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

November 1, 2019

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

RE: **Notice of Exempt Modification for AT&T: 806369**
439-455 Homestead Avenue, Hartford, CT 06105
Latitude: 41° 47′ 1.61″ / Longitude: -72° 42′ 13.66″

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 117-foot mount on the existing 140-foot Monopole Tower, located at 439-455 Homestead Avenue in Hartford, CT. The tower is owned by Crown Castle and the property is owned by Talar Properties LLC. AT&T now intends to replace three (3) existing antennas with three (3) new antennas. The new antennas will be installed at the 117-ft level of the tower. AT&T is also proposing tower mount modifications, as shown on the enclosed mount analysis.

The facility was approved by the Connecticut Siting Council on April 9, 1990 via Docket No. 126. The approval was given with conditions which AT&T's proposed exempt modification adhere to.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Luke Bronin, Mayor for the City of Hartford, Carlos Cruz, Zoning Enforcement Officer, Crown Castle as the tower owner, and Talar Properties LLC, the property owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,

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

Attachments
cc:

Luke Bronin, Mayor
City of Hartford
Office of the Mayor
550 Main Street, Room 200
Hartford, CT 06103
860-757-9500

Carlos Crus, Zoning Enforcement Officer
City of Hartford
Planning & Zoning Department
260 Constitution Plaza, 1st Floor
Hartford, CT 06103
860-757-9219

Talar Properties LLC
705 N Mountain Road
Newington, CT 06111

Crown Castle, Tower Owner

ORIGIN ID:ONHA (585) 445-5896
RICHARD ZAJAC
CROWN CASTLE
300 MERIDIAN CENTRE

ROCHESTER, NY 14618
UNITED STATES US

SHIP DATE: 01NOV19
ACTWGT: 4.00 LB
CAD: 104924194/INET4160

BILL SENDER

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

NEW BRITAIN CT 06051
(860) 827-2951
INV:
PO:
REF: 1765.6680
DEPT:

567J3/2A3C/05A2

J192119091901uv

FedEx Express

MON - 04 NOV 3:00P
STANDARD OVERNIGHT

TRK# 0201 **7768 7970 5309**

XE BDLA

06051
BDL
CT-US

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ORIGIN ID:ONHA (585) 445-5896
RICHARD ZAJAC
CROWN CASTLE
300 MERIDIAN CENTRE

ROCHESTER, NY 14618
UNITED STATES US

SHIP DATE: 01NOV19
ACTWGT: 1.50 LB
CAD: 104924194/INET4160

BILL SENDER

TO **CARLOS CRUZ, ZONING ENFORCEMENT**
CITY OF HARTFORD
260 CONSTITUTION PLAZA, 1ST FLOOR
INSPECTION SERVICES COUNTER
HARTFORD CT 06103
(860) 757-9219

INV:
PO:
REF: 1734.7680
DEPT:

567J3/2A3C/05A2

J192119091901uv

FedEx Express

MON - 04 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7768 7975 1499**

XE KXAA

06103
BDL
CT-US

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ORIGIN ID:ONHA (585) 445-5896
RICHARD ZAJAC
CROWN CASTLE
300 MERIDIAN CENTRE

ROCHESTER, NY 14618
UNITED STATES US

SHIP DATE: 01NOV19
ACTWGT: 1.50 LB
CAD: 104924194/INET4160

BILL SENDER

TO **TALAR PROPERTIES LLC**

705 N MOUNTAIN ROAD

NEWINGTON CT 06111

(518) 373-3543

INV:
PO:

REF: 1734.7680

DEPT:

567J3/2A3C/05A2

J192119091901uv

FedEx Express

MON - 04 NOV 3:00P

STANDARD OVERNIGHT

TRK# 0201 **7768 7976 5760**

XE BDLA

06111

BDL

CT-US

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Exhibit A

Original Facility Approval

DOCKET NO. 126 - AN APPLICATION OF METRO MOBILE CTS OF HARTFORD, INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, OPERATION, AND MAINTENANCE OF A CELLULAR TELEPHONE TOWER AND ASSOCIATED EQUIPMENT IN THE CITY OF HARTFORD, CONNECTICUT.	:	Connecticut Siting Council
	:	April 9, 1990

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

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council finds that the effects associated with the construction, operation, and maintenance of a cellular telephone facility at the proposed Hartford site, including effects on the natural environment; ecological integrity and balance; forests and parks; air and water purity; and fish and wildlife are not significant either alone or cumulatively with other effects, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS), be issued to Metro Mobile CTS of Hartford, Inc., for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed site in Hartford, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The monopole tower including antennas and associated equipment shall not exceed a height of 153 feet above ground level, 215 feet AMSL.

2. The facility shall be constructed in accordance with the State of Connecticut Basic Building Code.

3. The tower shall be designed and constructed to withstand 125 mph winds with two-inch radial ice accumulation.

4. The Certificate Holder shall prepare a Development and Management (D&M) plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall include detailed plans of the site preparation with a soil boring report; plans, design details, and specifications for the tower foundation; and a site plan with placement of the tower as far removed from abutting properties and structures as possible.

5. The Certificate Holder shall prepare the D&M plan in consultation with the City of Hartford, which may provide its comments to the Council within 20 days of submission to the City.

6. The Certificate Holder shall comply with existing and any future radio frequency (RF) standard promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted in this Decision and Order shall be brought into compliance with such standards.

7. The Certificate Holder shall provide the Council a recalculated report of power density if and when additional channels over the proposed 90 channels, higher wattage over the proposed 100 watts per channel, or if other circumstances in operation cause a change in power density above the levels originally calculated in the application.

8. The Certificate Holder shall permit public or private entities to share space on the tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

9. If this facility does not initially provide, or permanently ceases to provide, cellular service following the completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication of any new use shall be made to the Council before any such new use is made.

10. Unless otherwise approved by the Council, this Decision and Order shall be void if construction authorized herein is not completed within three years of the effective date of this Decision and Order.

Pursuant to Section 16-50p of the CGS, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below. A notice of issuance shall be published in the Hartford Courant.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of State Agencies.

The parties or intervenors to this proceeding are:

(Applicant)

Metro Mobile CTS of
Hartford, Inc.
100 Corporate Drive
Windsor, CT 06095
Attn: Gary N. Schulman
Vice President and
General Manager

(Its Representative)

Robinson & Cole
One Commercial Plaza
Hartford, CT 06103-3597
Attn: Earl W. Phillips
Jr., Esq.

(Intervenor)

SNET Cellular, Inc.
227 Church Street
New Haven, CT 06506

(Its Representative)

Peter J. Tyrrell
Senior Attorney
SNET Cellular, Inc.
227 Church Street
Room 1021
New Haven, CT 06506

JAW

4248E

CERTIFICATION

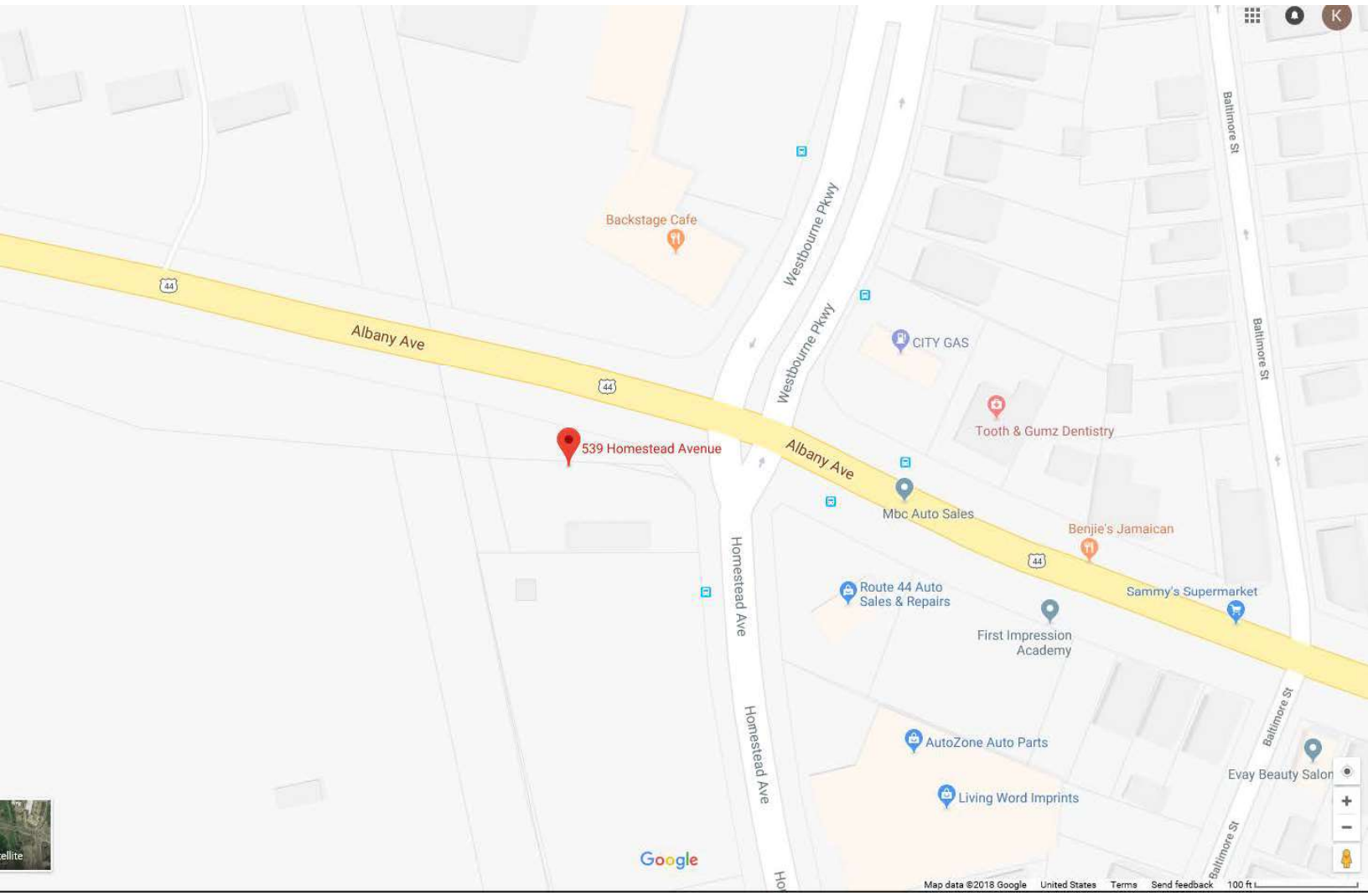
The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 126 - An application of Metro Mobile CTS of Hartford, Inc., for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telephone tower and associated equipment in the City of Hartford, Connecticut, or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 9th day of April, 1990.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Yes
Commissioner Peter Boucher Designee: Robert A. Pulito	Yes
Commissioner Leslie Carothers Designee: Brian Emerick	Yes
Harry E. Covey	Yes
Mortimer A. Gelston	Yes
Daniel P. Lynch, Jr.	Yes
Paulann H. Sheets	Abstain
William H. Smith	Yes
Colin C. Tait	Yes

Exhibit B

Property Card


Backstage Cafe
Albany Ave
44
Westbourne Pkwy
CITY GAS
Tooth & Gumz Dentistry
539 Homestead Avenue
Albany Ave
Mbc Auto Sales
Benjie's Jamaican
Homestead Ave
Route 44 Auto Sales & Repairs
Sammy's Supermarket
First Impression Academy
Baltimore St
AutoZone Auto Parts
Evay Beauty Salon
Living Word Imprints
Google
Map data ©2018 Google
United States
Terms
Send feedback
100 ft

