Z	.006	.006	0	%100
54	FF1-TH2-G	Z	.006	.006	0	%100
55	FF1-TH3-G	Z	.006	.006	0	%100
56	FF1-BH1-G	Z	.006	.006	0	%100
57	FF1-BH2-G	Z	.006	.006	0	%100
58	FF1-BH3-G	Z	.006	.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	MP-9	Z	.007	.007	0	%100
60	MP-10	Z	.007	.007	0	%100
61	MP-11	Z	.007	.007	0	%100
62	MP-12	Z	.007	.007	0	%100
63	SA3	Z	.007	.007	0	%100
64	SF1-TH-G	Z	.007	.007	0	%100
65	SF1-BH-G	Z	.007	.007	0	%100
66	SF2-TH-G	Z	.002	.002	0	%100
67	SF2-BH-G	Z	.002	.002	0	%100
68	FP-9	Z	.002	.002	0	%100
69	FP-10	Z	.002	.002	0	%100
70	FP-11	Z	.002	.002	0	%100
71	FP-12	Z	.002	.002	0	%100
72	V1G	Z	.002	.002	0	%100
73	V2G	Z	.002	.002	0	%100
74	D1G	Z	.002	.002	0	%100
75	V3G	Z	.002	.002	0	%100
76	V4G	Z	.002	.002	0	%100
77	D2G	Z	.002	.002	0	%100
78	MAST-3	Z	.009	.009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.002	-.002	0	%100
2	FF1-TH2-A	X	-.002	-.002	0	%100
3	FF1-TH3-A	X	-.002	-.002	0	%100
4	FF1-BH1-A	X	-.002	-.002	0	%100
5	FF1-BH2-A	X	-.002	-.002	0	%100
6	FF1-BH3-A	X	-.002	-.002	0	%100
7	MP-1	X	-.004	-.004	0	%100
8	MP-2	X	-.004	-.004	0	%100
9	MP-3	X	-.004	-.004	0	%100
10	MP-4	X	-.004	-.004	0	%100
11	SA1	X	-.004	-.004	0	%100
12	SF1-TH-A	X	-.000288	-.000288	0	%100
13	SF1-BH-A	X	-.000288	-.000288	0	%100
14	SF2-TH-A	X	-.003	-.003	0	%100
15	SF2-BH-A	X	-.003	-.003	0	%100
16	FP-1	X	-.00046	-.00046	0	%100
17	FP-2	X	-.00046	-.00046	0	%100
18	FP-3	X	-.00046	-.00046	0	%100
19	FP-4	X	-.00046	-.00046	0	%100
20	V1A	X	-.001	-.001	0	%100
21	V2A	X	-.001	-.001	0	%100
22	D1A	X	-.001	-.001	0	%100
23	V3A	X	-.001	-.001	0	%100
24	V4A	X	-.001	-.001	0	%100
25	D2A	X	-.001	-.001	0	%100
26	MAST-1	X	-.004	-.004	0	%100
27	FF1-TH1-B	X	-.004	-.004	0	%100
28	FF1-TH2-B	X	-.004	-.004	0	%100
29	FF1-TH3-B	X	-.004	-.004	0	%100
30	FF1-BH1-B	X	-.004	-.004	0	%100
31	FF1-BH2-B	X	-.004	-.004	0	%100
32	FF1-BH3-B	X	-.004	-.004	0	%100
33	MP-5	X	-.004	-.004	0	%100
34	MP-6	X	-.004	-.004	0	%100
35	MP-7	X	-.004	-.004	0	%100
36	MP-8	X	-.004	-.004	0	%100
37	SA2	X	-.004	-.004	0	%100
38	SF1-TH-B	X	-.003	-.003	0	%100
39	SF1-BH-B	X	-.003	-.003	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	SF2-TH-B	X	-.002	-.002	0	%100
41	SF2-BH-B	X	-.002	-.002	0	%100
42	FP-5	X	-.000814	-.000814	0	%100
43	FP-6	X	-.000814	-.000814	0	%100
44	FP-7	X	-.000814	-.000814	0	%100
45	FP-8	X	-.000814	-.000814	0	%100
46	V1B	X	-.001	-.001	0	%100
47	V2B	X	-.001	-.001	0	%100
48	D1B	X	-.001	-.001	0	%100
49	V3B	X	-.001	-.001	0	%100
50	V4B	X	-.001	-.001	0	%100
51	D2B	X	-.001	-.001	0	%100
52	MAST-2	X	-.004	-.004	0	%100
53	FF1-TH1-G	X	-.002	-.002	0	%100
54	FF1-TH2-G	X	-.002	-.002	0	%100
55	FF1-TH3-G	X	-.002	-.002	0	%100
56	FF1-BH1-G	X	-.002	-.002	0	%100
57	FF1-BH2-G	X	-.002	-.002	0	%100
58	FF1-BH3-G	X	-.002	-.002	0	%100
59	MP-9	X	-.004	-.004	0	%100
60	MP-10	X	-.004	-.004	0	%100
61	MP-11	X	-.004	-.004	0	%100
62	MP-12	X	-.004	-.004	0	%100
63	SA3	X	-.004	-.004	0	%100
64	SF1-TH-G	X	-.002	-.002	0	%100
65	SF1-BH-G	X	-.002	-.002	0	%100
66	SF2-TH-G	X	-.0003	-.0003	0	%100
67	SF2-BH-G	X	-.0003	-.0003	0	%100
68	FP-9	X	-.000407	-.000407	0	%100
69	FP-10	X	-.000407	-.000407	0	%100
70	FP-11	X	-.000407	-.000407	0	%100
71	FP-12	X	-.000407	-.000407	0	%100
72	V1G	X	-.001	-.001	0	%100
73	V2G	X	-.001	-.001	0	%100
74	D1G	X	-.001	-.001	0	%100
75	V3G	X	-.001	-.001	0	%100
76	V4G	X	-.001	-.001	0	%100
77	D2G	X	-.001	-.001	0	%100
78	MAST-3	X	-.004	-.004	0	%100
79	FF1-TH1-A	Z	.003	.003	0	%100
80	FF1-TH2-A	Z	.003	.003	0	%100
81	FF1-TH3-A	Z	.003	.003	0	%100
82	FF1-BH1-A	Z	.003	.003	0	%100
83	FF1-BH2-A	Z	.003	.003	0	%100
84	FF1-BH3-A	Z	.003	.003	0	%100
85	MP-1	Z	.006	.006	0	%100
86	MP-2	Z	.006	.006	0	%100
87	MP-3	Z	.006	.006	0	%100
88	MP-4	Z	.006	.006	0	%100
89	SA1	Z	.006	.006	0	%100
90	SF1-TH-A	Z	.000444	.000444	0	%100
91	SF1-BH-A	Z	.000444	.000444	0	%100
92	SF2-TH-A	Z	.004	.004	0	%100
93	SF2-BH-A	Z	.004	.004	0	%100
94	FP-1	Z	.000797	.000797	0	%100
95	FP-2	Z	.000797	.000797	0	%100
96	FP-3	Z	.000797	.000797	0	%100
97	FP-4	Z	.000797	.000797	0	%100
98	V1A	Z	.002	.002	0	%100
99	V2A	Z	.002	.002	0	%100
100	D1A	Z	.002	.002	0	%100
101	V3A	Z	.002	.002	0	%100
102	V4A	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	D2A	Z	.002	.002	0	%100
104	MAST-1	Z	.007	.007	0	%100
105	FF1-TH1-B	Z	.006	.006	0	%100
106	FF1-TH2-B	Z	.006	.006	0	%100
107	FF1-TH3-B	Z	.006	.006	0	%100
108	FF1-BH1-B	Z	.006	.006	0	%100
109	FF1-BH2-B	Z	.006	.006	0	%100
110	FF1-BH3-B	Z	.006	.006	0	%100
111	MP-5	Z	.006	.006	0	%100
112	MP-6	Z	.006	.006	0	%100
113	MP-7	Z	.006	.006	0	%100
114	MP-8	Z	.006	.006	0	%100
115	SA2	Z	.006	.006	0	%100
116	SF1-TH-B	Z	.004	.004	0	%100
117	SF1-BH-B	Z	.004	.004	0	%100
118	SF2-TH-B	Z	.005	.005	0	%100
119	SF2-BH-B	Z	.005	.005	0	%100
120	FP-5	Z	.002	.002	0	%100
121	FP-6	Z	.002	.002	0	%100
122	FP-7	Z	.002	.002	0	%100
123	FP-8	Z	.002	.002	0	%100
124	V1B	Z	.002	.002	0	%100
125	V2B	Z	.002	.002	0	%100
126	D1B	Z	.002	.002	0	%100
127	V3B	Z	.002	.002	0	%100
128	V4B	Z	.002	.002	0	%100
129	D2B	Z	.002	.002	0	%100
130	MAST-2	Z	.007	.007	0	%100
131	FF1-TH1-G	Z	.003	.003	0	%100
132	FF1-TH2-G	Z	.003	.003	0	%100
133	FF1-TH3-G	Z	.003	.003	0	%100
134	FF1-BH1-G	Z	.003	.003	0	%100
135	FF1-BH2-G	Z	.003	.003	0	%100
136	FF1-BH3-G	Z	.003	.003	0	%100
137	MP-9	Z	.006	.006	0	%100
138	MP-10	Z	.006	.006	0	%100
139	MP-11	Z	.006	.006	0	%100
140	MP-12	Z	.006	.006	0	%100
141	SA3	Z	.006	.006	0	%100
142	SF1-TH-G	Z	.005	.005	0	%100
143	SF1-BH-G	Z	.005	.005	0	%100
144	SF2-TH-G	Z	.000408	.000408	0	%100
145	SF2-BH-G	Z	.000408	.000408	0	%100
146	FP-9	Z	.000776	.000776	0	%100
147	FP-10	Z	.000776	.000776	0	%100
148	FP-11	Z	.000776	.000776	0	%100
149	FP-12	Z	.000776	.000776	0	%100
150	V1G	Z	.002	.002	0	%100
151	V2G	Z	.002	.002	0	%100
152	D1G	Z	.002	.002	0	%100
153	V3G	Z	.002	.002	0	%100
154	V4G	Z	.002	.002	0	%100
155	D2G	Z	.002	.002	0	%100
156	MAST-3	Z	.007	.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.004	-.004	0	%100
2	FF1-TH2-A	X	-.004	-.004	0	%100
3	FF1-TH3-A	X	-.004	-.004	0	%100
4	FF1-BH1-A	X	-.004	-.004	0	%100
5	FF1-BH2-A	X	-.004	-.004	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	FF1-BH3-A	X	-.004	-.004	0	%100
7	MP-1	X	-.005	-.005	0	%100
8	MP-2	X	-.005	-.005	0	%100
9	MP-3	X	-.005	-.005	0	%100
10	MP-4	X	-.005	-.005	0	%100
11	SA1	X	-.005	-.005	0	%100
12	SF1-TH-A	X	-.000763	-.000763	0	%100
13	SF1-BH-A	X	-.000763	-.000763	0	%100
14	SF2-TH-A	X	-.004	-.004	0	%100
15	SF2-BH-A	X	-.004	-.004	0	%100
16	FP-1	X	-.00092	-.00092	0	%100
17	FP-2	X	-.00092	-.00092	0	%100
18	FP-3	X	-.00092	-.00092	0	%100
19	FP-4	X	-.00092	-.00092	0	%100
20	V1A	X	-.002	-.002	0	%100
21	V2A	X	-.002	-.002	0	%100
22	D1A	X	-.002	-.002	0	%100
23	V3A	X	-.002	-.002	0	%100
24	V4A	X	-.002	-.002	0	%100
25	D2A	X	-.002	-.002	0	%100
26	MAST-1	X	-.006	-.006	0	%100
27	FF1-TH1-B	X	-.005	-.005	0	%100
28	FF1-TH2-B	X	-.005	-.005	0	%100
29	FF1-TH3-B	X	-.005	-.005	0	%100
30	FF1-BH1-B	X	-.005	-.005	0	%100
31	FF1-BH2-B	X	-.005	-.005	0	%100
32	FF1-BH3-B	X	-.005	-.005	0	%100
33	MP-5	X	-.005	-.005	0	%100
34	MP-6	X	-.005	-.005	0	%100
35	MP-7	X	-.005	-.005	0	%100
36	MP-8	X	-.005	-.005	0	%100
37	SA2	X	-.005	-.005	0	%100
38	SF1-TH-B	X	-.004	-.004	0	%100
39	SF1-BH-B	X	-.004	-.004	0	%100
40	SF2-TH-B	X	-.002	-.002	0	%100
41	SF2-BH-B	X	-.002	-.002	0	%100
42	FP-5	X	-.001	-.001	0	%100
43	FP-6	X	-.001	-.001	0	%100
44	FP-7	X	-.001	-.001	0	%100
45	FP-8	X	-.001	-.001	0	%100
46	V1B	X	-.002	-.002	0	%100
47	V2B	X	-.002	-.002	0	%100
48	D1B	X	-.002	-.002	0	%100
49	V3B	X	-.002	-.002	0	%100
50	V4B	X	-.002	-.002	0	%100
51	D2B	X	-.002	-.002	0	%100
52	MAST-2	X	-.006	-.006	0	%100
53	FF1-TH1-G	X	-.001	-.001	0	%100
54	FF1-TH2-G	X	-.001	-.001	0	%100
55	FF1-TH3-G	X	-.001	-.001	0	%100
56	FF1-BH1-G	X	-.001	-.001	0	%100
57	FF1-BH2-G	X	-.001	-.001	0	%100
58	FF1-BH3-G	X	-.001	-.001	0	%100
59	MP-9	X	-.005	-.005	0	%100
60	MP-10	X	-.005	-.005	0	%100
61	MP-11	X	-.005	-.005	0	%100
62	MP-12	X	-.005	-.005	0	%100
63	SA3	X	-.005	-.005	0	%100
64	SF1-TH-G	X	-.002	-.002	0	%100
65	SF1-BH-G	X	-.002	-.002	0	%100
66	SF2-TH-G	X	-.002	-.002	0	%100
67	SF2-BH-G	X	-.002	-.002	0	%100
68	FP-9	X	-.000298	-.000298	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	FP-10	X	-.000298	-.000298	0	%100
70	FP-11	X	-.000298	-.000298	0	%100
71	FP-12	X	-.000298	-.000298	0	%100
72	V1G	X	-.002	-.002	0	%100
73	V2G	X	-.002	-.002	0	%100
74	D1G	X	-.002	-.002	0	%100
75	V3G	X	-.002	-.002	0	%100
76	V4G	X	-.002	-.002	0	%100
77	D2G	X	-.002	-.002	0	%100
78	MAST-3	X	-.006	-.006	0	%100
79	FF1-TH1-A	Z	.004	.004	0	%100
80	FF1-TH2-A	Z	.004	.004	0	%100
81	FF1-TH3-A	Z	.004	.004	0	%100
82	FF1-BH1-A	Z	.004	.004	0	%100
83	FF1-BH2-A	Z	.004	.004	0	%100
84	FF1-BH3-A	Z	.004	.004	0	%100
85	MP-1	Z	.005	.005	0	%100
86	MP-2	Z	.005	.005	0	%100
87	MP-3	Z	.005	.005	0	%100
88	MP-4	Z	.005	.005	0	%100
89	SA1	Z	.005	.005	0	%100
90	SF1-TH-A	Z	.000678	.000678	0	%100
91	SF1-BH-A	Z	.000678	.000678	0	%100
92	SF2-TH-A	Z	.004	.004	0	%100
93	SF2-BH-A	Z	.004	.004	0	%100
94	FP-1	Z	.00092	.00092	0	%100
95	FP-2	Z	.00092	.00092	0	%100
96	FP-3	Z	.00092	.00092	0	%100
97	FP-4	Z	.00092	.00092	0	%100
98	V1A	Z	.002	.002	0	%100
99	V2A	Z	.002	.002	0	%100
100	D1A	Z	.002	.002	0	%100
101	V3A	Z	.002	.002	0	%100
102	V4A	Z	.002	.002	0	%100
103	D2A	Z	.002	.002	0	%100
104	MAST-1	Z	.006	.006	0	%100
105	FF1-TH1-B	Z	.005	.005	0	%100
106	FF1-TH2-B	Z	.005	.005	0	%100
107	FF1-TH3-B	Z	.005	.005	0	%100
108	FF1-BH1-B	Z	.005	.005	0	%100
109	FF1-BH2-B	Z	.005	.005	0	%100
110	FF1-BH3-B	Z	.005	.005	0	%100
111	MP-5	Z	.005	.005	0	%100
112	MP-6	Z	.005	.005	0	%100
113	MP-7	Z	.005	.005	0	%100
114	MP-8	Z	.005	.005	0	%100
115	SA2	Z	.005	.005	0	%100
116	SF1-TH-B	Z	.003	.003	0	%100
117	SF1-BH-B	Z	.003	.003	0	%100
118	SF2-TH-B	Z	.003	.003	0	%100
119	SF2-BH-B	Z	.003	.003	0	%100
120	FP-5	Z	.001	.001	0	%100
121	FP-6	Z	.001	.001	0	%100
122	FP-7	Z	.001	.001	0	%100
123	FP-8	Z	.001	.001	0	%100
124	V1B	Z	.002	.002	0	%100
125	V2B	Z	.002	.002	0	%100
126	D1B	Z	.002	.002	0	%100
127	V3B	Z	.002	.002	0	%100
128	V4B	Z	.002	.002	0	%100
129	D2B	Z	.002	.002	0	%100
130	MAST-2	Z	.006	.006	0	%100
131	FF1-TH1-G	Z	.001	.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
132	FF1-TH2-G	Z	.001	.001	0	%100
133	FF1-TH3-G	Z	.001	.001	0	%100
134	FF1-BH1-G	Z	.001	.001	0	%100
135	FF1-BH2-G	Z	.001	.001	0	%100
136	FF1-BH3-G	Z	.001	.001	0	%100
137	MP-9	Z	.005	.005	0	%100
138	MP-10	Z	.005	.005	0	%100
139	MP-11	Z	.005	.005	0	%100
140	MP-12	Z	.005	.005	0	%100
141	SA3	Z	.005	.005	0	%100
142	SF1-TH-G	Z	.004	.004	0	%100
143	SF1-BH-G	Z	.004	.004	0	%100
144	SF2-TH-G	Z	.001	.001	0	%100
145	SF2-BH-G	Z	.001	.001	0	%100
146	FP-9	Z	.000328	.000328	0	%100
147	FP-10	Z	.000328	.000328	0	%100
148	FP-11	Z	.000328	.000328	0	%100
149	FP-12	Z	.000328	.000328	0	%100
150	V1G	Z	.002	.002	0	%100
151	V2G	Z	.002	.002	0	%100
152	D1G	Z	.002	.002	0	%100
153	V3G	Z	.002	.002	0	%100
154	V4G	Z	.002	.002	0	%100
155	D2G	Z	.002	.002	0	%100
156	MAST-3	Z	.006	.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.006	-.006	0	%100
2	FF1-TH2-A	X	-.006	-.006	0	%100
3	FF1-TH3-A	X	-.006	-.006	0	%100
4	FF1-BH1-A	X	-.006	-.006	0	%100
5	FF1-BH2-A	X	-.006	-.006	0	%100
6	FF1-BH3-A	X	-.006	-.006	0	%100
7	MP-1	X	-.006	-.006	0	%100
8	MP-2	X	-.006	-.006	0	%100
9	MP-3	X	-.006	-.006	0	%100
10	MP-4	X	-.006	-.006	0	%100
11	SA1	X	-.006	-.006	0	%100
12	SF1-TH-A	X	-.002	-.002	0	%100
13	SF1-BH-A	X	-.002	-.002	0	%100
14	SF2-TH-A	X	-.005	-.005	0	%100
15	SF2-BH-A	X	-.005	-.005	0	%100
16	FP-1	X	-.001	-.001	0	%100
17	FP-2	X	-.001	-.001	0	%100
18	FP-3	X	-.001	-.001	0	%100
19	FP-4	X	-.001	-.001	0	%100
20	V1A	X	-.002	-.002	0	%100
21	V2A	X	-.002	-.002	0	%100
22	D1A	X	-.002	-.002	0	%100
23	V3A	X	-.002	-.002	0	%100
24	V4A	X	-.002	-.002	0	%100
25	D2A	X	-.002	-.002	0	%100
26	MAST-1	X	-.007	-.007	0	%100
27	FF1-TH1-B	X	-.006	-.006	0	%100
28	FF1-TH2-B	X	-.006	-.006	0	%100
29	FF1-TH3-B	X	-.006	-.006	0	%100
30	FF1-BH1-B	X	-.006	-.006	0	%100
31	FF1-BH2-B	X	-.006	-.006	0	%100
32	FF1-BH3-B	X	-.006	-.006	0	%100
33	MP-5	X	-.006	-.006	0	%100
34	MP-6	X	-.006	-.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
35	MP-7	X	-.006	-.006	0	%100
36	MP-8	X	-.006	-.006	0	%100
37	SA2	X	-.006	-.006	0	%100
38	SF1-TH-B	X	-.006	-.006	0	%100
39	SF1-BH-B	X	-.006	-.006	0	%100
40	SF2-TH-B	X	-.002	-.002	0	%100
41	SF2-BH-B	X	-.002	-.002	0	%100
42	FP-5	X	-.001	-.001	0	%100
43	FP-6	X	-.001	-.001	0	%100
44	FP-7	X	-.001	-.001	0	%100
45	FP-8	X	-.001	-.001	0	%100
46	V1B	X	-.002	-.002	0	%100
47	V2B	X	-.002	-.002	0	%100
48	D1B	X	-.002	-.002	0	%100
49	V3B	X	-.002	-.002	0	%100
50	V4B	X	-.002	-.002	0	%100
51	D2B	X	-.002	-.002	0	%100
52	MAST-2	X	-.007	-.007	0	%100
53	FF1-TH1-G	X	0	0	0	%100
54	FF1-TH2-G	X	0	0	0	%100
55	FF1-TH3-G	X	0	0	0	%100
56	FF1-BH1-G	X	0	0	0	%100
57	FF1-BH2-G	X	0	0	0	%100
58	FF1-BH3-G	X	0	0	0	%100
59	MP-9	X	-.006	-.006	0	%100
60	MP-10	X	-.006	-.006	0	%100
61	MP-11	X	-.006	-.006	0	%100
62	MP-12	X	-.006	-.006	0	%100
63	SA3	X	-.006	-.006	0	%100
64	SF1-TH-G	X	-.002	-.002	0	%100
65	SF1-BH-G	X	-.002	-.002	0	%100
66	SF2-TH-G	X	-.003	-.003	0	%100
67	SF2-BH-G	X	-.003	-.003	0	%100
68	FP-9	X	0	0	0	%100
69	FP-10	X	0	0	0	%100
70	FP-11	X	0	0	0	%100
71	FP-12	X	0	0	0	%100
72	V1G	X	-.002	-.002	0	%100
73	V2G	X	-.002	-.002	0	%100
74	D1G	X	-.002	-.002	0	%100
75	V3G	X	-.002	-.002	0	%100
76	V4G	X	-.002	-.002	0	%100
77	D2G	X	-.002	-.002	0	%100
78	MAST-3	X	-.007	-.007	0	%100
79	FF1-TH1-A	Z	.003	.003	0	%100
80	FF1-TH2-A	Z	.003	.003	0	%100
81	FF1-TH3-A	Z	.003	.003	0	%100
82	FF1-BH1-A	Z	.003	.003	0	%100
83	FF1-BH2-A	Z	.003	.003	0	%100
84	FF1-BH3-A	Z	.003	.003	0	%100
85	MP-1	Z	.004	.004	0	%100
86	MP-2	Z	.004	.004	0	%100
87	MP-3	Z	.004	.004	0	%100
88	MP-4	Z	.004	.004	0	%100
89	SA1	Z	.004	.004	0	%100
90	SF1-TH-A	Z	.001	.001	0	%100
91	SF1-BH-A	Z	.001	.001	0	%100
92	SF2-TH-A	Z	.003	.003	0	%100
93	SF2-BH-A	Z	.003	.003	0	%100
94	FP-1	Z	.000797	.000797	0	%100
95	FP-2	Z	.000797	.000797	0	%100
96	FP-3	Z	.000797	.000797	0	%100
97	FP-4	Z	.000797	.000797	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
98	V1A	Z	.001	.001	0	%100
99	V2A	Z	.001	.001	0	%100
100	D1A	Z	.001	.001	0	%100
101	V3A	Z	.001	.001	0	%100
102	V4A	Z	.001	.001	0	%100
103	D2A	Z	.001	.001	0	%100
104	MAST-1	Z	.004	.004	0	%100
105	FF1-TH1-B	Z	.003	.003	0	%100
106	FF1-TH2-B	Z	.003	.003	0	%100
107	FF1-TH3-B	Z	.003	.003	0	%100
108	FF1-BH1-B	Z	.003	.003	0	%100
109	FF1-BH2-B	Z	.003	.003	0	%100
110	FF1-BH3-B	Z	.003	.003	0	%100
111	MP-5	Z	.004	.004	0	%100
112	MP-6	Z	.004	.004	0	%100
113	MP-7	Z	.004	.004	0	%100
114	MP-8	Z	.004	.004	0	%100
115	SA2	Z	.004	.004	0	%100
116	SF1-TH-B	Z	.003	.003	0	%100
117	SF1-BH-B	Z	.003	.003	0	%100
118	SF2-TH-B	Z	.001	.001	0	%100
119	SF2-BH-B	Z	.001	.001	0	%100
120	FP-5	Z	.000776	.000776	0	%100
121	FP-6	Z	.000776	.000776	0	%100
122	FP-7	Z	.000776	.000776	0	%100
123	FP-8	Z	.000776	.000776	0	%100
124	V1B	Z	.001	.001	0	%100
125	V2B	Z	.001	.001	0	%100
126	D1B	Z	.001	.001	0	%100
127	V3B	Z	.001	.001	0	%100
128	V4B	Z	.001	.001	0	%100
129	D2B	Z	.001	.001	0	%100
130	MAST-2	Z	.004	.004	0	%100
131	FF1-TH1-G	Z	0	0	0	%100
132	FF1-TH2-G	Z	0	0	0	%100
133	FF1-TH3-G	Z	0	0	0	%100
134	FF1-BH1-G	Z	0	0	0	%100
135	FF1-BH2-G	Z	0	0	0	%100
136	FF1-BH3-G	Z	0	0	0	%100
137	MP-9	Z	.004	.004	0	%100
138	MP-10	Z	.004	.004	0	%100
139	MP-11	Z	.004	.004	0	%100
140	MP-12	Z	.004	.004	0	%100
141	SA3	Z	.004	.004	0	%100
142	SF1-TH-G	Z	.002	.002	0	%100
143	SF1-BH-G	Z	.002	.002	0	%100
144	SF2-TH-G	Z	.001	.001	0	%100
145	SF2-BH-G	Z	.001	.001	0	%100
146	FP-9	Z	0	0	0	%100
147	FP-10	Z	0	0	0	%100
148	FP-11	Z	0	0	0	%100
149	FP-12	Z	0	0	0	%100
150	V1G	Z	.001	.001	0	%100
151	V2G	Z	.001	.001	0	%100
152	D1G	Z	.001	.001	0	%100
153	V3G	Z	.001	.001	0	%100
154	V4G	Z	.001	.001	0	%100
155	D2G	Z	.001	.001	0	%100
156	MAST-3	Z	.004	.004	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	Y	-.009	-.009	0	%100
2	FF1-TH2-A	Y	-.009	-.009	0	%100
3	FF1-TH3-A	Y	-.009	-.009	0	%100
4	FF1-BH1-A	Y	-.009	-.009	0	%100
5	FF1-BH2-A	Y	-.009	-.009	0	%100
6	FF1-BH3-A	Y	-.009	-.009	0	%100
7	MP-1	Y	-.009	-.009	0	%100
8	MP-2	Y	-.009	-.009	0	%100
9	MP-3	Y	-.009	-.009	0	%100
10	MP-4	Y	-.009	-.009	0	%100
11	SA1	Y	-.009	-.009	0	%100
12	SF1-TH-A	Y	-.009	-.009	0	%100
13	SF1-BH-A	Y	-.009	-.009	0	%100
14	SF2-TH-A	Y	-.009	-.009	0	%100
15	SF2-BH-A	Y	-.009	-.009	0	%100
16	FP-1	Y	-.007	-.007	0	%100
17	FP-2	Y	-.007	-.007	0	%100
18	FP-3	Y	-.007	-.007	0	%100
19	FP-4	Y	-.007	-.007	0	%100
20	V1A	Y	-.006	-.006	0	%100
21	V2A	Y	-.006	-.006	0	%100
22	D1A	Y	-.006	-.006	0	%100
23	V3A	Y	-.006	-.006	0	%100
24	V4A	Y	-.006	-.006	0	%100
25	D2A	Y	-.006	-.006	0	%100
26	MAST-1	Y	-.014	-.014	0	%100
27	FF1-TH1-B	Y	-.009	-.009	0	%100
28	FF1-TH2-B	Y	-.009	-.009	0	%100
29	FF1-TH3-B	Y	-.009	-.009	0	%100
30	FF1-BH1-B	Y	-.009	-.009	0	%100
31	FF1-BH2-B	Y	-.009	-.009	0	%100
32	FF1-BH3-B	Y	-.009	-.009	0	%100
33	MP-5	Y	-.009	-.009	0	%100
34	MP-6	Y	-.009	-.009	0	%100
35	MP-7	Y	-.009	-.009	0	%100
36	MP-8	Y	-.009	-.009	0	%100
37	SA2	Y	-.009	-.009	0	%100
38	SF1-TH-B	Y	-.009	-.009	0	%100
39	SF1-BH-B	Y	-.009	-.009	0	%100
40	SF2-TH-B	Y	-.009	-.009	0	%100
41	SF2-BH-B	Y	-.009	-.009	0	%100
42	FP-5	Y	-.007	-.007	0	%100
43	FP-6	Y	-.007	-.007	0	%100
44	FP-7	Y	-.007	-.007	0	%100
45	FP-8	Y	-.007	-.007	0	%100
46	V1B	Y	-.006	-.006	0	%100
47	V2B	Y	-.006	-.006	0	%100
48	D1B	Y	-.006	-.006	0	%100
49	V3B	Y	-.006	-.006	0	%100
50	V4B	Y	-.006	-.006	0	%100
51	D2B	Y	-.006	-.006	0	%100
52	MAST-2	Y	-.014	-.014	0	%100
53	FF1-TH1-G	Y	-.009	-.009	0	%100
54	FF1-TH2-G	Y	-.009	-.009	0	%100
55	FF1-TH3-G	Y	-.009	-.009	0	%100
56	FF1-BH1-G	Y	-.009	-.009	0	%100
57	FF1-BH2-G	Y	-.009	-.009	0	%100
58	FF1-BH3-G	Y	-.009	-.009	0	%100
59	MP-9	Y	-.009	-.009	0	%100
60	MP-10	Y	-.009	-.009	0	%100
61	MP-11	Y	-.009	-.009	0	%100
62	MP-12	Y	-.009	-.009	0	%100
63	SA3	Y	-.009	-.009	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	SF1-TH-G	Y	-.009	-.009	0	%100
65	SF1-BH-G	Y	-.009	-.009	0	%100
66	SF2-TH-G	Y	-.009	-.009	0	%100
67	SF2-BH-G	Y	-.009	-.009	0	%100
68	FP-9	Y	-.007	-.007	0	%100
69	FP-10	Y	-.007	-.007	0	%100
70	FP-11	Y	-.007	-.007	0	%100
71	FP-12	Y	-.007	-.007	0	%100
72	V1G	Y	-.006	-.006	0	%100
73	V2G	Y	-.006	-.006	0	%100
74	D1G	Y	-.006	-.006	0	%100
75	V3G	Y	-.006	-.006	0	%100
76	V4G	Y	-.006	-.006	0	%100
77	D2G	Y	-.006	-.006	0	%100
78	MAST-3	Y	-.014	-.014	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.003	-.003	0	%100
2	FF1-TH2-A	X	-.003	-.003	0	%100
3	FF1-TH3-A	X	-.003	-.003	0	%100
4	FF1-BH1-A	X	-.003	-.003	0	%100
5	FF1-BH2-A	X	-.003	-.003	0	%100
6	FF1-BH3-A	X	-.003	-.003	0	%100
7	MP-1	X	-.003	-.003	0	%100
8	MP-2	X	-.003	-.003	0	%100
9	MP-3	X	-.003	-.003	0	%100
10	MP-4	X	-.003	-.003	0	%100
11	SA1	X	-.003	-.003	0	%100
12	SF1-TH-A	X	-.002	-.002	0	%100
13	SF1-BH-A	X	-.002	-.002	0	%100
14	SF2-TH-A	X	-.002	-.002	0	%100
15	SF2-BH-A	X	-.002	-.002	0	%100
16	FP-1	X	-.004	-.004	0	%100
17	FP-2	X	-.004	-.004	0	%100
18	FP-3	X	-.004	-.004	0	%100
19	FP-4	X	-.004	-.004	0	%100
20	V1A	X	-.002	-.002	0	%100
21	V2A	X	-.002	-.002	0	%100
22	D1A	X	-.002	-.002	0	%100
23	V3A	X	-.002	-.002	0	%100
24	V4A	X	-.002	-.002	0	%100
25	D2A	X	-.002	-.002	0	%100
26	MAST-1	X	-.003	-.003	0	%100
27	FF1-TH1-B	X	-.003	-.003	0	%100
28	FF1-TH2-B	X	-.003	-.003	0	%100
29	FF1-TH3-B	X	-.003	-.003	0	%100
30	FF1-BH1-B	X	-.003	-.003	0	%100
31	FF1-BH2-B	X	-.003	-.003	0	%100
32	FF1-BH3-B	X	-.003	-.003	0	%100
33	MP-5	X	-.003	-.003	0	%100
34	MP-6	X	-.003	-.003	0	%100
35	MP-7	X	-.003	-.003	0	%100
36	MP-8	X	-.003	-.003	0	%100
37	SA2	X	-.003	-.003	0	%100
38	SF1-TH-B	X	-.002	-.002	0	%100
39	SF1-BH-B	X	-.002	-.002	0	%100
40	SF2-TH-B	X	-.002	-.002	0	%100
41	SF2-BH-B	X	-.002	-.002	0	%100
42	FP-5	X	-.004	-.004	0	%100
43	FP-6	X	-.004	-.004	0	%100
44	FP-7	X	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	FP-8	X	-.004	-.004	0	%100
46	V1B	X	-.002	-.002	0	%100
47	V2B	X	-.002	-.002	0	%100
48	D1B	X	-.002	-.002	0	%100
49	V3B	X	-.002	-.002	0	%100
50	V4B	X	-.002	-.002	0	%100
51	D2B	X	-.002	-.002	0	%100
52	MAST-2	X	-.003	-.003	0	%100
53	FF1-TH1-G	X	-.003	-.003	0	%100
54	FF1-TH2-G	X	-.003	-.003	0	%100
55	FF1-TH3-G	X	-.003	-.003	0	%100
56	FF1-BH1-G	X	-.003	-.003	0	%100
57	FF1-BH2-G	X	-.003	-.003	0	%100
58	FF1-BH3-G	X	-.003	-.003	0	%100
59	MP-9	X	-.003	-.003	0	%100
60	MP-10	X	-.003	-.003	0	%100
61	MP-11	X	-.003	-.003	0	%100
62	MP-12	X	-.003	-.003	0	%100
63	SA3	X	-.003	-.003	0	%100
64	SF1-TH-G	X	-.002	-.002	0	%100
65	SF1-BH-G	X	-.002	-.002	0	%100
66	SF2-TH-G	X	-.002	-.002	0	%100
67	SF2-BH-G	X	-.002	-.002	0	%100
68	FP-9	X	-.004	-.004	0	%100
69	FP-10	X	-.004	-.004	0	%100
70	FP-11	X	-.004	-.004	0	%100
71	FP-12	X	-.004	-.004	0	%100
72	V1G	X	-.002	-.002	0	%100
73	V2G	X	-.002	-.002	0	%100
74	D1G	X	-.002	-.002	0	%100
75	V3G	X	-.002	-.002	0	%100
76	V4G	X	-.002	-.002	0	%100
77	D2G	X	-.002	-.002	0	%100
78	MAST-3	X	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.003	-.003	0	%100
2	FF1-TH2-A	X	-.003	-.003	0	%100
3	FF1-TH3-A	X	-.003	-.003	0	%100
4	FF1-BH1-A	X	-.003	-.003	0	%100
5	FF1-BH2-A	X	-.003	-.003	0	%100
6	FF1-BH3-A	X	-.003	-.003	0	%100
7	MP-1	X	-.002	-.002	0	%100
8	MP-2	X	-.002	-.002	0	%100
9	MP-3	X	-.002	-.002	0	%100
10	MP-4	X	-.002	-.002	0	%100
11	SA1	X	-.002	-.002	0	%100
12	SF1-TH-A	X	-.002	-.002	0	%100
13	SF1-BH-A	X	-.002	-.002	0	%100
14	SF2-TH-A	X	-.000884	-.000884	0	%100
15	SF2-BH-A	X	-.000884	-.000884	0	%100
16	FP-1	X	-.003	-.003	0	%100
17	FP-2	X	-.003	-.003	0	%100
18	FP-3	X	-.003	-.003	0	%100
19	FP-4	X	-.003	-.003	0	%100
20	V1A	X	-.001	-.001	0	%100
21	V2A	X	-.001	-.001	0	%100
22	D1A	X	-.002	-.002	0	%100
23	V3A	X	-.001	-.001	0	%100
24	V4A	X	-.001	-.001	0	%100
25	D2A	X	-.002	-.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	MAST-1	X	-.003	-.003	0	%100
27	FF1-TH1-B	X	0	0	0	%100
28	FF1-TH2-B	X	0	0	0	%100
29	FF1-TH3-B	X	0	0	0	%100
30	FF1-BH1-B	X	0	0	0	%100
31	FF1-BH2-B	X	0	0	0	%100
32	FF1-BH3-B	X	0	0	0	%100
33	MP-5	X	-.002	-.002	0	%100
34	MP-6	X	-.002	-.002	0	%100
35	MP-7	X	-.002	-.002	0	%100
36	MP-8	X	-.002	-.002	0	%100
37	SA2	X	-.002	-.002	0	%100
38	SF1-TH-B	X	-.001	-.001	0	%100
39	SF1-BH-B	X	-.001	-.001	0	%100
40	SF2-TH-B	X	-.001	-.001	0	%100
41	SF2-BH-B	X	-.001	-.001	0	%100
42	FP-5	X	0	0	0	%100
43	FP-6	X	0	0	0	%100
44	FP-7	X	0	0	0	%100
45	FP-8	X	0	0	0	%100
46	V1B	X	-.001	-.001	0	%100
47	V2B	X	-.001	-.001	0	%100
48	D1B	X	-.002	-.002	0	%100
49	V3B	X	-.001	-.001	0	%100
50	V4B	X	-.001	-.001	0	%100
51	D2B	X	-.002	-.002	0	%100
52	MAST-2	X	-.003	-.003	0	%100
53	FF1-TH1-G	X	-.002	-.002	0	%100
54	FF1-TH2-G	X	-.002	-.002	0	%100
55	FF1-TH3-G	X	-.002	-.002	0	%100
56	FF1-BH1-G	X	-.002	-.002	0	%100
57	FF1-BH2-G	X	-.002	-.002	0	%100
58	FF1-BH3-G	X	-.002	-.002	0	%100
59	MP-9	X	-.002	-.002	0	%100
60	MP-10	X	-.002	-.002	0	%100
61	MP-11	X	-.002	-.002	0	%100
62	MP-12	X	-.002	-.002	0	%100
63	SA3	X	-.002	-.002	0	%100
64	SF1-TH-G	X	-.000757	-.000757	0	%100
65	SF1-BH-G	X	-.000757	-.000757	0	%100
66	SF2-TH-G	X	-.002	-.002	0	%100
67	SF2-BH-G	X	-.002	-.002	0	%100
68	FP-9	X	-.003	-.003	0	%100
69	FP-10	X	-.003	-.003	0	%100
70	FP-11	X	-.003	-.003	0	%100
71	FP-12	X	-.003	-.003	0	%100
72	V1G	X	-.001	-.001	0	%100
73	V2G	X	-.001	-.001	0	%100
74	D1G	X	-.002	-.002	0	%100
75	V3G	X	-.001	-.001	0	%100
76	V4G	X	-.001	-.001	0	%100
77	D2G	X	-.002	-.002	0	%100
78	MAST-3	X	-.003	-.003	0	%100
79	FF1-TH1-A	Z	-.001	-.001	0	%100
80	FF1-TH2-A	Z	-.001	-.001	0	%100
81	FF1-TH3-A	Z	-.001	-.001	0	%100
82	FF1-BH1-A	Z	-.001	-.001	0	%100
83	FF1-BH2-A	Z	-.001	-.001	0	%100
84	FF1-BH3-A	Z	-.001	-.001	0	%100
85	MP-1	Z	-.002	-.002	0	%100
86	MP-2	Z	-.002	-.002	0	%100
87	MP-3	Z	-.002	-.002	0	%100
88	MP-4	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
89	SA1	Z	-.001	-.001	0	%100