Unofficial Property Record Card - Hartford, CT

General Property Data

Parcel ID	152-181-002	**Account Number**	
Prior Parcel ID			
Property Owner	TALAR PROPERTIES LLC	**Property Location**	441-455 HOMESTEAD AVE
		Property Use	VAC LAND IND
Mailing Address	705 N MOUNTAIN RD	**Most Recent Sale Date**	3/7/2001
		Legal Reference	04350-0044
City	NEWINGTON	**Grantor**	HUDSON ASSOCIATES
Mailing State	CT **Zip** 06111-1412	**Sale Price**	0
ParcelZoning	CX-1	**Land Area**	79,715.000 acres

Current Property Assessment

Card 1 Value	Building Value	Xtra Features Value	Land Value	Total Value
	0	0	224,630	224,630

Building Description

Building Style	N/A	**Foundation Type**	N/A	**Flooring Type**	N/A
# of Living Units	0	**Frame Type**	N/A	**Basement Floor**	N/A
Year Built	N/A	**Roof Structure**	N/A	**Heating Type**	N/A
Building Grade	N/A	**Roof Cover**	N/A	**Heating Fuel**	N/A
Building Condition	N/A	**Siding**	N/A	**Air Conditioning**	0%
Finished Area (SF)	0	**Interior Walls**	N/A	**# of Bsmt Garages**	0
Number Rooms	0	**# of Bedrooms**	0	**# of Full Baths**	0
# of 3/4 Baths	0	**# of 1/2 Baths**	0	**# of Other Fixtures**	0

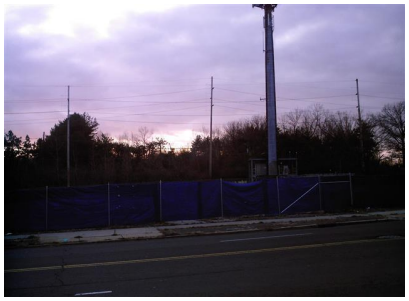
Legal Description

Narrative Description of Property

This property contains 79,715.000 acres of land mainly classified as VAC LAND IND with a(n) N/A style building, built about N/A , having N/A exterior and N/A roof cover, with 0 commercial unit(s) and 0 residential unit(s), 0 room(s), 0 bedroom(s), 0 bath(s), 0 half bath(s).

Property Images

SKETCH



Disclaimer: This information is believed to be correct but is subject to change and is not warranteed.

Exhibit C

Construction Drawings

AT&T SITE NUMBER:	**CT5131**	**BUSINESS UNIT #:**	**806369**
AT&T SITE NAME:	**NW HARTFORD**	**SITE ADDRESS:**	**439-455 HOMESTEAD AVENUE**
AT&T FA CODE:	**10071191**		
AT&T PACE NUMBER:	**MRCTB040680/MRCTB040557/ MRCTB040542/MRCTB040686**	**COUNTY:**	**HARTFORD, CT 06112 HARTFORD**
SITE TYPE:	**MONOPOLE**	**TOWER HEIGHT:**	**140'-0"**

PROJECT: AT&T 4C, 5C, PCS, BWE

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	HRT 094 943225
SITE ADDRESS:	439-455 HOMESTEAD AVENUE HARTFORD, CT 06112
COUNTY:	HARTFORD
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.7835919
LONGITUDE:	72.7041989
LAT/LONG TYPE:	NAD83
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T MOBILITY ONE AT&T WAY BEDMINSTER, NJ 07921
CROWN CASTLE USA INC. APPLICATION ID:	492774

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 SOUTH BOULDER, SUITE 300 TULSA, OK 74119 MIKE OAKES (918) 217-8574
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3200 HORIZON SRIVE, SUITE 150 KING OF PRUSSIA, PA 19406

DRAWING INDEX

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

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

PROJECT DESCRIPTION

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

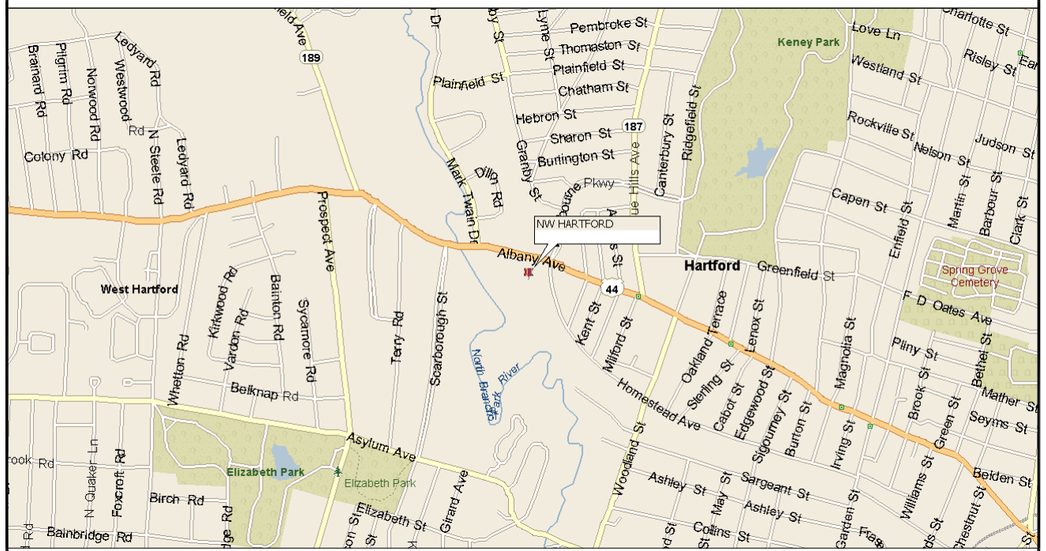
TOWER SCOPE OF WORK

- REMOVE (2) P65-16-XLH-RR ANTENNAS
- REMOVE (1) AM-X-CD-16-65-00T-RET ANTENNAS
- REMOVE (3) RRUS-11 B12 RRHs
- REMOVE (3) RRUS-32 B2 RRHs
- INSTALL (1) SITEPRO1 - HRK12 HANDRAIL KIT
- INSTALL (2) DMP65R-BU6DA ANTENNAS
- INSTALL (1) DMP65R-BU8DA ANTENNAS
- INSTALL (3) 4449 B5/B12 RRHs
- INSTALL (3) 8843 B2/B66A RRHs
- INSTALL (1) RAYCAP DC6
- INSTALL (2) DC POWER CABLES
- INSTALL (3) 6630
- INSTALL (1) XMU03
- INSTALL (1) IDLE

DESIGN PACKAGE BASED ON THE RFDS
REVISION: PRELIMINARY
DATE: 8/13/19

DESIGN PACKAGE BASED ON THE APPLICATION
ID: 492774
REVISION: 0

LOCATION MAP



NO SCALE

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:
STRUCTURAL ANALYSIS:
MOUNT ANALYSIS:

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

ONE AT&T WAY
BEDMINSTER, NJ 07921

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

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

AT&T SITE NUMBER: **CT5131**

BU #: **806369**
HRT 094 943225

439-455 HOMESTEAD AVENUE
HARTFORD, CT 06112

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/3/19	BEL	CONSTRUCTION	MDW
1	10/30/19	JJD	CONSTRUCTION	GEH

STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER
10/30/19

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

SHEET NUMBER: T-1
REVISION: 1

SITE WORK GENERAL NOTES:

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

STRUCTURAL STEEL NOTES:

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

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER.....2 IN.
   #5 AND SMALLER & WWF.....1 1/2 IN.
   CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
   SLAB AND WALLS.....3/4 IN.
   BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

MASONRY NOTES:

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

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR-	
SUBCONTRACTOR-	GENERAL CONTRACTOR (CONSTRUCTION)
CARRIER-	AT&T
TOWER OWNER-	CROWN CASTLE USA INC.
OEM-	ORIGINAL EQUIPMENT MANUFACTURER

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

ABBREVIATIONS AND SYMBOLS:

ABBREVIATIONS:

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

SYMBOLS:

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

ELECTRICAL INSTALLATION NOTES:

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

GREENFIELD GROUNDING NOTES:

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

NEC INSULATOR COLOR CODE

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

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

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

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

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

AT&T SITE NUMBER: **CT5131**

BU #: **806369**
HRT 094 943225

439-455 HOMESTEAD AVENUE
HARTFORD, CT 06112

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

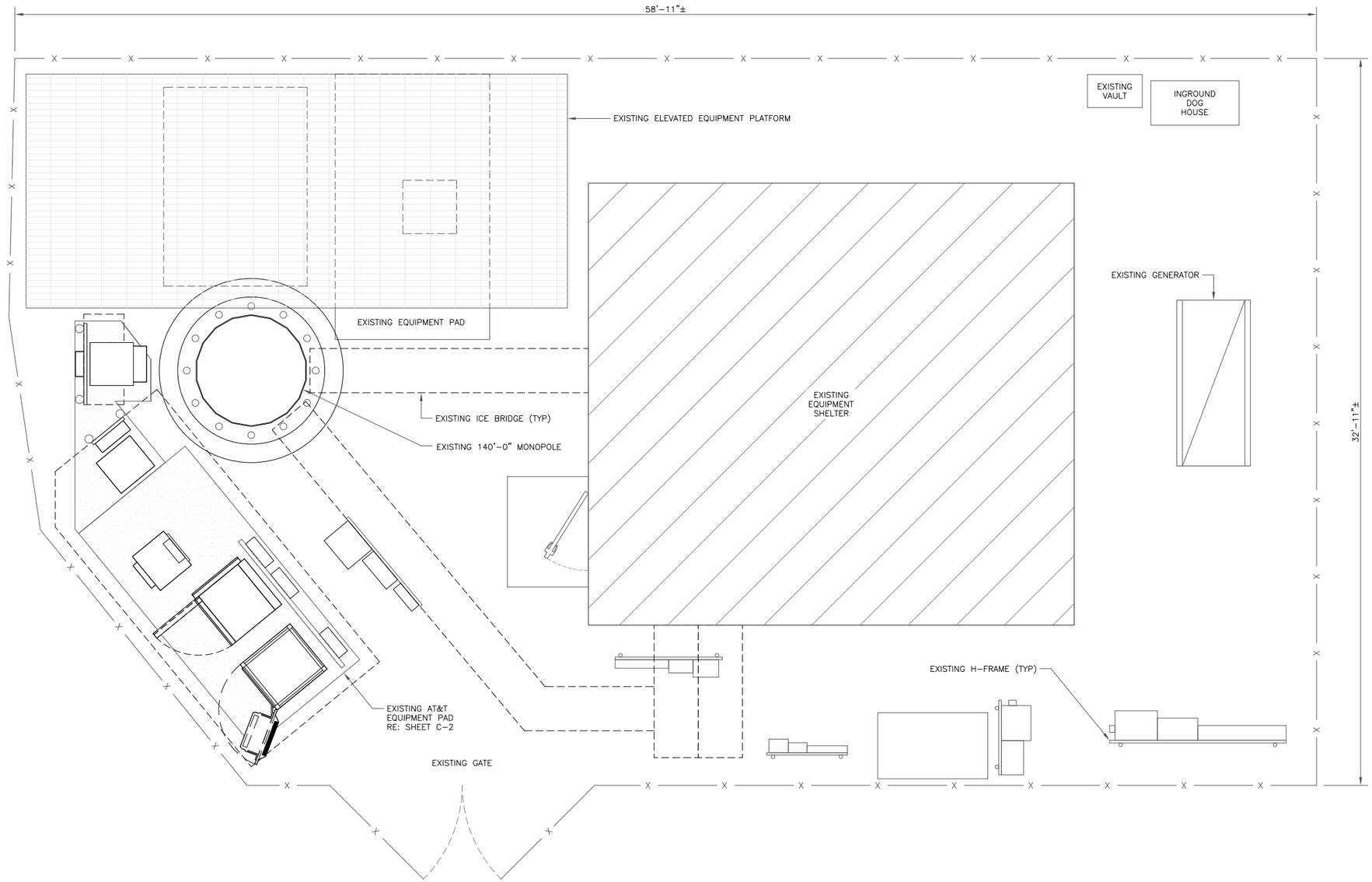
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/3/19	BEL	CONSTRUCTION	MDW
1	10/30/19	JJD	CONSTRUCTION	GEH

STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER
10/30/19

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

SHEET NUMBER: T-2

REVISION: 1



1 SITE PLAN
SCALE: 4' 2' 0 4' 3/16"=1'-0" (FULL SIZE) 3/32"=1'-0" (11x17)

N

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

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STATE OF CONNECTICUT
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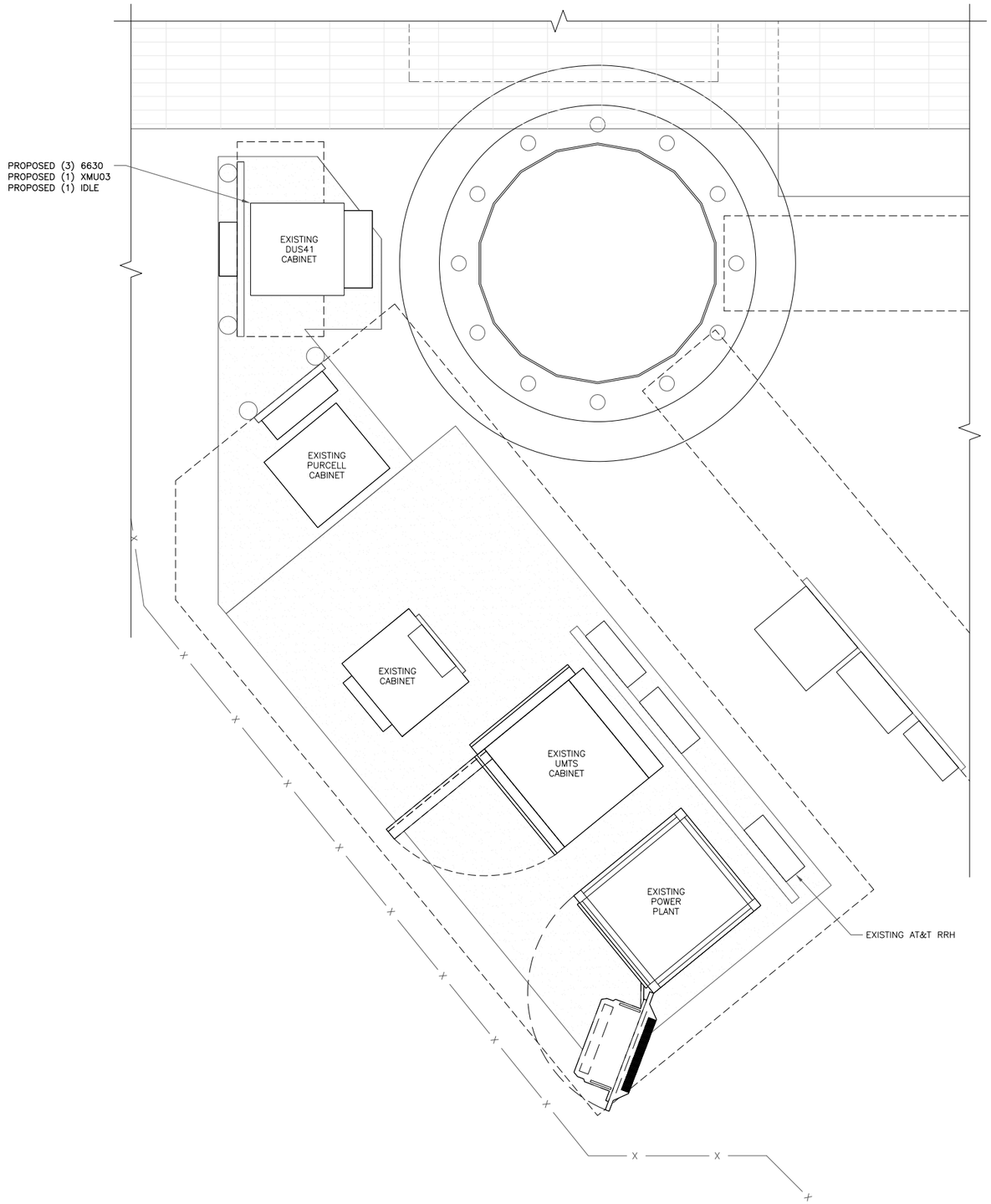
PROFESSIONAL ENGINEER
10/30/19

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

SHEET NUMBER: C-1

REVISION: 1

89233_HTR 094.dwg - Sheet:C-1 - User: ghayes - Oct 30, 2019 - 8:53am



1 EXISTING EQUIPMENT PLAN

SCALE: 1' 6" 0 1' 3/4"=1'-0" (FULL SIZE) 3/8"=1'-0" (11x17)

N

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ONE AT&T WAY
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HRT 094 943225

439-455 HOMESTEAD AVENUE
HARTFORD, CT 06112

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/3/19	BEL	CONSTRUCTION	MDW
1	10/30/19	JJD	CONSTRUCTION	GEH

STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER
10/30/19

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

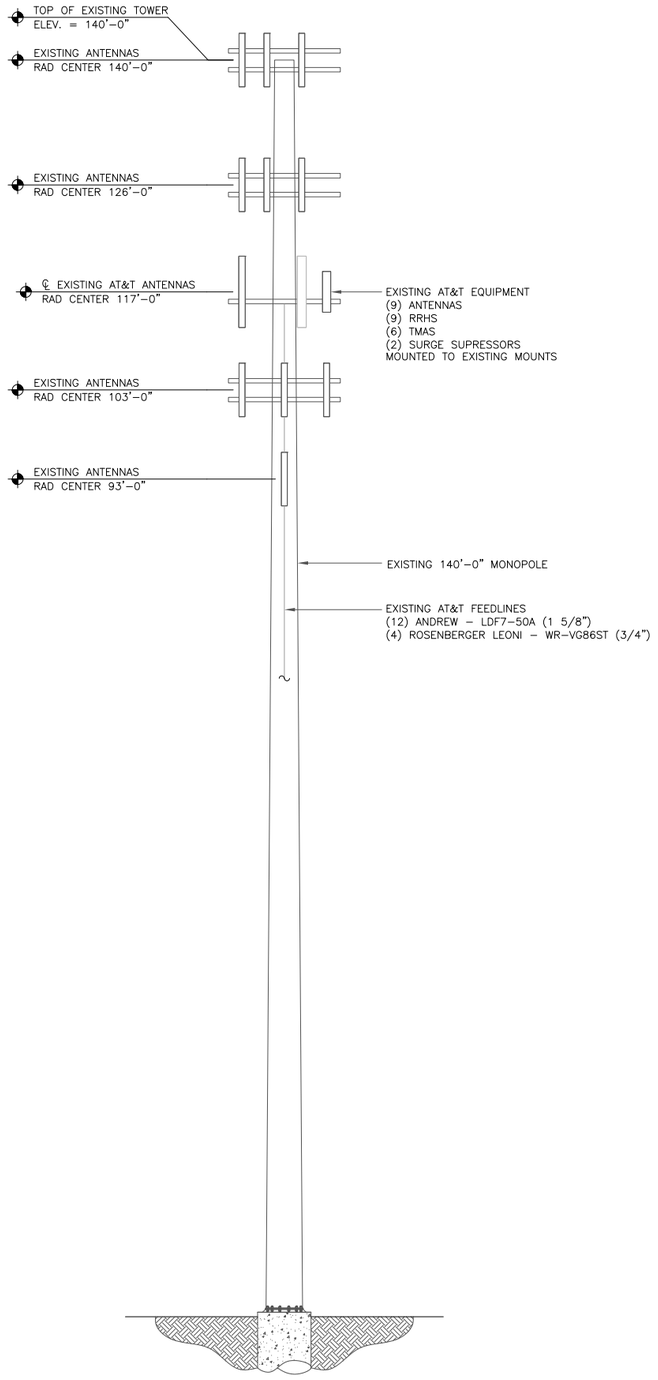
SHEET NUMBER: C-2

REVISION: 1

89233_HTR 094.dwg – Sheet:C-2 – User: ghayes – Oct 30, 2019 – 8:53am

AT&T EQUIPMENT

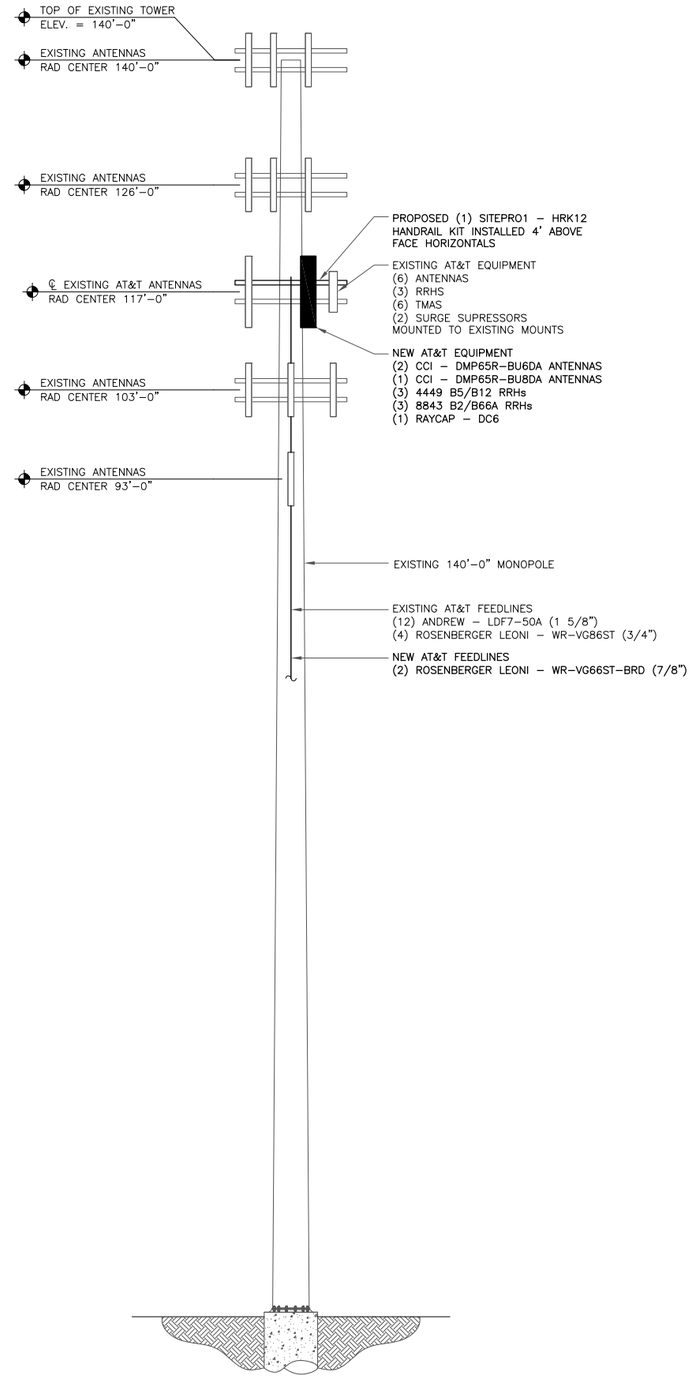
ANTENNA CL: 117'-0"
MOUNT CL: 117'-0"