90	SF1-TH-A	Z	-.001	-.001	0	%100
91	SF1-BH-A	Z	-.001	-.001	0	%100
92	SF2-TH-A	Z	-.000481	-.000481	0	%100
93	SF2-BH-A	Z	-.000481	-.000481	0	%100
94	FP-1	Z	-.002	-.002	0	%100
95	FP-2	Z	-.002	-.002	0	%100
96	FP-3	Z	-.002	-.002	0	%100
97	FP-4	Z	-.002	-.002	0	%100
98	V1A	Z	-.00094	-.00094	0	%100
99	V2A	Z	-.00094	-.00094	0	%100
100	D1A	Z	-.001	-.001	0	%100
101	V3A	Z	-.00094	-.00094	0	%100
102	V4A	Z	-.00094	-.00094	0	%100
103	D2A	Z	-.001	-.001	0	%100
104	MAST-1	Z	-.002	-.002	0	%100
105	FF1-TH1-B	Z	0	0	0	%100
106	FF1-TH2-B	Z	0	0	0	%100
107	FF1-TH3-B	Z	0	0	0	%100
108	FF1-BH1-B	Z	0	0	0	%100
109	FF1-BH2-B	Z	0	0	0	%100
110	FF1-BH3-B	Z	0	0	0	%100
111	MP-5	Z	-.002	-.002	0	%100
112	MP-6	Z	-.002	-.002	0	%100
113	MP-7	Z	-.002	-.002	0	%100
114	MP-8	Z	-.002	-.002	0	%100
115	SA2	Z	-.001	-.001	0	%100
116	SF1-TH-B	Z	-.000635	-.000635	0	%100
117	SF1-BH-B	Z	-.000635	-.000635	0	%100
118	SF2-TH-B	Z	-.000731	-.000731	0	%100
119	SF2-BH-B	Z	-.000731	-.000731	0	%100
120	FP-5	Z	0	0	0	%100
121	FP-6	Z	0	0	0	%100
122	FP-7	Z	0	0	0	%100
123	FP-8	Z	0	0	0	%100
124	V1B	Z	-.00094	-.00094	0	%100
125	V2B	Z	-.00094	-.00094	0	%100
126	D1B	Z	-.001	-.001	0	%100
127	V3B	Z	-.00094	-.00094	0	%100
128	V4B	Z	-.00094	-.00094	0	%100
129	D2B	Z	-.001	-.001	0	%100
130	MAST-2	Z	-.002	-.002	0	%100
131	FF1-TH1-G	Z	-.001	-.001	0	%100
132	FF1-TH2-G	Z	-.001	-.001	0	%100
133	FF1-TH3-G	Z	-.001	-.001	0	%100
134	FF1-BH1-G	Z	-.001	-.001	0	%100
135	FF1-BH2-G	Z	-.001	-.001	0	%100
136	FF1-BH3-G	Z	-.001	-.001	0	%100
137	MP-9	Z	-.002	-.002	0	%100
138	MP-10	Z	-.002	-.002	0	%100
139	MP-11	Z	-.002	-.002	0	%100
140	MP-12	Z	-.002	-.002	0	%100
141	SA3	Z	-.001	-.001	0	%100
142	SF1-TH-G	Z	-.000532	-.000532	0	%100
143	SF1-BH-G	Z	-.000532	-.000532	0	%100
144	SF2-TH-G	Z	-.001	-.001	0	%100
145	SF2-BH-G	Z	-.001	-.001	0	%100
146	FP-9	Z	-.002	-.002	0	%100
147	FP-10	Z	-.002	-.002	0	%100
148	FP-11	Z	-.002	-.002	0	%100
149	FP-12	Z	-.002	-.002	0	%100
150	V1G	Z	-.00094	-.00094	0	%100
151	V2G	Z	-.00094	-.00094	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
152	D1G	Z	-.001	-.001	0	%100
153	V3G	Z	-.00094	-.00094	0	%100
154	V4G	Z	-.00094	-.00094	0	%100
155	D2G	Z	-.001	-.001	0	%100
156	MAST-3	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.002	-.002	0	%100
2	FF1-TH2-A	X	-.002	-.002	0	%100
3	FF1-TH3-A	X	-.002	-.002	0	%100
4	FF1-BH1-A	X	-.002	-.002	0	%100
5	FF1-BH2-A	X	-.002	-.002	0	%100
6	FF1-BH3-A	X	-.002	-.002	0	%100
7	MP-1	X	-.002	-.002	0	%100
8	MP-2	X	-.002	-.002	0	%100
9	MP-3	X	-.002	-.002	0	%100
10	MP-4	X	-.002	-.002	0	%100
11	SA1	X	-.002	-.002	0	%100
12	SF1-TH-A	X	-.002	-.002	0	%100
13	SF1-BH-A	X	-.002	-.002	0	%100
14	SF2-TH-A	X	-.000293	-.000293	0	%100
15	SF2-BH-A	X	-.000293	-.000293	0	%100
16	FP-1	X	-.002	-.002	0	%100
17	FP-2	X	-.002	-.002	0	%100
18	FP-3	X	-.002	-.002	0	%100
19	FP-4	X	-.002	-.002	0	%100
20	V1A	X	-.001	-.001	0	%100
21	V2A	X	-.001	-.001	0	%100
22	D1A	X	-.001	-.001	0	%100
23	V3A	X	-.001	-.001	0	%100
24	V4A	X	-.001	-.001	0	%100
25	D2A	X	-.001	-.001	0	%100
26	MAST-1	X	-.002	-.002	0	%100
27	FF1-TH1-B	X	-.000521	-.000521	0	%100
28	FF1-TH2-B	X	-.000521	-.000521	0	%100
29	FF1-TH3-B	X	-.000521	-.000521	0	%100
30	FF1-BH1-B	X	-.000521	-.000521	0	%100
31	FF1-BH2-B	X	-.000521	-.000521	0	%100
32	FF1-BH3-B	X	-.000521	-.000521	0	%100
33	MP-5	X	-.002	-.002	0	%100
34	MP-6	X	-.002	-.002	0	%100
35	MP-7	X	-.002	-.002	0	%100
36	MP-8	X	-.002	-.002	0	%100
37	SA2	X	-.002	-.002	0	%100
38	SF1-TH-B	X	-.000607	-.000607	0	%100
39	SF1-BH-B	X	-.000607	-.000607	0	%100
40	SF2-TH-B	X	-.001	-.001	0	%100
41	SF2-BH-B	X	-.001	-.001	0	%100
42	FP-5	X	-.000784	-.000784	0	%100
43	FP-6	X	-.000784	-.000784	0	%100
44	FP-7	X	-.000784	-.000784	0	%100
45	FP-8	X	-.000784	-.000784	0	%100
46	V1B	X	-.001	-.001	0	%100
47	V2B	X	-.001	-.001	0	%100
48	D1B	X	-.001	-.001	0	%100
49	V3B	X	-.001	-.001	0	%100
50	V4B	X	-.001	-.001	0	%100
51	D2B	X	-.001	-.001	0	%100
52	MAST-2	X	-.002	-.002	0	%100
53	FF1-TH1-G	X	-.002	-.002	0	%100
54	FF1-TH2-G	X	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
55	FF1-TH3-G	X	-.002	-.002	0	%100
56	FF1-BH1-G	X	-.002	-.002	0	%100
57	FF1-BH2-G	X	-.002	-.002	0	%100
58	FF1-BH3-G	X	-.002	-.002	0	%100
59	MP-9	X	-.002	-.002	0	%100
60	MP-10	X	-.002	-.002	0	%100
61	MP-11	X	-.002	-.002	0	%100
62	MP-12	X	-.002	-.002	0	%100
63	SA3	X	-.002	-.002	0	%100
64	SF1-TH-G	X	-.000943	-.000943	0	%100
65	SF1-BH-G	X	-.000943	-.000943	0	%100
66	SF2-TH-G	X	-.002	-.002	0	%100
67	SF2-BH-G	X	-.002	-.002	0	%100
68	FP-9	X	-.003	-.003	0	%100
69	FP-10	X	-.003	-.003	0	%100
70	FP-11	X	-.003	-.003	0	%100
71	FP-12	X	-.003	-.003	0	%100
72	V1G	X	-.001	-.001	0	%100
73	V2G	X	-.001	-.001	0	%100
74	D1G	X	-.001	-.001	0	%100
75	V3G	X	-.001	-.001	0	%100
76	V4G	X	-.001	-.001	0	%100
77	D2G	X	-.001	-.001	0	%100
78	MAST-3	X	-.002	-.002	0	%100
79	FF1-TH1-A	Z	-.002	-.002	0	%100
80	FF1-TH2-A	Z	-.002	-.002	0	%100
81	FF1-TH3-A	Z	-.002	-.002	0	%100
82	FF1-BH1-A	Z	-.002	-.002	0	%100
83	FF1-BH2-A	Z	-.002	-.002	0	%100
84	FF1-BH3-A	Z	-.002	-.002	0	%100
85	MP-1	Z	-.002	-.002	0	%100
86	MP-2	Z	-.002	-.002	0	%100
87	MP-3	Z	-.002	-.002	0	%100
88	MP-4	Z	-.002	-.002	0	%100
89	SA1	Z	-.002	-.002	0	%100
90	SF1-TH-A	Z	-.002	-.002	0	%100
91	SF1-BH-A	Z	-.002	-.002	0	%100
92	SF2-TH-A	Z	-.000276	-.000276	0	%100
93	SF2-BH-A	Z	-.000276	-.000276	0	%100
94	FP-1	Z	-.002	-.002	0	%100
95	FP-2	Z	-.002	-.002	0	%100
96	FP-3	Z	-.002	-.002	0	%100
97	FP-4	Z	-.002	-.002	0	%100
98	V1A	Z	-.001	-.001	0	%100
99	V2A	Z	-.001	-.001	0	%100
100	D1A	Z	-.001	-.001	0	%100
101	V3A	Z	-.001	-.001	0	%100
102	V4A	Z	-.001	-.001	0	%100
103	D2A	Z	-.001	-.001	0	%100
104	MAST-1	Z	-.002	-.002	0	%100
105	FF1-TH1-B	Z	-.000625	-.000625	0	%100
106	FF1-TH2-B	Z	-.000625	-.000625	0	%100
107	FF1-TH3-B	Z	-.000625	-.000625	0	%100
108	FF1-BH1-B	Z	-.000625	-.000625	0	%100
109	FF1-BH2-B	Z	-.000625	-.000625	0	%100
110	FF1-BH3-B	Z	-.000625	-.000625	0	%100
111	MP-5	Z	-.002	-.002	0	%100
112	MP-6	Z	-.002	-.002	0	%100
113	MP-7	Z	-.002	-.002	0	%100
114	MP-8	Z	-.002	-.002	0	%100
115	SA2	Z	-.002	-.002	0	%100
116	SF1-TH-B	Z	-.000538	-.000538	0	%100
117	SF1-BH-B	Z	-.000538	-.000538	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
118	SF2-TH-B	Z	-.001	-.001	0	%100
119	SF2-BH-B	Z	-.001	-.001	0	%100
120	FP-5	Z	-.000784	-.000784	0	%100
121	FP-6	Z	-.000784	-.000784	0	%100
122	FP-7	Z	-.000784	-.000784	0	%100
123	FP-8	Z	-.000784	-.000784	0	%100
124	V1B	Z	-.001	-.001	0	%100
125	V2B	Z	-.001	-.001	0	%100
126	D1B	Z	-.001	-.001	0	%100
127	V3B	Z	-.001	-.001	0	%100
128	V4B	Z	-.001	-.001	0	%100
129	D2B	Z	-.001	-.001	0	%100
130	MAST-2	Z	-.002	-.002	0	%100
131	FF1-TH1-G	Z	-.002	-.002	0	%100
132	FF1-TH2-G	Z	-.002	-.002	0	%100
133	FF1-TH3-G	Z	-.002	-.002	0	%100
134	FF1-BH1-G	Z	-.002	-.002	0	%100
135	FF1-BH2-G	Z	-.002	-.002	0	%100
136	FF1-BH3-G	Z	-.002	-.002	0	%100
137	MP-9	Z	-.002	-.002	0	%100
138	MP-10	Z	-.002	-.002	0	%100
139	MP-11	Z	-.002	-.002	0	%100
140	MP-12	Z	-.002	-.002	0	%100
141	SA3	Z	-.002	-.002	0	%100
142	SF1-TH-G	Z	-.001	-.001	0	%100
143	SF1-BH-G	Z	-.001	-.001	0	%100
144	SF2-TH-G	Z	-.001	-.001	0	%100
145	SF2-BH-G	Z	-.001	-.001	0	%100
146	FP-9	Z	-.003	-.003	0	%100
147	FP-10	Z	-.003	-.003	0	%100
148	FP-11	Z	-.003	-.003	0	%100
149	FP-12	Z	-.003	-.003	0	%100
150	V1G	Z	-.001	-.001	0	%100
151	V2G	Z	-.001	-.001	0	%100
152	D1G	Z	-.001	-.001	0	%100
153	V3G	Z	-.001	-.001	0	%100
154	V4G	Z	-.001	-.001	0	%100
155	D2G	Z	-.001	-.001	0	%100
156	MAST-3	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.000853	-.000853	0	%100
2	FF1-TH2-A	X	-.000853	-.000853	0	%100
3	FF1-TH3-A	X	-.000853	-.000853	0	%100
4	FF1-BH1-A	X	-.000853	-.000853	0	%100
5	FF1-BH2-A	X	-.000853	-.000853	0	%100
6	FF1-BH3-A	X	-.000853	-.000853	0	%100
7	MP-1	X	-.001	-.001	0	%100
8	MP-2	X	-.001	-.001	0	%100
9	MP-3	X	-.001	-.001	0	%100
10	MP-4	X	-.001	-.001	0	%100
11	SA1	X	-.001	-.001	0	%100
12	SF1-TH-A	X	-.001	-.001	0	%100
13	SF1-BH-A	X	-.001	-.001	0	%100
14	SF2-TH-A	X	-.000111	-.000111	0	%100
15	SF2-BH-A	X	-.000111	-.000111	0	%100
16	FP-1	X	-.001	-.001	0	%100
17	FP-2	X	-.001	-.001	0	%100
18	FP-3	X	-.001	-.001	0	%100
19	FP-4	X	-.001	-.001	0	%100
20	V1A	X	-.000846	-.000846	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	V2A	X	-.000846	-.000846	0	%100
22	D1A	X	-.000923	-.000923	0	%100
23	V3A	X	-.000846	-.000846	0	%100
24	V4A	X	-.000846	-.000846	0	%100
25	D2A	X	-.000923	-.000923	0	%100
26	MAST-1	X	-.002	-.002	0	%100
27	FF1-TH1-B	X	-.000712	-.000712	0	%100
28	FF1-TH2-B	X	-.000712	-.000712	0	%100
29	FF1-TH3-B	X	-.000712	-.000712	0	%100
30	FF1-BH1-B	X	-.000712	-.000712	0	%100
31	FF1-BH2-B	X	-.000712	-.000712	0	%100
32	FF1-BH3-B	X	-.000712	-.000712	0	%100
33	MP-5	X	-.001	-.001	0	%100
34	MP-6	X	-.001	-.001	0	%100
35	MP-7	X	-.001	-.001	0	%100
36	MP-8	X	-.001	-.001	0	%100
37	SA2	X	-.001	-.001	0	%100
38	SF1-TH-B	X	-.000113	-.000113	0	%100
39	SF1-BH-B	X	-.000113	-.000113	0	%100
40	SF2-TH-B	X	-.000946	-.000946	0	%100
41	SF2-BH-B	X	-.000946	-.000946	0	%100
42	FP-5	X	-.001	-.001	0	%100
43	FP-6	X	-.001	-.001	0	%100
44	FP-7	X	-.001	-.001	0	%100
45	FP-8	X	-.001	-.001	0	%100
46	V1B	X	-.000846	-.000846	0	%100
47	V2B	X	-.000846	-.000846	0	%100
48	D1B	X	-.000923	-.000923	0	%100
49	V3B	X	-.000846	-.000846	0	%100
50	V4B	X	-.000846	-.000846	0	%100
51	D2B	X	-.000923	-.000923	0	%100
52	MAST-2	X	-.002	-.002	0	%100
53	FF1-TH1-G	X	-.001	-.001	0	%100
54	FF1-TH2-G	X	-.001	-.001	0	%100
55	FF1-TH3-G	X	-.001	-.001	0	%100
56	FF1-BH1-G	X	-.001	-.001	0	%100
57	FF1-BH2-G	X	-.001	-.001	0	%100
58	FF1-BH3-G	X	-.001	-.001	0	%100
59	MP-9	X	-.001	-.001	0	%100
60	MP-10	X	-.001	-.001	0	%100
61	MP-11	X	-.001	-.001	0	%100
62	MP-12	X	-.001	-.001	0	%100
63	SA3	X	-.001	-.001	0	%100
64	SF1-TH-G	X	-.000852	-.000852	0	%100
65	SF1-BH-G	X	-.000852	-.000852	0	%100
66	SF2-TH-G	X	-.001	-.001	0	%100
67	SF2-BH-G	X	-.001	-.001	0	%100
68	FP-9	X	-.002	-.002	0	%100
69	FP-10	X	-.002	-.002	0	%100
70	FP-11	X	-.002	-.002	0	%100
71	FP-12	X	-.002	-.002	0	%100
72	V1G	X	-.000846	-.000846	0	%100
73	V2G	X	-.000846	-.000846	0	%100
74	D1G	X	-.000923	-.000923	0	%100
75	V3G	X	-.000846	-.000846	0	%100
76	V4G	X	-.000846	-.000846	0	%100
77	D2G	X	-.000923	-.000923	0	%100
78	MAST-3	X	-.002	-.002	0	%100
79	FF1-TH1-A	Z	-.001	-.001	0	%100
80	FF1-TH2-A	Z	-.001	-.001	0	%100
81	FF1-TH3-A	Z	-.001	-.001	0	%100
82	FF1-BH1-A	Z	-.001	-.001	0	%100
83	FF1-BH2-A	Z	-.001	-.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
84	FF1-BH3-A	Z	-.001	-.001	0	%100
85	MP-1	Z	-.003	-.003	0	%100
86	MP-2	Z	-.003	-.003	0	%100
87	MP-3	Z	-.003	-.003	0	%100
88	MP-4	Z	-.003	-.003	0	%100
89	SA1	Z	-.002	-.002	0	%100
90	SF1-TH-A	Z	-.002	-.002	0	%100
91	SF1-BH-A	Z	-.002	-.002	0	%100
92	SF2-TH-A	Z	-.00018	-.00018	0	%100
93	SF2-BH-A	Z	-.00018	-.00018	0	%100
94	FP-1	Z	-.002	-.002	0	%100
95	FP-2	Z	-.002	-.002	0	%100
96	FP-3	Z	-.002	-.002	0	%100
97	FP-4	Z	-.002	-.002	0	%100
98	V1A	Z	-.002	-.002	0	%100
99	V2A	Z	-.002	-.002	0	%100
100	D1A	Z	-.002	-.002	0	%100
101	V3A	Z	-.002	-.002	0	%100
102	V4A	Z	-.002	-.002	0	%100
103	D2A	Z	-.002	-.002	0	%100
104	MAST-1	Z	-.003	-.003	0	%100
105	FF1-TH1-B	Z	-.001	-.001	0	%100
106	FF1-TH2-B	Z	-.001	-.001	0	%100
107	FF1-TH3-B	Z	-.001	-.001	0	%100
108	FF1-BH1-B	Z	-.001	-.001	0	%100
109	FF1-BH2-B	Z	-.001	-.001	0	%100
110	FF1-BH3-B	Z	-.001	-.001	0	%100
111	MP-5	Z	-.003	-.003	0	%100
112	MP-6	Z	-.003	-.003	0	%100
113	MP-7	Z	-.003	-.003	0	%100
114	MP-8	Z	-.003	-.003	0	%100
115	SA2	Z	-.002	-.002	0	%100
116	SF1-TH-B	Z	-.000173	-.000173	0	%100
117	SF1-BH-B	Z	-.000173	-.000173	0	%100
118	SF2-TH-B	Z	-.002	-.002	0	%100
119	SF2-BH-B	Z	-.002	-.002	0	%100
120	FP-5	Z	-.002	-.002	0	%100
121	FP-6	Z	-.002	-.002	0	%100
122	FP-7	Z	-.002	-.002	0	%100
123	FP-8	Z	-.002	-.002	0	%100
124	V1B	Z	-.002	-.002	0	%100
125	V2B	Z	-.002	-.002	0	%100
126	D1B	Z	-.002	-.002	0	%100
127	V3B	Z	-.002	-.002	0	%100
128	V4B	Z	-.002	-.002	0	%100
129	D2B	Z	-.002	-.002	0	%100
130	MAST-2	Z	-.003	-.003	0	%100
131	FF1-TH1-G	Z	-.003	-.003	0	%100
132	FF1-TH2-G	Z	-.003	-.003	0	%100
133	FF1-TH3-G	Z	-.003	-.003	0	%100
134	FF1-BH1-G	Z	-.003	-.003	0	%100
135	FF1-BH2-G	Z	-.003	-.003	0	%100
136	FF1-BH3-G	Z	-.003	-.003	0	%100
137	MP-9	Z	-.003	-.003	0	%100
138	MP-10	Z	-.003	-.003	0	%100
139	MP-11	Z	-.003	-.003	0	%100
140	MP-12	Z	-.003	-.003	0	%100
141	SA3	Z	-.002	-.002	0	%100
142	SF1-TH-G	Z	-.002	-.002	0	%100
143	SF1-BH-G	Z	-.002	-.002	0	%100
144	SF2-TH-G	Z	-.002	-.002	0	%100
145	SF2-BH-G	Z	-.002	-.002	0	%100
146	FP-9	Z	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
147	FP-10	Z	-.004	-.004	0	%100
148	FP-11	Z	-.004	-.004	0	%100
149	FP-12	Z	-.004	-.004	0	%100
150	V1G	Z	-.002	-.002	0	%100
151	V2G	Z	-.002	-.002	0	%100
152	D1G	Z	-.002	-.002	0	%100
153	V3G	Z	-.002	-.002	0	%100
154	V4G	Z	-.002	-.002	0	%100
155	D2G	Z	-.002	-.002	0	%100
156	MAST-3	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	Z	0	0	0	%100
2	FF1-TH2-A	Z	0	0	0	%100
3	FF1-TH3-A	Z	0	0	0	%100
4	FF1-BH1-A	Z	0	0	0	%100
5	FF1-BH2-A	Z	0	0	0	%100
6	FF1-BH3-A	Z	0	0	0	%100
7	MP-1	Z	-.003	-.003	0	%100
8	MP-2	Z	-.003	-.003	0	%100
9	MP-3	Z	-.003	-.003	0	%100
10	MP-4	Z	-.003	-.003	0	%100
11	SA1	Z	-.003	-.003	0	%100
12	SF1-TH-A	Z	-.001	-.001	0	%100
13	SF1-BH-A	Z	-.001	-.001	0	%100
14	SF2-TH-A	Z	-.001	-.001	0	%100
15	SF2-BH-A	Z	-.001	-.001	0	%100
16	FP-1	Z	0	0	0	%100
17	FP-2	Z	0	0	0	%100
18	FP-3	Z	0	0	0	%100
19	FP-4	Z	0	0	0	%100
20	V1A	Z	-.002	-.002	0	%100
21	V2A	Z	-.002	-.002	0	%100
22	D1A	Z	-.002	-.002	0	%100
23	V3A	Z	-.002	-.002	0	%100
24	V4A	Z	-.002	-.002	0	%100
25	D2A	Z	-.002	-.002	0	%100
26	MAST-1	Z	-.004	-.004	0	%100
27	FF1-TH1-B	Z	-.003	-.003	0	%100
28	FF1-TH2-B	Z	-.003	-.003	0	%100
29	FF1-TH3-B	Z	-.003	-.003	0	%100
30	FF1-BH1-B	Z	-.003	-.003	0	%100
31	FF1-BH2-B	Z	-.003	-.003	0	%100
32	FF1-BH3-B	Z	-.003	-.003	0	%100
33	MP-5	Z	-.003	-.003	0	%100
34	MP-6	Z	-.003	-.003	0	%100
35	MP-7	Z	-.003	-.003	0	%100
36	MP-8	Z	-.003	-.003	0	%100
37	SA2	Z	-.003	-.003	0	%100
38	SF1-TH-B	Z	-.000923	-.000923	0	%100
39	SF1-BH-B	Z	-.000923	-.000923	0	%100
40	SF2-TH-B	Z	-.003	-.003	0	%100
41	SF2-BH-B	Z	-.003	-.003	0	%100
42	FP-5	Z	-.004	-.004	0	%100
43	FP-6	Z	-.004	-.004	0	%100
44	FP-7	Z	-.004	-.004	0	%100
45	FP-8	Z	-.004	-.004	0	%100
46	V1B	Z	-.002	-.002	0	%100
47	V2B	Z	-.002	-.002	0	%100
48	D1B	Z	-.002	-.002	0	%100
49	V3B	Z	-.002	-.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
50	V4B	Z	-.002	-.002	0	%100
51	D2B	Z	-.002	-.002	0	%100
52	MAST-2	Z	-.004	-.004	0	%100
53	FF1-TH1-G	Z	-.003	-.003	0	%100
54	FF1-TH2-G	Z	-.003	-.003	0	%100
55	FF1-TH3-G	Z	-.003	-.003	0	%100
56	FF1-BH1-G	Z	-.003	-.003	0	%100
57	FF1-BH2-G	Z	-.003	-.003	0	%100
58	FF1-BH3-G	Z	-.003	-.003	0	%100
59	MP-9	Z	-.003	-.003	0	%100
60	MP-10	Z	-.003	-.003	0	%100
61	MP-11	Z	-.003	-.003	0	%100
62	MP-12	Z	-.003	-.003	0	%100
63	SA3	Z	-.003	-.003	0	%100
64	SF1-TH-G	Z	-.003	-.003	0	%100
65	SF1-BH-G	Z	-.003	-.003	0	%100
66	SF2-TH-G	Z	-.000923	-.000923	0	%100
67	SF2-BH-G	Z	-.000923	-.000923	0	%100
68	FP-9	Z	-.004	-.004	0	%100
69	FP-10	Z	-.004	-.004	0	%100
70	FP-11	Z	-.004	-.004	0	%100
71	FP-12	Z	-.004	-.004	0	%100
72	V1G	Z	-.002	-.002	0	%100
73	V2G	Z	-.002	-.002	0	%100
74	D1G	Z	-.002	-.002	0	%100
75	V3G	Z	-.002	-.002	0	%100
76	V4G	Z	-.002	-.002	0	%100
77	D2G	Z	-.002	-.002	0	%100
78	MAST-3	Z	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.000853	.000853	0	%100
2	FF1-TH2-A	X	.000853	.000853	0	%100
3	FF1-TH3-A	X	.000853	.000853	0	%100
4	FF1-BH1-A	X	.000853	.000853	0	%100
5	FF1-BH2-A	X	.000853	.000853	0	%100
6	FF1-BH3-A	X	.000853	.000853	0	%100
7	MP-1	X	.001	.001	0	%100
8	MP-2	X	.001	.001	0	%100
9	MP-3	X	.001	.001	0	%100
10	MP-4	X	.001	.001	0	%100
11	SA1	X	.001	.001	0	%100
12	SF1-TH-A	X	.000111	.000111	0	%100
13	SF1-BH-A	X	.000111	.000111	0	%100
14	SF2-TH-A	X	.001	.001	0	%100
15	SF2-BH-A	X	.001	.001	0	%100
16	FP-1	X	.001	.001	0	%100
17	FP-2	X	.001	.001	0	%100
18	FP-3	X	.001	.001	0	%100
19	FP-4	X	.001	.001	0	%100
20	V1A	X	.000846	.000846	0	%100
21	V2A	X	.000846	.000846	0	%100
22	D1A	X	.000923	.000923	0	%100
23	V3A	X	.000846	.000846	0	%100
24	V4A	X	.000846	.000846	0	%100
25	D2A	X	.000923	.000923	0	%100
26	MAST-1	X	.002	.002	0	%100
27	FF1-TH1-B	X	.001	.001	0	%100
28	FF1-TH2-B	X	.001	.001	0	%100
29	FF1-TH3-B	X	.001	.001	0	%100
30	FF1-BH1-B	X	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	FF1-BH2-B	X	.001	.001	0	%100
32	FF1-BH3-B	X	.001	.001	0	%100
33	MP-5	X	.001	.001	0	%100
34	MP-6	X	.001	.001	0	%100
35	MP-7	X	.001	.001	0	%100
36	MP-8	X	.001	.001	0	%100
37	SA2	X	.001	.001	0	%100
38	SF1-TH-B	X	.001	.001	0	%100
39	SF1-BH-B	X	.001	.001	0	%100
40	SF2-TH-B	X	.000852	.000852	0	%100
41	SF2-BH-B	X	.000852	.000852	0	%100
42	FP-5	X	.002	.002	0	%100
43	FP-6	X	.002	.002	0	%100
44	FP-7	X	.002	.002	0	%100
45	FP-8	X	.002	.002	0	%100
46	V1B	X	.000846	.000846	0	%100
47	V2B	X	.000846	.000846	0	%100
48	D1B	X	.000923	.000923	0	%100
49	V3B	X	.000846	.000846	0	%100
50	V4B	X	.000846	.000846	0	%100
51	D2B	X	.000923	.000923	0	%100
52	MAST-2	X	.002	.002	0	%100
53	FF1-TH1-G	X	.000712	.000712	0	%100
54	FF1-TH2-G	X	.000712	.000712	0	%100
55	FF1-TH3-G	X	.000712	.000712	0	%100
56	FF1-BH1-G	X	.000712	.000712	0	%100
57	FF1-BH2-G	X	.000712	.000712	0	%100
58	FF1-BH3-G	X	.000712	.000712	0	%100
59	MP-9	X	.001	.001	0	%100
60	MP-10	X	.001	.001	0	%100
61	MP-11	X	.001	.001	0	%100
62	MP-12	X	.001	.001	0	%100
63	SA3	X	.001	.001	0	%100
64	SF1-TH-G	X	.000946	.000946	0	%100
65	SF1-BH-G	X	.000946	.000946	0	%100
66	SF2-TH-G	X	.000113	.000113	0	%100
67	SF2-BH-G	X	.000113	.000113	0	%100
68	FP-9	X	.001	.001	0	%100
69	FP-10	X	.001	.001	0	%100
70	FP-11	X	.001	.001	0	%100
71	FP-12	X	.001	.001	0	%100
72	V1G	X	.000846	.000846	0	%100
73	V2G	X	.000846	.000846	0	%100
74	D1G	X	.000923	.000923	0	%100
75	V3G	X	.000846	.000846	0	%100
76	V4G	X	.000846	.000846	0	%100
77	D2G	X	.000923	.000923	0	%100
78	MAST-3	X	.002	.002	0	%100
79	FF1-TH1-A	Z	-.001	-.001	0	%100
80	FF1-TH2-A	Z	-.001	-.001	0	%100
81	FF1-TH3-A	Z	-.001	-.001	0	%100
82	FF1-BH1-A	Z	-.001	-.001	0	%100
83	FF1-BH2-A	Z	-.001	-.001	0	%100
84	FF1-BH3-A	Z	-.001	-.001	0	%100
85	MP-1	Z	-.003	-.003	0	%100
86	MP-2	Z	-.003	-.003	0	%100
87	MP-3	Z	-.003	-.003	0	%100
88	MP-4	Z	-.003	-.003	0	%100
89	SA1	Z	-.002	-.002	0	%100
90	SF1-TH-A	Z	-.00018	-.00018	0	%100
91	SF1-BH-A	Z	-.00018	-.00018	0	%100
92	SF2-TH-A	Z	-.002	-.002	0	%100
93	SF2-BH-A	Z	-.002	-.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
94	FP-1	Z	-.002	-.002	0	%100
95	FP-2	Z	-.002	-.002	0	%100
96	FP-3	Z	-.002	-.002	0	%100
97	FP-4	Z	-.002	-.002	0	%100
98	V1A	Z	-.002	-.002	0	%100
99	V2A	Z	-.002	-.002	0	%100
100	D1A	Z	-.002	-.002	0	%100
101	V3A	Z	-.002	-.002	0	%100
102	V4A	Z	-.002	-.002	0	%100
103	D2A	Z	-.002	-.002	0	%100
104	MAST-1	Z	-.003	-.003	0	%100
105	FF1-TH1-B	Z	-.003	-.003	0	%100
106	FF1-TH2-B	Z	-.003	-.003	0	%100
107	FF1-TH3-B	Z	-.003	-.003	0	%100
108	FF1-BH1-B	Z	-.003	-.003	0	%100
109	FF1-BH2-B	Z	-.003	-.003	0	%100
110	FF1-BH3-B	Z	-.003	-.003	0	%100
111	MP-5	Z	-.003	-.003	0	%100
112	MP-6	Z	-.003	-.003	0	%100
113	MP-7	Z	-.003	-.003	0	%100
114	MP-8	Z	-.003	-.003	0	%100
115	SA2	Z	-.002	-.002	0	%100
116	SF1-TH-B	Z	-.002	-.002	0	%100
117	SF1-BH-B	Z	-.002	-.002	0	%100
118	SF2-TH-B	Z	-.002	-.002	0	%100
119	SF2-BH-B	Z	-.002	-.002	0	%100
120	FP-5	Z	-.004	-.004	0	%100
121	FP-6	Z	-.004	-.004	0	%100
122	FP-7	Z	-.004	-.004	0	%100
123	FP-8	Z	-.004	-.004	0	%100
124	V1B	Z	-.002	-.002	0	%100
125	V2B	Z	-.002	-.002	0	%100
126	D1B	Z	-.002	-.002	0	%100
127	V3B	Z	-.002	-.002	0	%100
128	V4B	Z	-.002	-.002	0	%100
129	D2B	Z	-.002	-.002	0	%100
130	MAST-2	Z	-.003	-.003	0	%100
131	FF1-TH1-G	Z	-.001	-.001	0	%100
132	FF1-TH2-G	Z	-.001	-.001	0	%100
133	FF1-TH3-G	Z	-.001	-.001	0	%100
134	FF1-BH1-G	Z	-.001	-.001	0	%100
135	FF1-BH2-G	Z	-.001	-.001	0	%100
136	FF1-BH3-G	Z	-.001	-.001	0	%100
137	MP-9	Z	-.003	-.003	0	%100
138	MP-10	Z	-.003	-.003	0	%100
139	MP-11	Z	-.003	-.003	0	%100
140	MP-12	Z	-.003	-.003	0	%100
141	SA3	Z	-.002	-.002	0	%100
142	SF1-TH-G	Z	-.002	-.002	0	%100
143	SF1-BH-G	Z	-.002	-.002	0	%100
144	SF2-TH-G	Z	-.000173	-.000173	0	%100
145	SF2-BH-G	Z	-.000173	-.000173	0	%100
146	FP-9	Z	-.002	-.002	0	%100
147	FP-10	Z	-.002	-.002	0	%100
148	FP-11	Z	-.002	-.002	0	%100
149	FP-12	Z	-.002	-.002	0	%100
150	V1G	Z	-.002	-.002	0	%100
151	V2G	Z	-.002	-.002	0	%100
152	D1G	Z	-.002	-.002	0	%100
153	V3G	Z	-.002	-.002	0	%100
154	V4G	Z	-.002	-.002	0	%100
155	D2G	Z	-.002	-.002	0	%100
156	MAST-3	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.002	.002	0	%100
2	FF1-TH2-A	X	.002	.002	0	%100
3	FF1-TH3-A	X	.002	.002	0	%100
4	FF1-BH1-A	X	.002	.002	0	%100
5	FF1-BH2-A	X	.002	.002	0	%100
6	FF1-BH3-A	X	.002	.002	0	%100
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100
11	SA1	X	.002	.002	0	%100
12	SF1-TH-A	X	.000293	.000293	0	%100
13	SF1-BH-A	X	.000293	.000293	0	%100
14	SF2-TH-A	X	.002	.002	0	%100
15	SF2-BH-A	X	.002	.002	0	%100
16	FP-1	X	.002	.002	0	%100
17	FP-2	X	.002	.002	0	%100
18	FP-3	X	.002	.002	0	%100
19	FP-4	X	.002	.002	0	%100
20	V1A	X	.001	.001	0	%100
21	V2A	X	.001	.001	0	%100
22	D1A	X	.001	.001	0	%100
23	V3A	X	.001	.001	0	%100
24	V4A	X	.001	.001	0	%100
25	D2A	X	.001	.001	0	%100
26	MAST-1	X	.002	.002	0	%100
27	FF1-TH1-B	X	.002	.002	0	%100
28	FF1-TH2-B	X	.002	.002	0	%100
29	FF1-TH3-B	X	.002	.002	0	%100
30	FF1-BH1-B	X	.002	.002	0	%100
31	FF1-BH2-B	X	.002	.002	0	%100
32	FF1-BH3-B	X	.002	.002	0	%100
33	MP-5	X	.002	.002	0	%100
34	MP-6	X	.002	.002	0	%100
35	MP-7	X	.002	.002	0	%100
36	MP-8	X	.002	.002	0	%100
37	SA2	X	.002	.002	0	%100
38	SF1-TH-B	X	.002	.002	0	%100
39	SF1-BH-B	X	.002	.002	0	%100
40	SF2-TH-B	X	.000943	.000943	0	%100
41	SF2-BH-B	X	.000943	.000943	0	%100
42	FP-5	X	.003	.003	0	%100
43	FP-6	X	.003	.003	0	%100
44	FP-7	X	.003	.003	0	%100
45	FP-8	X	.003	.003	0	%100
46	V1B	X	.001	.001	0	%100
47	V2B	X	.001	.001	0	%100
48	D1B	X	.001	.001	0	%100
49	V3B	X	.001	.001	0	%100
50	V4B	X	.001	.001	0	%100
51	D2B	X	.001	.001	0	%100
52	MAST-2	X	.002	.002	0	%100
53	FF1-TH1-G	X	.000521	.000521	0	%100
54	FF1-TH2-G	X	.000521	.000521	0	%100
55	FF1-TH3-G	X	.000521	.000521	0	%100
56	FF1-BH1-G	X	.000521	.000521	0	%100
57	FF1-BH2-G	X	.000521	.000521	0	%100
58	FF1-BH3-G	X	.000521	.000521	0	%100
59	MP-9	X	.002	.002	0	%100
60	MP-10	X	.002	.002	0	%100
61	MP-11	X	.002	.002	0	%100
62	MP-12	X	.002	.002	0	%100
63	SA3	X	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	SF1-TH-G	X	.001	.001	0	%100
65	SF1-BH-G	X	.001	.001	0	%100
66	SF2-TH-G	X	.000607	.000607	0	%100
67	SF2-BH-G	X	.000607	.000607	0	%100
68	FP-9	X	.000784	.000784	0	%100
69	FP-10	X	.000784	.000784	0	%100
70	FP-11	X	.000784	.000784	0	%100
71	FP-12	X	.000784	.000784	0	%100
72	V1G	X	.001	.001	0	%100
73	V2G	X	.001	.001	0	%100
74	D1G	X	.001	.001	0	%100
75	V3G	X	.001	.001	0	%100
76	V4G	X	.001	.001	0	%100
77	D2G	X	.001	.001	0	%100
78	MAST-3	X	.002	.002	0	%100
79	FF1-TH1-A	Z	-.002	-.002	0	%100
80	FF1-TH2-A	Z	-.002	-.002	0	%100
81	FF1-TH3-A	Z	-.002	-.002	0	%100
82	FF1-BH1-A	Z	-.002	-.002	0	%100
83	FF1-BH2-A	Z	-.002	-.002	0	%100
84	FF1-BH3-A	Z	-.002	-.002	0	%100
85	MP-1	Z	-.002	-.002	0	%100
86	MP-2	Z	-.002	-.002	0	%100
87	MP-3	Z	-.002	-.002	0	%100
88	MP-4	Z	-.002	-.002	0	%100
89	SA1	Z	-.002	-.002	0	%100
90	SF1-TH-A	Z	-.000276	-.000276	0	%100
91	SF1-BH-A	Z	-.000276	-.000276	0	%100
92	SF2-TH-A	Z	-.002	-.002	0	%100
93	SF2-BH-A	Z	-.002	-.002	0	%100
94	FP-1	Z	-.002	-.002	0	%100
95	FP-2	Z	-.002	-.002	0	%100
96	FP-3	Z	-.002	-.002	0	%100
97	FP-4	Z	-.002	-.002	0	%100
98	V1A	Z	-.001	-.001	0	%100
99	V2A	Z	-.001	-.001	0	%100
100	D1A	Z	-.001	-.001	0	%100
101	V3A	Z	-.001	-.001	0	%100
102	V4A	Z	-.001	-.001	0	%100
103	D2A	Z	-.001	-.001	0	%100
104	MAST-1	Z	-.002	-.002	0	%100
105	FF1-TH1-B	Z	-.002	-.002	0	%100
106	FF1-TH2-B	Z	-.002	-.002	0	%100
107	FF1-TH3-B	Z	-.002	-.002	0	%100
108	FF1-BH1-B	Z	-.002	-.002	0	%100
109	FF1-BH2-B	Z	-.002	-.002	0	%100
110	FF1-BH3-B	Z	-.002	-.002	0	%100
111	MP-5	Z	-.002	-.002	0	%100
112	MP-6	Z	-.002	-.002	0	%100
113	MP-7	Z	-.002	-.002	0	%100
114	MP-8	Z	-.002	-.002	0	%100
115	SA2	Z	-.002	-.002	0	%100
116	SF1-TH-B	Z	-.001	-.001	0	%100
117	SF1-BH-B	Z	-.001	-.001	0	%100
118	SF2-TH-B	Z	-.001	-.001	0	%100
119	SF2-BH-B	Z	-.001	-.001	0	%100
120	FP-5	Z	-.003	-.003	0	%100
121	FP-6	Z	-.003	-.003	0	%100
122	FP-7	Z	-.003	-.003	0	%100
123	FP-8	Z	-.003	-.003	0	%100
124	V1B	Z	-.001	-.001	0	%100
125	V2B	Z	-.001	-.001	0	%100
126	D1B	Z	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
127	V3B	Z	-.001	-.001	0	%100
128	V4B	Z	-.001	-.001	0	%100
129	D2B	Z	-.001	-.001	0	%100
130	MAST-2	Z	-.002	-.002	0	%100
131	FF1-TH1-G	Z	-.000625	-.000625	0	%100
132	FF1-TH2-G	Z	-.000625	-.000625	0	%100
133	FF1-TH3-G	Z	-.000625	-.000625	0	%100
134	FF1-BH1-G	Z	-.000625	-.000625	0	%100
135	FF1-BH2-G	Z	-.000625	-.000625	0	%100
136	FF1-BH3-G	Z	-.000625	-.000625	0	%100
137	MP-9	Z	-.002	-.002	0	%100
138	MP-10	Z	-.002	-.002	0	%100
139	MP-11	Z	-.002	-.002	0	%100
140	MP-12	Z	-.002	-.002	0	%100
141	SA3	Z	-.002	-.002	0	%100
142	SF1-TH-G	Z	-.001	-.001	0	%100
143	SF1-BH-G	Z	-.001	-.001	0	%100
144	SF2-TH-G	Z	-.000538	-.000538	0	%100
145	SF2-BH-G	Z	-.000538	-.000538	0	%100
146	FP-9	Z	-.000784	-.000784	0	%100
147	FP-10	Z	-.000784	-.000784	0	%100
148	FP-11	Z	-.000784	-.000784	0	%100
149	FP-12	Z	-.000784	-.000784	0	%100
150	V1G	Z	-.001	-.001	0	%100
151	V2G	Z	-.001	-.001	0	%100
152	D1G	Z	-.001	-.001	0	%100
153	V3G	Z	-.001	-.001	0	%100
154	V4G	Z	-.001	-.001	0	%100
155	D2G	Z	-.001	-.001	0	%100
156	MAST-3	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.003	.003	0	%100
2	FF1-TH2-A	X	.003	.003	0	%100
3	FF1-TH3-A	X	.003	.003	0	%100
4	FF1-BH1-A	X	.003	.003	0	%100
5	FF1-BH2-A	X	.003	.003	0	%100
6	FF1-BH3-A	X	.003	.003	0	%100
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100
11	SA1	X	.002	.002	0	%100
12	SF1-TH-A	X	.000884	.000884	0	%100
13	SF1-BH-A	X	.000884	.000884	0	%100
14	SF2-TH-A	X	.002	.002	0	%100
15	SF2-BH-A	X	.002	.002	0	%100
16	FP-1	X	.003	.003	0	%100
17	FP-2	X	.003	.003	0	%100
18	FP-3	X	.003	.003	0	%100
19	FP-4	X	.003	.003	0	%100
20	V1A	X	.001	.001	0	%100
21	V2A	X	.001	.001	0	%100
22	D1A	X	.002	.002	0	%100
23	V3A	X	.001	.001	0	%100
24	V4A	X	.001	.001	0	%100
25	D2A	X	.002	.002	0	%100
26	MAST-1	X	.003	.003	0	%100
27	FF1-TH1-B	X	.002	.002	0	%100
28	FF1-TH2-B	X	.002	.002	0	%100
29	FF1-TH3-B	X	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	FF1-BH1-B	X	.002	.002	0	%100
31	FF1-BH2-B	X	.002	.002	0	%100
32	FF1-BH3-B	X	.002	.002	0	%100
33	MP-5	X	.002	.002	0	%100
34	MP-6	X	.002	.002	0	%100
35	MP-7	X	.002	.002	0	%100
36	MP-8	X	.002	.002	0	%100
37	SA2	X	.002	.002	0	%100
38	SF1-TH-B	X	.002	.002	0	%100
39	SF1-BH-B	X	.002	.002	0	%100
40	SF2-TH-B	X	.000757	.000757	0	%100
41	SF2-BH-B	X	.000757	.000757	0	%100
42	FP-5	X	.003	.003	0	%100
43	FP-6	X	.003	.003	0	%100
44	FP-7	X	.003	.003	0	%100
45	FP-8	X	.003	.003	0	%100
46	V1B	X	.001	.001	0	%100
47	V2B	X	.001	.001	0	%100
48	D1B	X	.002	.002	0	%100
49	V3B	X	.001	.001	0	%100
50	V4B	X	.001	.001	0	%100
51	D2B	X	.002	.002	0	%100
52	MAST-2	X	.003	.003	0	%100
53	FF1-TH1-G	X	0	0	0	%100
54	FF1-TH2-G	X	0	0	0	%100
55	FF1-TH3-G	X	0	0	0	%100
56	FF1-BH1-G	X	0	0	0	%100
57	FF1-BH2-G	X	0	0	0	%100
58	FF1-BH3-G	X	0	0	0	%100
59	MP-9	X	.002	.002	0	%100
60	MP-10	X	.002	.002	0	%100
61	MP-11	X	.002	.002	0	%100
62	MP-12	X	.002	.002	0	%100
63	SA3	X	.002	.002	0	%100
64	SF1-TH-G	X	.001	.001	0	%100
65	SF1-BH-G	X	.001	.001	0	%100
66	SF2-TH-G	X	.001	.001	0	%100
67	SF2-BH-G	X	.001	.001	0	%100
68	FP-9	X	0	0	0	%100
69	FP-10	X	0	0	0	%100
70	FP-11	X	0	0	0	%100
71	FP-12	X	0	0	0	%100
72	V1G	X	.001	.001	0	%100
73	V2G	X	.001	.001	0	%100
74	D1G	X	.002	.002	0	%100
75	V3G	X	.001	.001	0	%100
76	V4G	X	.001	.001	0	%100
77	D2G	X	.002	.002	0	%100
78	MAST-3	X	.003	.003	0	%100
79	FF1-TH1-A	Z	-.001	-.001	0	%100
80	FF1-TH2-A	Z	-.001	-.001	0	%100
81	FF1-TH3-A	Z	-.001	-.001	0	%100
82	FF1-BH1-A	Z	-.001	-.001	0	%100
83	FF1-BH2-A	Z	-.001	-.001	0	%100
84	FF1-BH3-A	Z	-.001	-.001	0	%100
85	MP-1	Z	-.002	-.002	0	%100
86	MP-2	Z	-.002	-.002	0	%100
87	MP-3	Z	-.002	-.002	0	%100
88	MP-4	Z	-.002	-.002	0	%100
89	SA1	Z	-.001	-.001	0	%100
90	SF1-TH-A	Z	-.000481	-.000481	0	%100
91	SF1-BH-A	Z	-.000481	-.000481	0	%100
92	SF2-TH-A	Z	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
93	SF2-BH-A	Z	-.001	-.001	0	%100
94	FP-1	Z	-.002	-.002	0	%100
95	FP-2	Z	-.002	-.002	0	%100
96	FP-3	Z	-.002	-.002	0	%100
97	FP-4	Z	-.002	-.002	0	%100
98	V1A	Z	-.00094	-.00094	0	%100
99	V2A	Z	-.00094	-.00094	0	%100
100	D1A	Z	-.001	-.001	0	%100
101	V3A	Z	-.00094	-.00094	0	%100
102	V4A	Z	-.00094	-.00094	0	%100
103	D2A	Z	-.001	-.001	0	%100
104	MAST-1	Z	-.002	-.002	0	%100
105	FF1-TH1-B	Z	-.001	-.001	0	%100
106	FF1-TH2-B	Z	-.001	-.001	0	%100
107	FF1-TH3-B	Z	-.001	-.001	0	%100
108	FF1-BH1-B	Z	-.001	-.001	0	%100
109	FF1-BH2-B	Z	-.001	-.001	0	%100
110	FF1-BH3-B	Z	-.001	-.001	0	%100
111	MP-5	Z	-.002	-.002	0	%100
112	MP-6	Z	-.002	-.002	0	%100
113	MP-7	Z	-.002	-.002	0	%100
114	MP-8	Z	-.002	-.002	0	%100
115	SA2	Z	-.001	-.001	0	%100
116	SF1-TH-B	Z	-.001	-.001	0	%100
117	SF1-BH-B	Z	-.001	-.001	0	%100
118	SF2-TH-B	Z	-.000532	-.000532	0	%100
119	SF2-BH-B	Z	-.000532	-.000532	0	%100
120	FP-5	Z	-.002	-.002	0	%100
121	FP-6	Z	-.002	-.002	0	%100
122	FP-7	Z	-.002	-.002	0	%100
123	FP-8	Z	-.002	-.002	0	%100
124	V1B	Z	-.00094	-.00094	0	%100
125	V2B	Z	-.00094	-.00094	0	%100
126	D1B	Z	-.001	-.001	0	%100
127	V3B	Z	-.00094	-.00094	0	%100
128	V4B	Z	-.00094	-.00094	0	%100
129	D2B	Z	-.001	-.001	0	%100
130	MAST-2	Z	-.002	-.002	0	%100
131	FF1-TH1-G	Z	0	0	0	%100
132	FF1-TH2-G	Z	0	0	0	%100
133	FF1-TH3-G	Z	0	0	0	%100
134	FF1-BH1-G	Z	0	0	0	%100
135	FF1-BH2-G	Z	0	0	0	%100
136	FF1-BH3-G	Z	0	0	0	%100
137	MP-9	Z	-.002	-.002	0	%100
138	MP-10	Z	-.002	-.002	0	%100
139	MP-11	Z	-.002	-.002	0	%100
140	MP-12	Z	-.002	-.002	0	%100
141	SA3	Z	-.001	-.001	0	%100
142	SF1-TH-G	Z	-.000731	-.000731	0	%100
143	SF1-BH-G	Z	-.000731	-.000731	0	%100
144	SF2-TH-G	Z	-.000635	-.000635	0	%100
145	SF2-BH-G	Z	-.000635	-.000635	0	%100
146	FP-9	Z	0	0	0	%100
147	FP-10	Z	0	0	0	%100
148	FP-11	Z	0	0	0	%100
149	FP-12	Z	0	0	0	%100
150	V1G	Z	-.00094	-.00094	0	%100
151	V2G	Z	-.00094	-.00094	0	%100
152	D1G	Z	-.001	-.001	0	%100
153	V3G	Z	-.00094	-.00094	0	%100
154	V4G	Z	-.00094	-.00094	0	%100
155	D2G	Z	-.001	-.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
156	MAST-3	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.003	.003	0	%100
2	FF1-TH2-A	X	.003	.003	0	%100
3	FF1-TH3-A	X	.003	.003	0	%100
4	FF1-BH1-A	X	.003	.003	0	%100
5	FF1-BH2-A	X	.003	.003	0	%100
6	FF1-BH3-A	X	.003	.003	0	%100
7	MP-1	X	.003	.003	0	%100
8	MP-2	X	.003	.003	0	%100
9	MP-3	X	.003	.003	0	%100
10	MP-4	X	.003	.003	0	%100
11	SA1	X	.003	.003	0	%100
12	SF1-TH-A	X	.002	.002	0	%100
13	SF1-BH-A	X	.002	.002	0	%100
14	SF2-TH-A	X	.002	.002	0	%100
15	SF2-BH-A	X	.002	.002	0	%100
16	FP-1	X	.004	.004	0	%100
17	FP-2	X	.004	.004	0	%100
18	FP-3	X	.004	.004	0	%100
19	FP-4	X	.004	.004	0	%100
20	V1A	X	.002	.002	0	%100
21	V2A	X	.002	.002	0	%100
22	D1A	X	.002	.002	0	%100
23	V3A	X	.002	.002	0	%100
24	V4A	X	.002	.002	0	%100
25	D2A	X	.002	.002	0	%100
26	MAST-1	X	.003	.003	0	%100
27	FF1-TH1-B	X	.003	.003	0	%100
28	FF1-TH2-B	X	.003	.003	0	%100
29	FF1-TH3-B	X	.003	.003	0	%100
30	FF1-BH1-B	X	.003	.003	0	%100
31	FF1-BH2-B	X	.003	.003	0	%100
32	FF1-BH3-B	X	.003	.003	0	%100
33	MP-5	X	.003	.003	0	%100
34	MP-6	X	.003	.003	0	%100
35	MP-7	X	.003	.003	0	%100
36	MP-8	X	.003	.003	0	%100
37	SA2	X	.003	.003	0	%100
38	SF1-TH-B	X	.002	.002	0	%100
39	SF1-BH-B	X	.002	.002	0	%100
40	SF2-TH-B	X	.002	.002	0	%100
41	SF2-BH-B	X	.002	.002	0	%100
42	FP-5	X	.004	.004	0	%100
43	FP-6	X	.004	.004	0	%100
44	FP-7	X	.004	.004	0	%100
45	FP-8	X	.004	.004	0	%100
46	V1B	X	.002	.002	0	%100
47	V2B	X	.002	.002	0	%100
48	D1B	X	.002	.002	0	%100
49	V3B	X	.002	.002	0	%100
50	V4B	X	.002	.002	0	%100
51	D2B	X	.002	.002	0	%100
52	MAST-2	X	.003	.003	0	%100
53	FF1-TH1-G	X	.003	.003	0	%100
54	FF1-TH2-G	X	.003	.003	0	%100
55	FF1-TH3-G	X	.003	.003	0	%100
56	FF1-BH1-G	X	.003	.003	0	%100
57	FF1-BH2-G	X	.003	.003	0	%100
58	FF1-BH3-G	X	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	MP-9	X	.003	.003	0	%100
60	MP-10	X	.003	.003	0	%100
61	MP-11	X	.003	.003	0	%100
62	MP-12	X	.003	.003	0	%100
63	SA3	X	.003	.003	0	%100
64	SF1-TH-G	X	.002	.002	0	%100
65	SF1-BH-G	X	.002	.002	0	%100
66	SF2-TH-G	X	.002	.002	0	%100
67	SF2-BH-G	X	.002	.002	0	%100
68	FP-9	X	.004	.004	0	%100
69	FP-10	X	.004	.004	0	%100
70	FP-11	X	.004	.004	0	%100
71	FP-12	X	.004	.004	0	%100
72	V1G	X	.002	.002	0	%100
73	V2G	X	.002	.002	0	%100
74	D1G	X	.002	.002	0	%100
75	V3G	X	.002	.002	0	%100
76	V4G	X	.002	.002	0	%100
77	D2G	X	.002	.002	0	%100
78	MAST-3	X	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.003	.003	0	%100
2	FF1-TH2-A	X	.003	.003	0	%100
3	FF1-TH3-A	X	.003	.003	0	%100
4	FF1-BH1-A	X	.003	.003	0	%100
5	FF1-BH2-A	X	.003	.003	0	%100
6	FF1-BH3-A	X	.003	.003	0	%100
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100
11	SA1	X	.002	.002	0	%100
12	SF1-TH-A	X	.002	.002	0	%100
13	SF1-BH-A	X	.002	.002	0	%100
14	SF2-TH-A	X	.000884	.000884	0	%100
15	SF2-BH-A	X	.000884	.000884	0	%100
16	FP-1	X	.003	.003	0	%100
17	FP-2	X	.003	.003	0	%100
18	FP-3	X	.003	.003	0	%100
19	FP-4	X	.003	.003	0	%100
20	V1A	X	.001	.001	0	%100
21	V2A	X	.001	.001	0	%100
22	D1A	X	.002	.002	0	%100
23	V3A	X	.001	.001	0	%100
24	V4A	X	.001	.001	0	%100
25	D2A	X	.002	.002	0	%100
26	MAST-1	X	.003	.003	0	%100
27	FF1-TH1-B	X	0	0	0	%100
28	FF1-TH2-B	X	0	0	0	%100
29	FF1-TH3-B	X	0	0	0	%100
30	FF1-BH1-B	X	0	0	0	%100
31	FF1-BH2-B	X	0	0	0	%100
32	FF1-BH3-B	X	0	0	0	%100
33	MP-5	X	.002	.002	0	%100
34	MP-6	X	.002	.002	0	%100
35	MP-7	X	.002	.002	0	%100
36	MP-8	X	.002	.002	0	%100
37	SA2	X	.002	.002	0	%100
38	SF1-TH-B	X	.001	.001	0	%100
39	SF1-BH-B	X	.001	.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	SF2-TH-B	X	.001	.001	0	%100
41	SF2-BH-B	X	.001	.001	0	%100
42	FP-5	X	0	0	0	%100
43	FP-6	X	0	0	0	%100
44	FP-7	X	0	0	0	%100
45	FP-8	X	0	0	0	%100
46	V1B	X	.001	.001	0	%100
47	V2B	X	.001	.001	0	%100
48	D1B	X	.002	.002	0	%100
49	V3B	X	.001	.001	0	%100
50	V4B	X	.001	.001	0	%100
51	D2B	X	.002	.002	0	%100
52	MAST-2	X	.003	.003	0	%100
53	FF1-TH1-G	X	.002	.002	0	%100
54	FF1-TH2-G	X	.002	.002	0	%100
55	FF1-TH3-G	X	.002	.002	0	%100
56	FF1-BH1-G	X	.002	.002	0	%100
57	FF1-BH2-G	X	.002	.002	0	%100
58	FF1-BH3-G	X	.002	.002	0	%100
59	MP-9	X	.002	.002	0	%100
60	MP-10	X	.002	.002	0	%100
61	MP-11	X	.002	.002	0	%100
62	MP-12	X	.002	.002	0	%100
63	SA3	X	.002	.002	0	%100
64	SF1-TH-G	X	.000757	.000757	0	%100
65	SF1-BH-G	X	.000757	.000757	0	%100
66	SF2-TH-G	X	.002	.002	0	%100
67	SF2-BH-G	X	.002	.002	0	%100
68	FP-9	X	.003	.003	0	%100
69	FP-10	X	.003	.003	0	%100
70	FP-11	X	.003	.003	0	%100
71	FP-12	X	.003	.003	0	%100
72	V1G	X	.001	.001	0	%100
73	V2G	X	.001	.001	0	%100
74	D1G	X	.002	.002	0	%100
75	V3G	X	.001	.001	0	%100
76	V4G	X	.001	.001	0	%100
77	D2G	X	.002	.002	0	%100
78	MAST-3	X	.003	.003	0	%100
79	FF1-TH1-A	Z	.001	.001	0	%100
80	FF1-TH2-A	Z	.001	.001	0	%100
81	FF1-TH3-A	Z	.001	.001	0	%100
82	FF1-BH1-A	Z	.001	.001	0	%100
83	FF1-BH2-A	Z	.001	.001	0	%100
84	FF1-BH3-A	Z	.001	.001	0	%100
85	MP-1	Z	.002	.002	0	%100
86	MP-2	Z	.002	.002	0	%100
87	MP-3	Z	.002	.002	0	%100
88	MP-4	Z	.002	.002	0	%100
89	SA1	Z	.001	.001	0	%100
90	SF1-TH-A	Z	.001	.001	0	%100
91	SF1-BH-A	Z	.001	.001	0	%100
92	SF2-TH-A	Z	.000481	.000481	0	%100
93	SF2-BH-A	Z	.000481	.000481	0	%100
94	FP-1	Z	.002	.002	0	%100
95	FP-2	Z	.002	.002	0	%100
96	FP-3	Z	.002	.002	0	%100
97	FP-4	Z	.002	.002	0	%100
98	V1A	Z	.00094	.00094	0	%100
99	V2A	Z	.00094	.00094	0	%100
100	D1A	Z	.001	.001	0	%100
101	V3A	Z	.00094	.00094	0	%100
102	V4A	Z	.00094	.00094	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	D2A	Z	.001	.001	0	%100
104	MAST-1	Z	.002	.002	0	%100
105	FF1-TH1-B	Z	0	0	0	%100
106	FF1-TH2-B	Z	0	0	0	%100
107	FF1-TH3-B	Z	0	0	0	%100
108	FF1-BH1-B	Z	0	0	0	%100
109	FF1-BH2-B	Z	0	0	0	%100
110	FF1-BH3-B	Z	0	0	0	%100
111	MP-5	Z	.002	.002	0	%100
112	MP-6	Z	.002	.002	0	%100
113	MP-7	Z	.002	.002	0	%100
114	MP-8	Z	.002	.002	0	%100
115	SA2	Z	.001	.001	0	%100
116	SF1-TH-B	Z	.000635	.000635	0	%100
117	SF1-BH-B	Z	.000635	.000635	0	%100
118	SF2-TH-B	Z	.000731	.000731	0	%100
119	SF2-BH-B	Z	.000731	.000731	0	%100
120	FP-5	Z	0	0	0	%100
121	FP-6	Z	0	0	0	%100
122	FP-7	Z	0	0	0	%100
123	FP-8	Z	0	0	0	%100
124	V1B	Z	.00094	.00094	0	%100
125	V2B	Z	.00094	.00094	0	%100
126	D1B	Z	.001	.001	0	%100
127	V3B	Z	.00094	.00094	0	%100
128	V4B	Z	.00094	.00094	0	%100
129	D2B	Z	.001	.001	0	%100
130	MAST-2	Z	.002	.002	0	%100
131	FF1-TH1-G	Z	.001	.001	0	%100
132	FF1-TH2-G	Z	.001	.001	0	%100
133	FF1-TH3-G	Z	.001	.001	0	%100
134	FF1-BH1-G	Z	.001	.001	0	%100
135	FF1-BH2-G	Z	.001	.001	0	%100
136	FF1-BH3-G	Z	.001	.001	0	%100
137	MP-9	Z	.002	.002	0	%100
138	MP-10	Z	.002	.002	0	%100
139	MP-11	Z	.002	.002	0	%100
140	MP-12	Z	.002	.002	0	%100
141	SA3	Z	.001	.001	0	%100
142	SF1-TH-G	Z	.000532	.000532	0	%100
143	SF1-BH-G	Z	.000532	.000532	0	%100
144	SF2-TH-G	Z	.001	.001	0	%100
145	SF2-BH-G	Z	.001	.001	0	%100
146	FP-9	Z	.002	.002	0	%100
147	FP-10	Z	.002	.002	0	%100
148	FP-11	Z	.002	.002	0	%100
149	FP-12	Z	.002	.002	0	%100
150	V1G	Z	.00094	.00094	0	%100
151	V2G	Z	.00094	.00094	0	%100
152	D1G	Z	.001	.001	0	%100
153	V3G	Z	.00094	.00094	0	%100
154	V4G	Z	.00094	.00094	0	%100
155	D2G	Z	.001	.001	0	%100
156	MAST-3	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.002	.002	0	%100
2	FF1-TH2-A	X	.002	.002	0	%100
3	FF1-TH3-A	X	.002	.002	0	%100
4	FF1-BH1-A	X	.002	.002	0	%100
5	FF1-BH2-A	X	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	FF1-BH3-A	X	.002	.002	0	%100
7	MP-1	X	.002	.002	0	%100
8	MP-2	X	.002	.002	0	%100
9	MP-3	X	.002	.002	0	%100
10	MP-4	X	.002	.002	0	%100
11	SA1	X	.002	.002	0	%100
12	SF1-TH-A	X	.002	.002	0	%100
13	SF1-BH-A	X	.002	.002	0	%100
14	SF2-TH-A	X	.000293	.000293	0	%100
15	SF2-BH-A	X	.000293	.000293	0	%100
16	FP-1	X	.002	.002	0	%100
17	FP-2	X	.002	.002	0	%100
18	FP-3	X	.002	.002	0	%100
19	FP-4	X	.002	.002	0	%100
20	V1A	X	.001	.001	0	%100
21	V2A	X	.001	.001	0	%100
22	D1A	X	.001	.001	0	%100
23	V3A	X	.001	.001	0	%100
24	V4A	X	.001	.001	0	%100
25	D2A	X	.001	.001	0	%100
26	MAST-1	X	.002	.002	0	%100
27	FF1-TH1-B	X	.000521	.000521	0	%100
28	FF1-TH2-B	X	.000521	.000521	0	%100
29	FF1-TH3-B	X	.000521	.000521	0	%100
30	FF1-BH1-B	X	.000521	.000521	0	%100
31	FF1-BH2-B	X	.000521	.000521	0	%100
32	FF1-BH3-B	X	.000521	.000521	0	%100
33	MP-5	X	.002	.002	0	%100
34	MP-6	X	.002	.002	0	%100
35	MP-7	X	.002	.002	0	%100
36	MP-8	X	.002	.002	0	%100
37	SA2	X	.002	.002	0	%100
38	SF1-TH-B	X	.000607	.000607	0	%100
39	SF1-BH-B	X	.000607	.000607	0	%100
40	SF2-TH-B	X	.001	.001	0	%100
41	SF2-BH-B	X	.001	.001	0	%100
42	FP-5	X	.000784	.000784	0	%100
43	FP-6	X	.000784	.000784	0	%100
44	FP-7	X	.000784	.000784	0	%100
45	FP-8	X	.000784	.000784	0	%100
46	V1B	X	.001	.001	0	%100
47	V2B	X	.001	.001	0	%100
48	D1B	X	.001	.001	0	%100
49	V3B	X	.001	.001	0	%100
50	V4B	X	.001	.001	0	%100
51	D2B	X	.001	.001	0	%100
52	MAST-2	X	.002	.002	0	%100
53	FF1-TH1-G	X	.002	.002	0	%100
54	FF1-TH2-G	X	.002	.002	0	%100
55	FF1-TH3-G	X	.002	.002	0	%100
56	FF1-BH1-G	X	.002	.002	0	%100
57	FF1-BH2-G	X	.002	.002	0	%100
58	FF1-BH3-G	X	.002	.002	0	%100
59	MP-9	X	.002	.002	0	%100
60	MP-10	X	.002	.002	0	%100
61	MP-11	X	.002	.002	0	%100
62	MP-12	X	.002	.002	0	%100
63	SA3	X	.002	.002	0	%100
64	SF1-TH-G	X	.000943	.000943	0	%100
65	SF1-BH-G	X	.000943	.000943	0	%100
66	SF2-TH-G	X	.002	.002	0	%100
67	SF2-BH-G	X	.002	.002	0	%100
68	FP-9	X	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	FP-10	X	.003	.003	0	%100
70	FP-11	X	.003	.003	0	%100
71	FP-12	X	.003	.003	0	%100
72	V1G	X	.001	.001	0	%100
73	V2G	X	.001	.001	0	%100
74	D1G	X	.001	.001	0	%100
75	V3G	X	.001	.001	0	%100
76	V4G	X	.001	.001	0	%100
77	D2G	X	.001	.001	0	%100
78	MAST-3	X	.002	.002	0	%100
79	FF1-TH1-A	Z	.002	.002	0	%100
80	FF1-TH2-A	Z	.002	.002	0	%100
81	FF1-TH3-A	Z	.002	.002	0	%100
82	FF1-BH1-A	Z	.002	.002	0	%100
83	FF1-BH2-A	Z	.002	.002	0	%100
84	FF1-BH3-A	Z	.002	.002	0	%100
85	MP-1	Z	.002	.002	0	%100
86	MP-2	Z	.002	.002	0	%100
87	MP-3	Z	.002	.002	0	%100
88	MP-4	Z	.002	.002	0	%100
89	SA1	Z	.002	.002	0	%100
90	SF1-TH-A	Z	.002	.002	0	%100
91	SF1-BH-A	Z	.002	.002	0	%100
92	SF2-TH-A	Z	.000276	.000276	0	%100
93	SF2-BH-A	Z	.000276	.000276	0	%100
94	FP-1	Z	.002	.002	0	%100
95	FP-2	Z	.002	.002	0	%100
96	FP-3	Z	.002	.002	0	%100
97	FP-4	Z	.002	.002	0	%100
98	V1A	Z	.001	.001	0	%100
99	V2A	Z	.001	.001	0	%100
100	D1A	Z	.001	.001	0	%100
101	V3A	Z	.001	.001	0	%100
102	V4A	Z	.001	.001	0	%100
103	D2A	Z	.001	.001	0	%100
104	MAST-1	Z	.002	.002	0	%100
105	FF1-TH1-B	Z	.000625	.000625	0	%100
106	FF1-TH2-B	Z	.000625	.000625	0	%100
107	FF1-TH3-B	Z	.000625	.000625	0	%100
108	FF1-BH1-B	Z	.000625	.000625	0	%100
109	FF1-BH2-B	Z	.000625	.000625	0	%100
110	FF1-BH3-B	Z	.000625	.000625	0	%100
111	MP-5	Z	.002	.002	0	%100
112	MP-6	Z	.002	.002	0	%100
113	MP-7	Z	.002	.002	0	%100
114	MP-8	Z	.002	.002	0	%100
115	SA2	Z	.002	.002	0	%100
116	SF1-TH-B	Z	.000538	.000538	0	%100
117	SF1-BH-B	Z	.000538	.000538	0	%100
118	SF2-TH-B	Z	.001	.001	0	%100
119	SF2-BH-B	Z	.001	.001	0	%100
120	FP-5	Z	.000784	.000784	0	%100
121	FP-6	Z	.000784	.000784	0	%100
122	FP-7	Z	.000784	.000784	0	%100
123	FP-8	Z	.000784	.000784	0	%100
124	V1B	Z	.001	.001	0	%100
125	V2B	Z	.001	.001	0	%100
126	D1B	Z	.001	.001	0	%100
127	V3B	Z	.001	.001	0	%100
128	V4B	Z	.001	.001	0	%100
129	D2B	Z	.001	.001	0	%100
130	MAST-2	Z	.002	.002	0	%100
131	FF1-TH1-G	Z	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
132	FF1-TH2-G	Z	.002	.002	0	%100
133	FF1-TH3-G	Z	.002	.002	0	%100
134	FF1-BH1-G	Z	.002	.002	0	%100
135	FF1-BH2-G	Z	.002	.002	0	%100
136	FF1-BH3-G	Z	.002	.002	0	%100
137	MP-9	Z	.002	.002	0	%100
138	MP-10	Z	.002	.002	0	%100
139	MP-11	Z	.002	.002	0	%100
140	MP-12	Z	.002	.002	0	%100
141	SA3	Z	.002	.002	0	%100
142	SF1-TH-G	Z	.001	.001	0	%100
143	SF1-BH-G	Z	.001	.001	0	%100
144	SF2-TH-G	Z	.001	.001	0	%100
145	SF2-BH-G	Z	.001	.001	0	%100
146	FP-9	Z	.003	.003	0	%100
147	FP-10	Z	.003	.003	0	%100
148	FP-11	Z	.003	.003	0	%100
149	FP-12	Z	.003	.003	0	%100
150	V1G	Z	.001	.001	0	%100
151	V2G	Z	.001	.001	0	%100
152	D1G	Z	.001	.001	0	%100
153	V3G	Z	.001	.001	0	%100
154	V4G	Z	.001	.001	0	%100
155	D2G	Z	.001	.001	0	%100
156	MAST-3	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	.000853	.000853	0	%100
2	FF1-TH2-A	X	.000853	.000853	0	%100
3	FF1-TH3-A	X	.000853	.000853	0	%100
4	FF1-BH1-A	X	.000853	.000853	0	%100
5	FF1-BH2-A	X	.000853	.000853	0	%100
6	FF1-BH3-A	X	.000853	.000853	0	%100
7	MP-1	X	.001	.001	0	%100
8	MP-2	X	.001	.001	0	%100
9	MP-3	X	.001	.001	0	%100
10	MP-4	X	.001	.001	0	%100
11	SA1	X	.001	.001	0	%100
12	SF1-TH-A	X	.001	.001	0	%100
13	SF1-BH-A	X	.001	.001	0	%100
14	SF2-TH-A	X	.000111	.000111	0	%100
15	SF2-BH-A	X	.000111	.000111	0	%100
16	FP-1	X	.001	.001	0	%100
17	FP-2	X	.001	.001	0	%100
18	FP-3	X	.001	.001	0	%100
19	FP-4	X	.001	.001	0	%100
20	V1A	X	.000846	.000846	0	%100
21	V2A	X	.000846	.000846	0	%100
22	D1A	X	.000923	.000923	0	%100
23	V3A	X	.000846	.000846	0	%100
24	V4A	X	.000846	.000846	0	%100
25	D2A	X	.000923	.000923	0	%100
26	MAST-1	X	.002	.002	0	%100
27	FF1-TH1-B	X	.000712	.000712	0	%100
28	FF1-TH2-B	X	.000712	.000712	0	%100
29	FF1-TH3-B	X	.000712	.000712	0	%100
30	FF1-BH1-B	X	.000712	.000712	0	%100
31	FF1-BH2-B	X	.000712	.000712	0	%100
32	FF1-BH3-B	X	.000712	.000712	0	%100
33	MP-5	X	.001	.001	0	%100
34	MP-6	X	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
35	MP-7	X	.001	.001	0	%100
36	MP-8	X	.001	.001	0	%100
37	SA2	X	.001	.001	0	%100
38	SF1-TH-B	X	.000113	.000113	0	%100
39	SF1-BH-B	X	.000113	.000113	0	%100
40	SF2-TH-B	X	.000946	.000946	0	%100
41	SF2-BH-B	X	.000946	.000946	0	%100
42	FP-5	X	.001	.001	0	%100
43	FP-6	X	.001	.001	0	%100
44	FP-7	X	.001	.001	0	%100
45	FP-8	X	.001	.001	0	%100
46	V1B	X	.000846	.000846	0	%100
47	V2B	X	.000846	.000846	0	%100
48	D1B	X	.000923	.000923	0	%100
49	V3B	X	.000846	.000846	0	%100
50	V4B	X	.000846	.000846	0	%100
51	D2B	X	.000923	.000923	0	%100
52	MAST-2	X	.002	.002	0	%100
53	FF1-TH1-G	X	.001	.001	0	%100
54	FF1-TH2-G	X	.001	.001	0	%100
55	FF1-TH3-G	X	.001	.001	0	%100
56	FF1-BH1-G	X	.001	.001	0	%100
57	FF1-BH2-G	X	.001	.001	0	%100
58	FF1-BH3-G	X	.001	.001	0	%100
59	MP-9	X	.001	.001	0	%100
60	MP-10	X	.001	.001	0	%100
61	MP-11	X	.001	.001	0	%100
62	MP-12	X	.001	.001	0	%100
63	SA3	X	.001	.001	0	%100
64	SF1-TH-G	X	.000852	.000852	0	%100
65	SF1-BH-G	X	.000852	.000852	0	%100
66	SF2-TH-G	X	.001	.001	0	%100
67	SF2-BH-G	X	.001	.001	0	%100
68	FP-9	X	.002	.002	0	%100
69	FP-10	X	.002	.002	0	%100
70	FP-11	X	.002	.002	0	%100
71	FP-12	X	.002	.002	0	%100
72	V1G	X	.000846	.000846	0	%100
73	V2G	X	.000846	.000846	0	%100
74	D1G	X	.000923	.000923	0	%100
75	V3G	X	.000846	.000846	0	%100
76	V4G	X	.000846	.000846	0	%100
77	D2G	X	.000923	.000923	0	%100
78	MAST-3	X	.002	.002	0	%100
79	FF1-TH1-A	Z	.001	.001	0	%100
80	FF1-TH2-A	Z	.001	.001	0	%100
81	FF1-TH3-A	Z	.001	.001	0	%100
82	FF1-BH1-A	Z	.001	.001	0	%100
83	FF1-BH2-A	Z	.001	.001	0	%100
84	FF1-BH3-A	Z	.001	.001	0	%100
85	MP-1	Z	.003	.003	0	%100
86	MP-2	Z	.003	.003	0	%100
87	MP-3	Z	.003	.003	0	%100
88	MP-4	Z	.003	.003	0	%100
89	SA1	Z	.002	.002	0	%100
90	SF1-TH-A	Z	.002	.002	0	%100
91	SF1-BH-A	Z	.002	.002	0	%100
92	SF2-TH-A	Z	.00018	.00018	0	%100
93	SF2-BH-A	Z	.00018	.00018	0	%100
94	FP-1	Z	.002	.002	0	%100
95	FP-2	Z	.002	.002	0	%100
96	FP-3	Z	.002	.002	0	%100
97	FP-4	Z	.002	.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
98	V1A	Z	.002	.002	0	%100
99	V2A	Z	.002	.002	0	%100
100	D1A	Z	.002	.002	0	%100
101	V3A	Z	.002	.002	0	%100
102	V4A	Z	.002	.002	0	%100
103	D2A	Z	.002	.002	0	%100
104	MAST-1	Z	.003	.003	0	%100
105	FF1-TH1-B	Z	.001	.001	0	%100
106	FF1-TH2-B	Z	.001	.001	0	%100
107	FF1-TH3-B	Z	.001	.001	0	%100
108	FF1-BH1-B	Z	.001	.001	0	%100
109	FF1-BH2-B	Z	.001	.001	0	%100
110	FF1-BH3-B	Z	.001	.001	0	%100
111	MP-5	Z	.003	.003	0	%100
112	MP-6	Z	.003	.003	0	%100
113	MP-7	Z	.003	.003	0	%100
114	MP-8	Z	.003	.003	0	%100
115	SA2	Z	.002	.002	0	%100
116	SF1-TH-B	Z	.000173	.000173	0	%100
117	SF1-BH-B	Z	.000173	.000173	0	%100
118	SF2-TH-B	Z	.002	.002	0	%100
119	SF2-BH-B	Z	.002	.002	0	%100
120	FP-5	Z	.002	.002	0	%100
121	FP-6	Z	.002	.002	0	%100
122	FP-7	Z	.002	.002	0	%100
123	FP-8	Z	.002	.002	0	%100
124	V1B	Z	.002	.002	0	%100
125	V2B	Z	.002	.002	0	%100
126	D1B	Z	.002	.002	0	%100
127	V3B	Z	.002	.002	0	%100
128	V4B	Z	.002	.002	0	%100
129	D2B	Z	.002	.002	0	%100
130	MAST-2	Z	.003	.003	0	%100
131	FF1-TH1-G	Z	.003	.003	0	%100
132	FF1-TH2-G	Z	.003	.003	0	%100
133	FF1-TH3-G	Z	.003	.003	0	%100
134	FF1-BH1-G	Z	.003	.003	0	%100
135	FF1-BH2-G	Z	.003	.003	0	%100
136	FF1-BH3-G	Z	.003	.003	0	%100
137	MP-9	Z	.003	.003	0	%100
138	MP-10	Z	.003	.003	0	%100
139	MP-11	Z	.003	.003	0	%100
140	MP-12	Z	.003	.003	0	%100
141	SA3	Z	.002	.002	0	%100
142	SF1-TH-G	Z	.002	.002	0	%100
143	SF1-BH-G	Z	.002	.002	0	%100
144	SF2-TH-G	Z	.002	.002	0	%100
145	SF2-BH-G	Z	.002	.002	0	%100
146	FP-9	Z	.004	.004	0	%100
147	FP-10	Z	.004	.004	0	%100
148	FP-11	Z	.004	.004	0	%100
149	FP-12	Z	.004	.004	0	%100
150	V1G	Z	.002	.002	0	%100
151	V2G	Z	.002	.002	0	%100
152	D1G	Z	.002	.002	0	%100
153	V3G	Z	.002	.002	0	%100
154	V4G	Z	.002	.002	0	%100
155	D2G	Z	.002	.002	0	%100
156	MAST-3	Z	.003	.003	0	%100