1 EXISTING ELEVATION
SCALE: NOT TO SCALE

AT&T EQUIPMENT

ANTENNA CL: 117'-0"
MOUNT CL: 117'-0"



2 FINAL ELEVATION
SCALE: NOT TO SCALE

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439-455 HOMESTEAD AVENUE
HARTFORD, CT 06112

EXISTING 140'-0" MONOPOLE

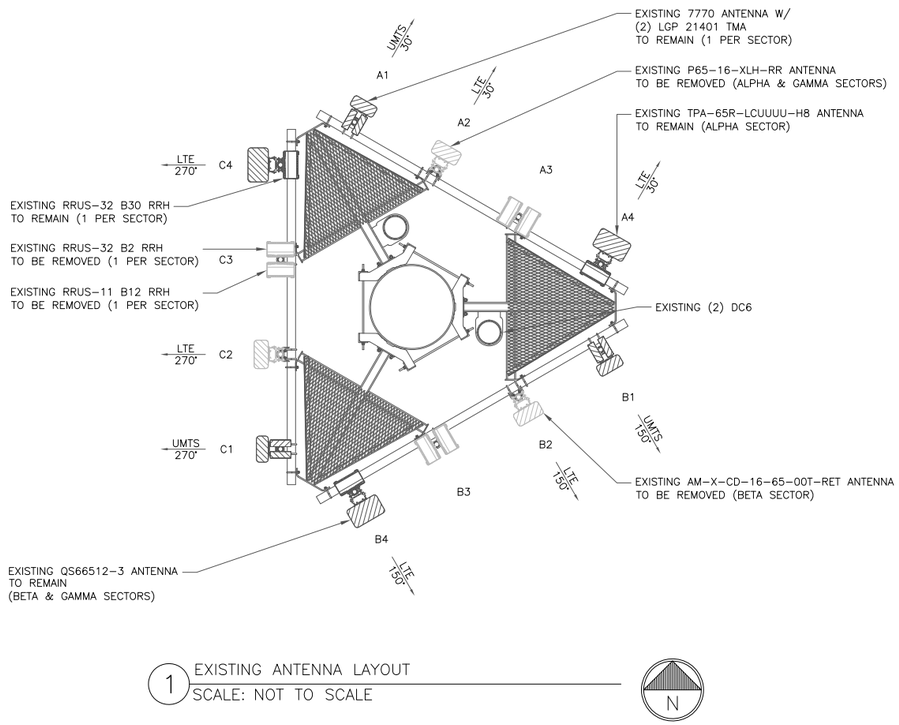
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	10/3/19	BEL	CONSTRUCTION	MDW
1	10/30/19	JJD	CONSTRUCTION	GEH

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

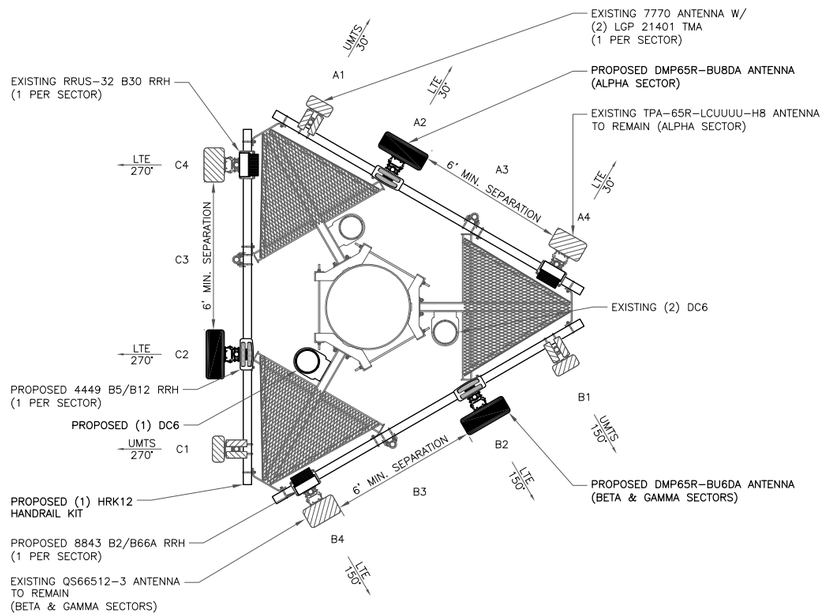
SHEET NUMBER: C-3

REVISION: 1



1 EXISTING ANTENNA LAYOUT
SCALE: NOT TO SCALE

N



2 FINAL ANTENNA LAYOUT
SCALE: NOT TO SCALE

N

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BEDMINSTER, NJ 07921

CROWN CASTLE
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AT&T SITE NUMBER: **CT5131**

BU #: **806369**
HRT 094 943225

439-455 HOMESTEAD AVENUE
HARTFORD, CT 06112

EXISTING 140'-0" MONOPOLE

ISSUED FOR:

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1	10/30/19	JJD	CONSTRUCTION	GEH

STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER
10/30/19

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20

SHEET NUMBER: C-4

REVISION: 1

FINAL ANTENNA AND COAXIAL CABLE SCHEDULE

POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	RAYCAP	DC (WR-VG86ST-BRD) FIBER CABLES (FB-L98B-034-XXXXXX)	RRHs QTY ON TOWER	RRHs ON GROUND	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	UMTS	EXISTING	30°	POWERWAVE 7770	117'-0"	0°	5°/5°/2°/2°	–	180'-0"	2	LGP 21401	DC6-48-60-18-8F	(1) FIBER (2) DC LINES	–	–	–	Y	–
A2	LTE	NEW	30°	CCI DMP65R-BU8DA	117'-0"	0°	3°/3°/2°/3°	–	180'-0"	–	–			(1) 4449 B5/B12	–	–	–	–
A3	–	–	–	–	–	–	–	–	–	–	–			–	–	–	–	–
A4	LTE	EXISTING	30°	CCI TPA-65R-LCUUUU-H8	117'-0"	0°	2°/3°/2°	–	–	–	–			(1) RRUS-32 B30 (1) 8843 B2/B66A	–	–	Y	–
BETA SECTOR																		
B1	UMTS	EXISTING	150°	POWERWAVE 7770	117'-0"	0°	10°/10°/8°/8°	–	150'-0"	2	LGP 21901	DC6-48-60-18-8F	(1) FIBER (2) DC LINES	–	–	–	Y	–
B2	LTE	NEW	150°	CCI DMP65R-BU6DA	117'-0"	0°	3°/3°/7°/3°	–	–	–	–			(1) 4449 B5/B12	–	–	–	–
B3	–	–	–	–	–	–	–	–	150'-0"	–	–			–	–	–	–	–
B4	LTE	EXISTING	150°	QUINTEL QS66512-3	117'-0"	0°	7°/2°/7°	–	–	–	–			(1) RRUS-32 B30 (1) 8843 B2/B66A	–	–	Y	–
GAMMA SECTOR																		
C1	UMTS	EXISTING	270°	POWERWAVE 7770	117'-0"	0°	5°/5°/2°/2°	–	150'-0"	2	LGP 21901	DC6-48-60-0-8C-EV	(1) FIBER (2) DC LINES	–	–	–	Y	–
C2	LTE	NEW	270°	CCI DMP65R-BU6DA	117'-0"	0°	3°/3°/4°/3°	–	–	–	–			(1) 4449 B5/B12	–	–	–	–
C3	–	–	–	–	–	–	–	–	150'-0"	–	–			–	–	–	–	–
C4	LTE	EXISTING	270°	QUINTEL QS66512-3	117'-0"	0°	4°/3°/4°	–	–	–	–			(1) RRUS-32 B30 (1) 8843 B2/B66A	–	–	Y	–

NOTE: BOLD DENOTES NEW EQUIPMENT

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

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3200 HORIZON DRIVE, SUITE 150
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TULSA, OK 74119
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www.btgrp.com

AT&T SITE NUMBER: **CT5131**

BU #: **806369**
HRT 094 943225

439-455 HOMESTEAD AVENUE
HARTFORD, CT 06112

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STATE OF CONNECTICUT
SCOTT H. WILCOX
31627
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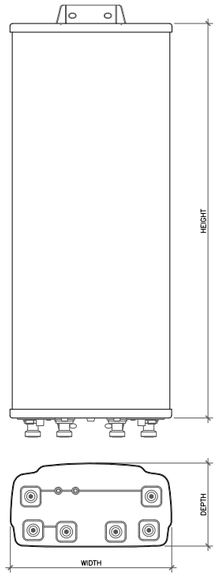
Expires 2/10/20

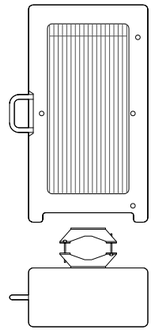
SHEET NUMBER: C-5

REVISION: 1



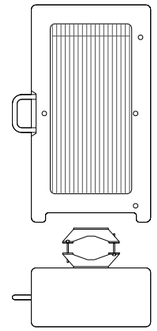
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU6DA	71.2"	20.7"	7.7"	79.4 lbs
DMP65R-BU8DA	96"	20.7"	7.7"	95.7 lbs

1 ANTENNA DETAIL
SCALE: NOT TO SCALE



ERICSSON – 4449 B5/B12
WEIGHT (FULLY EQUIPPED): 71.0 LBS
SIZE (HxWxD): 17.9x13.19x9.44 IN.

2 RRH DETAIL
SCALE: NOT TO SCALE



ERICSSON – 8843 B2/B66A
WEIGHT (FULLY EQUIPPED): 72.0 LBS
SIZE (HxWxD): 14.9x13.2x10.9 IN.