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

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	Z	0	0	0	%100
2	FF1-TH2-A	Z	0	0	0	%100
3	FF1-TH3-A	Z	0	0	0	%100
4	FF1-BH1-A	Z	0	0	0	%100
5	FF1-BH2-A	Z	0	0	0	%100
6	FF1-BH3-A	Z	0	0	0	%100
7	MP-1	Z	.003	.003	0	%100
8	MP-2	Z	.003	.003	0	%100
9	MP-3	Z	.003	.003	0	%100
10	MP-4	Z	.003	.003	0	%100
11	SA1	Z	.003	.003	0	%100
12	SF1-TH-A	Z	.001	.001	0	%100
13	SF1-BH-A	Z	.001	.001	0	%100
14	SF2-TH-A	Z	.001	.001	0	%100
15	SF2-BH-A	Z	.001	.001	0	%100
16	FP-1	Z	0	0	0	%100
17	FP-2	Z	0	0	0	%100
18	FP-3	Z	0	0	0	%100
19	FP-4	Z	0	0	0	%100
20	V1A	Z	.002	.002	0	%100
21	V2A	Z	.002	.002	0	%100
22	D1A	Z	.002	.002	0	%100
23	V3A	Z	.002	.002	0	%100
24	V4A	Z	.002	.002	0	%100
25	D2A	Z	.002	.002	0	%100
26	MAST-1	Z	.004	.004	0	%100
27	FF1-TH1-B	Z	.003	.003	0	%100
28	FF1-TH2-B	Z	.003	.003	0	%100
29	FF1-TH3-B	Z	.003	.003	0	%100
30	FF1-BH1-B	Z	.003	.003	0	%100
31	FF1-BH2-B	Z	.003	.003	0	%100
32	FF1-BH3-B	Z	.003	.003	0	%100
33	MP-5	Z	.003	.003	0	%100
34	MP-6	Z	.003	.003	0	%100
35	MP-7	Z	.003	.003	0	%100
36	MP-8	Z	.003	.003	0	%100
37	SA2	Z	.003	.003	0	%100
38	SF1-TH-B	Z	.000923	.000923	0	%100
39	SF1-BH-B	Z	.000923	.000923	0	%100
40	SF2-TH-B	Z	.003	.003	0	%100
41	SF2-BH-B	Z	.003	.003	0	%100
42	FP-5	Z	.004	.004	0	%100
43	FP-6	Z	.004	.004	0	%100
44	FP-7	Z	.004	.004	0	%100
45	FP-8	Z	.004	.004	0	%100
46	V1B	Z	.002	.002	0	%100
47	V2B	Z	.002	.002	0	%100
48	D1B	Z	.002	.002	0	%100
49	V3B	Z	.002	.002	0	%100
50	V4B	Z	.002	.002	0	%100
51	D2B	Z	.002	.002	0	%100
52	MAST-2	Z	.004	.004	0	%100
53	FF1-TH1-G	Z	.003	.003	0	%100
54	FF1-TH2-G	Z	.003	.003	0	%100
55	FF1-TH3-G	Z	.003	.003	0	%100
56	FF1-BH1-G	Z	.003	.003	0	%100
57	FF1-BH2-G	Z	.003	.003	0	%100
58	FF1-BH3-G	Z	.003	.003	0	%100
59	MP-9	Z	.003	.003	0	%100
60	MP-10	Z	.003	.003	0	%100
61	MP-11	Z	.003	.003	0	%100
62	MP-12	Z	.003	.003	0	%100
63	SA3	Z	.003	.003	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	SF1-TH-G	Z	.003	.003	0	%100
65	SF1-BH-G	Z	.003	.003	0	%100
66	SF2-TH-G	Z	.000923	.000923	0	%100
67	SF2-BH-G	Z	.000923	.000923	0	%100
68	FP-9	Z	.004	.004	0	%100
69	FP-10	Z	.004	.004	0	%100
70	FP-11	Z	.004	.004	0	%100
71	FP-12	Z	.004	.004	0	%100
72	V1G	Z	.002	.002	0	%100
73	V2G	Z	.002	.002	0	%100
74	D1G	Z	.002	.002	0	%100
75	V3G	Z	.002	.002	0	%100
76	V4G	Z	.002	.002	0	%100
77	D2G	Z	.002	.002	0	%100
78	MAST-3	Z	.004	.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.000853	-.000853	0	%100
2	FF1-TH2-A	X	-.000853	-.000853	0	%100
3	FF1-TH3-A	X	-.000853	-.000853	0	%100
4	FF1-BH1-A	X	-.000853	-.000853	0	%100
5	FF1-BH2-A	X	-.000853	-.000853	0	%100
6	FF1-BH3-A	X	-.000853	-.000853	0	%100
7	MP-1	X	-.001	-.001	0	%100
8	MP-2	X	-.001	-.001	0	%100
9	MP-3	X	-.001	-.001	0	%100
10	MP-4	X	-.001	-.001	0	%100
11	SA1	X	-.001	-.001	0	%100
12	SF1-TH-A	X	-.000111	-.000111	0	%100
13	SF1-BH-A	X	-.000111	-.000111	0	%100
14	SF2-TH-A	X	-.001	-.001	0	%100
15	SF2-BH-A	X	-.001	-.001	0	%100
16	FP-1	X	-.001	-.001	0	%100
17	FP-2	X	-.001	-.001	0	%100
18	FP-3	X	-.001	-.001	0	%100
19	FP-4	X	-.001	-.001	0	%100
20	V1A	X	-.000846	-.000846	0	%100
21	V2A	X	-.000846	-.000846	0	%100
22	D1A	X	-.000923	-.000923	0	%100
23	V3A	X	-.000846	-.000846	0	%100
24	V4A	X	-.000846	-.000846	0	%100
25	D2A	X	-.000923	-.000923	0	%100
26	MAST-1	X	-.002	-.002	0	%100
27	FF1-TH1-B	X	-.001	-.001	0	%100
28	FF1-TH2-B	X	-.001	-.001	0	%100
29	FF1-TH3-B	X	-.001	-.001	0	%100
30	FF1-BH1-B	X	-.001	-.001	0	%100
31	FF1-BH2-B	X	-.001	-.001	0	%100
32	FF1-BH3-B	X	-.001	-.001	0	%100
33	MP-5	X	-.001	-.001	0	%100
34	MP-6	X	-.001	-.001	0	%100
35	MP-7	X	-.001	-.001	0	%100
36	MP-8	X	-.001	-.001	0	%100
37	SA2	X	-.001	-.001	0	%100
38	SF1-TH-B	X	-.001	-.001	0	%100
39	SF1-BH-B	X	-.001	-.001	0	%100
40	SF2-TH-B	X	-.000852	-.000852	0	%100
41	SF2-BH-B	X	-.000852	-.000852	0	%100
42	FP-5	X	-.002	-.002	0	%100
43	FP-6	X	-.002	-.002	0	%100
44	FP-7	X	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	FP-8	X	-.002	-.002	0	%100
46	V1B	X	-.000846	-.000846	0	%100
47	V2B	X	-.000846	-.000846	0	%100
48	D1B	X	-.000923	-.000923	0	%100
49	V3B	X	-.000846	-.000846	0	%100
50	V4B	X	-.000846	-.000846	0	%100
51	D2B	X	-.000923	-.000923	0	%100
52	MAST-2	X	-.002	-.002	0	%100
53	FF1-TH1-G	X	-.000712	-.000712	0	%100
54	FF1-TH2-G	X	-.000712	-.000712	0	%100
55	FF1-TH3-G	X	-.000712	-.000712	0	%100
56	FF1-BH1-G	X	-.000712	-.000712	0	%100
57	FF1-BH2-G	X	-.000712	-.000712	0	%100
58	FF1-BH3-G	X	-.000712	-.000712	0	%100
59	MP-9	X	-.001	-.001	0	%100
60	MP-10	X	-.001	-.001	0	%100
61	MP-11	X	-.001	-.001	0	%100
62	MP-12	X	-.001	-.001	0	%100
63	SA3	X	-.001	-.001	0	%100
64	SF1-TH-G	X	-.000946	-.000946	0	%100
65	SF1-BH-G	X	-.000946	-.000946	0	%100
66	SF2-TH-G	X	-.000113	-.000113	0	%100
67	SF2-BH-G	X	-.000113	-.000113	0	%100
68	FP-9	X	-.001	-.001	0	%100
69	FP-10	X	-.001	-.001	0	%100
70	FP-11	X	-.001	-.001	0	%100
71	FP-12	X	-.001	-.001	0	%100
72	V1G	X	-.000846	-.000846	0	%100
73	V2G	X	-.000846	-.000846	0	%100
74	D1G	X	-.000923	-.000923	0	%100
75	V3G	X	-.000846	-.000846	0	%100
76	V4G	X	-.000846	-.000846	0	%100
77	D2G	X	-.000923	-.000923	0	%100
78	MAST-3	X	-.002	-.002	0	%100
79	FF1-TH1-A	Z	.001	.001	0	%100
80	FF1-TH2-A	Z	.001	.001	0	%100
81	FF1-TH3-A	Z	.001	.001	0	%100
82	FF1-BH1-A	Z	.001	.001	0	%100
83	FF1-BH2-A	Z	.001	.001	0	%100
84	FF1-BH3-A	Z	.001	.001	0	%100
85	MP-1	Z	.003	.003	0	%100
86	MP-2	Z	.003	.003	0	%100
87	MP-3	Z	.003	.003	0	%100
88	MP-4	Z	.003	.003	0	%100
89	SA1	Z	.002	.002	0	%100
90	SF1-TH-A	Z	.00018	.00018	0	%100
91	SF1-BH-A	Z	.00018	.00018	0	%100
92	SF2-TH-A	Z	.002	.002	0	%100
93	SF2-BH-A	Z	.002	.002	0	%100
94	FP-1	Z	.002	.002	0	%100
95	FP-2	Z	.002	.002	0	%100
96	FP-3	Z	.002	.002	0	%100
97	FP-4	Z	.002	.002	0	%100
98	V1A	Z	.002	.002	0	%100
99	V2A	Z	.002	.002	0	%100
100	D1A	Z	.002	.002	0	%100
101	V3A	Z	.002	.002	0	%100
102	V4A	Z	.002	.002	0	%100
103	D2A	Z	.002	.002	0	%100
104	MAST-1	Z	.003	.003	0	%100
105	FF1-TH1-B	Z	.003	.003	0	%100
106	FF1-TH2-B	Z	.003	.003	0	%100
107	FF1-TH3-B	Z	.003	.003	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
108	FF1-BH1-B	Z	.003	.003	0	%100
109	FF1-BH2-B	Z	.003	.003	0	%100
110	FF1-BH3-B	Z	.003	.003	0	%100
111	MP-5	Z	.003	.003	0	%100
112	MP-6	Z	.003	.003	0	%100
113	MP-7	Z	.003	.003	0	%100
114	MP-8	Z	.003	.003	0	%100
115	SA2	Z	.002	.002	0	%100
116	SF1-TH-B	Z	.002	.002	0	%100
117	SF1-BH-B	Z	.002	.002	0	%100
118	SF2-TH-B	Z	.002	.002	0	%100
119	SF2-BH-B	Z	.002	.002	0	%100
120	FP-5	Z	.004	.004	0	%100
121	FP-6	Z	.004	.004	0	%100
122	FP-7	Z	.004	.004	0	%100
123	FP-8	Z	.004	.004	0	%100
124	V1B	Z	.002	.002	0	%100
125	V2B	Z	.002	.002	0	%100
126	D1B	Z	.002	.002	0	%100
127	V3B	Z	.002	.002	0	%100
128	V4B	Z	.002	.002	0	%100
129	D2B	Z	.002	.002	0	%100
130	MAST-2	Z	.003	.003	0	%100
131	FF1-TH1-G	Z	.001	.001	0	%100
132	FF1-TH2-G	Z	.001	.001	0	%100
133	FF1-TH3-G	Z	.001	.001	0	%100
134	FF1-BH1-G	Z	.001	.001	0	%100
135	FF1-BH2-G	Z	.001	.001	0	%100
136	FF1-BH3-G	Z	.001	.001	0	%100
137	MP-9	Z	.003	.003	0	%100
138	MP-10	Z	.003	.003	0	%100
139	MP-11	Z	.003	.003	0	%100
140	MP-12	Z	.003	.003	0	%100
141	SA3	Z	.002	.002	0	%100
142	SF1-TH-G	Z	.002	.002	0	%100
143	SF1-BH-G	Z	.002	.002	0	%100
144	SF2-TH-G	Z	.000173	.000173	0	%100
145	SF2-BH-G	Z	.000173	.000173	0	%100
146	FP-9	Z	.002	.002	0	%100
147	FP-10	Z	.002	.002	0	%100
148	FP-11	Z	.002	.002	0	%100
149	FP-12	Z	.002	.002	0	%100
150	V1G	Z	.002	.002	0	%100
151	V2G	Z	.002	.002	0	%100
152	D1G	Z	.002	.002	0	%100
153	V3G	Z	.002	.002	0	%100
154	V4G	Z	.002	.002	0	%100
155	D2G	Z	.002	.002	0	%100
156	MAST-3	Z	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.002	-.002	0	%100
2	FF1-TH2-A	X	-.002	-.002	0	%100
3	FF1-TH3-A	X	-.002	-.002	0	%100
4	FF1-BH1-A	X	-.002	-.002	0	%100
5	FF1-BH2-A	X	-.002	-.002	0	%100
6	FF1-BH3-A	X	-.002	-.002	0	%100
7	MP-1	X	-.002	-.002	0	%100
8	MP-2	X	-.002	-.002	0	%100
9	MP-3	X	-.002	-.002	0	%100
10	MP-4	X	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	SA1	X	-.002	-.002	0	%100
12	SF1-TH-A	X	-.000293	-.000293	0	%100
13	SF1-BH-A	X	-.000293	-.000293	0	%100
14	SF2-TH-A	X	-.002	-.002	0	%100
15	SF2-BH-A	X	-.002	-.002	0	%100
16	FP-1	X	-.002	-.002	0	%100
17	FP-2	X	-.002	-.002	0	%100
18	FP-3	X	-.002	-.002	0	%100
19	FP-4	X	-.002	-.002	0	%100
20	V1A	X	-.001	-.001	0	%100
21	V2A	X	-.001	-.001	0	%100
22	D1A	X	-.001	-.001	0	%100
23	V3A	X	-.001	-.001	0	%100
24	V4A	X	-.001	-.001	0	%100
25	D2A	X	-.001	-.001	0	%100
26	MAST-1	X	-.002	-.002	0	%100
27	FF1-TH1-B	X	-.002	-.002	0	%100
28	FF1-TH2-B	X	-.002	-.002	0	%100
29	FF1-TH3-B	X	-.002	-.002	0	%100
30	FF1-BH1-B	X	-.002	-.002	0	%100
31	FF1-BH2-B	X	-.002	-.002	0	%100
32	FF1-BH3-B	X	-.002	-.002	0	%100
33	MP-5	X	-.002	-.002	0	%100
34	MP-6	X	-.002	-.002	0	%100
35	MP-7	X	-.002	-.002	0	%100
36	MP-8	X	-.002	-.002	0	%100
37	SA2	X	-.002	-.002	0	%100
38	SF1-TH-B	X	-.002	-.002	0	%100
39	SF1-BH-B	X	-.002	-.002	0	%100
40	SF2-TH-B	X	-.000943	-.000943	0	%100
41	SF2-BH-B	X	-.000943	-.000943	0	%100
42	FP-5	X	-.003	-.003	0	%100
43	FP-6	X	-.003	-.003	0	%100
44	FP-7	X	-.003	-.003	0	%100
45	FP-8	X	-.003	-.003	0	%100
46	V1B	X	-.001	-.001	0	%100
47	V2B	X	-.001	-.001	0	%100
48	D1B	X	-.001	-.001	0	%100
49	V3B	X	-.001	-.001	0	%100
50	V4B	X	-.001	-.001	0	%100
51	D2B	X	-.001	-.001	0	%100
52	MAST-2	X	-.002	-.002	0	%100
53	FF1-TH1-G	X	-.000521	-.000521	0	%100
54	FF1-TH2-G	X	-.000521	-.000521	0	%100
55	FF1-TH3-G	X	-.000521	-.000521	0	%100
56	FF1-BH1-G	X	-.000521	-.000521	0	%100
57	FF1-BH2-G	X	-.000521	-.000521	0	%100
58	FF1-BH3-G	X	-.000521	-.000521	0	%100
59	MP-9	X	-.002	-.002	0	%100
60	MP-10	X	-.002	-.002	0	%100
61	MP-11	X	-.002	-.002	0	%100
62	MP-12	X	-.002	-.002	0	%100
63	SA3	X	-.002	-.002	0	%100
64	SF1-TH-G	X	-.001	-.001	0	%100
65	SF1-BH-G	X	-.001	-.001	0	%100
66	SF2-TH-G	X	-.000607	-.000607	0	%100
67	SF2-BH-G	X	-.000607	-.000607	0	%100
68	FP-9	X	-.000784	-.000784	0	%100
69	FP-10	X	-.000784	-.000784	0	%100
70	FP-11	X	-.000784	-.000784	0	%100
71	FP-12	X	-.000784	-.000784	0	%100
72	V1G	X	-.001	-.001	0	%100
73	V2G	X	-.001	-.001	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	D1G	X	-.001	-.001	0	%100
75	V3G	X	-.001	-.001	0	%100
76	V4G	X	-.001	-.001	0	%100
77	D2G	X	-.001	-.001	0	%100
78	MAST-3	X	-.002	-.002	0	%100
79	FF1-TH1-A	Z	.002	.002	0	%100
80	FF1-TH2-A	Z	.002	.002	0	%100
81	FF1-TH3-A	Z	.002	.002	0	%100
82	FF1-BH1-A	Z	.002	.002	0	%100
83	FF1-BH2-A	Z	.002	.002	0	%100
84	FF1-BH3-A	Z	.002	.002	0	%100
85	MP-1	Z	.002	.002	0	%100
86	MP-2	Z	.002	.002	0	%100
87	MP-3	Z	.002	.002	0	%100
88	MP-4	Z	.002	.002	0	%100
89	SA1	Z	.002	.002	0	%100
90	SF1-TH-A	Z	.000276	.000276	0	%100
91	SF1-BH-A	Z	.000276	.000276	0	%100
92	SF2-TH-A	Z	.002	.002	0	%100
93	SF2-BH-A	Z	.002	.002	0	%100
94	FP-1	Z	.002	.002	0	%100
95	FP-2	Z	.002	.002	0	%100
96	FP-3	Z	.002	.002	0	%100
97	FP-4	Z	.002	.002	0	%100
98	V1A	Z	.001	.001	0	%100
99	V2A	Z	.001	.001	0	%100
100	D1A	Z	.001	.001	0	%100
101	V3A	Z	.001	.001	0	%100
102	V4A	Z	.001	.001	0	%100
103	D2A	Z	.001	.001	0	%100
104	MAST-1	Z	.002	.002	0	%100
105	FF1-TH1-B	Z	.002	.002	0	%100
106	FF1-TH2-B	Z	.002	.002	0	%100
107	FF1-TH3-B	Z	.002	.002	0	%100
108	FF1-BH1-B	Z	.002	.002	0	%100
109	FF1-BH2-B	Z	.002	.002	0	%100
110	FF1-BH3-B	Z	.002	.002	0	%100
111	MP-5	Z	.002	.002	0	%100
112	MP-6	Z	.002	.002	0	%100
113	MP-7	Z	.002	.002	0	%100
114	MP-8	Z	.002	.002	0	%100
115	SA2	Z	.002	.002	0	%100
116	SF1-TH-B	Z	.001	.001	0	%100
117	SF1-BH-B	Z	.001	.001	0	%100
118	SF2-TH-B	Z	.001	.001	0	%100
119	SF2-BH-B	Z	.001	.001	0	%100
120	FP-5	Z	.003	.003	0	%100
121	FP-6	Z	.003	.003	0	%100
122	FP-7	Z	.003	.003	0	%100
123	FP-8	Z	.003	.003	0	%100
124	V1B	Z	.001	.001	0	%100
125	V2B	Z	.001	.001	0	%100
126	D1B	Z	.001	.001	0	%100
127	V3B	Z	.001	.001	0	%100
128	V4B	Z	.001	.001	0	%100
129	D2B	Z	.001	.001	0	%100
130	MAST-2	Z	.002	.002	0	%100
131	FF1-TH1-G	Z	.000625	.000625	0	%100
132	FF1-TH2-G	Z	.000625	.000625	0	%100
133	FF1-TH3-G	Z	.000625	.000625	0	%100
134	FF1-BH1-G	Z	.000625	.000625	0	%100
135	FF1-BH2-G	Z	.000625	.000625	0	%100
136	FF1-BH3-G	Z	.000625	.000625	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
137	MP-9	Z	.002	.002	0	%100
138	MP-10	Z	.002	.002	0	%100
139	MP-11	Z	.002	.002	0	%100
140	MP-12	Z	.002	.002	0	%100
141	SA3	Z	.002	.002	0	%100
142	SF1-TH-G	Z	.001	.001	0	%100
143	SF1-BH-G	Z	.001	.001	0	%100
144	SF2-TH-G	Z	.000538	.000538	0	%100
145	SF2-BH-G	Z	.000538	.000538	0	%100
146	FP-9	Z	.000784	.000784	0	%100
147	FP-10	Z	.000784	.000784	0	%100
148	FP-11	Z	.000784	.000784	0	%100
149	FP-12	Z	.000784	.000784	0	%100
150	V1G	Z	.001	.001	0	%100
151	V2G	Z	.001	.001	0	%100
152	D1G	Z	.001	.001	0	%100
153	V3G	Z	.001	.001	0	%100
154	V4G	Z	.001	.001	0	%100
155	D2G	Z	.001	.001	0	%100
156	MAST-3	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	FF1-TH1-A	X	-.003	-.003	0	%100
2	FF1-TH2-A	X	-.003	-.003	0	%100
3	FF1-TH3-A	X	-.003	-.003	0	%100
4	FF1-BH1-A	X	-.003	-.003	0	%100
5	FF1-BH2-A	X	-.003	-.003	0	%100
6	FF1-BH3-A	X	-.003	-.003	0	%100
7	MP-1	X	-.002	-.002	0	%100
8	MP-2	X	-.002	-.002	0	%100
9	MP-3	X	-.002	-.002	0	%100
10	MP-4	X	-.002	-.002	0	%100
11	SA1	X	-.002	-.002	0	%100
12	SF1-TH-A	X	-.000884	-.000884	0	%100
13	SF1-BH-A	X	-.000884	-.000884	0	%100
14	SF2-TH-A	X	-.002	-.002	0	%100
15	SF2-BH-A	X	-.002	-.002	0	%100
16	FP-1	X	-.003	-.003	0	%100
17	FP-2	X	-.003	-.003	0	%100
18	FP-3	X	-.003	-.003	0	%100
19	FP-4	X	-.003	-.003	0	%100
20	V1A	X	-.001	-.001	0	%100
21	V2A	X	-.001	-.001	0	%100
22	D1A	X	-.002	-.002	0	%100
23	V3A	X	-.001	-.001	0	%100
24	V4A	X	-.001	-.001	0	%100
25	D2A	X	-.002	-.002	0	%100
26	MAST-1	X	-.003	-.003	0	%100
27	FF1-TH1-B	X	-.002	-.002	0	%100
28	FF1-TH2-B	X	-.002	-.002	0	%100
29	FF1-TH3-B	X	-.002	-.002	0	%100
30	FF1-BH1-B	X	-.002	-.002	0	%100
31	FF1-BH2-B	X	-.002	-.002	0	%100
32	FF1-BH3-B	X	-.002	-.002	0	%100
33	MP-5	X	-.002	-.002	0	%100
34	MP-6	X	-.002	-.002	0	%100
35	MP-7	X	-.002	-.002	0	%100
36	MP-8	X	-.002	-.002	0	%100
37	SA2	X	-.002	-.002	0	%100
38	SF1-TH-B	X	-.002	-.002	0	%100
39	SF1-BH-B	X	-.002	-.002	0	%100

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	SF2-TH-B	X	-.000757	-.000757	0	%100
41	SF2-BH-B	X	-.000757	-.000757	0	%100
42	FP-5	X	-.003	-.003	0	%100
43	FP-6	X	-.003	-.003	0	%100
44	FP-7	X	-.003	-.003	0	%100
45	FP-8	X	-.003	-.003	0	%100
46	V1B	X	-.001	-.001	0	%100
47	V2B	X	-.001	-.001	0	%100
48	D1B	X	-.002	-.002	0	%100
49	V3B	X	-.001	-.001	0	%100
50	V4B	X	-.001	-.001	0	%100
51	D2B	X	-.002	-.002	0	%100
52	MAST-2	X	-.003	-.003	0	%100
53	FF1-TH1-G	X	0	0	0	%100
54	FF1-TH2-G	X	0	0	0	%100
55	FF1-TH3-G	X	0	0	0	%100
56	FF1-BH1-G	X	0	0	0	%100
57	FF1-BH2-G	X	0	0	0	%100
58	FF1-BH3-G	X	0	0	0	%100
59	MP-9	X	-.002	-.002	0	%100
60	MP-10	X	-.002	-.002	0	%100
61	MP-11	X	-.002	-.002	0	%100
62	MP-12	X	-.002	-.002	0	%100
63	SA3	X	-.002	-.002	0	%100
64	SF1-TH-G	X	-.001	-.001	0	%100
65	SF1-BH-G	X	-.001	-.001	0	%100
66	SF2-TH-G	X	-.001	-.001	0	%100
67	SF2-BH-G	X	-.001	-.001	0	%100
68	FP-9	X	0	0	0	%100
69	FP-10	X	0	0	0	%100
70	FP-11	X	0	0	0	%100
71	FP-12	X	0	0	0	%100
72	V1G	X	-.001	-.001	0	%100
73	V2G	X	-.001	-.001	0	%100
74	D1G	X	-.002	-.002	0	%100
75	V3G	X	-.001	-.001	0	%100
76	V4G	X	-.001	-.001	0	%100
77	D2G	X	-.002	-.002	0	%100
78	MAST-3	X	-.003	-.003	0	%100
79	FF1-TH1-A	Z	.001	.001	0	%100
80	FF1-TH2-A	Z	.001	.001	0	%100
81	FF1-TH3-A	Z	.001	.001	0	%100
82	FF1-BH1-A	Z	.001	.001	0	%100
83	FF1-BH2-A	Z	.001	.001	0	%100
84	FF1-BH3-A	Z	.001	.001	0	%100
85	MP-1	Z	.002	.002	0	%100
86	MP-2	Z	.002	.002	0	%100
87	MP-3	Z	.002	.002	0	%100
88	MP-4	Z	.002	.002	0	%100
89	SA1	Z	.001	.001	0	%100
90	SF1-TH-A	Z	.000481	.000481	0	%100
91	SF1-BH-A	Z	.000481	.000481	0	%100
92	SF2-TH-A	Z	.001	.001	0	%100
93	SF2-BH-A	Z	.001	.001	0	%100
94	FP-1	Z	.002	.002	0	%100
95	FP-2	Z	.002	.002	0	%100
96	FP-3	Z	.002	.002	0	%100
97	FP-4	Z	.002	.002	0	%100
98	V1A	Z	.00094	.00094	0	%100
99	V2A	Z	.00094	.00094	0	%100
100	D1A	Z	.001	.001	0	%100
101	V3A	Z	.00094	.00094	0	%100
102	V4A	Z	.00094	.00094	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
103	D2A	Z	.001	.001	0	%100
104	MAST-1	Z	.002	.002	0	%100
105	FF1-TH1-B	Z	.001	.001	0	%100
106	FF1-TH2-B	Z	.001	.001	0	%100
107	FF1-TH3-B	Z	.001	.001	0	%100
108	FF1-BH1-B	Z	.001	.001	0	%100
109	FF1-BH2-B	Z	.001	.001	0	%100
110	FF1-BH3-B	Z	.001	.001	0	%100
111	MP-5	Z	.002	.002	0	%100
112	MP-6	Z	.002	.002	0	%100
113	MP-7	Z	.002	.002	0	%100
114	MP-8	Z	.002	.002	0	%100
115	SA2	Z	.001	.001	0	%100
116	SF1-TH-B	Z	.001	.001	0	%100
117	SF1-BH-B	Z	.001	.001	0	%100
118	SF2-TH-B	Z	.000532	.000532	0	%100
119	SF2-BH-B	Z	.000532	.000532	0	%100
120	FP-5	Z	.002	.002	0	%100
121	FP-6	Z	.002	.002	0	%100
122	FP-7	Z	.002	.002	0	%100
123	FP-8	Z	.002	.002	0	%100
124	V1B	Z	.00094	.00094	0	%100
125	V2B	Z	.00094	.00094	0	%100
126	D1B	Z	.001	.001	0	%100
127	V3B	Z	.00094	.00094	0	%100
128	V4B	Z	.00094	.00094	0	%100
129	D2B	Z	.001	.001	0	%100
130	MAST-2	Z	.002	.002	0	%100
131	FF1-TH1-G	Z	0	0	0	%100
132	FF1-TH2-G	Z	0	0	0	%100
133	FF1-TH3-G	Z	0	0	0	%100
134	FF1-BH1-G	Z	0	0	0	%100
135	FF1-BH2-G	Z	0	0	0	%100
136	FF1-BH3-G	Z	0	0	0	%100
137	MP-9	Z	.002	.002	0	%100
138	MP-10	Z	.002	.002	0	%100
139	MP-11	Z	.002	.002	0	%100
140	MP-12	Z	.002	.002	0	%100
141	SA3	Z	.001	.001	0	%100
142	SF1-TH-G	Z	.000731	.000731	0	%100
143	SF1-BH-G	Z	.000731	.000731	0	%100
144	SF2-TH-G	Z	.000635	.000635	0	%100
145	SF2-BH-G	Z	.000635	.000635	0	%100
146	FP-9	Z	0	0	0	%100
147	FP-10	Z	0	0	0	%100
148	FP-11	Z	0	0	0	%100
149	FP-12	Z	0	0	0	%100
150	V1G	Z	.00094	.00094	0	%100
151	V2G	Z	.00094	.00094	0	%100
152	D1G	Z	.001	.001	0	%100
153	V3G	Z	.00094	.00094	0	%100
154	V4G	Z	.00094	.00094	0	%100
155	D2G	Z	.001	.001	0	%100
156	MAST-3	Z	.002	.002	0	%100

Member Area Loads

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

Company : Tower Engineering Professionals, Inc.
Designer : SDJ
Job Number : TEP No. 69007.677391
Model Name : ATC 411256

Apr 1, 2022
1:51 PM
Checked By: JWS

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	CM1-1	max	.735	4	2.261	42	1.96	4	1.727	28	.283	12	.607	4
2		min	-3.079	44	.119	3	-2.729	28	-1.359	4	-.32	20	-1.399	44
3	CM1-2	max	2.727	35	1.718	37	1.71	53	.901	20	.244	16	.017	11
4		min	.147	11	.176	15	-.791	12	-.539	12	-.35	24	-1.443	35
5	N134	max	3.364	18	2.206	48	-.307	7	.696	34	.202	2	2.014	18
6		min	-1.867	10	.121	8	-1.685	34	.057	13	-.238	26	-1.339	10
7	N135	max	.502	2	1.68	42	1.677	38	.87	39	.234	5	1.44	42
8		min	-2.687	42	.178	5	.25	14	.154	14	-.34	29	-.418	17
9	N205	max	1.298	31	2.202	37	3.568	39	1.076	15	.199	7	.818	31
10		min	-1.13	7	.139	14	-1.414	15	-1.876	23	-.235	31	-.784	7
11	N206	max	.716	64	1.688	34	.184	6	.24	6	.24	10	.455	23
12		min	-.786	23	.172	10	-3.056	47	-1.627	46	-.345	18	-.354	64
13	Totals:	max	5.609	18	11.043	49	5.44	22						
14		min	-5.609	10	2.904	89	-5.44	14						

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
1	MP-4	PIPE_2.0	.542	3.438	26	.124	3.542		26	16.812	32.13	1.872	1.872	1....	H1-1b
2	MP-12	PIPE_2.0	.542	3.438	21	.124	3.542		21	16.812	32.13	1.872	1.872	1....	H1-1b
3	MP-8	PIPE_2.0	.541	3.438	31	.124	3.542		31	16.812	32.13	1.872	1.872	2....	H1-1b
4	MP-2	PIPE_2.0	.427	3.438	26	.033	3.438		26	16.812	32.13	1.872	1.872	2....	H1-1b
5	MP-10	PIPE_2.0	.427	3.438	21	.033	3.438		21	16.812	32.13	1.872	1.872	1....	H1-1b
6	MP-6	PIPE_2.0	.427	3.438	31	.033	3.438		31	16.812	32.13	1.872	1.872	2.2	H1-1b
7	FF1-TH3-G	PIPE_2.0X	.411	.328	21	.117	.328		29	24.016	63	3.615	3.615	1....	H1-1b
8	FF1-TH3-A	PIPE_2.0X	.411	.328	26	.117	.328		18	24.016	63	3.615	3.615	1....	H1-1b
9	FF1-TH3-B	PIPE_2.0X	.411	.328	31	.118	.328		24	24.016	63	3.615	3.615	1....	H1-1b
10	FF1-TH2-A	PIPE_2.0X	.344	8	26	.087	0		18	20.272	63	3.615	3.615	1....	H1-1b
11	FF1-TH2-G	PIPE_2.0X	.342	8	21	.087	0		29	20.272	63	3.615	3.615	1....	H1-1b
12	FF1-TH2-B	PIPE_2.0X	.342	8	31	.087	0		23	20.272	63	3.615	3.615	1....	H1-1b
13	MP-11	PIPE_2.0	.276	3.542	20	.080	3.542		20	19.964	32.13	1.872	1.872	3....	H1-1b
14	MP-3	PIPE_2.0	.273	3.542	26	.078	3.542		25	19.964	32.13	1.872	1.872	2....	H1-1b
15	MP-7	PIPE_2.0	.272	3.542	31	.077	3.542		30	19.964	32.13	1.872	1.872	1....	H1-1b
16	FF1-BH3-A	PIPE_2.0X	.261	2.99	61	.072	.328		59	24.016	63	3.615	3.615	1....	H1-1b
17	FF1-BH3-B	PIPE_2.0X	.261	2.99	51	.072	.328		64	24.016	63	3.615	3.615	1....	H1-1b
18	FF1-BH3-G	PIPE_2.0X	.261	2.99	56	.072	.328		54	24.016	63	3.615	3.615	1....	H1-1b
19	FP-2	CWS00952	.260	.161	18	.071	.323	y	33	34.441	34.441	.359	1.523	1....	H1-1b
20	FP-10	CWS00952	.259	.161	29	.072	.323	y	27	34.441	34.441	.359	1.523	1....	H1-1b
21	FP-6	CWS00952	.259	.161	23	.070	.323	y	22	34.441	34.441	.359	1.523	1....	H1-1b
22	FF1-BH2-B	PIPE_2.0X	.228	8	48	.067	8		34	20.272	63	3.615	3.615	2....	H1-1b
23	FF1-BH2-A	PIPE_2.0X	.227	8	42	.066	8		43	20.272	63	3.615	3.615	2....	H1-1b
24	FF1-BH2-G	PIPE_2.0X	.227	8	37	.065	8		39	20.272	63	3.615	3.615	2....	H1-1b
25	MAST-1	PIPE_4.0	.204	1.021	28	.159	1.021		28	91.934	93.24	10.631	10.631	2....	H1-1b
26	V4G	SR 3/4	.196	3	34	.011	0		19	6.408	19.88	.249	.249	3....	H1-1b*
27	V4B	SR 3/4	.194	3	42	.010	0		30	6.408	19.88	.249	.249	2....	H1-1b*
28	V4A	SR 3/4	.191	3	39	.011	0		25	6.408	19.88	.249	.249	2....	H1-1b*
29	MAST-2	PIPE_4.0	.190	1.021	18	.143	1.021		18	91.934	93.24	10.631	10.631	3....	H1-1b
30	MAST-3	PIPE_4.0	.190	1.021	23	.142	1.021		23	91.934	93.24	10.631	10.631	2....	H1-1b
31	V3A	SR 3/4	.179	3	20	.003	0		25	6.408	19.88	.249	.249	3....	H1-1b*
32	SF2-TH-B	PIPE_2.0X	.177	0	34	.096	0		33	45.626	63	3.615	3.615	3....	H1-1b
33	SF2-TH-A	PIPE_2.0X	.177	0	43	.097	0		27	45.626	63	3.615	3.615	3....	H1-1b
34	V3B	SR 3/4	.173	3	42	.003	0		30	6.408	19.88	.249	.249	2....	H1-1b*
35	SF2-TH-G	PIPE_2.0X	.173	0	39	.095	0		22	45.626	63	3.615	3.615	3....	H1-1b
36	V3G	SR 3/4	.169	3	47	.003	0		19	6.408	19.88	.249	.249	2....	H1-1b*
37	D2A	SR 3/4	.160	4.689	38	.004	4.689		19	2.623	19.88	.249	.249	2....	H1-1b
38	D2G	SR 3/4	.159	4.689	34	.004	4.689		30	2.623	19.88	.249	.249	2....	H1-1b
39	D2B	SR 3/4	.159	4.689	43	.004	4.689		25	2.623	19.88	.249	.249	2....	H1-1b
40	SF2-BH-B	PIPE_2.0X	.146	0	42	.069	3.989		64	45.626	63	3.615	3.615	2....	H1-1b
41	SF2-BH-A	PIPE_2.0X	.143	0	36	.069	3.989		59	45.626	63	3.615	3.615	2....	H1-1b
42	SF2-BH-G	PIPE_2.0X	.142	0	47	.069	3.989		54	45.626	63	3.615	3.615	2....	H1-1b
43	FP-4	CWS00952	.135	0	34	.023	0	z	59	34.441	34.441	.359	1.523	1....	H1-1b

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

	Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
44	FP-8	CWS00952	.134	0	57	.023	0	z	64	34.441	34.441	.359	1.523	1....	H1-1b
45	FP-12	CWS00952	.134	0	62	.023	0	z	53	34.441	34.441	.359	1.523	1....	H1-1b
46	SF1-TH-A	PIPE_2.0X	.114	0	34	.068	0		41	45.626	63	3.615	3.615	3....	H1-1b
47	D1A	SR 3/4	.111	4.689	49	.006	4.689		33	2.623	19.88	.249	.249	2....	H1-1b
48	D1B	SR 3/4	.110	4.689	38	.006	4.689		22	2.623	19.88	.249	.249	2....	H1-1b
49	D1G	SR 3/4	.109	4.689	43	.006	4.689		27	2.623	19.88	.249	.249	2....	H1-1b
50	V1A	SR 3/4	.108	3	44	.003	0		25	6.408	19.88	.249	.249	2....	H1-1b*
51	V2A	SR 3/4	.106	3	35	.010	0		25	6.408	19.88	.249	.249	2....	H1-1b*
52	V2B	SR 3/4	.103	3	40	.010	0		30	6.408	19.88	.249	.249	2....	H1-1b*
53	V2G	SR 3/4	.102	3	45	.010	0		19	6.408	19.88	.249	.249	2....	H1-1b*
54	SF1-TH-B	PIPE_2.0X	.100	0	41	.067	0		42	45.626	63	3.615	3.615	3....	H1-1b
55	V1B	SR 3/4	.099	3	33	.003	0		30	6.408	19.88	.249	.249	2....	H1-1b*
56	SF1-TH-G	PIPE_2.0X	.098	0	47	.067	0		34	45.626	63	3.615	3.615	3....	H1-1b
57	V1G	SR 3/4	.098	3	22	.003	0		19	6.408	19.88	.249	.249	2....	H1-1b*
58	SA3	PIPE_2.0	.095	6.451	27	.035	0		64	22.502	45.9	2.674	2.674	1....	H1-1b*
59	SA1	PIPE_2.0	.094	6.451	33	.035	0		53	22.502	45.9	2.674	2.674	1....	H1-1b*
60	SA2	PIPE_2.0	.093	6.451	22	.035	0		59	22.502	45.9	2.674	2.674	1....	H1-1b*
61	SF1-BH-A	PIPE_2.0X	.085	0	42	.059	0		42	45.626	63	3.615	3.615	2....	H1-1b
62	SF1-BH-G	PIPE_2.0X	.083	0	34	.055	0		39	45.626	63	3.615	3.615	2....	H1-1b
63	SF1-BH-B	PIPE_2.0X	.080	0	45	.056	0		49	45.626	63	3.615	3.615	2....	H1-1b
64	FF1-TH1-A	PIPE_2.0X	.079	3.172	18	.037	3.172		26	24.016	63	3.615	3.615	2....	H1-1b
65	FF1-TH1-G	PIPE_2.0X	.079	3.172	29	.037	3.172		21	24.016	63	3.615	3.615	2....	H1-1b
66	FF1-TH1-B	PIPE_2.0X	.079	3.172	23	.037	3.172		31	24.016	63	3.615	3.615	2....	H1-1b
67	MP-1	PIPE_2.0	.074	3.542	26	.010	6.458		48	19.964	32.13	1.872	1.872	2....	H1-1b
68	MP-9	PIPE_2.0	.074	3.542	21	.010	6.458		42	19.964	32.13	1.872	1.872	3....	H1-1b
69	MP-5	PIPE_2.0	.074	3.542	31	.009	6.458		37	19.964	32.13	1.872	1.872	1....	H1-1b
70	FP-1	CWS00952	.069	.161	26	.017	.323	y	26	34.441	34.441	.359	1.523	1....	H1-1b
71	FP-9	CWS00952	.069	.161	21	.017	.323	y	21	34.441	34.441	.359	1.523	1....	H1-1b
72	FP-5	CWS00952	.069	.161	31	.017	.323	y	31	34.441	34.441	.359	1.523	1....	H1-1b
73	FF1-BH1-B	PIPE_2.0X	.066	3.5	48	.014	3.172		34	24.016	63	3.615	3.615	2....	H1-1b
74	FF1-BH1-G	PIPE_2.0X	.066	3.5	37	.014	3.172		39	24.016	63	3.615	3.615	2....	H1-1b
75	FF1-BH1-A	PIPE_2.0X	.065	3.5	42	.014	3.172		45	24.016	63	3.615	3.615	2....	H1-1b
76	FP-11	CWS00952	.035	.323	42	.006	.323	y	27	34.441	34.441	.359	1.523	1....	H1-1b
77	FP-7	CWS00952	.035	.323	38	.006	.323	y	22	34.441	34.441	.359	1.523	1....	H1-1b
78	FP-3	CWS00952	.035	.323	49	.006	.323	y	33	34.441	34.441	.359	1.523	1....	H1-1b

Envelope None Cold Formed Steel Code Checks

Member	Shape	Code ...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	Pn[k]	Tn[k]	Mnyy[k-ft]	Mnzz[k-ft]	Cb	Cmyy	Cmzz	Eqn
No Data to Print ...																