3 RRH DETAIL
SCALE: NOT TO SCALE

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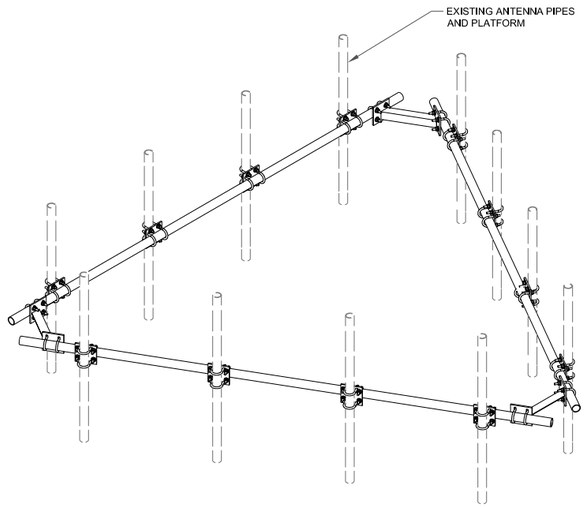
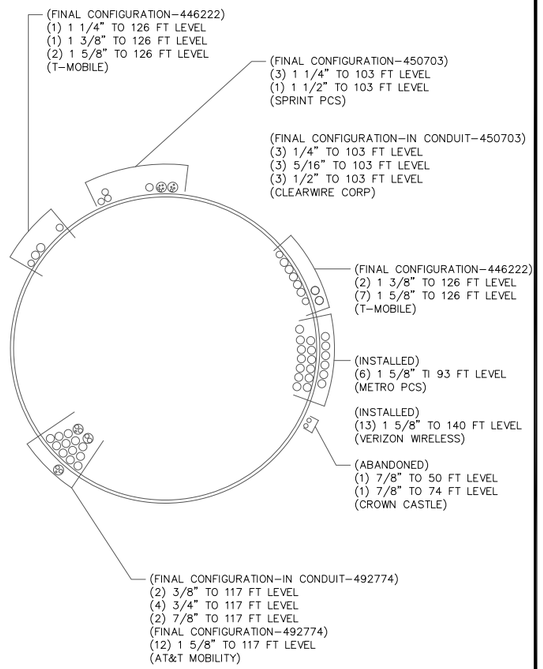
Expires 2/10/20

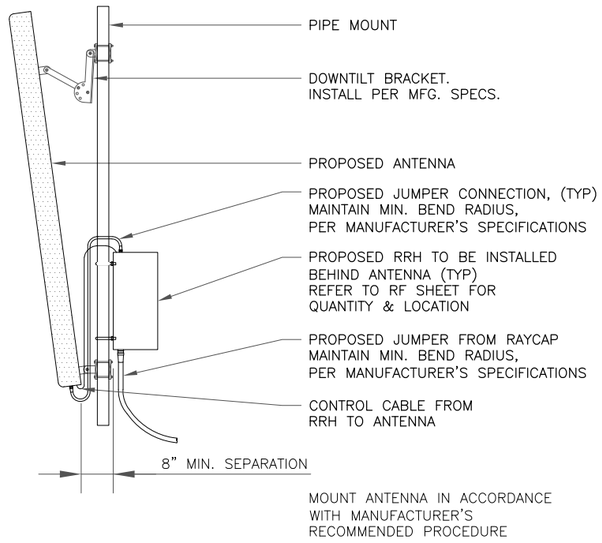
SHEET NUMBER: C-6
REVISION: 1



1 SITEPRO1 HRK12 HANDRAIL KIT DETAIL
SCALE: NOT TO SCALE



2 BASE LEVEL DRAWING
SCALE: NOT TO SCALE



3 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

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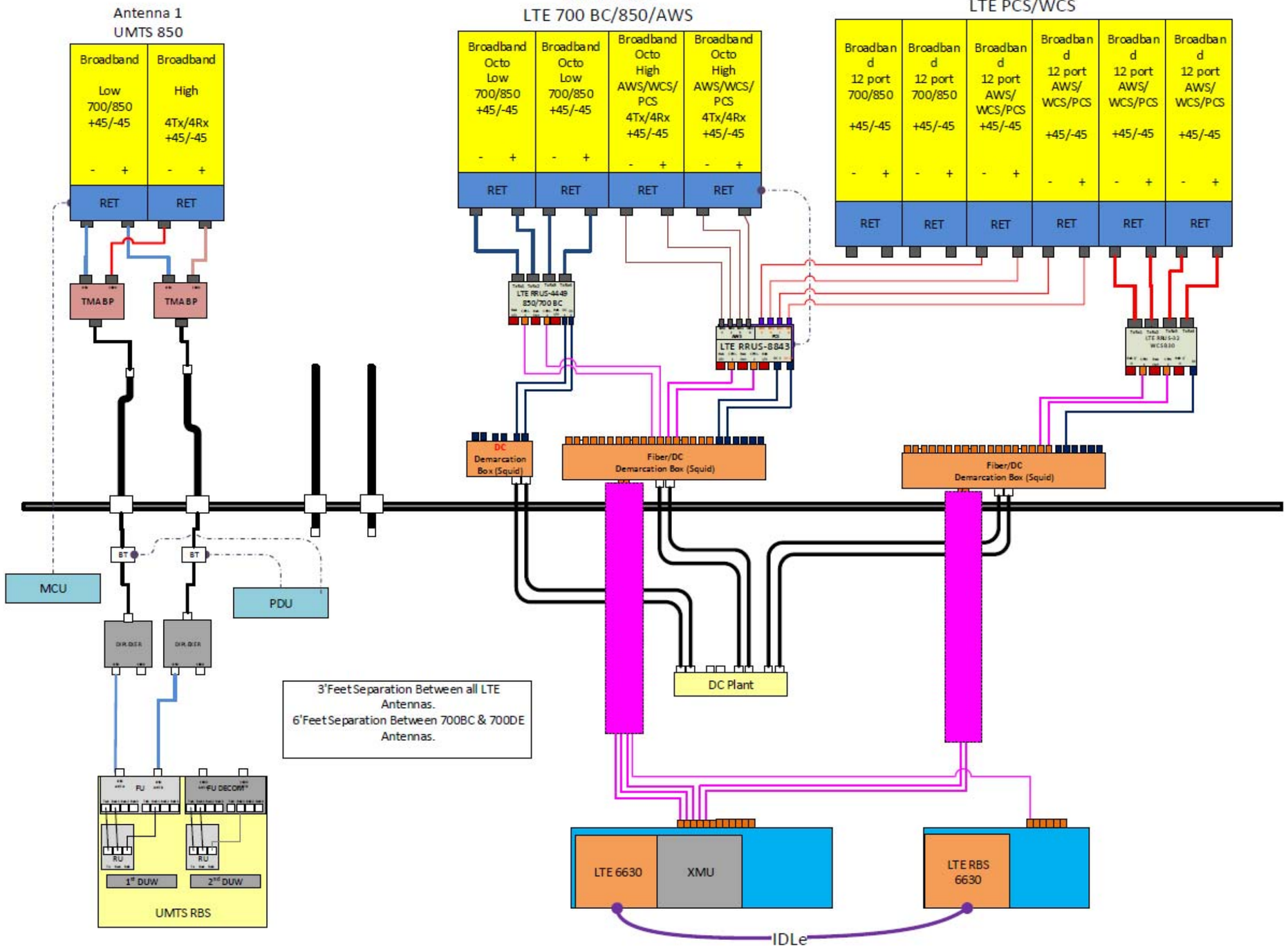
Expires 2/10/20

SHEET NUMBER: C-7
REVISION: 1



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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STATE OF CONNECTICUT
SCOTT D. RIVE
31627
LICENSED
PROFESSIONAL ENGINEER
10/30/19

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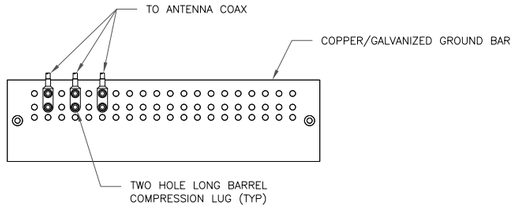
PEC.0001564
Expires 2/10/20

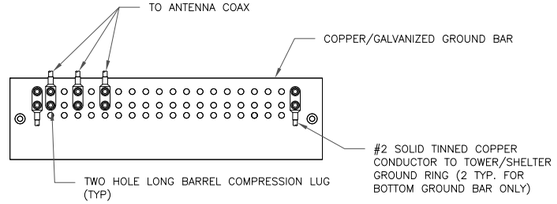
SHEET NUMBER: C-8
REVISION: 1



NOTES:

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

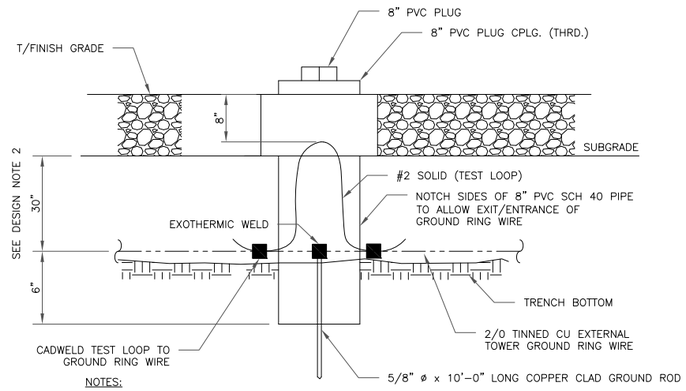
1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

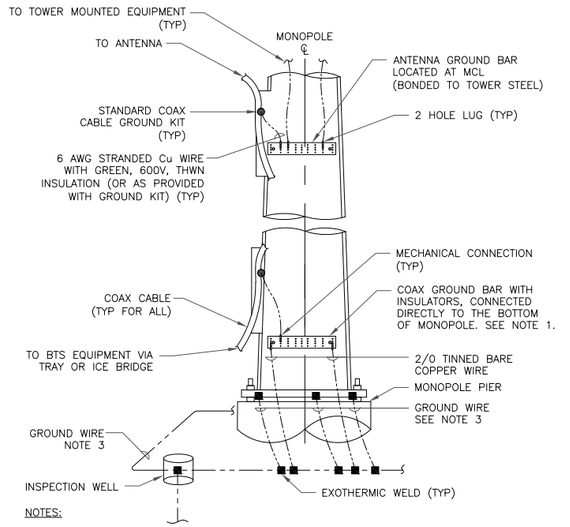
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

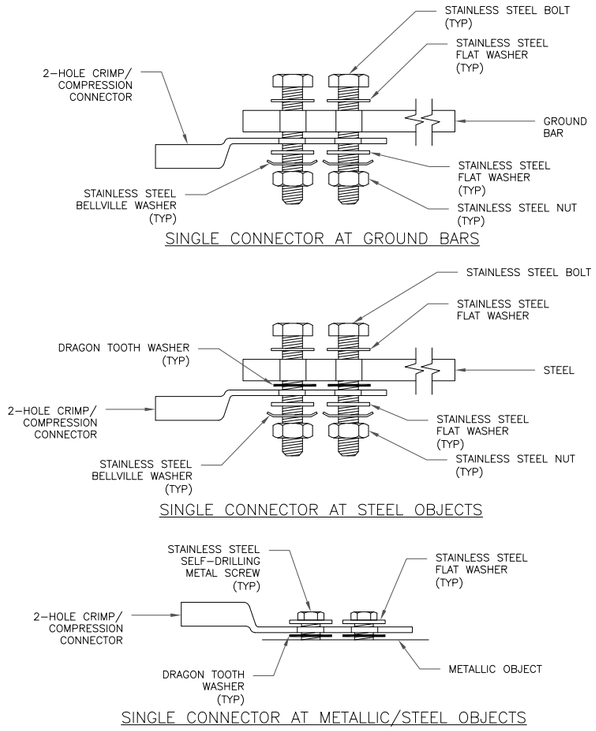
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



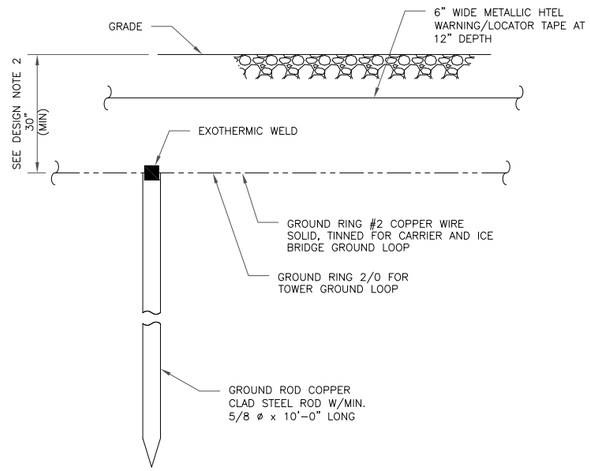
NOTES:

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

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

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31627
LICENSED
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10/30/19