TOWER ENGINEERING PROFESSIONALS

ATC 411256

TEP No. 69007.677391

Analysis By: SDJ 4/1/2022

Checked By: JWS 4/1/2022

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

Wind Inputs:

Ult. Wind Velocity:	116.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.50	inches
Mount Centerline:	130.0	ft
Antenna Centerline:	130.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	339	ft

Wind Calculations:

K_{zt}:	1.000	Section 2.6.6
K_d:	0.950	
$K_{z\text{-Mount}}$:	1.065	Section 2.6.5.2
$K_{z\text{-Antenna}}$:	1.065	Section 2.6.5.2
K_{iz}:	1.147	Section 2.6.10
Ice Thickness:	1.720	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_z G_h)_{Mount}$:	34.43	$(q_z G_h)_{Mount}$:	6.40
$(q_z G_h)_{Antenna}$:	34.43	$(q_z G_h)_{Antenna}$:	6.40

Seismic Code Revisions:	TIA-222-H
Seismic Risk Category:	II

Seismic Input

S_{DS}:	0.189	Design Short Period Spectral Accel.
I_p:	1.0	Importance Factor
R_p:	2.0	Response Modification Factor
ρ:	1.0	
A_s:	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
S_1:	0.054	Spectral Acceleration at a Period of 1 Second

Seismic Design Force

Cs:	0.095	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1

Antenna Loads are Calculated in Accordance with TIA-222-H
Azimuth is the absolute angle measured clockwise from RISA-3D global X-axis.

										Distance from start node of the member		
MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
Kathrein Scala	840370799	96.00	14.90	6.50	105.80	0.00	1	Flat	MP-2	0.50	7.50	
Ericsson	RRUS 4478 B14	18.10	13.40	8.30	59.40	90.00	1	Flat	MP-2	2.00		
Ericsson	RRUS 8843 B2, B66A	14.90	13.20	10.90	72.00	90.00	1	Flat	MP-2	2.00		
Ericsson	Air 6449 B77D	30.40	15.90	8.10	81.60	0.00	1	Flat	MP-3	1.00	3.00	
Ericsson	AIR 6419 B77G	28.30	16.10	7.90	66.10	0.00	1	Flat	MP-3	5.00	7.00	
CCI	DMP65R-BU8D	96.00	20.70	7.70	95.70	0.00	1	Flat	MP-4	0.50	7.50	
Ericsson	RRUS 4449 B5, B12	17.90	13.20	9.40	71.00	90.00	1	Flat	MP-4	2.00		
Ericsson	RRUS 32 B30	27.20	12.10	7.00	60.00	90.00	1	Flat	MP-4	2.00		
Kathrein Scala	840370799	96.00	14.90	6.50	105.80	123.00	1	Flat	MP-6	0.50	7.50	
Ericsson	RRUS 4478 B14	18.10	13.40	8.30	59.40	210.00	1	Flat	MP-6	2.00		
Ericsson	RRUS 8843 B2, B66A	14.90	13.20	10.90	72.00	210.00	1	Flat	MP-6	2.00		
Ericsson	Air 6449 B77D	30.40	15.90	8.10	81.60	123.00	1	Flat	MP-7	1.00	3.00	
Ericsson	AIR 6419 B77G	28.30	16.10	7.90	66.10	123.00	1	Flat	MP-7	5.00	7.00	
CCI	DMP65R-BU8D	96.00	20.70	7.70	95.70	123.00	1	Flat	MP-8	0.50	7.50	
Ericsson	RRUS 4449 B5, B12	17.90	13.20	9.40	71.00	210.00	1	Flat	MP-8	2.00		
Ericsson	RRUS 32 B30	27.20	12.10	7.00	60.00	210.00	1	Flat	MP-8	2.00		
Kathrein Scala	840370799	96.00	14.90	6.50	105.80	240.00	1	Flat	MP-10	0.50	7.50	
Ericsson	RRUS 4478 B14	18.10	13.40	8.30	59.40	330.00	1	Flat	MP-10	2.00		
Ericsson	RRUS 8843 B2, B66A	14.90	13.20	10.90	72.00	330.00	1	Flat	MP-10	2.00		
Ericsson	Air 6449 B77D	30.40	15.90	8.10	81.60	240.00	1	Flat	MP-11	1.00	3.00	
Ericsson	AIR 6419 B77G	28.30	16.10	7.90	66.10	240.00	1	Flat	MP-11	5.00	7.00	
CCI	DMP65R-BU8D	96.00	20.70	7.70	95.70	240.00	1	Flat	MP-12	0.50	7.50	
Ericsson	RRUS 4449 B5, B12	17.90	13.20	9.40	71.00	330.00	1	Flat	MP-12	2.00		
Ericsson	RRUS 32 B30	27.20	12.10	7.00	60.00	330.00	1	Flat	MP-12	2.00		
Raycap	DC9-48-60-24-8C-EV	31.40	18.30	10.20	16.00	0.00	1	Flat	SF1-TH-A	1.50		
Raycap	DC6-48-60-18-8F	23.50	9.70	9.70	20.00	0.00	1	Round	SF1-TH-B	1.50		
Raycap	DC6-48-60-18-8F	23.50	9.70	9.70	20.00	0.00	1	Round	SF1-TH-G	1.50		

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

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
FF1-TH1-A	2.375	180.00	Round	90.00	7.46
FF1-TH2-A	2.375	180.00	Round	90.00	7.46
FF1-TH3-A	2.375	180.00	Round	90.00	7.46
FF1-BH1-A	2.375	180.00	Round	90.00	7.46
FF1-BH2-A	2.375	180.00	Round	90.00	7.46
FF1-BH3-A	2.375	180.00	Round	90.00	7.46
MP-1	2.375	120.00	Round		7.46
MP-2	2.375	120.00	Round		7.46
MP-3	2.375	120.00	Round		7.46
MP-4	2.375	120.00	Round		7.46
SA1	2.375	77.42	Round		7.46
SF1-TH-A	2.375	51.06	Round	54.79	7.46
SF1-BH-A	2.375	51.06	Round	54.79	7.46
SF2-TH-A	2.375	51.06	Round	-54.79	7.46
SF2-BH-A	2.375	51.06	Round	-54.79	7.46
FP-1	0.500	3.88	Flat	90.00	5.25
FP-2	0.500	3.88	Flat	90.00	5.25
FP-3	0.500	3.88	Flat	90.00	5.25
FP-4	0.500	3.88	Flat	90.00	5.25
V1A	0.750	36.00	Round		2.36
V2A	0.750	36.00	Round		2.36
D1A	0.750	56.27	Round		2.36
V3A	0.750	36.00	Round		2.36
V4A	0.750	36.00	Round		2.36
D2A	0.750	56.27	Round		2.36
MAST-1	4.500	84.00	Round		14.14
FF1-TH1-B	2.375	180.00	Round	-30.00	7.46
FF1-TH2-B	2.375	180.00	Round	-30.00	7.46
FF1-TH3-B	2.375	180.00	Round	-30.00	7.46
FF1-BH1-B	2.375	180.00	Round	-30.00	7.46
FF1-BH2-B	2.375	180.00	Round	-30.00	7.46
FF1-BH3-B	2.375	180.00	Round	-30.00	7.46
MP-5	2.375	120.00	Round		7.46
MP-6	2.375	120.00	Round		7.46
MP-7	2.375	120.00	Round		7.46
MP-8	2.375	120.00	Round		7.46
SA2	2.375	77.42	Round		7.46
SF1-TH-B	2.375	51.06	Round	-65.21	7.46
SF1-BH-B	2.375	51.06	Round	-65.21	7.46
SF2-TH-B	2.375	51.06	Round	5.21	7.46
SF2-BH-B	2.375	51.06	Round	5.21	7.46
FP-5	0.500	3.87	Flat	-30.00	5.25
FP-6	0.500	3.87	Flat	-30.00	5.25
FP-7	0.500	3.87	Flat	-30.00	5.25
FP-8	0.500	3.87	Flat	-30.00	5.25
V1B	0.750	36.00	Round		2.36
V2B	0.750	36.00	Round		2.36
D1B	0.750	56.27	Round		2.36
V3B	0.750	36.00	Round		2.36
V4B	0.750	36.00	Round		2.36
D2B	0.750	56.27	Round		2.36
MAST-2	4.500	84.00	Round		14.14

FF1-TH1-G	2.375	180.00	Round	30.00	7.46
FF1-TH2-G	2.375	180.00	Round	30.00	7.46
FF1-TH3-G	2.375	180.00	Round	30.00	7.46
FF1-BH1-G	2.375	180.00	Round	30.00	7.46
FF1-BH2-G	2.375	180.00	Round	30.00	7.46
FF1-BH3-G	2.375	180.00	Round	30.00	7.46
MP-9	2.375	120.00	Round		7.46
MP-10	2.375	120.00	Round		7.46
MP-11	2.375	120.00	Round		7.46
MP-12	2.375	120.00	Round		7.46
SA3	2.375	77.42	Round		7.46
SF1-TH-G	2.375	51.06	Round	-5.21	7.46
SF1-BH-G	2.375	51.06	Round	-5.21	7.46
SF2-TH-G	2.375	51.06	Round	65.21	7.46
SF2-BH-G	2.375	51.06	Round	65.21	7.46
FP-9	0.500	3.87	Flat	30.00	5.25
FP-10	0.500	3.87	Flat	30.00	5.25
FP-11	0.500	3.87	Flat	30.00	5.25
FP-12	0.500	3.87	Flat	30.00	5.25
V1G	0.750	36.00	Round		2.36
V2G	0.750	36.00	Round		2.36
D1G	0.750	56.27	Round		2.36
V3G	0.750	36.00	Round		2.36
V4G	0.750	36.00	Round		2.36
D2G	0.750	56.27	Round		2.36
MAST-3	4.500	84.00	Round		14.14

TOWER ENGINEERING PROFESSIONALS

ATC 411256

TEP No.	69007.677391	
Analysis By:	SDJ	4/1/2022
Checked By:	JWS	4/1/2022

Moment Bolt Group - Collar Connection

Code Revisions:	ANSI/TIA-222-H
Bolt Type:	U-Bolts

Connection Inputs:

Bolt Size:	0.625	in
# Bolt Legs:	4	
Plate Width:	-	in
Plate Height:	-	in
Bolt H Gap:	5.1250	in
Bolt V Gap:	9.250	in
Plate T:	-	in
Slip Member Ø:	4.500	in
Bolt Grade:	A36	

Capacities:

Slip Capacity=	10.9%	PASS
Bolt Capacity=	17.8%	PASS

Bolt Properties:

Fy_{bolt}:	36.0	ksi
Fu_{bolt}:	58.0	ksi
r:	5.3	in
J:	111.8	in^4/in^2
A_{bolt}:	0.3	in^2
$A_{bolt,\ Net\ Tensile}$:	0.2	in^2
Pretension:	6.1	kips

TOWER ENGINEERING PROFESSIONALS

Moment Bolt Group - Monopole Attachment Connection

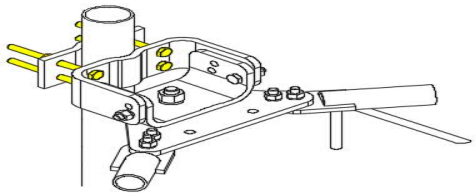
Code Revisions:	ANSI/TIA-222-H
Bolt Type:	Headed Bolts

Connection Inputs:

Bolt Size:	0.625	in
# Bolts:	4	
Plate Width:	N/A	in
Plate Height:	N/A	in
Bolt H Gap:	6.5	in
Bolt V Gap:	2.0	in
Plate T:	N/A	in
Slip Member Ø:	4.5	in
Bolt Grade:	A307	

Capacities:

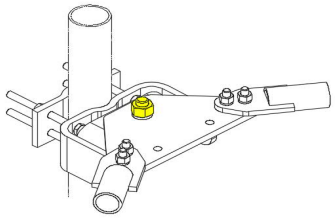
Single Bolt Capacity =	13.1%	PASS
Bolt Capacity=	13.4%	PASS



Bolt Properties:

Fy_{bolt}:	36.0	ksi
Fu_{bolt}:	60.0	ksi
r:	3.4	in
J:	46.3	in^4/in^2
A_{bolt}:	0.3	in^2
$A_{bolt,\ Net\ Tensile}$:	0.2	in^2
Pretension:	9.5	kips

A_{gross}:	6.42	in^2
$A_{Net\ Tensile}$:	5.58	in^2
T_n =	208.07	

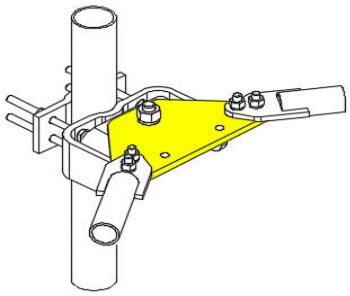


Single Bolt Check

Bolt Size:	1.000	
Bolt F_u:	120	ksi
$Bolt_{A,\ Net\ Tensile}$:	0.606	in^2

Max Fx:	3.938	kip
Max Fy:	1.859	kip
Max Fz:	2.41	kip

V_{max}=	4.617	kips
$ØR_{NV}$ =	35.343	kips
T_{max} =	1.859	kips
$ØR_{NT}$ =	54.54	kips

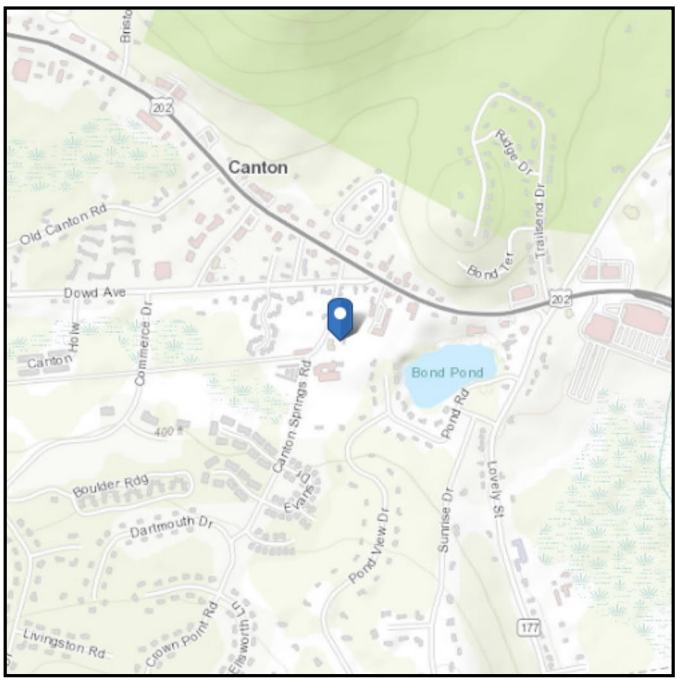


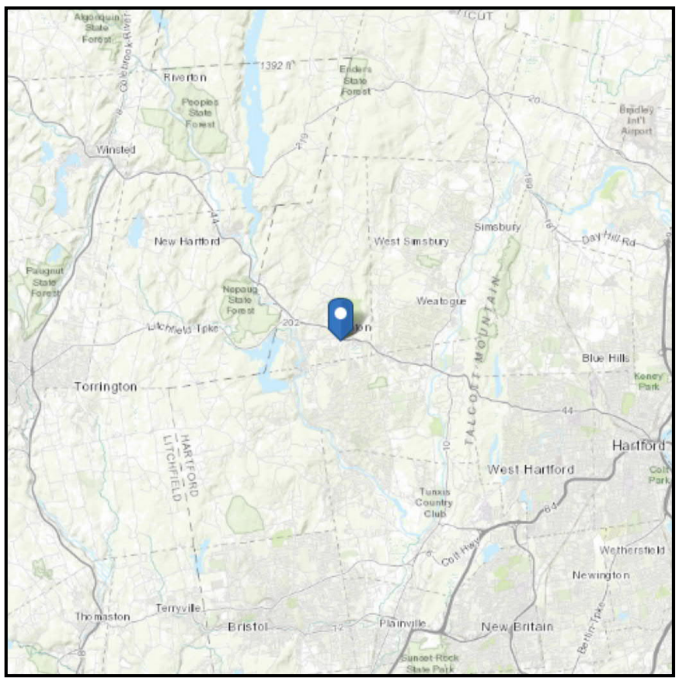
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 339.31 ft (NAVD 88)
Latitude: 41.8229
Longitude: -72.8952





Wind

Results:

Wind Speed	116 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	89 Vmph
100-year MRI	96 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu Mar 24 2022

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

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

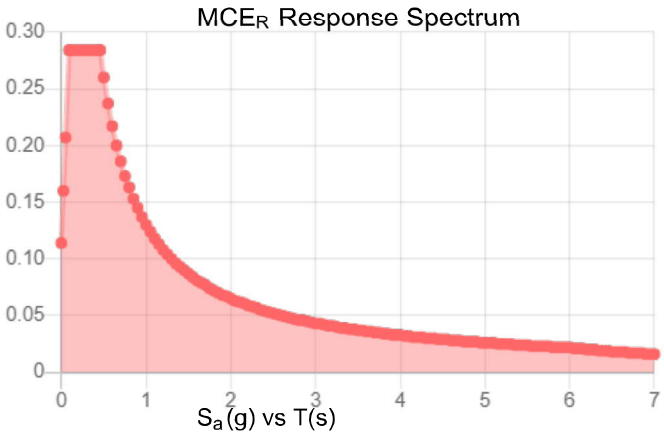
Seismic

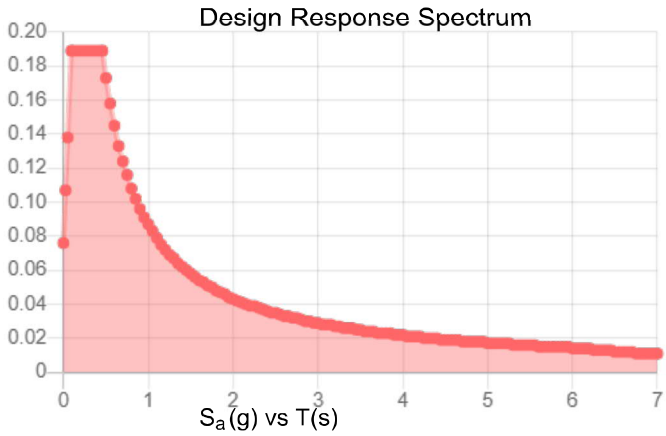
Site Soil Class: D - Default (see Section 11.4.3)

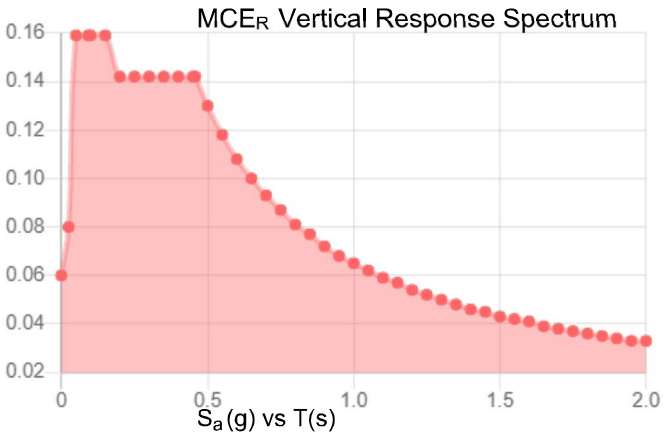
Results:

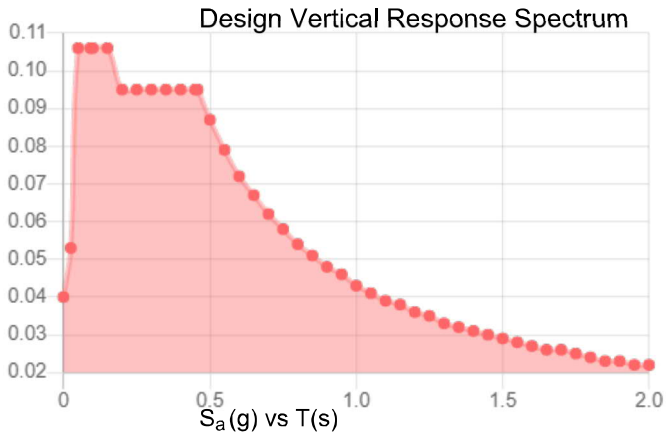
S_S :	0.177	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.094
F_v :	2.4	PGA_M :	0.151
S_{MS} :	0.284	F_{PGA} :	1.6
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.189	C_v :	0.7

Seismic Design Category B









Data Accessed: Thu Mar 24 2022

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	5 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Thu Mar 24 2022

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

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

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**140 ft Monopole**
ATC Site Name	:	**CANTON CT,CT**
ATC Site Number	:	**411256**
Engineering Number	:	**13757774_C3_04**
Proposed Carrier	:	**AT&T MOBILITY**
Carrier Site Name	:	**MRCTB055481**
Carrier Site Number	:	**CTL01022**
Site Location	:	**14 CANTON SPRINGS ROAD** **Canton, CT 06019-2401** **41.8229, -72.8952**
County	:	**Hartford**
Date	:	**March 21, 2022**
Max Usage	:	**50%**
Result	:	**Pass**

Prepared By:

Sammie Brown
Structural Engineer I

Reviewed By:

COA : PEC.0001553

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 140 ft Monopole to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	EEI Project Drawing #GS51426, dated May 21, 1999
Foundation Drawing	EEI Project Drawing #F4960-140, dated May 21, 1999
Geotechnical Report	Clarence Welti Project #Banm Tower Site, dated November 23, 1998

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	116 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.50" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.18, S_1 = 0.05
Site Class:	D - Stiff Soil - Default

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
148.0	1	Generic 18' Omni	Stand-Off	(2) 7/8" Coax	TOWN OF CANTON
130.0	3	Ericsson RRUS 8843 B2, B66A	Triangular Platform with Handrails	(10) 7/8" Coax	AT&T MOBILITY
	3	Kathrein Scala 840370799			
	3	Ericsson RRUS 4449 B5, B12			
120.0	3	Samsung MT6407-77A	Triangular Platform with Handrails	(6) 1 5/8" Coax (2) 1 5/8" Hybriflex (1) 1/2" Coax	VERIZON WIRELESS
	6	Commscope SBNHH-1D65B			
	3	Andrew LNX-6514DS-A1M			
	2	Raycap RCMDC-3315-PF-48			
	6	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung RT4401-48A			
	1	Generic GPS			
	1	VZW Unused Reserve (17102.97 sqin)			
	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna			
100.0	3	Commscope ATSBT-TOP-MF-4G	Triangular Low Profile Platform	(12) 1 5/8" Coax	T-MOBILE
	3	Andrew LNX-6515DS-A1M			
	3	RFS ATMA4P4DBP-1A20			
	3	RFS APXV18-209014-C-A20			
90.0	1	PCTEL GPS-TMG-HR-26N	Triangular Platform with Handrails	(4) 1 1/4" Hybriflex Cable (1) 1/2" Coax	SPRINT NEXTEL
	3	Alcatel-Lucent 1900 MHz 4X45 RRH			
	3	Alcatel-Lucent 800 MHz RRH			
	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
	3	RFS APXVSPP18-C-A20			
	3	Generic 12" x 12" Junction Box			
	3	Alcatel-Lucent RRH2x50-08			
80.0	3	JMA Wireless MX08FRO665-21	Triangular Platform with Handrails	(1) 1.60" (40.6mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B604			
	3	Fujitsu TA08025-B605			
	1	Commscope RDIDC-9181-PF-48			

Equipment to be Removed

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
130.0	6	CCI DTMABP7819VG12A	-	(2) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (2) 3" conduit (2) 7/8" Coax	AT&T MOBILITY
	3	Raycap DC6-48-60-0-8F			
	2	CCI HPA-65R-BUU-H8			
	3	Kathrein Scala 800-10121			
	1	Andrew SBNHH-1D65A (33.5 lbs)			
	3	Ericsson RRUS 32 (50.8 lbs)			

Proposed Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
132.0	3	Ericsson Air 6449 B77D	Triangular Platform with Handrails	(3) 0.41" (10.3mm) Fiber (4) 0.82" (20.8mm) 8 AWG 6 (2) 0.92" (23.4mm) Cable (2) 2" conduit	AT&T MOBILITY
130.0	2	Raycap DC6-48-60-18-8F			
	3	Ericsson RRUS 4478 B14			
	3	Ericsson RRUS 32 B30			
	1	Raycap DC9-48-60-24-8C-EV			
	3	CCI DMP65R-BU8D			
128.0	3	Ericsson AIR 6419 B77G			

[1] Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	40%	Pass
Shaft	45%	Pass
Base Plate	32%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	3921.8	5294.4	2633.2	50%
Shear (Kips)	38.7	52.2	26.0	50%
* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2				

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
132.0	Ericsson Air 6449 B77D	AT&T MOBILITY	1.179	0.970
130.0	Ericsson RRUS 4478 B14	AT&T MOBILITY	1.146	0.970
	Raycap DC6-48-60-18-8F			
	Ericsson RRUS 32 B30			
	Raycap DC9-48-60-24-8C-EV			
	CCI DMP65R-BU8D			
128.0	Ericsson AIR 6419 B77G	AT&T MOBILITY	1.112	0.960

***Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H**

Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

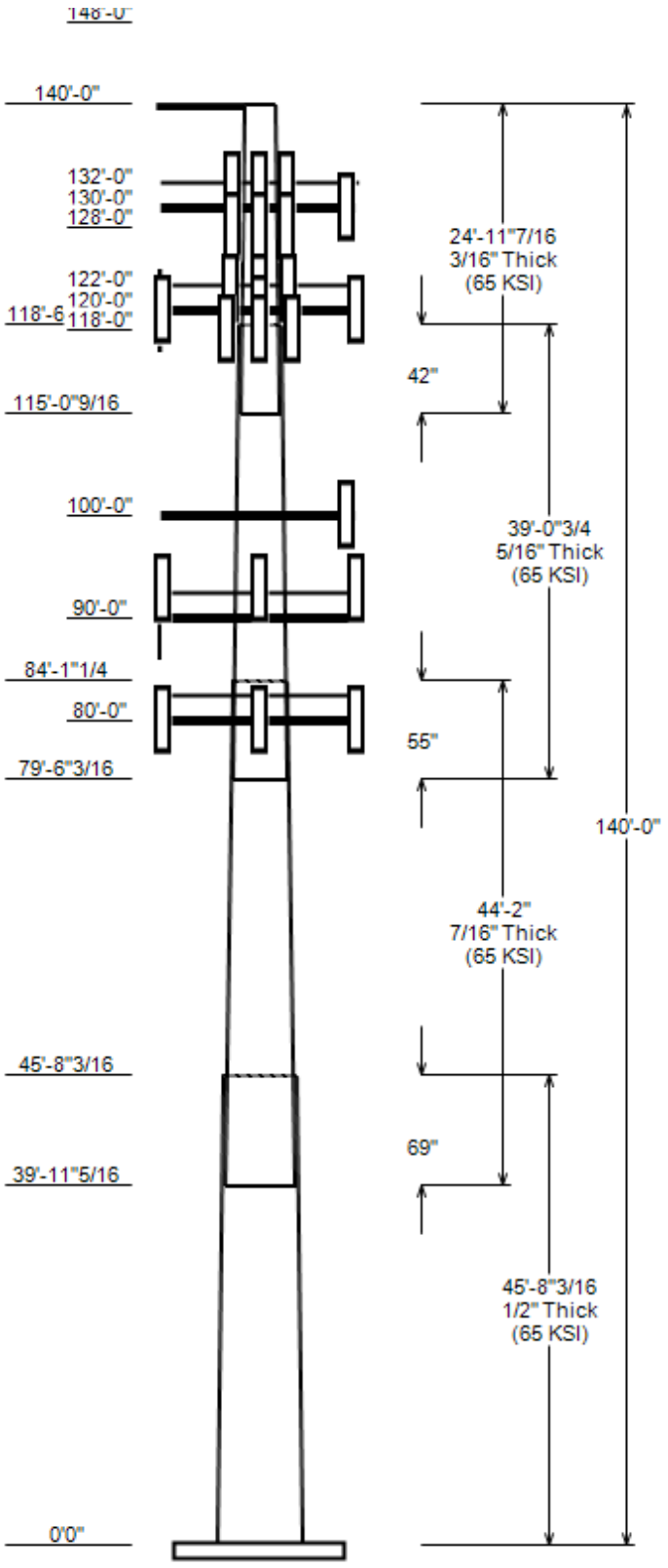
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

JOB INFORMATION

Asset :	411256, CANTON CT	Height :	140 ft
Client :	AT&T MOBILITY	Base Width :	51
Code :	ANSI/TIA-222-H	Shape :	18 Sides



SITE PARAMETERS

Nominal Wind: 116 mph wind with no ice **Topo Category:** 1

Ice Wind: 50 mph wind with 1.5" radi **Topo Method:** Method 1

Base Elev (ft): 0.00 **Taper :** 0.24900(In/ft) **Topo Feature:**

Structure Class: II **Exposure :** B **S_s :** 0.177 **S_1** : 0.054

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Diameter (in) Across Flats Bottom	Thick (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
1	45.682	39.62	51.00	0.500		0.000	18 Sides	65
2	44.164	30.92	41.93	0.438	Slip Joint	68.910	18 Sides	65
3	39.060	22.96	32.69	0.312	Slip Joint	55.060	18 Sides	65
4	24.956	18.00	24.22	0.188	Slip Joint	42.380	18 Sides	65

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
148.0	140.0	1	Generic 18' Omni
140.0	140.0	1	Stand-Off
132.0	132.0	3	Ericsson Air 6449 B77D
130.0	130.0	2	Raycap DC6-48-60-18-8F
130.0	130.0	3	Ericsson RRUS 8843 B2, B66A
130.0	130.0	3	Ericsson RRUS 4449 B5, B12
130.0	130.0	3	Ericsson RRUS 4478 B14
130.0	130.0	3	Ericsson RRUS 32 B30
130.0	130.0	1	Raycap DC9-48-60-24-8C-EV
130.0	130.0	3	Kathrein Scala 840370799
130.0	130.0	3	CCI DMP65R-BU8D
130.0	130.0	1	Generic Flat Platform with Han
128.0	128.0	3	Ericsson AIR 6419 B77G
122.0	122.0	3	Samsung MT6407-77A
120.0	120.0	1	Generic GPS
120.0	120.0	3	Samsung RT4401-48A
120.0	120.0	6	Samsung B5/B13 RRH-BR04C
120.0	120.0	3	Samsung B2/B66A RRH-BR049
120.0	120.0	2	Raycap RCMDC-3315-PF-48
120.0	120.0	6	Commscope SBNHH-1D65B
120.0	120.0	3	Andrew LNX-6514DS-A1M
120.0	120.0	1	Generic Flat Platform with Han
120.0	120.0	1	VZW Unused Reserve (17102.97 s
118.0	118.0	3	Samsung Outdoor CBRS 20W RRH –
100.0	100.0	3	Commscope ATSBT-TOP-MF-4G
100.0	100.0	3	RFS ATMA4P4DBP-1A20
100.0	100.0	3	RFS APXV18-209014-C-A20
100.0	100.0	3	Andrew LNX-6515DS-A1M
100.0	100.0	1	Generic Flat Low Profile Platf
90.0	90.0	1	PCTEL GPS-TMG-HR-26N
90.0	90.0	3	Generic 12" x 12" Junction Box
90.0	94.0	3	Alcatel-Lucent RRH2x50-08
90.0	94.0	3	Alcatel-Lucent 800 MHz RRH
90.0	94.0	3	Alcatel-Lucent 1900 MHz 4X45 R
90.0	94.0	3	Alcatel-Lucent TD-RRH8x20-25 w
90.0	94.0	3	RFS APXVSPP18-C-A20
90.0	90.0	1	Generic Round Platform with Ha
80.0	80.0	1	Commscope RDIDC-9181-PF-48
80.0	80.0	3	Fujitsu TA08025-B604
80.0	80.0	3	Fujitsu TA08025-B605
80.0	80.0	3	JMA Wireless MX08FRO665-21
80.0	80.0	1	Generic Flat Platform with Han

JOB INFORMATION

Asset :	411256, CANTON CT	Height :	140 ft
Client :	AT&T MOBILITY	Base Width :	51
Code :	ANSI/TIA-222-H	Shape :	18 Sides

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	140.0	7/8" Coax	No
0.0	130.0	7/8" Coax	No
0.0	130.0	2" conduit	No
0.0	130.0	0.92" (23.4mm) Cable	No
0.0	130.0	0.82" (20.8mm) 8 AWG 6	No
0.0	130.0	0.41" (10.3mm) Fiber	No
0.0	120.0	1/2" Coax	No
0.0	120.0	1 5/8" Hybriflex	No
0.0	120.0	1 5/8" Coax	Yes
0.0	100.0	1 5/8" Coax	No
0.0	90.0	1/2" Coax	No
0.0	90.0	1 1/4" Hybriflex Cable	No
0.0	80.0	1.60" (40.6mm) Hybrid	No

LOAD CASES

1.2D + 1.0W	116 mph wind with no ice
0.9D + 1.0W	116 mph wind with no ice
1.2D + 1.0Di + 1.0Wi	50 mph wind with 1.5" radial ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W	2633.23	26.04	55.16
0.9D + 1.0W	2603.84	26.02	41.36
1.2D + 1.0Di + 1.0Wi	787.77	7.70	82.55
1.2D + 1.0Ev + 1.0Eh	149.68	1.38	55.02
0.9D - 1.0Ev + 1.0Eh	147.66	1.38	38.32
1.0D + 1.0W	625.97	6.23	45.99

DISH DEFLECTIONS

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)

ANALYSIS PARAMETERS

Location:	Hartford County,CT	**Height:**	140 ft
Type and Shape:	Taper, 18 Sides	**Base Diameter:**	51.00 in
Manufacturer:	EEI	**Top Diameter:**	18.00 in
K_d (non-service):	0.95	**Taper:**	0.2490 in/ft
K_e:	0.99	**Rotation:**	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	**Design Wind Speed w/o Ice:**	116 mph
Risk Category:	II	**Design Wind Speed w/Ice:**	50 mph
Topo Factor Procedure:	Method 1	**Operational Wind Speed:**	60 mph
Topographic Category:	1	**Design Ice Thickness:**	1.50 in
Crest Height:	0 ft	**HMSL:**	340.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil			**Period Based on Rayleigh Method (sec):**	2.16
T_L (sec):	6	**P:**	1	**C_s:**	0.030
S_s:	0.177	**S_1:**	0.054	**C_s Max:**	0.030
F_a:	1.600	**F_v:**	2.400	**C_s Min:**	0.030
S_{ds}:	0.189	**S_{d1}:**	0.086		

LOAD CASES

1.2D + 1.0W	116 mph wind with no ice
0.9D + 1.0W	116 mph wind with no ice
1.2D + 1.0Di + 1.0Wi	50 mph wind with 1.5" radial ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in²)	Bottom Ix (in⁴)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (in)	Top Area (in²)	Top Ix (in⁴)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	45.68	0.5000	65		0.00	11,054	51.00	-0.002	80.14	25,821.9	16.57	102.00	39.62	45.68	62.08	12,003.7	12.56	79.24	0.2491
2-18	44.16	0.4375	65	Slip	68.91	7,510	41.93	39.936	57.61	12,528.3	15.49	95.83	30.92	84.10	42.33	4,970.9	11.05	70.68	0.2491
3-18	39.06	0.3125	65	Slip	55.06	3,627	32.69	79.520	32.12	4,254.0	17.04	104.61	22.96	118.58	22.46	1,456.0	11.55	73.48	0.2491
								115.04								424.9			
4-18	24.96	0.1875	65	Slip	42.38	1,057	24.22	4	14.30	1,043.1	21.36	129.15	18.00	140.00	10.60		15.52	96.00	0.2491