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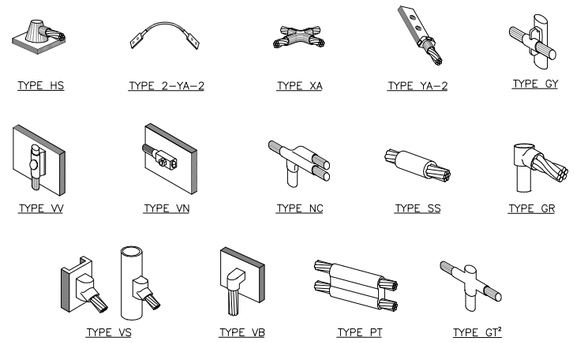
PEC.0001564
Expires 2/10/20

SHEET NUMBER: G-1
REVISION: 1

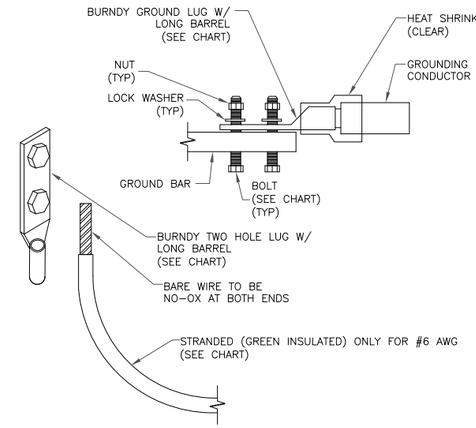


NOTE:

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

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

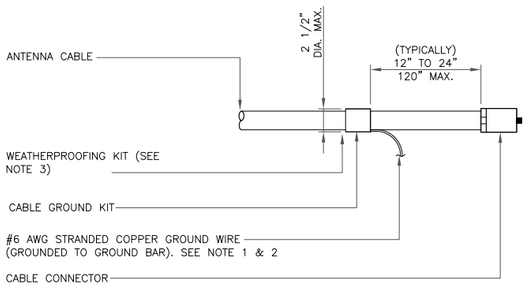
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

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

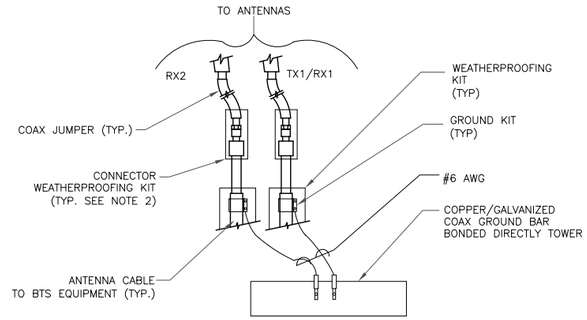
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

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

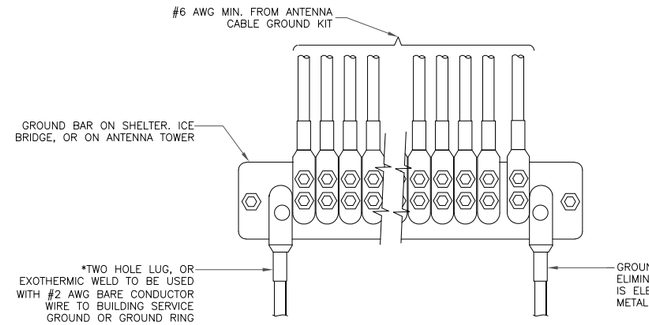
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



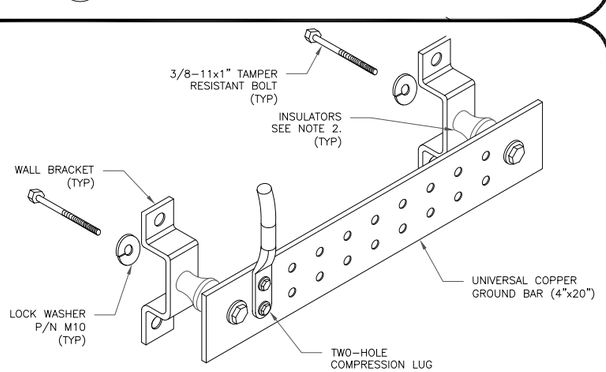
NOTES:

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

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



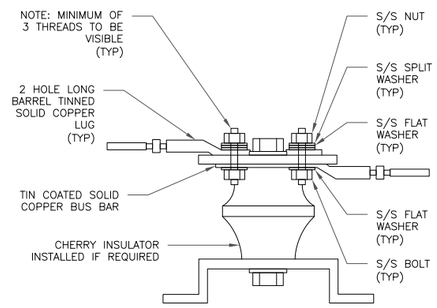
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



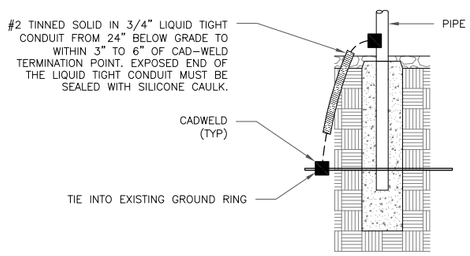
NOTES:

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

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

AT&T
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Expires 2/10/20

SHEET NUMBER: G-2
REVISION: 1

Exhibit D

Structural Analysis Report

Date: **September 11, 2019**

Amanda D Brown
Crown Castle
3530 Toringdon Way
Charlotte, NC 28277

Black & Veatch Corp.
6800 W. 115th St., Suite 2292
Overland Park, KS 66211
(913) 458-6909

Subject:	**Structural Analysis Report**	
Carrier Designation:	***AT&T Mobility* Co-Locate**	
	Carrier Site Number:	CT5131
	Carrier Site Name:	NW HARTFORD
Crown Castle Designation:	**Crown Castle BU Number:**	806369
	Crown Castle Site Name:	HRT 094 943225
	Crown Castle JDE Job Number:	574630
	Crown Castle Work Order Number:	1785232
	Crown Castle Order Number:	492774 Rev. 0
Engineering Firm Designation:	**Black & Veatch Corp. Project Number:**	400087
Site Data:	**439-455 Homestead Ave, Hartford, Hartford County, CT** **Latitude *41° 47' 1.61"*, Longitude *-72° 42' 13.66"*** **140 Foot - Monopole Tower**	

Dear Amanda D Brown,

Black & Veatch Corp. is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above mentioned tower.

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

LC7: Proposed Equipment Configuration **Sufficient Capacity – 53.1%**

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

Structural analysis prepared by: Kochakorn Mokaranurak / Patdanai Chongcharoenkamon

Respectfully submitted by:

Joshua J. Riley, P.E.
Professional Engineer

09/11/2019

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1) INTRODUCTION

This tower is a 140 ft Monopole tower designed by Valmont Microflect.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	2 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
117.0	120.0	2	cci antennas	DMP65R-BU6D w/ Mount Pipe	2 4 2 12 3	3/8 3/4 7/8 1-5/8 Conduit
		1	cci antennas	DMP65R-BU8D w/ Mount Pipe		
		1	cci antennas	TPA-65R-LCUUUU-H8 w/ Mount Pipe		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 8843 B2/B66A_CCIV2		
		3	ericsson	RRUS-32 B30		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		6	powerwave technologies	LGP21401		
		2	quintel technology	QS66512-3 w/ Mount Pipe		
		1	raycap	DC6-48-60-0-8C-EV		
		2	raycap	DC6-48-60-18-8F		
	117.0	1	cci tower mounts (v2.0)	Platform Mount [LP 712-1]		
		1	site pro1	HRK12 handrail kit		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
140.0	140.0	3	alcatel lucent	RRH2x40-AWS	13	1-5/8
		3	amphenol	BXA-80063-4BF-EDIN-X w/ Mount Pipe		
		3	antel	BXA-171063-8BF-EDIN-2 w/ Mount Pipe		
		3	antel	BXA-171063/8CF-EDIN-2 w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		1	cci tower mounts (v2.0)	Platform Mount (13' LP 101-1)		
		3	css	X7C-FRO-660-V w/ Mount Pipe		
		1	raycap	RRFDC-3315-PF-48		
		6	rfs celwave	FD9R6004/2C-3L		
126.0	128.0	3	ericsson	AIR -32 B2A/B66AA w/ Mount Pipe	1 3 9	1-1/4 1-3/8 1-5/8
		3	ericsson	AIR 3246 B66 w/ Mount Pipe		
		3	ericsson	RADIO 4449 B12/B71		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
	126.0	1	cci tower mounts (v2.0)	Platform Mount [13' LP 713-1]		
		3	rfs celwave	ATMAA1412D-1A20		
104.0	104.0	3	alcatel lucent	PCS 1900MHz 4x45W-65MHz	-	-
		1	cci tower mounts (v2.0)	Pipe Mount [PM 601-3]		
	102.0	3	alcatel lucent	800MHz 2X50W RRH W/FILTER		
103.0	107.0	1	andrew	VHLP2-180	3 3 3 3 1 2	1/4 5/16 1/2 1-1/4 1-1/2 Conduit
		1	andrew	VHLP2.5-11		
		2	dragonwave	Horizon Compact		
	105.0	3	argus panel antennas	LLPX310R-V1 w/ Mount Pipe		
		3	nokia	AAHC w/ Mount Pipe		
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	samsung telecommunications	WIMAX DAP HEAD		
	104.0	3	rfs celwave	IBC1900BB-1		
		3	rfs celwave	IBC1900HG-2A		
	103.0	1	cci tower mounts (v2.0)	Platform Mount [13' LP 713-1]		
93.0	93.0	3	kathrein	742 213 w/ Mount Pipe	6	1-5/8
74.0	80.0	1	antel	BCD-87010	1	7/8
	74.0	1	cci tower mounts (v2.0)	Side Arm Mount [SO 701-1]		
50.0	52.0	1	lucent	KS24019-L112A	1	7/8
	50.0	1	cci tower mounts (v2.0)	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	Tower Engineering Professionals, Inc.	2294838	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Tower Engineering Professionals, Inc. (Mapped)	2294380	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Tower Engineering Professionals, Inc. (Mapped)	2294379	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Valmont Microflect	823121	CCISITES

3.1) Analysis Method

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

3.2) Assumptions

1) Tower and structures were built and maintained in accordance with the manufacturer's specifications.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
3) The wind loading Exposure Category and Topographic Category for this site have been analyzed and determined by the tower owner. Black & Veatch does not assume any responsibility for its accuracy.
4) The wind loading EPA of the panel antennas has been analyzed and determined by the tower owner. Verification of its accuracy is outside the scope of this structural analysis/design. Black & Veatch does not assume any responsibility for its accuracy.
5) This analysis was performed under the assumption that all information provided to Black & Veatch is current and correct. This is to include site data, appurtenance loading, tower/foundation details, and geotechnical data. The loading on the structure is based on CAD level drawings and carrier orders provided by the owner. If any of this information is not current and correct, this report should be considered obsolete and further analysis will be required.