Shaft Weight 23,248

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
148.00	Generic 18' Omni	1	1.00	-8.000	55.00	5.400	1.00	189.59	11.745	1.00
140.00	Stand-Off	1	1.00	0.000	100.00	3.000	1.00	148.44	4.557	1.00
132.00	Ericsson Air 6449 B77D	3	0.75	0.000	81.60	4.028	0.65	183.26	5.387	0.65
130.00	Raycap DC9-48-60-24-8C-EV	1	0.75	0.000	16.00	4.788	1.00	143.43	6.240	1.00
130.00	Ericsson RRUS 32 B30	3	0.75	0.000	60.00	2.743	0.67	132.61	3.897	0.67
130.00	Ericsson RRUS 4478 B14	3	0.75	0.000	59.40	2.021	0.67	119.97	2.952	0.67
130.00	Kathrein Scala 840370799	3	0.75	0.000	105.80	13.661	0.65	358.69	17.334	0.65
130.00	CCI DMP65R-BU8D	3	0.75	0.000	95.70	17.871	0.63	431.18	21.508	0.63
130.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	134.62	2.890	0.50
130.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	4253.47	63.101	1.00
130.00	Ericsson RRUS 8843 B2, B66A	3	0.75	0.000	72.00	1.639	0.50	132.50	2.473	0.50
130.00	Raycap DC6-48-60-18-8F	2	0.75	0.000	20.00	1.260	1.00	71.97	1.910	1.00
128.00	Ericsson AIR 6419 B77G	3	0.75	0.000	66.10	3.797	0.65	161.68	5.095	0.65
122.00	Samsung MT6407-77A	3	0.75	0.000	81.60	4.709	0.61	181.57	6.199	0.61
120.00	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	38.66	1.526	1.00
120.00	Samsung B2/B66A RRH-BR049	3	0.75	0.000	84.40	1.875	0.50	146.88	2.759	0.50
120.00	Samsung RT4401-48A	3	0.75	0.000	18.60	0.996	0.50	45.05	1.666	0.50
120.00	VZW Unused Reserve (17102.97 s	1	0.75	0.000	1037.80	118.771	0.90	1745.86	199.805	0.90
120.00	Samsung B5/B13 RRH-BR04C	6	0.75	0.000	70.30	1.875	0.50	126.32	2.759	0.50
120.00	Raycap RCMDC-3315-PF-48	2	0.75	0.000	21.40	2.512	0.50	99.41	3.532	0.50
120.00	Andrew LNX-6514DS-A1M	3	0.75	0.000	38.80	8.173	0.69	211.11	10.933	0.69
120.00	Commscope SBNHH-1D65B	6	0.75	0.000	50.70	8.173	0.69	222.58	10.944	0.69
120.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	4239.80	62.939	1.00
118.00	Samsung Outdoor CBRS 20W RRH –	3	0.75	0.000	4.40	0.892	0.50	21.99	1.516	0.50
100.00	RFS ATMA4P4DBP-1A20	3	0.80	0.000	15.90	0.747	0.50	38.59	1.310	0.50
100.00	RFS APXV18-209014-C-A20	3	0.80	0.000	18.70	3.530	0.67	84.58	5.258	0.67
100.00	Commscope ATSBT-TOP-MF-4G	3	0.80	0.000	1.80	0.173	0.50	7.39	0.461	0.50
100.00	Andrew LNX-6515DS-A1M	3	0.80	0.000	49.80	11.410	0.70	269.67	14.523	0.70
100.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2652.31	44.424	1.00
90.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	4037.88	50.409	1.00
90.00	RFS APXVSPP18-C-A20	3	0.75	4.000	57.00	8.024	0.69	220.78	10.672	0.69
90.00	Alcatel-Lucent TD-RRH8x20-25 w	3	0.75	4.000	70.00	4.046	0.50	159.73	5.307	0.50
90.00	Alcatel-Lucent 1900 MHz 4X45 R	3	0.75	4.000	60.00	2.322	0.50	136.52	3.348	0.50
90.00	Alcatel-Lucent 800 MHz RRH	3	0.75	4.000	53.00	2.134	0.50	123.08	3.063	0.50
90.00	Alcatel-Lucent RRH2x50-08	3	0.75	4.000	52.90	1.701	0.50	109.17	2.520	0.50
90.00	Generic 12" x 12" Junction Box	3	0.75	0.000	10.00	1.200	0.50	49.55	1.889	0.50
90.00	PCTEL GPS-TMG-HR-26N	1	1.00	0.000	0.60	0.090	1.00	5.20	0.261	1.00
80.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	4171.16	62.129	1.00
80.00	Commscope RDIDC-9181-PF-48	1	0.75	0.000	21.90	1.867	0.50	75.43	2.714	0.50
80.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	133.93	2.827	0.50
80.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	118.76	2.827	0.50
80.00	JMA Wireless MX08FRO665-21	3	0.75	0.000	64.50	12.489	0.64	306.29	15.133	0.64
Totals	Num Loadings: 42	106			18,220.80			36,194.84		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	140.00	2	7/8" Coax	1.09	0.33	N	0	0	0	0	0	N	TOWN OF CANTO

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	130.00	10	7/8" Coax	1.09	0.33	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	130.00	4	0.82" (20.8mm) 8 AWG	0.82	0.62	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	130.00	3	0.41" (10.3mm) Fiber	0.41	0.09	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	130.00	2	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	130.00	2	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	120.00	6	1 5/8" Coax	1.98	0.82	N	6	1	1	90	1	Y	VERIZON WIREL
0.00	120.00	2	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIREL
0.00	120.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	VERIZON WIREL
0.00	100.00	12	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	T-MOBILE
0.00	90.00	4	1 1/4" Hybriflex Cabl	1.54	1	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	90.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	80.00	1	1.60" (40.6mm) Hybrid	1.6	2.34	N	0	0	0	0	0	N	DISH WIRELESS

SEGMENT PROPERTIES

(Max Len: 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)
0.00		0.5000	51.000	80.141	25,821.90	16.57	102.00	81.9	997.2	0.0	0.0
5.00		0.5000	49.754	78.164	23,958.00	16.14	99.51	82.4	948.4	0.0	1,346.7
10.00		0.5000	48.509	76.187	22,186.00	15.70	97.02	82.6	900.8	0.0	1,313.1
15.00		0.5000	47.263	74.211	20,503.70	15.26	94.53	82.6	854.5	0.0	1,279.4
20.00		0.5000	46.018	72.234	18,908.50	14.82	92.04	82.6	809.3	0.0	1,245.8
25.00		0.5000	44.772	70.258	17,398.40	14.38	89.54	82.6	765.4	0.0	1,212.2
30.00		0.5000	43.527	68.281	15,970.90	13.94	87.05	82.6	722.7	0.0	1,178.5
35.00		0.5000	42.281	66.304	14,623.60	13.50	84.56	82.6	681.2	0.0	1,144.9
39.94	Bot - Section 2	0.5000	41.051	64.351	13,369.10	13.07	82.10	82.6	641.5	0.0	1,098.2
40.00		0.5000	41.036	64.328	13,354.40	13.06	82.07	82.6	641.0	0.0	24.9
45.00		0.5000	39.790	62.351	12,160.80	12.62	79.58	82.6	602.0	0.0	2,042.7
45.68	Top - Section 1	0.4375	40.495	55.623	11,276.60	14.91	92.56	82.6	548.5	0.0	273.9
50.00		0.4375	39.420	54.129	10,392.40	14.48	90.10	82.6	519.3	0.0	806.3
55.00		0.4375	38.174	52.400	9,427.70	13.97	87.25	82.6	486.4	0.0	906.2
60.00		0.4375	36.928	50.670	8,524.60	13.47	84.41	82.6	454.7	0.0	876.8
65.00		0.4375	35.683	48.941	7,681.20	12.97	81.56	82.6	424.0	0.0	847.4
70.00		0.4375	34.437	47.211	6,895.30	12.47	78.71	82.6	394.4	0.0	818.0
75.00		0.4375	33.192	45.482	6,164.90	11.97	75.87	82.6	365.8	0.0	788.5
79.52	Bot - Section 3	0.4375	32.067	43.920	5,551.30	11.51	73.30	82.6	341.0	0.0	686.9
80.00		0.4375	31.946	43.752	5,488.00	11.46	73.02	82.6	338.4	0.0	125.1
84.10	Top - Section 2	0.3125	31.549	30.981	3,819.20	16.39	100.96	82.1	238.4	0.0	1,040.9
85.00		0.3125	31.326	30.760	3,737.90	16.26	100.24	82.3	235.0	0.0	94.1
90.00		0.3125	30.080	29.525	3,305.40	15.56	96.26	82.6	216.4	0.0	512.8
95.00		0.3125	28.835	28.289	2,907.60	14.86	92.27	82.6	198.6	0.0	491.8
100.00		0.3125	27.589	27.054	2,543.10	14.16	88.28	82.6	181.6	0.0	470.8
105.00		0.3125	26.343	25.819	2,210.40	13.45	84.30	82.6	165.3	0.0	449.8
110.00		0.3125	25.098	24.583	1,908.00	12.75	80.31	82.6	149.7	0.0	428.8
115.00		0.3125	23.852	23.348	1,634.60	12.05	76.33	82.6	135.0	0.0	407.7
115.04	Bot - Section 4	0.3125	23.841	23.337	1,632.30	12.04	76.29	82.6	134.8	0.0	3.5
118.00		0.3125	23.105	22.607	1,483.80	11.63	73.94	82.6	126.5	0.0	372.7
118.58	Top - Section 3	0.1875	23.337	13.776	932.70	20.54	124.46	77.2	78.7	0.0	71.2
120.00		0.1875	22.982	13.565	890.50	20.20	122.57	77.6	76.3	0.0	66.3
122.00		0.1875	22.484	13.268	833.40	19.73	119.91	78.2	73.0	0.0	91.3
125.00		0.1875	21.736	12.824	752.30	19.03	115.93	79	68.2	0.0	133.2
128.00		0.1875	20.989	12.379	676.70	18.33	111.94	79.8	63.5	0.0	128.6
130.00		0.1875	20.491	12.083	629.30	17.86	109.28	80.4	60.5	0.0	83.2
132.00		0.1875	19.992	11.786	584.10	17.39	106.63	80.9	57.5	0.0	81.2
135.00		0.1875	19.245	11.341	520.40	16.69	102.64	81.8	53.3	0.0	118.0
140.00		0.1875	18.000	10.600	424.90	15.52	96.00	82.6	46.5	0.0	186.7
								Totals:			23,248.1

Load Case: 1.2D + 1.0W 116 mph wind with no ice 23 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.20
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-55.16	-26.04	0.00	-2,633.2	0.00	2,633.23	5,907.57	1,406.47	6,415.71	6,125.97	0	0	0.440
5.00	-53.24	-25.78	0.00	-2,503.0	0.00	2,503.05	5,798.21	1,371.78	6,103.18	5,862.82	0.08	-0.14	0.436
10.00	-51.36	-25.54	0.00	-2,374.1	0.00	2,374.13	5,660.34	1,337.09	5,798.45	5,577.22	0.3	-0.29	0.435
15.00	-49.52	-25.29	0.00	-2,246.4	0.00	2,246.45	5,513.49	1,302.40	5,501.53	5,290.13	0.68	-0.43	0.434
20.00	-47.73	-25.05	0.00	-2,120.0	0.00	2,120.00	5,366.64	1,267.71	5,212.41	5,010.63	1.22	-0.59	0.432
25.00	-45.97	-24.81	0.00	-1,994.8	0.00	1,994.75	5,219.78	1,233.02	4,931.09	4,738.71	1.91	-0.74	0.430
30.00	-44.25	-24.57	0.00	-1,870.7	0.00	1,870.70	5,072.93	1,198.33	4,657.58	4,474.38	2.78	-0.9	0.427
35.00	-42.58	-24.33	0.00	-1,747.8	0.00	1,747.84	4,926.08	1,163.64	4,391.87	4,217.63	3.8	-1.06	0.423
39.94	-40.99	-24.18	0.00	-1,627.6	0.00	1,627.65	4,780.98	1,129.37	4,137.01	3,971.41	4.99	-1.22	0.419
40.00	-40.93	-24.07	0.00	-1,626.2	0.00	1,626.21	4,779.22	1,128.95	4,133.97	3,968.47	5	-1.22	0.419
45.00	-38.21	-23.87	0.00	-1,505.9	0.00	1,505.87	4,632.37	1,094.26	3,883.87	3,726.90	6.37	-1.39	0.413
45.68	-37.81	-23.74	0.00	-1,489.6	0.00	1,489.59	4,132.51	976.18	3,532.26	3,395.74	6.57	-1.41	0.448
50.00	-36.58	-23.49	0.00	-1,387.1	0.00	1,387.08	4,021.55	949.97	3,345.15	3,214.87	7.92	-1.56	0.441
55.00	-35.19	-23.22	0.00	-1,269.6	0.00	1,269.63	3,893.05	919.62	3,134.83	3,011.61	9.66	-1.74	0.431
60.00	-33.84	-22.94	0.00	-1,153.6	0.00	1,153.56	3,764.55	889.26	2,931.34	2,814.98	11.58	-1.93	0.419
65.00	-32.52	-22.65	0.00	-1,038.9	0.00	1,038.88	3,636.06	858.91	2,734.68	2,624.99	13.7	-2.11	0.405
70.00	-31.25	-22.37	0.00	-925.6	0.00	925.61	3,507.56	828.56	2,544.85	2,441.64	16	-2.29	0.389
75.00	-30.01	-22.09	0.00	-813.8	0.00	813.78	3,379.07	798.20	2,361.84	2,264.93	18.5	-2.47	0.369
79.52	-28.95	-21.93	0.00	-714.0	0.00	714.02	3,263.02	770.79	2,202.43	2,111.04	20.92	-2.63	0.348
80.00	-25.10	-19.47	0.00	-703.4	0.00	703.40	3,250.57	767.85	2,185.66	2,094.86	21.18	-2.65	0.344
84.10	-23.65	-19.27	0.00	-623.5	0.00	623.49	2,289.83	543.72	1,534.13	1,468.57	23.52	-2.79	0.436
85.00	-23.46	-19.13	0.00	-606.2	0.00	606.22	2,277.57	539.84	1,512.29	1,450.16	24.05	-2.82	0.430
90.00	-18.58	-16.83	0.00	-507.3	0.00	507.27	2,193.54	518.16	1,393.28	1,340.00	27.12	-3.03	0.388
95.00	-17.76	-16.53	0.00	-423.1	0.00	423.14	2,101.75	496.48	1,279.14	1,229.65	30.4	-3.23	0.354
100.00	-14.52	-14.25	0.00	-340.5	0.00	340.47	2,009.97	474.80	1,169.88	1,124.05	33.89	-3.42	0.311
105.00	-13.82	-13.95	0.00	-269.2	0.00	269.20	1,918.19	453.11	1,065.49	1,023.18	37.56	-3.59	0.271
110.00	-13.15	-13.63	0.00	-199.5	0.00	199.46	1,826.40	431.43	965.98	927.05	41.41	-3.74	0.223
115.00	-12.52	-13.45	0.00	-131.3	0.00	131.29	1,734.62	409.75	871.35	835.67	45.39	-3.86	0.165
115.04	-12.51	-13.37	0.00	-130.7	0.00	130.69	1,733.81	409.56	870.54	834.88	45.43	-3.87	0.165
118.00	-11.97	-13.19	0.00	-91.2	0.00	91.19	1,679.55	396.74	816.91	783.11	47.84	-3.92	0.125
118.58	-11.87	-13.13	0.00	-83.6	0.00	83.59	957.75	241.77	505.52	456.08	48.31	-3.93	0.199
120.00	-6.51	-6.33	0.00	-64.9	0.00	64.90	947.86	238.07	490.14	444.39	49.49	-3.95	0.154
122.00	-6.09	-5.93	0.00	-52.2	0.00	52.24	933.73	232.86	468.95	428.12	51.15	-3.99	0.129
125.00	-5.88	-5.77	0.00	-34.4	0.00	34.45	911.97	225.06	438.05	404.01	53.67	-4.03	0.092
128.00	-5.46	-5.41	0.00	-17.1	0.00	17.14	889.55	217.25	408.19	380.29	56.22	-4.06	0.052
130.00	-0.88	-1.02	0.00	-6.3	0.00	6.32	874.24	212.05	388.88	364.72	57.92	-4.07	0.018
132.00	-0.51	-0.65	0.00	-4.3	0.00	4.28	858.63	206.84	370.03	349.33	59.63	-4.08	0.013
135.00	-0.38	-0.46	0.00	-2.3	0.00	2.32	834.67	199.04	342.63	326.65	62.19	-4.08	0.008
140.00	0.00	-0.44	0.00	0.0	0.00	0.00	787.53	186.03	299.32	287.86	66.46	-4.09	0.000

Load Case: 0.9D + 1.0W 116 mph wind with no ice 23 Iterations
Gust Response Factor: 1.10
Dead load Factor: 0.90
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-41.36	-26.02	0.00	-2,603.8	0.00	2,603.84	5,907.57	1,406.47	6,415.71	6,125.97	0	0	0.432
5.00	-39.91	-25.73	0.00	-2,473.8	0.00	2,473.75	5,798.21	1,371.78	6,103.18	5,862.82	0.08	-0.14	0.429
10.00	-38.48	-25.45	0.00	-2,345.1	0.00	2,345.09	5,660.34	1,337.09	5,798.45	5,577.22	0.3	-0.28	0.428
15.00	-37.09	-25.18	0.00	-2,217.8	0.00	2,217.83	5,513.49	1,302.40	5,501.53	5,290.13	0.67	-0.43	0.426
20.00	-35.73	-24.91	0.00	-2,092.0	0.00	2,091.95	5,366.64	1,267.71	5,212.41	5,010.63	1.2	-0.58	0.425
25.00	-34.40	-24.64	0.00	-1,967.4	0.00	1,967.43	5,219.78	1,233.02	4,931.09	4,738.71	1.89	-0.73	0.422
30.00	-33.09	-24.37	0.00	-1,844.2	0.00	1,844.23	5,072.93	1,198.33	4,657.58	4,474.38	2.74	-0.89	0.419
35.00	-31.82	-24.11	0.00	-1,722.4	0.00	1,722.36	4,926.08	1,163.64	4,391.87	4,217.63	3.76	-1.05	0.415
39.94	-30.63	-23.95	0.00	-1,603.3	0.00	1,603.28	4,780.98	1,129.37	4,137.01	3,971.41	4.92	-1.21	0.411
40.00	-30.57	-23.82	0.00	-1,601.8	0.00	1,601.85	4,779.22	1,128.95	4,133.97	3,968.47	4.94	-1.21	0.410
45.00	-28.52	-23.62	0.00	-1,482.7	0.00	1,482.74	4,632.37	1,094.26	3,883.87	3,726.90	6.29	-1.37	0.404
45.68	-28.22	-23.48	0.00	-1,466.6	0.00	1,466.63	4,132.51	976.18	3,532.26	3,395.74	6.49	-1.4	0.439
50.00	-27.28	-23.21	0.00	-1,365.2	0.00	1,365.24	4,021.55	949.97	3,345.15	3,214.87	7.82	-1.54	0.432
55.00	-26.23	-22.92	0.00	-1,249.2	0.00	1,249.19	3,893.05	919.62	3,134.83	3,011.61	9.53	-1.72	0.422
60.00	-25.20	-22.62	0.00	-1,134.6	0.00	1,134.61	3,764.55	889.26	2,931.34	2,814.98	11.43	-1.9	0.410
65.00	-24.20	-22.32	0.00	-1,021.5	0.00	1,021.53	3,636.06	858.91	2,734.68	2,624.99	13.51	-2.08	0.396
70.00	-23.23	-22.02	0.00	-909.9	0.00	909.93	3,507.56	828.56	2,544.85	2,441.64	15.79	-2.26	0.380
75.00	-22.29	-21.73	0.00	-799.8	0.00	799.84	3,379.07	798.20	2,361.84	2,264.93	18.25	-2.43	0.360
79.52	-21.49	-21.57	0.00	-701.7	0.00	701.70	3,263.02	770.79	2,202.43	2,111.04	20.63	-2.59	0.340
80.00	-18.62	-19.15	0.00	-691.3	0.00	691.26	3,250.57	767.85	2,185.66	2,094.86	20.89	-2.61	0.336
84.10	-17.53	-18.96	0.00	-612.7	0.00	612.66	2,289.83	543.72	1,534.13	1,468.57	23.19	-2.75	0.426
85.00	-17.38	-18.80	0.00	-595.7	0.00	595.68	2,277.57	539.84	1,512.29	1,450.16	23.71	-2.78	0.420
90.00	-13.74	-16.55	0.00	-498.4	0.00	498.36	2,193.54	518.16	1,393.28	1,340.00	26.74	-2.99	0.379
95.00	-13.11	-16.25	0.00	-415.6	0.00	415.61	2,101.75	496.48	1,279.14	1,229.65	29.97	-3.18	0.345
100.00	-10.70	-14.01	0.00	-334.4	0.00	334.36	2,009.97	474.80	1,169.88	1,124.05	33.4	-3.37	0.304
105.00	-10.17	-13.70	0.00	-264.3	0.00	264.31	1,918.19	453.11	1,065.49	1,023.18	37.02	-3.53	0.265
110.00	-9.66	-13.39	0.00	-195.8	0.00	195.80	1,826.40	431.43	965.98	927.05	40.8	-3.68	0.217
115.00	-9.19	-13.22	0.00	-128.8	0.00	128.85	1,734.62	409.75	871.35	835.67	44.73	-3.8	0.161
115.04	-9.19	-13.13	0.00	-128.3	0.00	128.26	1,733.81	409.56	870.54	834.88	44.76	-3.8	0.160
118.00	-8.78	-12.96	0.00	-89.4	0.00	89.45	1,679.55	396.74	816.91	783.11	47.13	-3.86	0.121
118.58	-8.70	-12.90	0.00	-82.0	0.00	81.99	957.75	241.77	505.52	456.08	47.6	-3.87	0.192
120.00	-4.79	-6.20	0.00	-63.6	0.00	63.62	947.86	238.07	490.14	444.39	48.76	-3.89	0.149
122.00	-4.48	-5.81	0.00	-51.2	0.00	51.22	933.73	232.86	468.95	428.12	50.39	-3.93	0.125
125.00	-4.32	-5.65	0.00	-33.8	0.00	33.78	911.97	225.06	438.05	404.01	52.88	-3.97	0.089
128.00	-4.01	-5.30	0.00	-16.8	0.00	16.82	889.55	217.25	408.19	380.29	55.38	-4	0.049
130.00	-0.64	-1.00	0.00	-6.2	0.00	6.22	874.24	212.05	388.88	364.72	57.06	-4.01	0.018
132.00	-0.37	-0.64	0.00	-4.2	0.00	4.21	858.63	206.84	370.03	349.33	58.74	-4.01	0.013
135.00	-0.28	-0.46	0.00	-2.3	0.00	2.28	834.67	199.04	342.63	326.65	61.26	-4.02	0.007
140.00	0.00	-0.44	0.00	0.0	0.00	0.00	787.53	186.03	299.32	287.86	65.46	-4.02	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi		50 mph wind with 1.5" radial ice			23 Iterations
Gust Response Factor:	1.10	Ice Dead Load Factor	1.00		
Dead load Factor:	1.20			Ice Importance Factor	1.00
Wind Load Factor:	1.00				

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-82.55	-7.70	0.00	-787.8	0.00	787.77	5,907.57	1,406.47	6,415.71	6,125.97	0	0	0.143
5.00	-80.24	-7.64	0.00	-749.3	0.00	749.26	5,798.21	1,371.78	6,103.18	5,862.82	0.02	-0.04	0.142
10.00	-77.93	-7.58	0.00	-711.1	0.00	711.07	5,660.34	1,337.09	5,798.45	5,577.22	0.09	-0.09	0.141
15.00	-75.65	-7.51	0.00	-673.2	0.00	673.20	5,513.49	1,302.40	5,501.53	5,290.13	0.2	-0.13	0.141
20.00	-73.39	-7.45	0.00	-635.6	0.00	635.63	5,366.64	1,267.71	5,212.41	5,010.63	0.36	-0.18	0.141
25.00	-71.18	-7.39	0.00	-598.4	0.00	598.38	5,219.78	1,233.02	4,931.09	4,738.71	0.57	-0.22	0.140
30.00	-69.01	-7.33	0.00	-561.4	0.00	561.43	5,072.93	1,198.33	4,657.58	4,474.38	0.83	-0.27	0.139
35.00	-66.88	-7.26	0.00	-524.8	0.00	524.79	4,926.08	1,163.64	4,391.87	4,217.63	1.14	-0.32	0.138
39.94	-64.83	-7.22	0.00	-488.9	0.00	488.91	4,780.98	1,129.37	4,137.01	3,971.41	1.49	-0.37	0.137
40.00	-64.79	-7.19	0.00	-488.5	0.00	488.48	4,779.22	1,128.95	4,133.97	3,968.47	1.5	-0.37	0.137
45.00	-61.59	-7.14	0.00	-452.5	0.00	452.51	4,632.37	1,094.26	3,883.87	3,726.90	1.91	-0.42	0.135
45.68	-61.15	-7.10	0.00	-447.6	0.00	447.64	4,132.51	976.18	3,532.26	3,395.74	1.97	-0.42	0.147
50.00	-59.54	-7.03	0.00	-417.0	0.00	416.97	4,021.55	949.97	3,345.15	3,214.87	2.37	-0.47	0.145
55.00	-57.72	-6.96	0.00	-381.8	0.00	381.80	3,893.05	919.62	3,134.83	3,011.61	2.89	-0.52	0.142
60.00	-55.93	-6.88	0.00	-347.0	0.00	347.01	3,764.55	889.26	2,931.34	2,814.98	3.47	-0.58	0.138
65.00	-54.20	-6.80	0.00	-312.6	0.00	312.60	3,636.06	858.91	2,734.68	2,624.99	4.11	-0.63	0.134
70.00	-52.50	-6.72	0.00	-278.6	0.00	278.60	3,507.56	828.56	2,544.85	2,441.64	4.8	-0.69	0.129
75.00	-50.85	-6.64	0.00	-245.0	0.00	245.01	3,379.07	798.20	2,361.84	2,264.93	5.55	-0.74	0.123
79.52	-49.41	-6.59	0.00	-215.0	0.00	215.03	3,263.02	770.79	2,202.43	2,111.04	6.28	-0.79	0.117
80.00	-43.07	-5.91	0.00	-211.8	0.00	211.85	3,250.57	767.85	2,185.66	2,094.86	6.36	-0.8	0.114
84.10	-41.27	-5.84	0.00	-187.6	0.00	187.61	2,289.83	543.72	1,534.13	1,468.57	7.06	-0.84	0.146
85.00	-41.03	-5.80	0.00	-182.4	0.00	182.37	2,277.57	539.84	1,512.29	1,450.16	7.22	-0.85	0.144
90.00	-33.10	-5.07	0.00	-152.5	0.00	152.52	2,193.54	518.16	1,393.28	1,340.00	8.14	-0.91	0.129
95.00	-31.88	-4.97	0.00	-127.2	0.00	127.19	2,101.75	496.48	1,279.14	1,229.65	9.13	-0.97	0.119
100.00	-26.69	-4.29	0.00	-102.3	0.00	102.32	2,009.97	474.80	1,169.88	1,124.05	10.17	-1.03	0.104
105.00	-25.60	-4.19	0.00	-80.9	0.00	80.88	1,918.19	453.11	1,065.49	1,023.18	11.28	-1.08	0.092
110.00	-24.56	-4.09	0.00	-59.9	0.00	59.94	1,826.40	431.43	965.98	927.05	12.43	-1.12	0.078
115.00	-23.54	-4.03	0.00	-39.5	0.00	39.49	1,734.62	409.75	871.35	835.67	13.63	-1.16	0.061
115.04	-23.54	-4.00	0.00	-39.3	0.00	39.31	1,733.81	409.56	870.54	834.88	13.64	-1.16	0.061
118.00	-22.72	-3.95	0.00	-27.5	0.00	27.47	1,679.55	396.74	816.91	783.11	14.37	-1.18	0.049
118.58	-22.58	-3.93	0.00	-25.2	0.00	25.20	957.75	241.77	505.52	456.08	14.51	-1.18	0.079
120.00	-12.62	-1.87	0.00	-19.6	0.00	19.61	947.86	238.07	490.14	444.39	14.86	-1.19	0.057
122.00	-11.82	-1.76	0.00	-15.9	0.00	15.86	933.73	232.86	468.95	428.12	15.36	-1.2	0.050
125.00	-11.45	-1.70	0.00	-10.6	0.00	10.59	911.97	225.06	438.05	404.01	16.12	-1.21	0.039
128.00	-10.61	-1.59	0.00	-5.5	0.00	5.49	889.55	217.25	408.19	380.29	16.89	-1.22	0.026
130.00	-1.80	-0.36	0.00	-2.3	0.00	2.32	874.24	212.05	388.88	364.72	17.4	-1.22	0.008
132.00	-1.06	-0.24	0.00	-1.6	0.00	1.60	858.63	206.84	370.03	349.33	17.91	-1.23	0.006
135.00	-0.78	-0.17	0.00	-0.9	0.00	0.87	834.67	199.04	342.63	326.65	18.69	-1.23	0.004
140.00	0.00	-0.16	0.00	0.0	0.00	0.00	787.53	186.03	299.32	287.86	19.97	-1.23	0.000

Load Case: 1.0D + 1.0W 60 mph Wind with No Ice 22 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.00
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-45.99	-6.23	0.00	-626.0	0.00	625.97	5,907.57	1,406.47	6,415.71	6,125.97	0	0	0.110
5.00	-44.44	-6.16	0.00	-594.8	0.00	594.83	5,798.21	1,371.78	6,103.18	5,862.82	0.02	-0.03	0.109
10.00	-42.93	-6.10	0.00	-564.0	0.00	564.01	5,660.34	1,337.09	5,798.45	5,577.22	0.07	-0.07	0.109
15.00	-41.44	-6.04	0.00	-533.5	0.00	533.52	5,513.49	1,302.40	5,501.53	5,290.13	0.16	-0.1	0.108
20.00	-40.00	-5.97	0.00	-503.3	0.00	503.34	5,366.64	1,267.71	5,212.41	5,010.63	0.29	-0.14	0.108
25.00	-38.58	-5.91	0.00	-473.5	0.00	473.48	5,219.78	1,233.02	4,931.09	4,738.71	0.45	-0.18	0.107
30.00	-37.20	-5.85	0.00	-443.9	0.00	443.92	5,072.93	1,198.33	4,657.58	4,474.38	0.66	-0.21	0.107
35.00	-35.85	-5.79	0.00	-414.7	0.00	414.67	4,926.08	1,163.64	4,391.87	4,217.63	0.9	-0.25	0.106
39.94	-34.56	-5.75	0.00	-386.1	0.00	386.07	4,780.98	1,129.37	4,137.01	3,971.41	1.18	-0.29	0.104
40.00	-34.53	-5.72	0.00	-385.7	0.00	385.73	4,779.22	1,128.95	4,133.97	3,968.47	1.19	-0.29	0.104
45.00	-32.28	-5.68	0.00	-357.1	0.00	357.11	4,632.37	1,094.26	3,883.87	3,726.90	1.51	-0.33	0.103
45.68	-31.98	-5.64	0.00	-353.2	0.00	353.24	4,132.51	976.18	3,532.26	3,395.74	1.56	-0.34	0.112
50.00	-31.00	-5.58	0.00	-328.9	0.00	328.88	4,021.55	949.97	3,345.15	3,214.87	1.88	-0.37	0.110
55.00	-29.89	-5.51	0.00	-301.0	0.00	300.98	3,893.05	919.62	3,134.83	3,011.61	2.29	-0.41	0.108
60.00	-28.81	-5.44	0.00	-273.4	0.00	273.42	3,764.55	889.26	2,931.34	2,814.98	2.75	-0.46	0.105
65.00	-27.76	-5.37	0.00	-246.2	0.00	246.21	3,636.06	858.91	2,734.68	2,624.99	3.25	-0.5	0.101
70.00	-26.74	-5.30	0.00	-219.4	0.00	219.35	3,507.56	828.56	2,544.85	2,441.64	3.8	-0.54	0.098
75.00	-25.75	-5.24	0.00	-192.8	0.00	192.84	3,379.07	798.20	2,361.84	2,264.93	4.39	-0.59	0.093
79.52	-24.88	-5.20	0.00	-169.2	0.00	169.20	3,263.02	770.79	2,202.43	2,111.04	4.97	-0.62	0.088
80.00	-21.61	-4.61	0.00	-166.7	0.00	166.68	3,250.57	767.85	2,185.66	2,094.86	5.03	-0.63	0.086
84.10	-20.42	-4.57	0.00	-147.8	0.00	147.75	2,289.83	543.72	1,534.13	1,468.57	5.58	-0.66	0.110
85.00	-20.29	-4.53	0.00	-143.7	0.00	143.66	2,277.57	539.84	1,512.29	1,450.16	5.71	-0.67	0.108
90.00	-16.18	-3.99	0.00	-120.2	0.00	120.21	2,193.54	518.16	1,393.28	1,340.00	6.44	-0.72	0.097
95.00	-15.52	-3.92	0.00	-100.3	0.00	100.26	2,101.75	496.48	1,279.14	1,229.65	7.22	-0.77	0.089
100.00	-12.75	-3.38	0.00	-80.7	0.00	80.67	2,009.97	474.80	1,169.88	1,124.05	8.04	-0.81	0.078
105.00	-12.19	-3.31	0.00	-63.8	0.00	63.78	1,918.19	453.11	1,065.49	1,023.18	8.92	-0.85	0.069
110.00	-11.64	-3.23	0.00	-47.2	0.00	47.25	1,826.40	431.43	965.98	927.05	9.83	-0.89	0.057
115.00	-11.11	-3.19	0.00	-31.1	0.00	31.10	1,734.62	409.75	871.35	835.67	10.77	-0.92	0.044
115.04	-11.11	-3.17	0.00	-31.0	0.00	30.96	1,733.81	409.56	870.54	834.88	10.78	-0.92	0.044
118.00	-10.65	-3.13	0.00	-21.6	0.00	21.60	1,679.55	396.74	816.91	783.11	11.35	-0.93	0.034
118.58	-10.57	-3.11	0.00	-19.8	0.00	19.80	957.75	241.77	505.52	456.08	11.47	-0.93	0.055
120.00	-5.75	-1.50	0.00	-15.4	0.00	15.36	947.86	238.07	490.14	444.39	11.75	-0.94	0.041
122.00	-5.39	-1.40	0.00	-12.4	0.00	12.37	933.73	232.86	468.95	428.12	12.14	-0.95	0.035
125.00	-5.21	-1.37	0.00	-8.2	0.00	8.16	911.97	225.06	438.05	404.01	12.74	-0.96	0.026
128.00	-4.83	-1.28	0.00	-4.1	0.00	4.06	889.55	217.25	408.19	380.29	13.34	-0.96	0.016
130.00	-0.79	-0.24	0.00	-1.5	0.00	1.50	874.24	212.05	388.88	364.72	13.75	-0.97	0.005
132.00	-0.46	-0.16	0.00	-1.0	0.00	1.02	858.63	206.84	370.03	349.33	14.15	-0.97	0.003
135.00	-0.34	-0.11	0.00	-0.6	0.00	0.55	834.67	199.04	342.63	326.65	14.76	-0.97	0.002
140.00	0.00	-0.10	0.00	0.0	0.00	0.00	787.53	186.03	299.32	287.86	15.77	-0.97	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period (S_S):	0.177
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.054
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a:	1.600
Site Coefficient F_v:	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.189
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.086
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_S:	0.030
Lower Limit C_S:	0.030
Period based on Rayleigh Method (sec):	2.160
Redundancy Factor (p):	1.000
Seismic Force Distribution Exponent (k):	1.830
Total Unfactored Dead Load:	45.990 k
Seismic Base Shear (E):	1.380 k

1.2D + 1.0Ev + 1.0Eh **Seismic**

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
38	137.5	190	1,548	0.010	14	235
37	133.5	120	927	0.006	9	149
36	131	83	616	0.004	6	102
35	129	115	833	0.006	8	142
34	126.5	176	1,232	0.008	11	218
33	123.5	181	1,209	0.008	11	223
32	121	123	793	0.005	7	152
31	119.2878	100	626	0.004	6	123
30	118.2878	85	524	0.004	5	105
29	116.5222	442	2,661	0.018	25	547
28	115.0222	5	27	0.000	0	6
27	112.5	525	2,964	0.020	27	650
26	107.5	546	2,837	0.019	26	676
25	102.5	567	2,700	0.018	25	702
24	97.5	637	2,770	0.019	26	789
23	92.5	658	2,598	0.018	24	815
22	87.5	700	2,496	0.017	23	867
21	84.5521	128	427	0.003	4	158
20	82.0521	1,195	3,787	0.025	35	1,479
19	79.7578	144	434	0.003	4	179
18	77.2578	867	2,460	0.016	23	1,073
17	72.5	987	2,496	0.017	23	1,222
16	67.5	1,017	2,255	0.015	21	1,259
15	62.5	1,046	2,016	0.014	19	1,295
14	57.5	1,076	1,779	0.012	16	1,332
13	52.5	1,105	1,548	0.010	14	1,368
12	47.8412	978	1,156	0.008	11	1,211
11	45.3412	301	322	0.002	3	373
10	42.5	2,242	2,133	0.014	20	2,775
9	39.9701	27	23	0.000	0	34
8	37.4701	1,295	979	0.007	9	1,603
7	32.5	1,344	783	0.005	7	1,663
6	27.5	1,377	591	0.004	5	1,705
5	22.5	1,411	420	0.003	4	1,747

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
4	17.5	1,445	271	0.002	3	1,788
3	12.5	1,478	150	0.001	1	1,830
2	7.5	1,512	60	0.000	1	1,872
1	2.5	1,546	8	0.000	0	1,913
Generic 18' Omni	140	55	463	0.003	4	68
Stand-Off	140	100	842	0.006	8	124
Ericsson Air 6449 B77D	132	245	1,851	0.012	17	303
Raycap DC6-48-60-18-8F	130	40	294	0.002	3	50
Ericsson RRUS 8843 B2, B66A	130	216	1,589	0.011	15	267
Ericsson RRUS 4449 B5, B12	130	213	1,567	0.010	15	264
Ericsson RRUS 4478 B14	130	178	1,311	0.009	12	221
Ericsson RRUS 32 B30	130	180	1,324	0.009	12	223
Raycap DC9-48-60-24-8C-EV	130	16	118	0.001	1	20
Kathrein Scala 840370799	130	317	2,334	0.016	22	393
CCI DMP65R-BU8D	130	287	2,112	0.014	20	355
Generic Flat Platform with Handrails	130	2,500	18,387	0.124	170	3,094
Generic Flat Platform with Handrails	120	2,500	15,883	0.107	147	3,094
Generic Flat Platform with Handrails	80	2,500	7,566	0.051	70	3,094
Ericsson AIR 6419 B77G	128	198	1,418	0.010	13	245
Samsung MT6407-77A	122	245	1,603	0.011	15	303
Generic GPS	120	10	64	0.000	1	12
Samsung RT4401-48A	120	56	355	0.002	3	69
Samsung B2/B66A RRH-BR049	120	253	1,609	0.011	15	313
Samsung B5/B13 RRH-BR04C	120	422	2,680	0.018	25	522
Raycap RCMDC-3315-PF-48	120	43	272	0.002	3	53
Andrew LNX-6514DS-A1M	120	116	740	0.005	7	144
Commscope SBNHH-1D65B	120	304	1,933	0.013	18	377
VZW Unused Reserve (17102.97 sqin)	120	1,038	6,593	0.044	61	1,285
Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	118	13	81	0.000	1	16
Commscope ATSBT-TOP-MF-4G	100	5	25	0.000	0	7
RFS ATMA4P4DBP-1A20	100	48	217	0.002	2	59
RFS APXV18-209014-C-A20	100	56	255	0.002	2	69
Andrew LNX-6515DS-A1M	100	149	680	0.005	6	185
Generic Flat Low Profile Platform	100	1,875	8,534	0.057	79	2,321
PCTEL GPS-TMG-HR-26N	90	1	2	0.000	0	1
Generic 12" x 12" Junction Box	90	30	113	0.001	1	37
Alcatel-Lucent RRH2x50-08	90	159	596	0.004	6	196
Alcatel-Lucent 800 MHz RRH	90	159	597	0.004	6	197
Alcatel-Lucent 1900 MHz 4X45 RRH	90	180	676	0.004	6	223
Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	90	210	788	0.005	7	260
RFS APXVSPP18-C-A20	90	171	642	0.004	6	212
Generic Round Platform with Handrails	90	2,500	9,385	0.063	87	3,094
Commscope RDIDC-9181-PF-48	80	22	66	0.000	1	27
Fujitsu TA08025-B605	80	225	681	0.005	6	278
Fujitsu TA08025-B604	80	192	580	0.004	5	237
JMA Wireless MX08FRO665-21	80	194	586	0.004	5	240
		45,993	148,870	1.000	1,380	56,929

0.9D - 1.0Ev + 1.0Eh **Seismic (Reduced DL)**

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
38	137.5	190	1,548	0.010	14	164
37	133.5	120	927	0.006	9	103
36	131	83	616	0.004	6	71
35	129	115	833	0.006	8	99
34	126.5	176	1,232	0.008	11	152
33	123.5	181	1,209	0.008	11	156
32	121	123	793	0.005	7	106
31	119.2878	100	626	0.004	6	86
30	118.2878	85	524	0.004	5	73
29	116.5222	442	2,661	0.018	25	381

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
28	115.0222	5	27	0.000	0	4
27	112.5	525	2,964	0.020	27	453
26	107.5	546	2,837	0.019	26	471
25	102.5	567	2,700	0.018	25	489
24	97.5	637	2,770	0.019	26	550
23	92.5	658	2,598	0.018	24	568
22	87.5	700	2,496	0.017	23	604
21	84.5521	128	427	0.003	4	110
20	82.0521	1,195	3,787	0.025	35	1,030
19	79.7578	144	434	0.003	4	124
18	77.2578	867	2,460	0.016	23	747
17	72.5	987	2,496	0.017	23	851
16	67.5	1,017	2,255	0.015	21	877
15	62.5	1,046	2,016	0.014	19	902
14	57.5	1,076	1,779	0.012	16	928
13	52.5	1,105	1,548	0.010	14	953
12	47.8412	978	1,156	0.008	11	843
11	45.3412	301	322	0.002	3	260
10	42.5	2,242	2,133	0.014	20	1,933
9	39.9701	27	23	0.000	0	23
8	37.4701	1,295	979	0.007	9	1,116
7	32.5	1,344	783	0.005	7	1,159
6	27.5	1,377	591	0.004	5	1,188
5	22.5	1,411	420	0.003	4	1,217
4	17.5	1,445	271	0.002	3	1,246
3	12.5	1,478	150	0.001	1	1,275
2	7.5	1,512	60	0.000	1	1,304
1	2.5	1,546	8	0.000	0	1,333
Generic 18' Omni	140	55	463	0.003	4	47
Stand-Off	140	100	842	0.006	8	86
Ericsson Air 6449 B77D	132	245	1,851	0.012	17	211
Raycap DC6-48-60-18-8F	130	40	294	0.002	3	34
Ericsson RRUS 8843 B2, B66A	130	216	1,589	0.011	15	186
Ericsson RRUS 4449 B5, B12	130	213	1,567	0.010	15	184
Ericsson RRUS 4478 B14	130	178	1,311	0.009	12	154
Ericsson RRUS 32 B30	130	180	1,324	0.009	12	155
Raycap DC9-48-60-24-8C-EV	130	16	118	0.001	1	14
Kathrein Scala 840370799	130	317	2,334	0.016	22	274
CCI DMP65R-BU8D	130	287	2,112	0.014	20	248
Generic Flat Platform with Handrails	130	2,500	18,387	0.124	170	2,156
Generic Flat Platform with Handrails	120	2,500	15,883	0.107	147	2,156
Generic Flat Platform with Handrails	80	2,500	7,566	0.051	70	2,156
Ericsson AIR 6419 B77G	128	198	1,418	0.010	13	171
Samsung MT6407-77A	122	245	1,603	0.011	15	211
Generic GPS	120	10	64	0.000	1	9
Samsung RT4401-48A	120	56	355	0.002	3	48
Samsung B2/B66A RRH-BR049	120	253	1,609	0.011	15	218
Samsung B5/B13 RRH-BR04C	120	422	2,680	0.018	25	364
Raycap RCMDC-3315-PF-48	120	43	272	0.002	3	37
Andrew LNX-6514DS-A1M	120	116	740	0.005	7	100
Commscope SBNHH-1D65B	120	304	1,933	0.013	18	262
VZW Unused Reserve (17102.97 sqin)	120	1,038	6,593	0.044	61	895
Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	118	13	81	0.000	1	11
Commscope ATSBT-TOP-MF-4G	100	5	25	0.000	0	5
RFS ATMA4P4DBP-1A20	100	48	217	0.002	2	41
RFS APXV18-209014-C-A20	100	56	255	0.002	2	48
Andrew LNX-6515DS-A1M	100	149	680	0.005	6	129
Generic Flat Low Profile Platform	100	1,875	8,534	0.057	79	1,617
PCTEL GPS-TMG-HR-26N	90	1	2	0.000	0	1
Generic 12" x 12" Junction Box	90	30	113	0.001	1	26
Alcatel-Lucent RRH2x50-08	90	159	596	0.004	6	137
Alcatel-Lucent 800 MHz RRH	90	159	597	0.004	6	137
Alcatel-Lucent 1900 MHz 4X45 RRH	90	180	676	0.004	6	155
Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	90	210	788	0.005	7	181
RFS APXVSPP18-C-A20	90	171	642	0.004	6	147
Generic Round Platform with Handrails	90	2,500	9,385	0.063	87	2,156
Commscope RDIDC-9181-PF-48	80	22	66	0.000	1	19
Fujitsu TA08025-B605	80	225	681	0.005	6	194
Fujitsu TA08025-B604	80	192	580	0.004	5	165

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
JMA Wireless MX08FRO665-21	80	194	586	0.004	5	167
		45,993	148,870	1.000	1,380	39,657

1.2D + 1.0Ev + 1.0Eh **Seismic**

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-55.02	-1.38	0.00	-149.68	0.00	149.68	5,907.57	1,406.47	6,416	6,125.97	0.00	0.00	0.03
5.00	-53.14	-1.39	0.00	-142.76	0.00	142.76	5,798.21	1,371.78	6,103	5,862.82	0.00	-0.01	0.03
10.00	-51.31	-1.40	0.00	-135.81	0.00	135.81	5,660.34	1,337.09	5,798	5,577.22	0.02	-0.02	0.03
15.00	-49.53	-1.40	0.00	-128.84	0.00	128.84	5,513.49	1,302.40	5,502	5,290.13	0.04	-0.02	0.03
20.00	-47.78	-1.40	0.00	-121.84	0.00	121.84	5,366.64	1,267.71	5,212	5,010.63	0.07	-0.03	0.03
25.00	-46.07	-1.40	0.00	-114.83	0.00	114.83	5,219.78	1,233.02	4,931	4,738.71	0.11	-0.04	0.03
30.00	-44.41	-1.40	0.00	-107.81	0.00	107.81	5,072.93	1,198.33	4,658	4,474.38	0.16	-0.05	0.03
35.00	-42.81	-1.40	0.00	-100.80	0.00	100.80	4,926.08	1,163.64	4,392	4,217.63	0.22	-0.06	0.03
39.94	-42.77	-1.40	0.00	-93.90	0.00	93.90	4,780.98	1,129.37	4,137	3,971.41	0.29	-0.07	0.03
40.00	-40.00	-1.38	0.00	-93.81	0.00	93.81	4,779.22	1,128.95	4,134	3,968.47	0.29	-0.07	0.03
45.00	-39.63	-1.38	0.00	-86.91	0.00	86.91	4,632.37	1,094.26	3,884	3,726.90	0.37	-0.08	0.03
45.68	-38.41	-1.37	0.00	-85.96	0.00	85.96	4,132.51	976.18	3,532	3,395.74	0.38	-0.08	0.04
50.00	-37.05	-1.36	0.00	-80.04	0.00	80.04	4,021.55	949.97	3,345	3,214.87	0.45	-0.09	0.03
55.00	-35.71	-1.35	0.00	-73.23	0.00	73.23	3,893.05	919.62	3,135	3,011.61	0.55	-0.10	0.03
60.00	-34.42	-1.34	0.00	-66.47	0.00	66.47	3,764.55	889.26	2,931	2,814.98	0.66	-0.11	0.03
65.00	-33.16	-1.32	0.00	-59.80	0.00	59.80	3,636.06	858.91	2,735	2,624.99	0.79	-0.12	0.03
70.00	-31.94	-1.30	0.00	-53.21	0.00	53.21	3,507.56	828.56	2,545	2,441.64	0.92	-0.13	0.03
75.00	-30.87	-1.28	0.00	-46.72	0.00	46.72	3,379.07	798.20	2,362	2,264.93	1.06	-0.14	0.03
79.52	-30.69	-1.28	0.00	-40.95	0.00	40.95	3,263.02	770.79	2,202	2,111.04	1.20	-0.15	0.03
80.00	-25.33	-1.14	0.00	-40.33	0.00	40.33	3,250.57	767.85	2,186	2,094.86	1.22	-0.15	0.03
84.10	-25.17	-1.14	0.00	-35.64	0.00	35.64	2,289.83	543.72	1,534	1,468.57	1.35	-0.16	0.04
85.00	-24.31	-1.12	0.00	-34.62	0.00	34.62	2,277.57	539.84	1,512	1,450.16	1.38	-0.16	0.04
90.00	-19.27	-0.96	0.00	-29.04	0.00	29.04	2,193.54	518.16	1,393	1,340.00	1.56	-0.17	0.03
95.00	-18.48	-0.94	0.00	-24.23	0.00	24.23	2,101.75	496.48	1,279	1,229.65	1.75	-0.19	0.03
100.00	-15.14	-0.81	0.00	-19.54	0.00	19.54	2,009.97	474.80	1,170	1,124.05	1.95	-0.20	0.03
105.00	-14.46	-0.79	0.00	-15.46	0.00	15.46	1,918.19	453.11	1,065	1,023.18	2.16	-0.21	0.02
110.00	-13.81	-0.76	0.00	-11.52	0.00	11.52	1,826.40	431.43	966	927.05	2.38	-0.21	0.02
115.00	-13.81	-0.76	0.00	-7.72	0.00	7.72	1,734.62	409.75	871	835.67	2.61	-0.22	0.02
115.04	-13.26	-0.73	0.00	-7.68	0.00	7.68	1,733.81	409.56	871	834.88	2.61	-0.22	0.02
118.00	-13.14	-0.73	0.00	-5.51	0.00	5.51	1,679.55	396.74	817	783.11	2.75	-0.23	0.02
118.58	-13.02	-0.72	0.00	-5.09	0.00	5.09	957.75	241.77	506	456.08	2.78	-0.23	0.03
120.00	-7.00	-0.41	0.00	-4.06	0.00	4.06	947.86	238.07	490	444.39	2.84	-0.23	0.02
122.00	-6.47	-0.39	0.00	-3.24	0.00	3.24	933.73	232.86	469	428.12	2.94	-0.23	0.01
125.00	-6.25	-0.37	0.00	-2.08	0.00	2.08	911.97	225.06	438	404.01	3.09	-0.23	0.01
128.00	-5.87	-0.35	0.00	-0.96	0.00	0.96	889.55	217.25	408	380.29	3.23	-0.23	0.01
130.00	-0.88	-0.06	0.00	-0.26	0.00	0.26	874.24	212.05	389	364.72	3.33	-0.23	0.00
132.00	-0.43	-0.03	0.00	-0.15	0.00	0.15	858.63	206.84	370	349.33	3.43	-0.23	0.00
135.00	-0.19	-0.01	0.00	-0.06	0.00	0.06	834.67	199.04	343	326.65	3.58	-0.24	0.00
140.00	0.00	-0.01	0.00	0.00	0.00	0.00	787.53	186.03	299	287.86	3.82	-0.24	0.00

0.9D - 1.0Ev + 1.0Eh **Seismic (Reduced DL)**

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-38.32	-1.38	0.00	-147.66	0.00	147.66	5,907.57	1,406.47	6,416	6,125.97	0.00	0.00	0.03
5.00	-37.02	-1.39	0.00	-140.75	0.00	140.75	5,798.21	1,371.78	6,103	5,862.82	0.00	-0.01	0.03
10.00	-35.75	-1.39	0.00	-133.82	0.00	133.82	5,660.34	1,337.09	5,798	5,577.22	0.02	-0.02	0.03
15.00	-34.50	-1.39	0.00	-126.87	0.00	126.87	5,513.49	1,302.40	5,502	5,290.13	0.04	-0.02	0.03
20.00	-33.28	-1.39	0.00	-119.91	0.00	119.91	5,366.64	1,267.71	5,212	5,010.63	0.07	-0.03	0.03
25.00	-32.09	-1.39	0.00	-112.94	0.00	112.94	5,219.78	1,233.02	4,931	4,738.71	0.11	-0.04	0.03
30.00	-30.94	-1.39	0.00	-105.99	0.00	105.99	5,072.93	1,198.33	4,658	4,474.38	0.16	-0.05	0.03

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
35.00	-29.82	-1.38	0.00	-99.05	0.00	99.05	4,926.08	1,163.64	4,392	4,217.63	0.21	-0.06	0.03
39.94	-29.80	-1.38	0.00	-92.22	0.00	92.22	4,780.98	1,129.37	4,137	3,971.41	0.28	-0.07	0.03
40.00	-27.86	-1.36	0.00	-92.14	0.00	92.14	4,779.22	1,128.95	4,134	3,968.47	0.28	-0.07	0.03
45.00	-27.60	-1.36	0.00	-85.31	0.00	85.31	4,632.37	1,094.26	3,884	3,726.90	0.36	-0.08	0.03
45.68	-26.76	-1.35	0.00	-84.38	0.00	84.38	4,132.51	976.18	3,532	3,395.74	0.37	-0.08	0.03
50.00	-25.81	-1.34	0.00	-78.53	0.00	78.53	4,021.55	949.97	3,345	3,214.87	0.45	-0.09	0.03
55.00	-24.88	-1.33	0.00	-71.82	0.00	71.82	3,893.05	919.62	3,135	3,011.61	0.55	-0.10	0.03
60.00	-23.98	-1.31	0.00	-65.17	0.00	65.17	3,764.55	889.26	2,931	2,814.98	0.65	-0.11	0.03
65.00	-23.10	-1.30	0.00	-58.60	0.00	58.60	3,636.06	858.91	2,735	2,624.99	0.77	-0.12	0.03
70.00	-22.25	-1.27	0.00	-52.13	0.00	52.13	3,507.56	828.56	2,545	2,441.64	0.90	-0.13	0.03
75.00	-21.50	-1.25	0.00	-45.76	0.00	45.76	3,379.07	798.20	2,362	2,264.93	1.05	-0.14	0.03
79.52	-21.38	-1.25	0.00	-40.10	0.00	40.10	3,263.02	770.79	2,202	2,111.04	1.18	-0.15	0.03
80.00	-17.65	-1.12	0.00	-39.49	0.00	39.49	3,250.57	767.85	2,186	2,094.86	1.20	-0.15	0.02
84.10	-17.54	-1.12	0.00	-34.90	0.00	34.90	2,289.83	543.72	1,534	1,468.57	1.33	-0.16	0.03
85.00	-16.93	-1.09	0.00	-33.90	0.00	33.90	2,277.57	539.84	1,512	1,450.16	1.36	-0.16	0.03
90.00	-13.42	-0.94	0.00	-28.43	0.00	28.43	2,193.54	518.16	1,393	1,340.00	1.53	-0.17	0.03
95.00	-12.87	-0.92	0.00	-23.71	0.00	23.71	2,101.75	496.48	1,279	1,229.65	1.72	-0.18	0.03
100.00	-10.55	-0.80	0.00	-19.12	0.00	19.12	2,009.97	474.80	1,170	1,124.05	1.91	-0.19	0.02
105.00	-10.08	-0.77	0.00	-15.13	0.00	15.13	1,918.19	453.11	1,065	1,023.18	2.12	-0.20	0.02
110.00	-9.62	-0.74	0.00	-11.27	0.00	11.27	1,826.40	431.43	966	927.05	2.34	-0.21	0.02
115.00	-9.62	-0.74	0.00	-7.55	0.00	7.55	1,734.62	409.75	871	835.67	2.56	-0.22	0.02
115.04	-9.24	-0.72	0.00	-7.52	0.00	7.52	1,733.81	409.56	871	834.88	2.56	-0.22	0.01
118.00	-9.15	-0.71	0.00	-5.39	0.00	5.39	1,679.55	396.74	817	783.11	2.70	-0.22	0.01
118.58	-9.07	-0.71	0.00	-4.98	0.00	4.98	957.75	241.77	506	456.08	2.73	-0.22	0.02
120.00	-4.87	-0.40	0.00	-3.98	0.00	3.98	947.86	238.07	490	444.39	2.79	-0.22	0.01
122.00	-4.51	-0.38	0.00	-3.17	0.00	3.17	933.73	232.86	469	428.12	2.89	-0.23	0.01
125.00	-4.36	-0.37	0.00	-2.04	0.00	2.04	911.97	225.06	438	404.01	3.03	-0.23	0.01
128.00	-4.09	-0.34	0.00	-0.94	0.00	0.94	889.55	217.25	408	380.29	3.17	-0.23	0.01
130.00	-0.61	-0.05	0.00	-0.25	0.00	0.25	874.24	212.05	389	364.72	3.27	-0.23	0.00
132.00	-0.30	-0.03	0.00	-0.15	0.00	0.15	858.63	206.84	370	349.33	3.37	-0.23	0.00
135.00	-0.13	-0.01	0.00	-0.06	0.00	0.06	834.67	199.04	343	326.65	3.51	-0.23	0.00
140.00	0.00	-0.01	0.00	0.00	0.00	0.00	787.53	186.03	299	287.86	3.75	-0.23	0.00

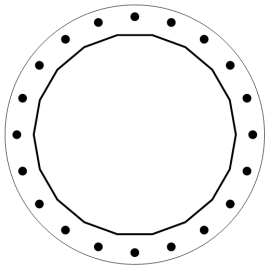
ANALYSIS SUMMARY

	Reactions						Max Usage	
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	26.04	0.00	55.16	0.00	0.00	2633.23	45.68	0.45
0.9D + 1.0W	26.02	0.00	41.36	0.00	0.00	2603.84	45.68	0.44
1.2D + 1.0Di + 1.0Wi	7.70	0.00	82.55	0.00	0.00	787.77	45.68	0.15
1.2D + 1.0Ev + 1.0Eh	1.40	0.00	55.02	0.00	0.00	149.68	84.10	0.04
0.9D - 1.0Ev + 1.0Eh	1.39	0.00	38.32	0.00	0.00	147.66	84.10	0.03
1.0D + 1.0W	6.23	0.00	45.99	0.00	0.00	625.97	45.68	0.11

BASE PLATE ANALYSIS @ 0 FT

PLATE PARAMETERS (ID# 11034)

Diameter:	66	in
Shape:	Round	
Thickness:	2.25	in
Grade:	A871-60	
Yield Strength:	60	ksi
Tensile Strength:	75	ksi
Rod Detail Type:	d	
Clear Distance	3.5	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	252	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	Fy (ksi)	Fu (ksi)	Spacing (in)	Offset (°)
Original [ID# 8077]	Radial	20	2.25	60	A615-75	75	100	-	-

ANCHOR ROD GEOMETRY AND APPLIED LOADS --- ORIGINAL (20) 2.25"ø [ID 8077]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in^4)	Axial Load (k)	Shear Load (k)
1	0.314	28.53	9.27	23.209	1750.184	92.74	1.21
2	0.628	24.27	17.63	16.862	924.254	92.74	1.67
3	0.942	17.63	24.27	8.865	256.065	92.74	1.96
4	1.257	9.27	28.53	0.000	0.839	92.74	2.06
5	1.571	0.00	30.00	-8.865	256.065	-81.71	1.96
6	1.885	-9.27	28.53	-16.862	924.256	-81.71	1.67
7	2.199	-17.63	24.27	-23.209	1750.184	-81.71	1.21
8	2.513	-24.27	17.63	-27.283	2418.373	-81.71	0.64
9	2.827	-28.53	9.27	-28.688	2673.599	-81.71	0.00
10	3.142	-30.00	0.00	-27.283	2418.373	-81.71	0.64
11	3.456	-28.53	-9.27	-23.209	1750.183	-81.71	1.21
12	3.770	-24.27	-17.63	-16.862	924.256	-81.71	1.67
13	4.084	-17.63	-24.27	-8.865	256.066	-81.71	1.96
14	4.398	-9.27	-28.53	0.000	0.839	92.74	2.06
15	4.712	0.00	-30.00	8.865	256.065	92.74	1.96
16	5.027	9.27	-28.53	16.862	924.254	92.74	1.67
17	5.341	17.63	-24.27	23.209	1750.185	92.74	1.21
18	5.655	24.27	-17.63	27.283	2418.374	92.74	0.64
19	5.969	28.53	-9.27	28.688	2673.599	92.74	0.00
20	6.283	30.00	0.00	27.283	2418.374	92.74	0.64

REACTION DISTRIBUTION

Component	ID	Moment Mu (k-ft)	Axial Load Pu (k)	Shear Vu (k)	Moment Factor
Pole	51"ø x 0.5" (18 Sides)	2633.2	55.16	26.04	1.000
Bolt Group	Original (20) 2.25"ø	2633.2	-	26.04	1.000
	TOTALS	**2633.23**	**55.16**	**26.04**	

COMPONENT PROPERTIES

Component	ID	Gross Area (in^2)	Net Area (in^2)	Individual Inertia (in^4)	Moment of Inertia (in^4)	Threads/in
Pole	51"ø x 0.5" (18 Sides)	78.9231	-	-	25165.81	-
Bolt Group	Original (20) 2.25"ø	3.9761	3.2477	0.8393	26744.39	4.5

EXTERNAL BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	51.12	in
Point-to-Point Diameter:	51.91	in
Flat Width:	9.015	in
Flat Radians:	0.349	rad

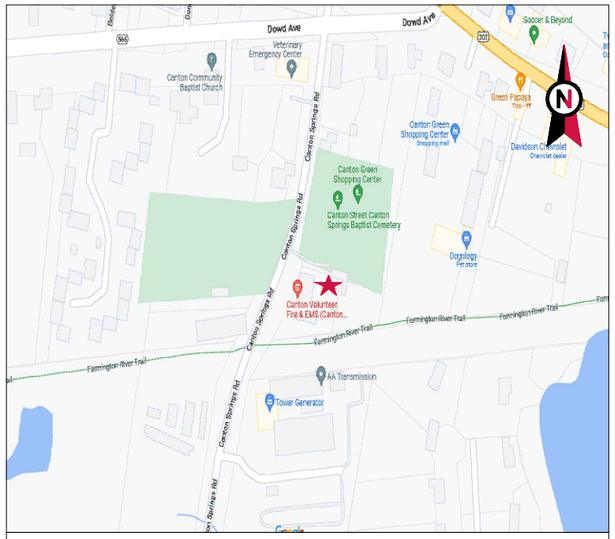
PLATE PROPERTIES

Neutral Axis:	252	°
Bend Line Lower Limit:	5.519	rad
Bend Line Upper Limit:	0.136	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in^3)	Applied Moment Mu (k-in)	Moment Capacity ϕMn (k-in)	Ratio
Flat	37.477	0.00	47.432	722.4	2561.3	0.282
Corner	36.377	0.00	46.039	593.2	2486.1	0.239
Circumferential	40.765	0.00	51.593	894.9	2786.0	0.321

PLASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load Pu (k)	Applied Shear Load Vu (k)	Compressive Capacity ϕPn (k)	Ratio
Original	20	2.25	92.8	2.1	243.6	0.398

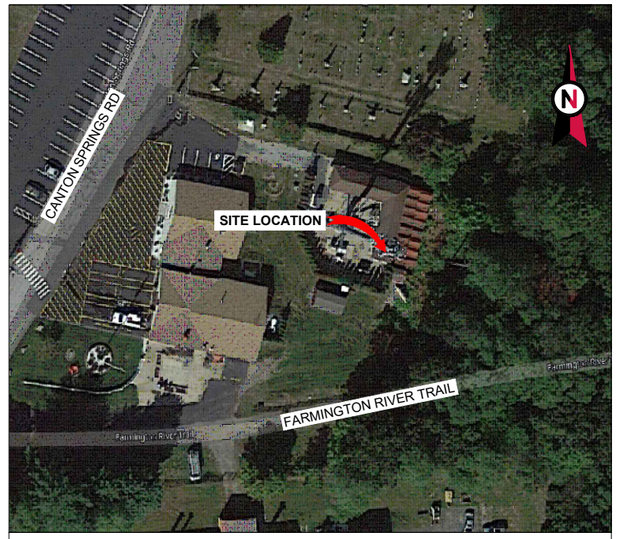


VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: CANTON CT
ATC SITE NUMBER: 411256
AT&T PACE NUMBERS: MRCTB055472/ MRCTB054762/
MRCTB053950/ MRCTB053946/
MRCTB055481/ MRCTB054695
AT&T SITE ID: CTL01022
AT&T FA CODE:10035260
AT&T SITE NAME: CANTON SE
SITE ADDRESS: 14 CANTON SPRINGS ROAD
CANTON,CT 06019-2401

AT&T 5G NR 1SR CBAND AMENDMENT PLAN



LOCATION MAP

COMPLIANCE CODE

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

1. INTERNATIONAL BUILDING CODE (IBC)
2. NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: UTILITY COMPANY DIRECT
PHONE: UNKNOWN

TELEPHONE COMPANY: UNKNOWN
PHONE: UNKNOWN

811 Know what's below. Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

14 CANTON SPRINGS ROAD
CANTON,CT 06019-2401
COUNTY: HARTFORD

GEOGRAPHIC COORDINATES:

LATITUDE: 41.822876
LONGITUDE: -72.895164
GROUND ELEVATION: 340' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

AT&T MOBILITY

ENGINEER:

HUDSON DESIGN GROUP, LLC
45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845

PROPERTY OWNER:

CANTON VOLUNTEER FIRE
COMPANY INC
14 CANTON SPRINGS ROAD
CANTON,CT 06019-2401

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

TOWER WORK:

REMOVE (6) ANTENNA(S), (6) TMA'S AND (1) DC-6 SQUID.

INSTALL (3) SECTOR FRAME(S), (1) MONOPOLE ATTACHMENT KIT, (9) ANTENNA(S), (3) RRH(S), (1) DC-6 SQUID, (1) 0.405" 36SM FIBER TRUNK AND (6) Y-CABLE(S).

EXISTING (3) ANTENNA(S), (9) RRH(S), (2) DC-6 SQUID(S), (4) 0.82" DC TRUNK(S), (2) 0.92" DC TRUNK(S), (2) FIBER TRUNK(S), (10) 7/8" COAX CABLE(S) AND (2) 2" CONDUIT TO REMAIN

GROUND WORK:

REMOVE (3) RRH(S) AND (12) DIPLEXER(S).

INSTALL (1) 6648 AND (3) RECTIFIER(S)

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.
6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

PROJECT LOCATION DIRECTIONS

FROM MTSO TAKE 91 SOUTH TO 84 WEST FOLLOW 84 W TO EXIT 39 RTE 4 WEST. FOLLOW RTE 4 W FOR APPROX. 1 MILE TAKE A RIGHT ONTO RTE 10 NORTH(WATERVILLE RD.) FOLLOW RTE 10 N FOR APPROX. 5.4 MILES AND TAKE A LEFT ONTO RTE 44 WEST. FOLLOW FOR APPROX. 4.4 MILES AND TAKE A LEFT AT LIGHT TAKE YOUR FIRST LEFT ONTO CANTON SPRINGS RD. OUR TOWER IS ON THE LEFT APPROX 50 YARDS. NOTE: 1ST DOOR IS VERIZON GENERATOR & 3 RD DOOR IS CELL SITE DOOR.

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AT&T RAN SCOPING NOTES:

- (0) DC UPCONVERTERS REQUIRED
- INSTALL (3) RECTIFIERS

AMERICAN TOWER®

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

REV.	DESCRIPTION	BY	DATE
A	PRELIM	PM	04/08/22
0	FINALS	TR	06/01/22

ATC SITE NUMBER:
411256

ATC SITE NAME:
CANTON CT

AT&T SITE NAME:
CANTON SE

SITE ADDRESS:
14 CANTON SPRINGS ROAD
CANTON,CT 06019-2401

SEAL:

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED
PROFESSIONAL ENGINEER

AT&T

DATE DRAWN:	04/04/2022
ATC JOB NO:	13757774_G5
CUSTOMER ID:	CTL01022
CUSTOMER #:	10035260

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, AT&T "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
   - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
   - B. AC/TELCO INTERFACE BOX (PPC)
   - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - F. GENERATORS & LIQUID PROPANE TANK
   - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   - H. ANTENNAS (INSTALLED BY OTHERS)
   - I. TRANSMISSION LINE
   - J. TRANSMISSION LINE JUMPERS
   - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
   - L. TRANSMISSION LINE GROUND KITS
   - M. HANGERS
   - N. HOISTING GRIPS
   - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF AT&T TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE AT&T REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE AT&T REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH AT&T AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY AT&T REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE AT&T REP. ANY WORK FOUND BY THE AT&T REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. AT&T FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. AT&T OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO AT&T OR THEIR ARCHITECT/ENGINEER.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
   - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
   - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
   - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
   - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
   - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
   - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
   - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
   - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
   - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
   - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
   - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
   - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING ½" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
   - H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
   - I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T- MOBILE PROJECT MANAGER IN WRITING

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.
   - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
   - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

AMERICAN TOWER®

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	PM	04/08/22
0	FINALS	TR	06/01/22

ATC SITE NUMBER:
411256

ATC SITE NAME:
CANTON CT

AT&T SITE NAME:
CANTON SE

SITE ADDRESS:
14 CANTON SPRINGS ROAD
CANTON,CT 06019-2401

SEAL:

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

DATE DRAWN:	04/04/2022
ATC JOB NO:	13757774_G5
CUSTOMER ID:	CTL01022
CUSTOMER #:	10035260

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

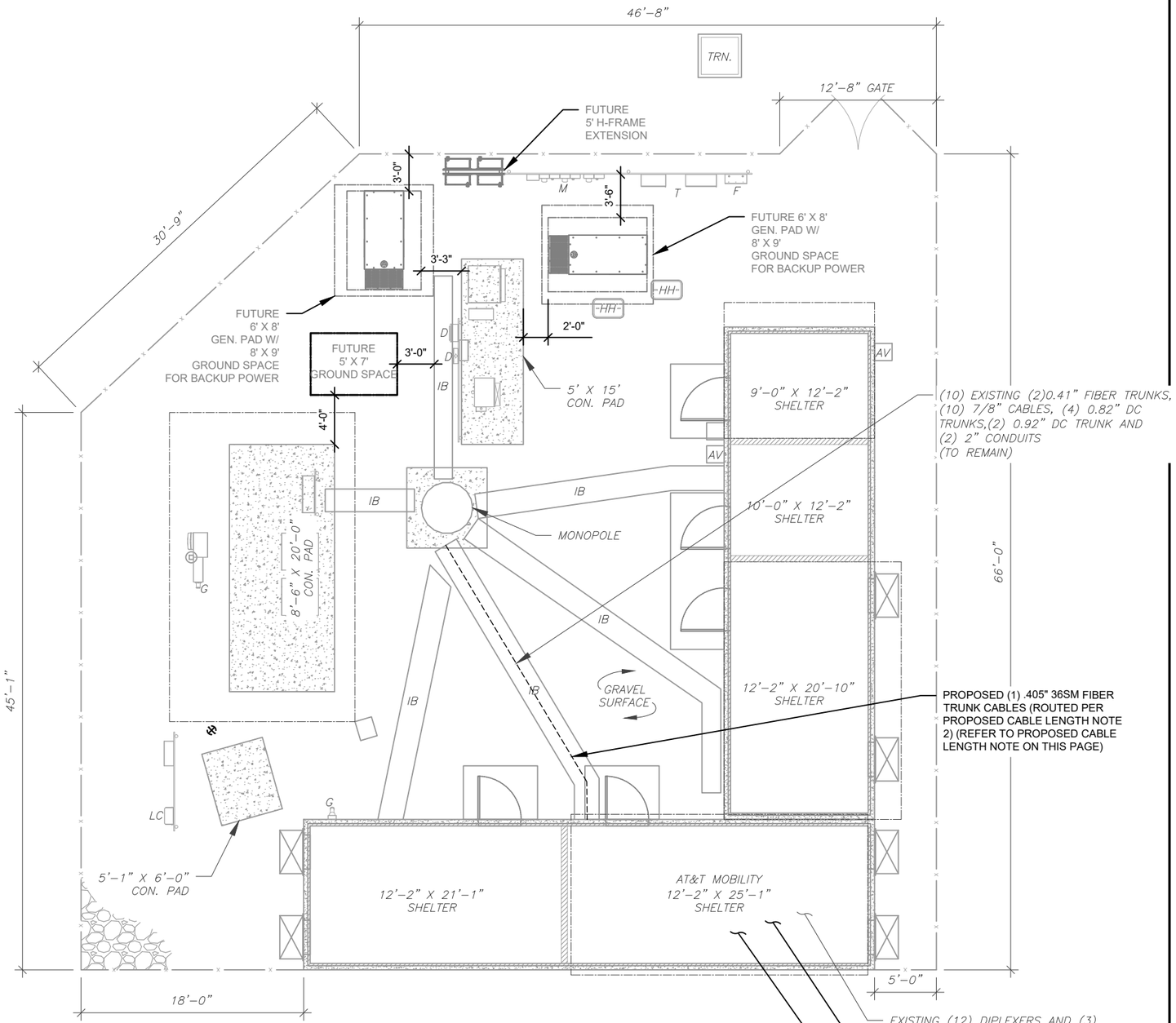
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
—x—	CHAINLINK FENCE



1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1 UNIT = 10 FEET

PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **200' +/-**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

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ATC SITE NUMBER:
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SITE ADDRESS:
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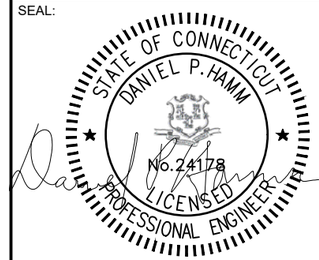
CANTON,CT 06019-2401

SEAL:



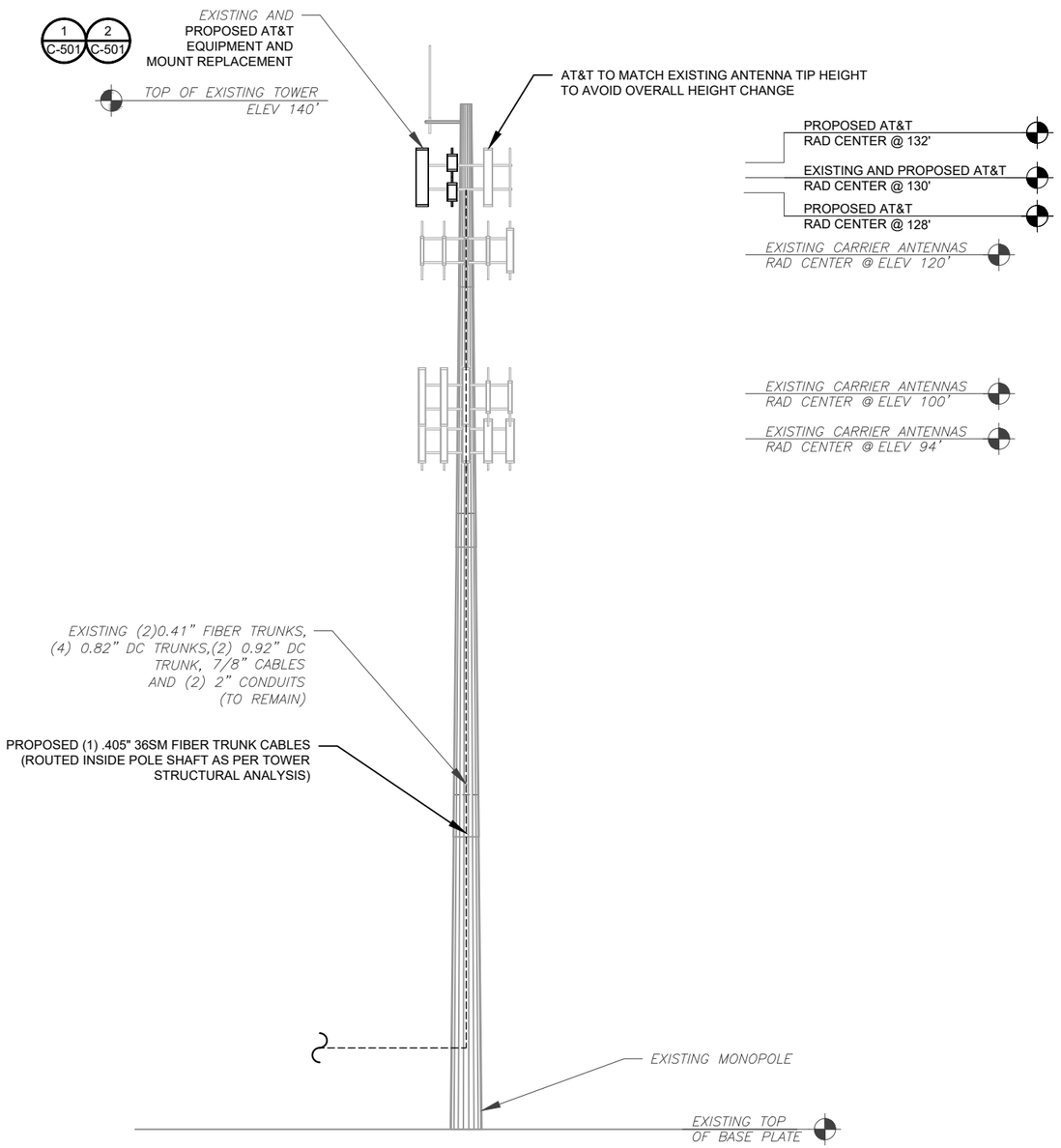
AT&T

DATE DRAWN:	04/04/2022
ATC JOB NO:	13757774_G5
CUSTOMER ID:	CTL01022
CUSTOMER #:	10035260

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

PER MOUNT ANALYSIS COMPLETED BY TOWER ENGINEERING PROFESSIONALS, DATED 04/01/22, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



1 TOWER ELEVATION
SCALE: 1"=20'

TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
5. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

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AT&T SITE NAME:
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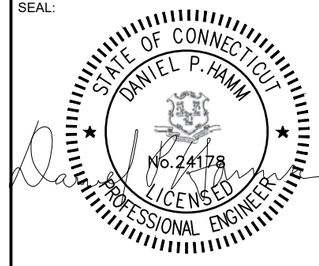
SITE ADDRESS:
14 CANTON SPRINGS ROAD
CANTON,CT 06019-2401

SEAL:



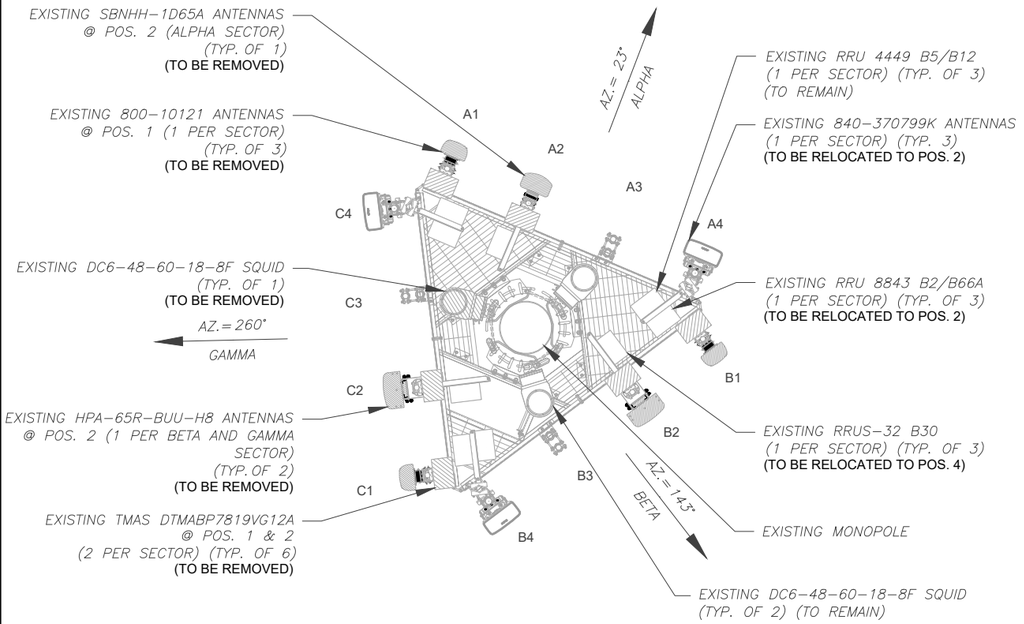
AT&T

DATE DRAWN:	04/04/2022
ATC JOB NO:	13757774_G5
CUSTOMER ID:	CTL01022
CUSTOMER #:	10035260

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

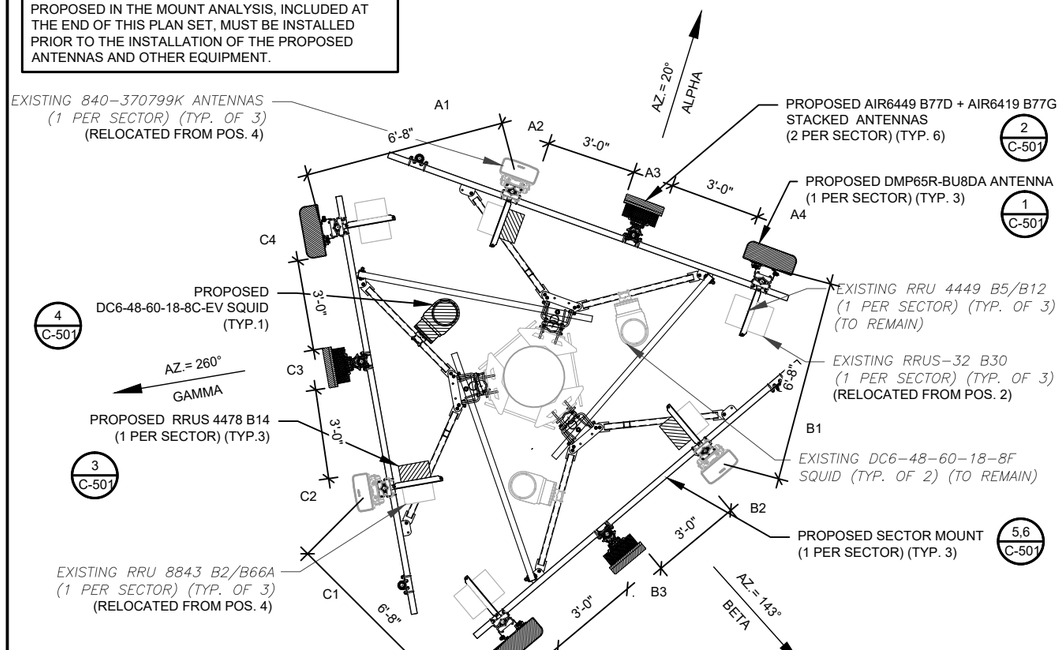
EXISTING CONFIGURATIONS ARE BASED ON RFDS.
CONTRACTOR TO VERIFY EXISTING CONDITIONS.