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary) (Monopole Tower)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	140 - 86.8333	Pole	TP39.223x26.216x0.3125	1	-26.08	2319.32	38.1	Pass
L2	86.8333 - 38	Pole	TP50.56x37.2117x0.4063	2	-41.05	3892.17	49.4	Pass
L3	38 - 0	Pole	TP59.05x48.033x0.5	3	-61.68	5790.26	47.3	Pass
							Summary	
						Pole (L2)	49.4	Pass
						Rating =	49.4	Pass

Table 5 - Tower Component Stresses vs. Capacity (Monopole Tower) – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	53.1	Pass
1	Base Plate	0	16.5	Pass
1	Base Foundation	0	33.3	Pass
1	Base Foundation Soil Interaction	0	42.3	Pass

Structure Rating (max from all components) =	53.1%

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

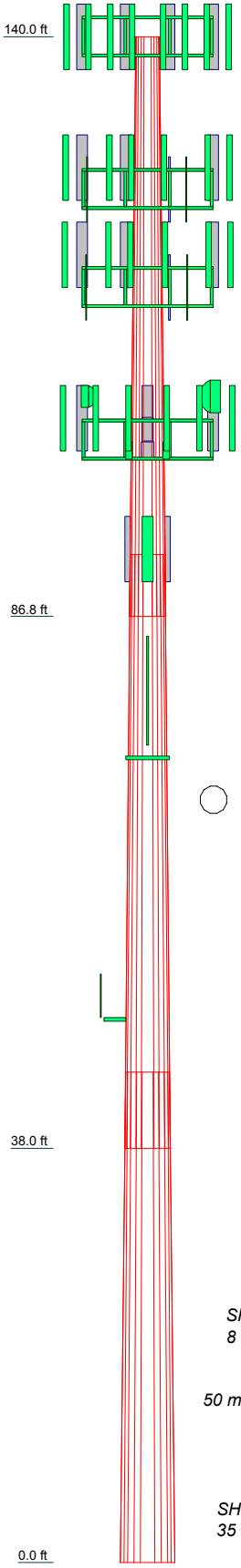
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	53.17	12	0.3125	5.67	26.2160	39.2230		5.9
2	54.50	12	0.4063	7.00	37.2117	50.5600	A572-65	10.5
3	45.00	12	0.5000		48.0330	59.0500		13.1
								29.5



ALL REACTIONS ARE FACTORED

AXIAL 121 K
SHEAR 8 K
MOMENT 851 kip-ft
TORQUE 1 kip-ft
50 mph WIND - 2.0000 in ICE

AXIAL 62 K
SHEAR 35 K
MOMENT 3513 kip-ft
TORQUE 3 kip-ft
REACTIONS - 125 mph WIND

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 49.4%

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Job:	***HRT 094 943225 (BU# 806369)***		
Project:	***400087 (806369.1785232)***		
Client: Crown Castle	Drawn by: Patdanai Chongcharoenkamon	App'd:	
Code: TIA-222-H	Date: 09/11/19	Scale: NTS	
Path: C:\Users\cho87624\Desktop\Tnx\806369\806369_1785232 - TSA\verify\806369_1785232_Structural Analysis.eri		Dwg No. E-1	

Tower Input Data

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

1) Tower is located in Hartford County, Connecticut.
2) Tower base elevation above sea level: 60.00 ft.
3) Basic wind speed of 125 mph.
4) Risk Category II.
5) Exposure Category B.
6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
7) Topographic Category: 1.
8) Crest Height: 0.00 ft.
9) Nominal ice thickness of 2.0000 in.
10) Ice thickness is considered to increase with height.
11) Ice density of 56 pcf.
12) A wind speed of 50 mph is used in combination with ice.
13) Temperature drop of 50 °F.
14) Deflections calculated using a wind speed of 60 mph.
15) A non-linear (P-delta) analysis was used.
16) Pressures are calculated at each section.
17) Stress ratio used in pole design is 1.05.
18) Tower analysis based on target reliabilities in accordance with Annex S.
19) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
20) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	140.00-86.83	53.17	5.67	12	26.2160	39.2230	0.3125	1.2500	A572-65 (65 ksi)
L2	86.83-38.00	54.50	7.00	12	37.2117	50.5600	0.4063	1.6250	A572-65 (65 ksi)
L3	38.00-0.00	45.00		12	48.0330	59.0500	0.5000	2.0000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	27.0306	26.0654	2232.3752	9.2735	13.5799	164.3883	4523.3974	12.8286	6.1884	19.803
	40.4964	39.1537	7566.4519	13.9300	20.3175	372.4103	15331.6830	19.2703	9.6743	30.958
L2	39.8179	48.1461	8324.7349	13.1763	19.2756	431.8784	16868.1699	23.6960	8.8840	21.868
	52.2003	65.6074	21064.2222	17.9550	26.1901	804.2825	42681.8251	32.2900	12.4613	30.674
L3	51.3253	76.5282	22069.8035	17.0168	24.8811	887.0103	44719.4053	37.6648	11.5329	23.066
	60.9567	94.2655	41247.0150	20.9609	30.5879	1348.4749	83577.6350	46.3946	14.4854	28.971

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 140.00-86.83				1	1	1			
L2 86.83-38.00				1	1	1			
L3 38.00-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
Safety Line 3/8	A	No	Surface Ar (CaAa)	140.00 - 10.00	1	1	0.000 0.009	0.3750		0.22
LCF158-50JA(1-5/8)	A	No	Surface Ar (CaAa)	126.00 - 5.00	2	2	0.413 0.500	1.9800		0.80
(2) LCF158-50JA(1-5/8) + (1) HB114-21U3M12-XXXF(1-1/4) + (1) HCS 6X12 6AWG(1-3/8)	C	No	Surface Ar (CaAa)	126.00 - 5.00	4	4	0.327 0.500	1.9800		0.80
2" innerduct conduit ***	C	No	Surface Ar (CaAa)	117.00 - 0.00	1	1	-0.442 -0.400	2.0000		0.20
2" innerduct conduit ***	A	No	Surface Ar (CaAa)	103.00 - 0.00	2	2	-0.331 -0.250	2.0000		0.20
(1) MLC6C-06C-008R-008R(1-1/2) + (3)	A	No	Surface Ar (CaAa)	103.00 - 5.00	4	3	-0.450 -0.355	1.5400		1.08

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
HB114-1-08U4-M5J(1-1/4)										
***										
AVA7-50(1-5/8)	B	No	Surface Ar (CaAa)	93.00 - 5.00	6	6	-0.450 -0.208	2.0100		0.70
***										
LDF5-50A(7/8)	B	No	Surface Ar (CaAa)	50.00 - 5.00	2	2	-0.200 -0.163	1.0300		0.33
LDF5-50A(7/8)	B	No	Surface Ar (CaAa)	74.00 - 50.00	1	1	-0.200 -0.178	1.0300		0.33
***										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
***									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	140.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
HB158-1-08U8-S8J18(1-5/8)	B	No	No	Inside Pole	140.00 - 0.00	1	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30
***									
HCS 6X12 6AWG(1-3/8)	A	No	No	Inside Pole	126.00 - 0.00	2	No Ice	0.00	1.70
							1/2" Ice	0.00	1.70
							1" Ice	0.00	1.70
							2" Ice	0.00	1.70
LCF158-50JA(1-5/8)	A	No	No	Inside Pole	126.00 - 0.00	5	No Ice	0.00	0.80
							1/2" Ice	0.00	0.80
							1" Ice	0.00	0.80
							2" Ice	0.00	0.80
***									
2" innerduct conduit	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	0.20
							1/2" Ice	0.00	0.20
							1" Ice	0.00	0.20
							2" Ice	0.00	0.20
WR-VG66ST-BRD_CCIV2(7/8)	C	No	No	Inside Pole	117.00 - 0.00	2	No Ice	0.00	0.88
							1/2" Ice	0.00	0.88
							1" Ice	0.00	0.88
							2" Ice	0.00	0.88
LDF7-50A(1-5/8)	C	No	No	Inside Pole	117.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
2" innerduct conduit	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	0.20
							1/2" Ice	0.00	0.20
							1" Ice	0.00	0.20
							2" Ice	0.00	0.20
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	117.00 - 0.00	4	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
							2" Ice	0.00	0.58
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
FB-L98B-034-XXXXXX(3/8)	C	No	No	Inside Pole	117.00 - 0.00	1	No Ice	0.00	0.05
							1/2" Ice	0.00	0.05
							1" Ice	0.00	0.05
							2" Ice	0.00	0.05

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
LDF1-50A(1/4)	A	No	No	Inside Pole	103.00 - 0.00	3	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
ATCB-B01-005(5/16)	A	No	No	Inside Pole	103.00 - 0.00	3	No Ice	0.00	0.07
							1/2" Ice	0.00	0.07
							1" Ice	0.00	0.07
							2" Ice	0.00	0.07
FSJ4-50B(1/2)	A	No	No	Inside Pole	103.00 - 0.00	3	No Ice	0.00	0.14
							1/2" Ice	0.00	0.14
							1" Ice	0.00	0.14
							2" Ice	0.00	0.14
***									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	140.00-86.83	A	0.000	0.000	31.439	0.000	0.45
		B	0.000	0.000	7.437	0.000	0.62
		C	0.000	0.000	37.053	0.000	0.57
L2	86.83-38.00	A	0.000	0.000	63.264	0.000	0.72
		B	0.000	0.000	63.837	0.000	0.76
		C	0.000	0.000	48.443	0.000	0.87
L3	38.00-0.00	A	0.000	0.000	44.564	0.000	0.53
		B	0.000	0.000	46.596	0.000	0.58
		C	0.000	0.000	33.736	0.000	0.66

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	140.00-86.83	A	1.921	0.000	0.000	93.569	0.000	1.67
		B		0.000	0.000	12.258	0.000	0.78
		C		0.000	0.000	75.210	0.000	1.59
L2	86.83-38.00	A	1.811	0.000	0.000	167.746	0.000	2.94
		B		0.000	0.000	117.617	0.000	2.30
		C		0.000	0.000	100.328	0.000	2.25
L3	38.00-0.00	A	1.604	0.000	0.000	112.660	0.000	1.95
		B		0.000	0.000	88.121	0.000	1.64
		C		0.000	0.000	68.970	0.000	1.57

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	140.00-86.83	-2.8131	0.2616	-3.1731	-0.1915
L2	86.83-38.00	-2.8195	-2.5810	-3.0139	-2.2877
L3	38.00-0.00	-2.6577	-2.6629	-2.8219	-2.4970

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	1	Safety Line 3/8	86.83 - 140.00	1.0000	1.0000
L1	8	LCF158-50JA(1-5/8)	86.83 - 126.00	1.0000	1.0000
L1	9	(2) LCF158-50JA(1-5/8) + (1) HB114-21U3M12-XXXF(1-1/4) + (1) HCS 6X12 6AWG(1-3/8)	86.83 - 126.00	1.0000	1.0000
L1	16	2" innerduct conduit	86.83 - 117.00	1.0000	1.0000
L1	24	2" innerduct conduit	86.83 - 103.00	1.0000	1.0000
L1	29	(1) MLC6C-06C-008R-008R(1-1/2) + (3) HB114-1-08U4-M5J(1-1/4)	86.83 - 103.00	1.0000	1.0000
L1	32	AVA7-50(1-5/8)	86.83 - 93.00	1.0000	1.0000
L1	34	LDF5-50A(7/8)	86.83 - 50.00	1.0000	1.0000
L1	35	LDF5-50A(7/8)	86.83 - 74.00	1.0000	1.0000
L2	1	Safety Line 3/8	38.00 - 86.83	1.0000	1.0000
L2	8	LCF158-50JA(1-5/8)	38.00 - 86.83	1.0000	1.0000
L2	9	(2) LCF158-50JA(1-5/8) + (1) HB114-21U3M12-XXXF(1-1/4) + (1) HCS 6X12 6AWG(1-3/8)	38.00 - 86.83	1.0000	1.0000
L2	16	2" innerduct conduit	38.00 - 86.83	1.0000	1.0000
L2	24	2" innerduct conduit	38.00 - 86.83	1.0000	1.0000
L2	29	(1) MLC6C-06C-008R-008R(1-1/2) + (3) HB114-1-08U4-M5J(1-1/4)	38.00 - 86.83	1.0000	1.0000
L2	32	AVA7-50(1-5/8)	38.00 - 86.83	1.0000	1.0000
L2	34	LDF5-50A(7/8)	38.00 - 50.00	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Platform Mount (13' LP 101-1)	C	None		0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	38.82 44.40 50.45 65.50	38.82 44.40 50.45 65.50	1.63 2.51 3.53 5.97
13' Hor x 5" x 5" Angle Mount	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.50 7.40 8.30 10.14	0.21 0.27 0.33 0.49	0.35 0.41 0.48 0.65
13' Hor x 5" x 5" Angle Mount	B	From Leg	4.00 0.00	0.0000	140.00	No Ice 1/2"	6.50 7.40	0.21 0.27	0.35 0.41