1 CURRENT ANTENNA PLAN
SCALE: 1"=5'

PER MOUNT ANALYSIS COMPLETED BY TOWER ENGINEERING PROFESSIONALS, DATED 04/01/22, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

CONTRACTOR SHALL RE-ORIENT ANTENNA MOUNT(s) AS NECESSARY TO ACHIEVE PROPOSED ANTENNA AZIMUTHS



2 FINAL ANTENNA PLAN
SCALE: 1"=5'

PROPOSED RRUs MUST BE INSTALLED A MINIMUM OF 8" AWAY FROM ALL ANTENNAS

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	130'	23°	A1	800-10121	UMTS 850	RMV	DTMABP7819VG12A TMA	RMV
			A2	SBNHH-1D65A	WCS	RMV	RRUS-32 B30 DTMABP7819VG12A TMA	REL RMV
			A3	-	-	EMPTY	-	-
			A4	840-370799K	700/850, 1900/AWS	REL	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RMN REL
BETA	130'	143°	B1	800-10121	UMTS 850	RMV	DTMABP7819VG12A TMA	RMV
			B2	HPA-65R-BUU-H8	WCS	RMV	RRUS-32 B30 DTMABP7819VG12A TMA	REL RMV
			B3	-	-	EMPTY	-	-
			B4	840-370799K	700/850, 1900/AWS	REL	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RMN REL
GAMMA	130'	263°	C1	800-10121	UMTS 850	RMV	DTMABP7819VG12A TMA	RMV
			C2	HPA-65R-BUU-H8	WCS	RMV	RRUS-32 B30 DTMABP7819VG12A TMA	REL RMV
			C3	-	-	EMPTY	-	-
			C4	840-370799K	700/850, 1900/AWS	REL	RRUS 4449 B5/B12 RRUS 8843 B2/B66A	RMN REL

NOTES

1. CONFIRM WITH AT&T REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
3. THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
4. CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	130'	20°	A1	-	-	EMPTY	-	-
	130'		A2	840-370799K	LTE 700 B14 / PCS /AWS	REL	RRUS 4478 B14 RRUS 8843 B2/B66A	ADD RMN
	132' 128'		A3UP A3DN	AIR6419 B77G AIR6449 B77D	DOD+C-BAND	ADD	-	-
	130'		A4	DMP65R-BU8DA	LTE 700 BC / 850 / WCS	ADD	RRUS 4449 B5/B12 RRUS-32 B30	RMN
BETA	130'	143°	B1	-	-	EMPTY	-	-
	130'		B2	840-370799K	LTE 700 B14 / PCS /AWS	REL	RRUS 4478 B14 RRUS 8843 B2/B66A	ADD RMN
	132' 128'		B3UP B3DN	AIR6419 B77G AIR6449 B77D	DOD+C-BAND	ADD	-	-
	130'		B4	DMP65R-BU8DA	LTE 700 BC / 850 / WCS	ADD	RRUS 4449 B5/B12 RRUS-32 B30	RMN
GAMMA	130'	260°	C1	-	-	EMPTY	-	-
	130'		C2	840-370799K	LTE 700 B14 / PCS /AWS	REL	RRUS 4478 B14 RRUS 8843 B2/B66A	ADD RMN
	132' 128'		C3UP C3DN	AIR6419 B77G AIR6449 B77D	DOD+C-BAND	ADD	-	-
	130'		C4	DMP65R-BU8DA	LTE 700 BC / 850 / WCS	ADD	RRUS 4449 B5/B12 RRUS-32 B30	RMN

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

THIS PAGE CONTAINS CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

EXISTING FIBER DISTRIBUTION/SQUID

MODEL NUMBER	STATUS
(2) DC6-48-60-18-8F	RMN
(1) DC6-48-60-18-8F	RMV

EXISTING CABLING SUMMARY

COAX	CONDUITS	DC	FIBER	STATUS
(10) 7/8"	(2) 2"	(4) 0.82" (2) 0.92"	(2) 0.405"	RMN
-	-	-	-	-

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION/SQUID

MODEL NUMBER	STATUS
(2) DC6-48-60-18-8F	RMN
(1) DC6-48-60-18-8C-EV	ADD

FINAL CABLING SUMMARY

COAX	CONDUITS	DC	FIBER	STATUS
(10) 7/8"	(2) 2"	(4) 0.82" (2) 0.92"	(2) 0.41"	RMN
-	-	-	(1) 0.405 36 SM	ADD

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

REV.	DESCRIPTION	BY	DATE
0	PRELIM	PM	04/08/22
0	FINALS	TR	06/01/22

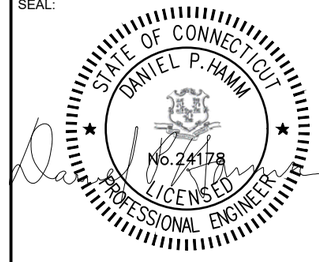
ATC SITE NUMBER:
411256

ATC SITE NAME:
CANTON CT

AT&T SITE NAME:
CANTON SE

SITE ADDRESS:
14 CANTON SPRINGS ROAD
CANTON,CT 06019-2401

SEAL:

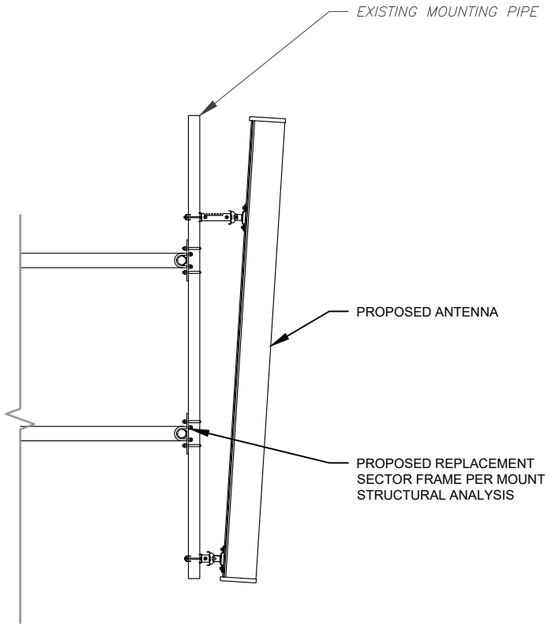


AT&T

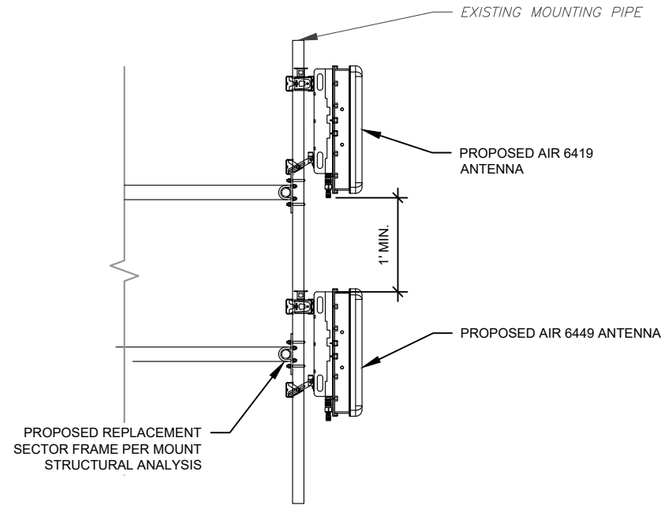
DATE DRAWN:	04/04/2022
ATC JOB NO:	13757774_G5
CUSTOMER ID:	CTL01022
CUSTOMER #:	10035260

RF SCHEDULE AND ANTENNA INSTALLATION

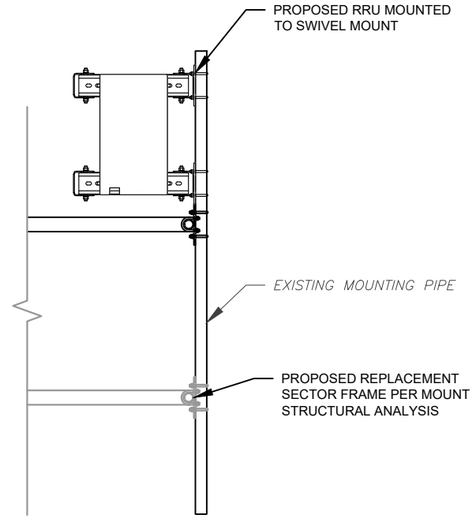
SHEET NUMBER:	REVISION:
C-401	0



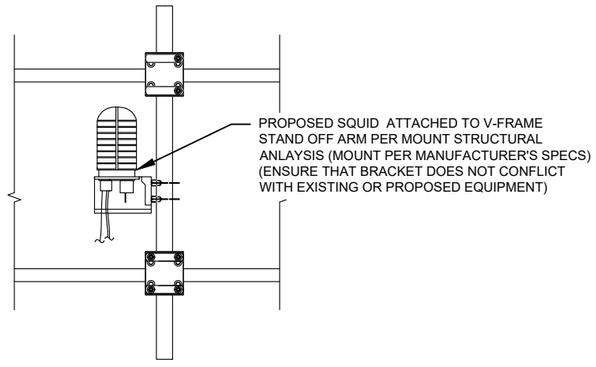
1 ANTENNA DETAIL
SCALE: N.T.S.



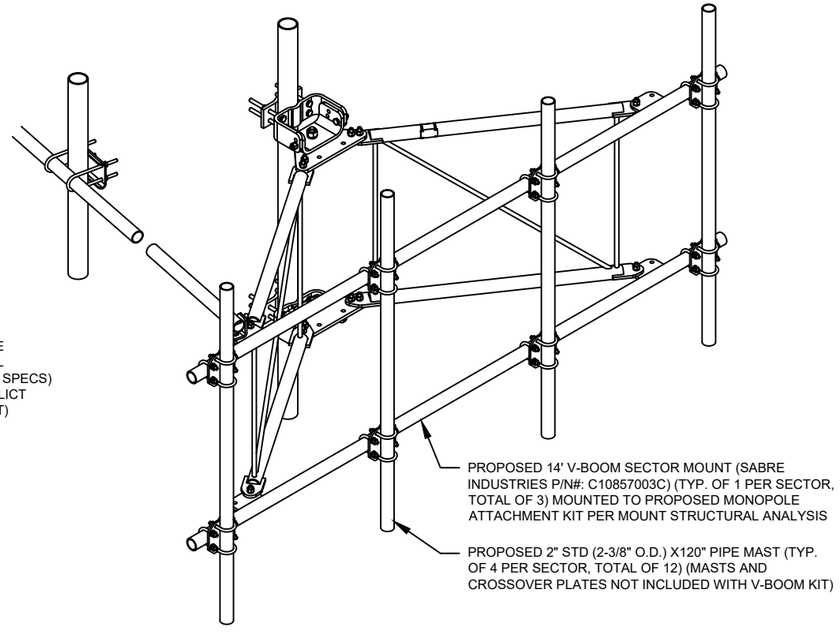
2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



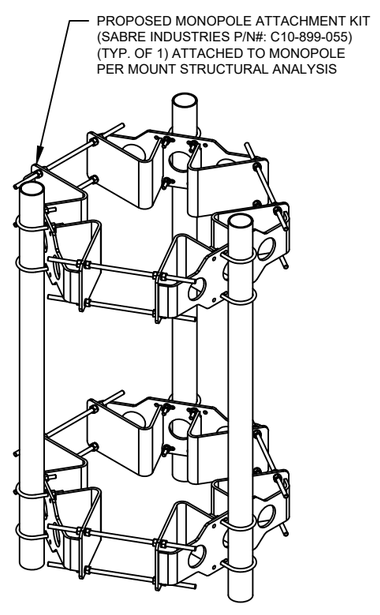
3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



4 PROPOSED SQUID MOUNTING
SCALE: N.T.S.



5 PROPOSED HEAVY DUTY V-FRAME DETAIL
SCALE: NOT TO SCALE



6 PROPOSED MONOPOLE ATTACHMENT KIT DETAIL
SCALE: NOT TO SCALE

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FAX: (978) 336-5586

REV.	DESCRIPTION	BY	DATE
A	PRELIM	PM	04/08/22
0	FINALS	TR	06/01/22

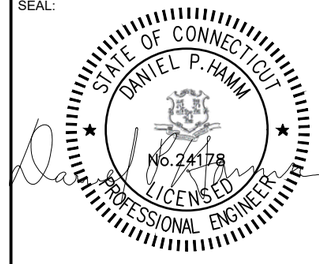
ATC SITE NUMBER:
411256

ATC SITE NAME:
CANTON CT

AT&T SITE NAME:
CANTON SE

SITE ADDRESS:
14 CANTON SPRINGS ROAD
CANTON,CT 06019-2401

SEAL:

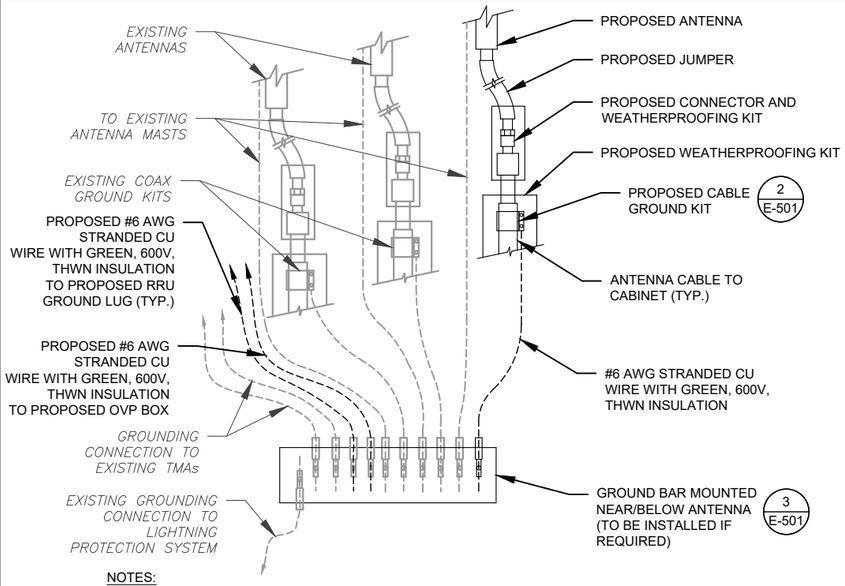


AT&T

DATE DRAWN:	04/04/2022
ATC JOB NO:	13757774_G5
CUSTOMER ID:	CTL01022
CUSTOMER #:	10035260

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

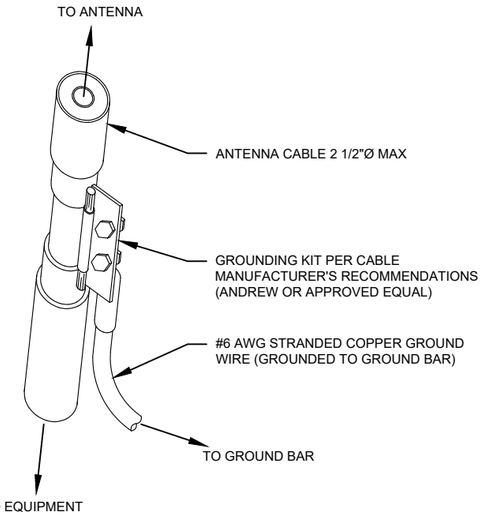


NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

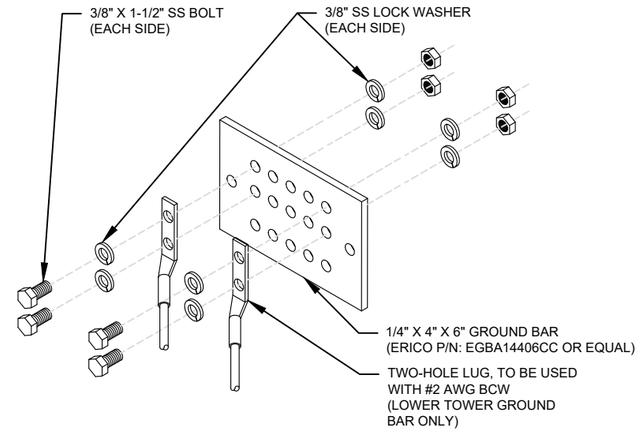


GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.

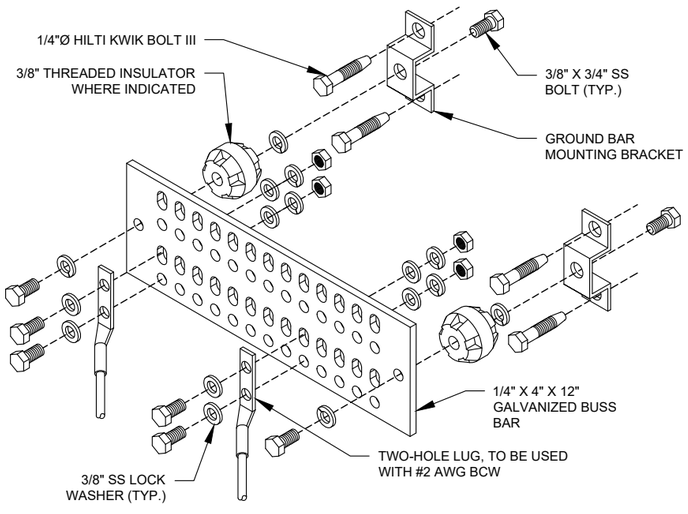


GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

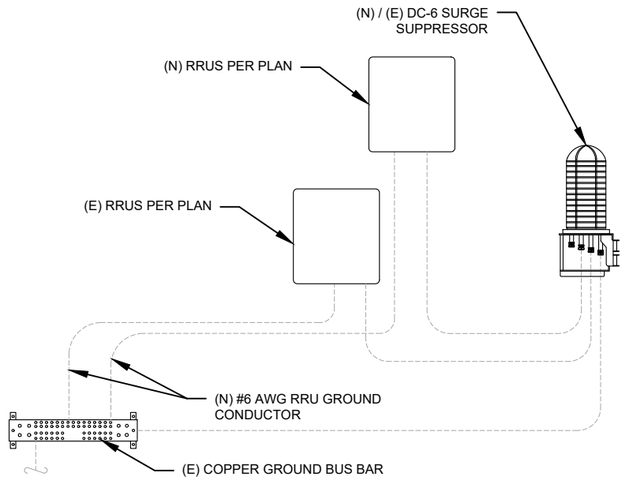


GROUND BAR NOTES

1. GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

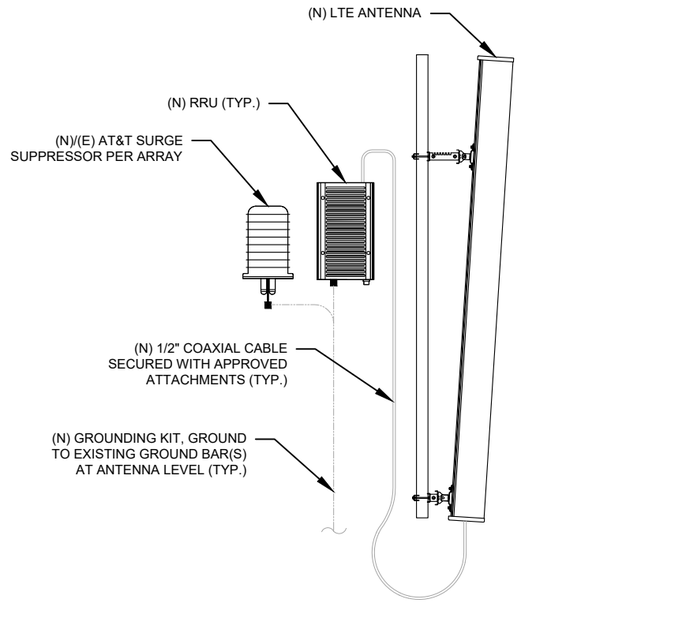
4 MAIN GROUND BAR DETAIL

SCALE: N.T.S.



5 RRU GROUNDING

SCALE: N.T.S.



6 ANTENNA/RRU GROUNDING

SCALE: N.T.S.

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	PM	04/08/22
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ATC SITE NUMBER:
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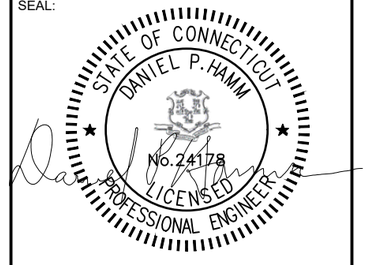
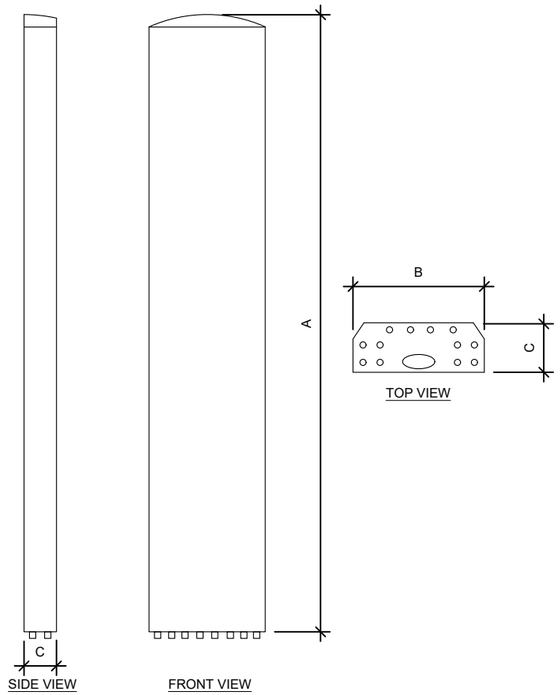


AT&T

DATE DRAWN:	04/04/2022
ATC JOB NO:	13757774_G5
CUSTOMER ID:	CTL01022
CUSTOMER #:	10035260

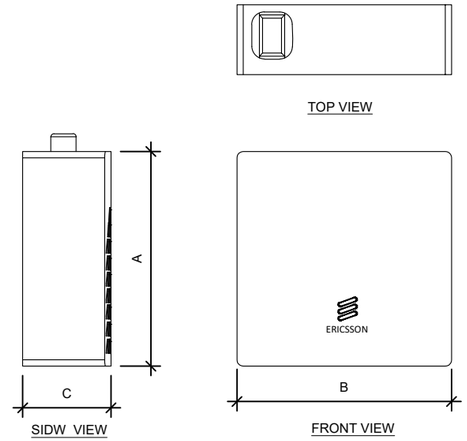
GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

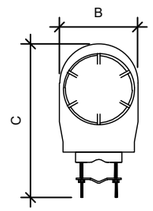


SIDE VIEW FRONT VIEW TOP VIEW

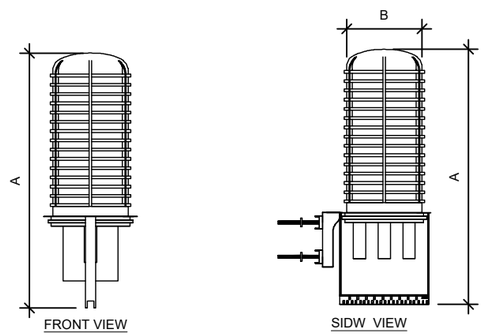
ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR 6419 B77G	15.7"	30.0"	6.7"	102.5
AIR 6449 B77	15.9"	30.4"	8.1"	103.6
DMP65R-BU8DA	96.0"	20.7"	7.7"	95.7



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
4478 B14	18.1"	13.4"	8.3"	59.4



PLAN VIEW



RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC6-48-60-18-8C-EV	31.4"	18.3"	10.2"	16.0

1 EQUIPMENT SPECIFICATIONS

SCALE: N.T.S.

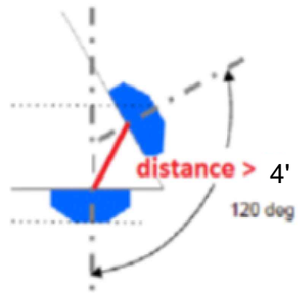
SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: 0

RF REQUIREMENTS FOR 700 B14 FIRSTNET, 700 B12, 700D B29 ANTENNA SEPARATION

- ❑ Horizontal separation (side to side of antenna): >= 3’
- ❑ Vertical separation (between the tips of the antennas): > 3’
- ❑ Inter-sector separation: > 4' between the center of the antenna backplanes.



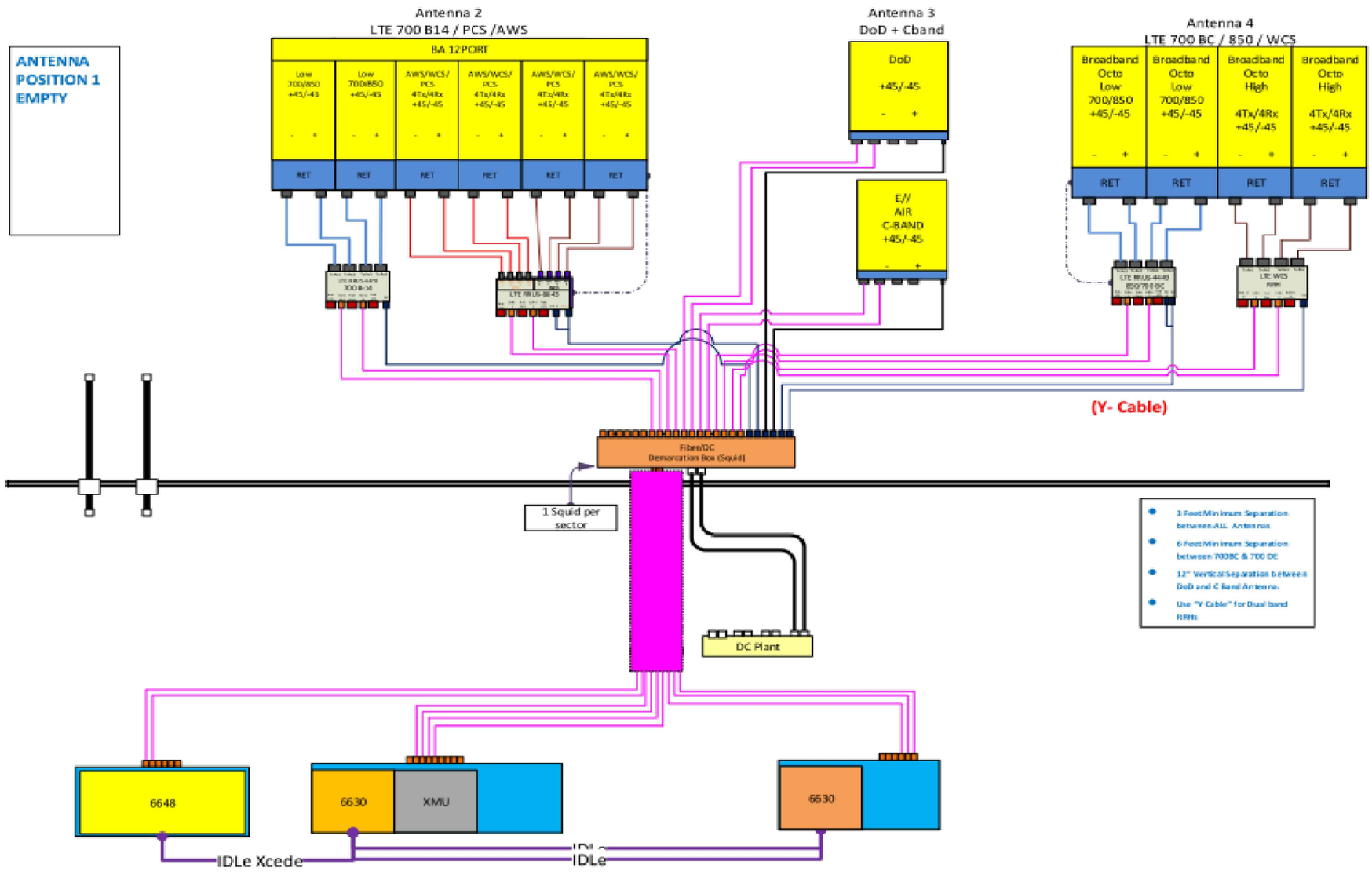
- ❑ Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- ❑ Typical 3' horizontal separation can tolerate skew angle up to 6°.

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-602	0

Diagram - Sector	A	Diagram File Name - NewCband_3Ant_2Coax_BA12_DoD_CB_DMP__8843_1DCFib_1x6630_XMU_6630_6648.vsd					
Atoll Site Name -	CTL01022	Location Name -	CANTON SE	Market -	CONNECTICUT	Market Cluster -	NEW ENGLAND
Comments: Important Note: For detailed radio to antenna wiring refer to the latest 4T4R Antenna/ radio Port connections Field Notice (RF-HW-2016-285)							



1 RFDS PLUMBING DIAGRAM

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. GENERAL CONTRACTOR IS TO CHECK WITH THE AT&T CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.

SUPPLEMENTAL

SHEET NUMBER: R-603

REVISION: 0

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

TOWER ENGINEERING PROFESSIONALS

Antenna Mount Analysis Report

ATC Site Name	:	**Canton CT, CT**
ATC Site Number	:	**411256**
Engineering Number	:	**13757774_C8_01**
Mount Elevation	:	**130 ft**
Carrier	:	**AT&T Mobility**
Carrier Site Name	:	**MRCTB055481**
Carrier Site Number	:	**CTL01022**
Site Location	:	**14 Canton Springs Road** **Canton, CT 06019-2401** **41.8229, -72.8952**
County	:	**Hartford**
Date	:	**April 1, 2022**
Max Usage	:	**54%**
Result	:	**Replacement (Pass)**

Prepared By:
Sean D. Jones, P.E.
TEP # 69007.677391

Reviewed By:

STATE OF CONNECTICUT
AARON THOMAS RUCKER
32608
LICENSED
PROFESSIONAL ENGINEER

04/01/2022

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 130 ft.

Supporting Documents

Spec. Sheet	Spec Sheet for Sabre C10857003C (CONMAT ANT.17195)
Spec. Sheet	Spec Sheet for Sabre C10-899-055 (CONMAT ANT.46140)
RFDS	RFDS dated February 15, 2022
Photos	Site photos from 2020

Analysis

This antenna mount was analyzed using RISA-3D v17 analysis software

Basic Wind Speed:	116 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) with 1.50 inch ice thickness
Codes:	ANSI/TIA-222-H
Risk Category:	II
Exposure Category:	B
Topographic Factor Procedure:	Method 2
Kzt:	1.000
Spectral Response:	S_s = 0.177, S_1 = 0.054
Site Class:	D - Default
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

Conclusion

Due to customer antenna spacing/separation requirements, the existing mount cannot support the equipment as described in this report and must be replaced with the mount listed below. Based on the analysis results, the proposed mount meets the requirements, per the applicable codes listed above, and can support the equipment as described in this report.

- Analysis is based on new Sabre C10857003C Sector Mounts (CONMAT ANT.17195) with a Sabre C10-899-055 Monopole Attachment Kit (CONMAT ANT. 46140)

If the load differs from that described in this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Tower Engineering Professionals, Inc. – 326 Tryon Road - Raleigh, NC 27603 - 919-661-6351 Office - 919-661-6351 Fax - www.tepgroup.net

1 MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-604	0

June 30, 2022

Jacqueline Hall
Project Manager, Site Development
American Tower Corporation
10 Presidential Way
Woburn, MA 01801

Re: Exempt Modification Application – AT&T Site 13757774
AT&T Mobility Telecommunications Facility @ 14 Canton Springs Rd., Canton, CT 06019

Dear Ms. Hall:

New Cingular Wireless, PCS, LLC (dba AT&T) currently maintains antennas on a wireless telecommunications facility on an existing American Tower Corporation (ATC) telecommunications tower at the above referenced address. AT&T desires to modify its existing equipment as described in the attached Construction Drawings:

- Remove six (6) antennas, six (6) TMAs, and one (1) DC-8 Squid.
- Install a three (3) sector antenna mount frame, one (1) monopole attachment kit, nine (9) antennas, three (3) RRHs, one (1) squid, six (6) Y cables and one (1) fiber trunk.
- Ground work includes removing three (3) RRHs and twelve (12) Diplexers, install one 6648 and three (3) rectifiers.

This letter is intended to serve as the required notice to the tower owner. As required by Regulations of Connecticut State Agencies ("RCSA") 16-50j-73 the Connecticut Siting Council ("CSC") has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe AT&T's proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

Jack Andrews
Zoning Manager, Centerline Communications
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

Enclosures

June 30, 2022

The Honorable Robert Bessel
Canton Town Hall
P.O. Box 168
4 Market Street
Canton, CT 06022

Re: Exempt Modification Application – AT&T Site 13757774
AT&T Mobility Telecommunications Facility @ 14 Canton Springs Rd., Canton, CT 06019

Dear First Selectman Bessel:

New Cingular Wireless, PCS, LLC (dba AT&T) currently maintains antennas on a wireless telecommunications facility on an existing American Tower Corporation (ATC) telecommunications tower at the above referenced address. AT&T desires to modify its existing equipment as described in the attached Construction Drawings:

- Remove six (6) antennas, six (6) TMAs, and one (1) DC-8 Squid.
- Install a three (3) sector antenna mount frame, one (1) monopole attachment kit, nine (9) antennas, three (3) RRHs, one (1) squid, six (6) Y cables and one (1) fiber trunk.
- Ground work includes removing three (3) RRHs and twelve (12) Diplexers, install one 6648 and three (3) rectifiers.

This letter is intended to serve as the required notice to the chief elected official of the municipality. As required by Regulations of Connecticut State Agencies ("RCSA") 16-50j-73 the Connecticut Siting Council ("CSC") has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe AT&T's proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

Jack Andrews
Zoning Manager, Centerline Communications
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

Enclosures

June 30, 2022

Canton Volunteer Fire Company Inc.
14 Canton Springs Rd.
Canton, CT 06019-2401

Re: Exempt Modification Application – AT&T Site 13757774
AT&T Mobility Telecommunications Facility @ 14 Canton Springs Rd., Canton, CT 06019

Dear Property Owner:

New Cingular Wireless, PCS, LLC (dba AT&T) currently maintains antennas on a wireless telecommunications facility on an existing American Tower Corporation (ATC) telecommunications tower at the above referenced address. AT&T desires to modify its existing equipment as described in the attached Construction Drawings:

- Remove six (6) antennas, six (6) TMAs, and one (1) DC-8 Squid.
- Install a three (3) sector antenna mount frame, one (1) monopole attachment kit, nine (9) antennas, three (3) RRHs, one (1) squid, six (6) Y cables and one (1) fiber trunk.
- Ground work includes removing three (3) RRHs and twelve (12) Diplexers, install one 6648 and three (3) rectifiers.

This letter is intended to serve as the required notice to the property owner. As required by Regulations of Connecticut State Agencies ("RCSA") 16-50j-73 the Connecticut Siting Council ("CSC") has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe AT&T's proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

Jack Andrews
Zoning Manager, Centerline Communications
10130 Donleigh Drive
Columbia, MD 21046
443-677-0144

Enclosures

June 30, 2022

Neil Pade, Director
Planning and Community Development
Canton Town Hall
P.O. Box 168
4 Market Street
Canton, CT 06022

Re: Exempt Modification Application – AT&T Site 13757774
AT&T Mobility Telecommunications Facility @ 14 Canton Springs Rd., Canton, CT 06019

Dear Mr. Pade:

New Cingular Wireless, PCS, LLC (dba AT&T) currently maintains antennas on a wireless telecommunications facility on an existing American Tower Corporation (ATC) telecommunications tower at the above referenced address. AT&T desires to modify its existing equipment as described in the attached Construction Drawings:

- Remove six (6) antennas, six (6) TMAs, and one (1) DC-8 Squid.
- Install a three (3) sector antenna mount frame, one (1) monopole attachment kit, nine (9) antennas, three (3) RRHs, one (1) squid, six (6) Y cables and one (1) fiber trunk.
- Ground work includes removing three (3) RRHs and twelve (12) Diplexers, install one 6648 and three (3) rectifiers.

This letter is intended to serve as the required notice to the municipal planning agency. As required by Regulations of Connecticut State Agencies ("RCSA") 16-50j-73 the Connecticut Siting Council ("CSC") has been notified of this proposal and will review this application. Please accept this letter as notification pursuant to RSCA 16-50j-73.

The enclosed letter and attachments to the CSC fully describe AT&T's proposal for the site. However, if you have any questions or require any additional information concerning our plans or the CSC procedures, please contact me at 443-677-0144 or contact Melanie Bachmann, Executive Director of the CSC at 860-972-2935.

Respectfully Submitted,

Jack Andrews
Zoning Manager, Centerline Communications
443-677-0144

Enclosures

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