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* *ft* *ft* *ft*	*Azimuth Adjustment* *°*	*Placement* *ft*		*C_AA_A Front* *ft^2*	*C_AA_A Side* *ft^2*	*Weight* *K*
			0.00			Ice	8.30	0.33	0.48
						1" Ice	10.14	0.49	0.65
						2" Ice			
13' Hor x 5" x 5" Angle Mount	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.50 7.40 8.30 10.14	0.21 0.27 0.33 0.49	0.35 0.41 0.48 0.65
BXA-171063/8CF-EDIN-2 w/ Mount Pipe	A	From Leg	4.00 -6.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.18 3.56 3.93 4.69	3.35 3.97 4.60 5.89	0.03 0.06 0.10 0.19
BXA-171063/8CF-EDIN-2 w/ Mount Pipe	B	From Leg	4.00 -6.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.18 3.56 3.93 4.69	3.35 3.97 4.60 5.89	0.03 0.06 0.10 0.19
BXA-171063/8CF-EDIN-2 w/ Mount Pipe	C	From Leg	4.00 -6.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.18 3.56 3.93 4.69	3.35 3.97 4.60 5.89	0.03 0.06 0.10 0.19
BXA-80063-4BF-EDIN-X w/ Mount Pipe	A	From Leg	4.00 -2.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.62 4.99 5.36 6.13	3.47 4.04 4.63 5.83	0.03 0.07 0.12 0.23
BXA-80063-4BF-EDIN-X w/ Mount Pipe	B	From Leg	4.00 -2.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.62 4.99 5.36 6.13	3.47 4.04 4.63 5.83	0.03 0.07 0.12 0.23
BXA-80063-4BF-EDIN-X w/ Mount Pipe	C	From Leg	4.00 -2.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.62 4.99 5.36 6.13	3.47 4.04 4.63 5.83	0.03 0.07 0.12 0.23
BXA-171063-8BF-EDIN-2 w/ Mount Pipe	A	From Leg	4.00 2.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.18 3.56 3.93 4.69	3.35 3.97 4.60 5.89	0.03 0.06 0.10 0.19
BXA-171063-8BF-EDIN-2 w/ Mount Pipe	B	From Leg	4.00 2.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.18 3.56 3.93 4.69	3.35 3.97 4.60 5.89	0.03 0.06 0.10 0.19
BXA-171063-8BF-EDIN-2 w/ Mount Pipe	C	From Leg	4.00 2.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.18 3.56 3.93 4.69	3.35 3.97 4.60 5.89	0.03 0.06 0.10 0.19
X7C-FRO-660-V w/ Mount Pipe	A	From Leg	4.00 6.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.88 9.60 10.34 11.87	6.44 7.13 7.83 9.29	0.07 0.15 0.23 0.43
X7C-FRO-660-V w/ Mount Pipe	B	From Leg	4.00 6.00 0.00	0.0000	140.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.88 9.60 10.34 11.87	6.44 7.13 7.83 9.29	0.07 0.15 0.23 0.43
X7C-FRO-660-V w/ Mount Pipe	C	From Leg	4.00 6.00	0.0000	140.00	No Ice 1/2"	8.88 9.60	6.44 7.13	0.07 0.15

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		C_AA_A *Front* ft^2	C_AA_A *Side* ft^2	*Weight* K
			0.00			Ice	10.34	7.83	0.23
						1" Ice	11.87	9.29	0.43
						2" Ice			
(2) FD9R6004/2C-3L	A	From Leg	4.00	0.0000	140.00	No Ice	0.31	0.08	0.00
			0.00			1/2"	0.39	0.12	0.01
			0.00			Ice	0.47	0.17	0.01
						1" Ice	0.65	0.29	0.02
						2" Ice			
(2) FD9R6004/2C-3L	B	From Leg	4.00	0.0000	140.00	No Ice	0.31	0.08	0.00
			0.00			1/2"	0.39	0.12	0.01
			0.00			Ice	0.47	0.17	0.01
						1" Ice	0.65	0.29	0.02
						2" Ice			
(2) FD9R6004/2C-3L	C	From Leg	4.00	0.0000	140.00	No Ice	0.31	0.08	0.00
			0.00			1/2"	0.39	0.12	0.01
			0.00			Ice	0.47	0.17	0.01
						1" Ice	0.65	0.29	0.02
						2" Ice			
RRH2x40-AWS	A	From Leg	4.00	0.0000	140.00	No Ice	2.16	1.42	0.04
			0.00			1/2"	2.36	1.59	0.06
			0.00			Ice	2.57	1.77	0.08
						1" Ice	3.00	2.14	0.13
						2" Ice			
RRH2x40-AWS	B	From Leg	4.00	0.0000	140.00	No Ice	2.16	1.42	0.04
			0.00			1/2"	2.36	1.59	0.06
			0.00			Ice	2.57	1.77	0.08
						1" Ice	3.00	2.14	0.13
						2" Ice			
RRH2x40-AWS	C	From Leg	4.00	0.0000	140.00	No Ice	2.16	1.42	0.04
			0.00			1/2"	2.36	1.59	0.06
			0.00			Ice	2.57	1.77	0.08
						1" Ice	3.00	2.14	0.13
						2" Ice			
RRFDC-3315-PF-48	A	From Leg	4.00	0.0000	140.00	No Ice	3.71	2.19	0.02
			0.00			1/2"	3.95	2.39	0.05
			0.00			Ice	4.20	2.61	0.09
						1" Ice	4.72	3.05	0.17
						2" Ice			
***									
Platform Mount [13' LP 713-1]	C	None		0.0000	126.00	No Ice	35.63	35.63	1.64
						1/2"	38.74	38.74	2.41
						Ice	41.99	41.99	3.28
						1" Ice	49.03	49.03	5.27
						2" Ice			
(2) 13' Hor x 5" x 5" Angle Mount	A	From Leg	4.00	0.0000	126.00	No Ice	6.50	0.21	0.35
			0.00			1/2"	7.40	0.27	0.41
			0.00			Ice	8.30	0.33	0.48
						1" Ice	10.14	0.49	0.65
						2" Ice			
(2) 13' Hor x 5" x 5" Angle Mount	B	From Leg	4.00	0.0000	126.00	No Ice	6.50	0.21	0.35
			0.00			1/2"	7.40	0.27	0.41
			0.00			Ice	8.30	0.33	0.48
						1" Ice	10.14	0.49	0.65
						2" Ice			
(2) 13' Hor x 5" x 5" Angle Mount	C	From Leg	4.00	0.0000	126.00	No Ice	6.50	0.21	0.35
			0.00			1/2"	7.40	0.27	0.41
			0.00			Ice	8.30	0.33	0.48
						1" Ice	10.14	0.49	0.65
						2" Ice			
6'x2" Mount Pipe	A	From Leg	4.00	0.0000	126.00	No Ice	1.43	1.43	0.02
			2.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
6'x2" Mount Pipe	B	From Leg	4.00	0.0000	126.00	No Ice	1.43	1.43	0.02

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		*C_AA_A Front* ft^2	*C_AA_A Side* ft^2	*Weight* K
			2.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
6'x2" Mount Pipe	C	From Leg	4.00	0.0000	126.00	No Ice	1.43	1.43	0.02
			2.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice	3.06	3.06	0.09
						2" Ice			
AIR 3246 B66 w/ Mount Pipe	A	From Leg	4.00	0.0000	126.00	No Ice	8.18	6.56	0.20
			-6.00			1/2"	8.66	7.39	0.27
			2.00			Ice	9.12	8.13	0.35
						1" Ice	10.09	9.65	0.53
						2" Ice			
AIR 3246 B66 w/ Mount Pipe	B	From Leg	4.00	0.0000	126.00	No Ice	8.18	6.56	0.20
			-6.00			1/2"	8.66	7.39	0.27
			2.00			Ice	9.12	8.13	0.35
						1" Ice	10.09	9.65	0.53
						2" Ice			
AIR 3246 B66 w/ Mount Pipe	C	From Leg	4.00	0.0000	126.00	No Ice	8.18	6.56	0.20
			-6.00			1/2"	8.66	7.39	0.27
			2.00			Ice	9.12	8.13	0.35
						1" Ice	10.09	9.65	0.53
						2" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00	0.0000	126.00	No Ice	14.69	6.87	0.19
			-2.00			1/2"	15.46	7.55	0.31
			2.00			Ice	16.23	8.25	0.46
						1" Ice	17.82	9.67	0.79
						2" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00	0.0000	126.00	No Ice	14.69	6.87	0.19
			-2.00			1/2"	15.46	7.55	0.31
			2.00			Ice	16.23	8.25	0.46
						1" Ice	17.82	9.67	0.79
						2" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00	0.0000	126.00	No Ice	14.69	6.87	0.19
			-2.00			1/2"	15.46	7.55	0.31
			2.00			Ice	16.23	8.25	0.46
						1" Ice	17.82	9.67	0.79
						2" Ice			
AIR -32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.00	0.0000	126.00	No Ice	6.75	6.07	0.15
			6.00			1/2"	7.20	6.87	0.21
			2.00			Ice	7.65	7.58	0.28
						1" Ice	8.57	9.06	0.44
						2" Ice			
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.00	0.0000	126.00	No Ice	6.75	6.07	0.15
			6.00			1/2"	7.20	6.87	0.21
			2.00			Ice	7.65	7.58	0.28
						1" Ice	8.57	9.06	0.44
						2" Ice			
AIR -32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.00	0.0000	126.00	No Ice	6.75	6.07	0.15
			6.00			1/2"	7.20	6.87	0.21
			2.00			Ice	7.65	7.58	0.28
						1" Ice	8.57	9.06	0.44
						2" Ice			
RADIO 4449 B12/B71	A	From Leg	4.00	0.0000	126.00	No Ice	1.65	1.30	0.08
			0.00			1/2"	1.81	1.44	0.09
			2.00			Ice	1.98	1.60	0.11
						1" Ice	2.34	1.92	0.16
						2" Ice			
RADIO 4449 B12/B71	B	From Leg	4.00	0.0000	126.00	No Ice	1.65	1.30	0.08
			0.00			1/2"	1.81	1.44	0.09
			2.00			Ice	1.98	1.60	0.11
						1" Ice	2.34	1.92	0.16
						2" Ice			
RADIO 4449 B12/B71	C	From Leg	4.00	0.0000	126.00	No Ice	1.65	1.30	0.08

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		*C_AA_A Front* ft^2	*C_AA_A Side* ft^2	*Weight* K
			0.00			1/2" Ice	1.81	1.44	0.09
			2.00			1" Ice	1.98	1.60	0.11
						2" Ice	2.34	1.92	0.16
ATMAA1412D-1A20	A	From Leg	4.00	0.0000	126.00	No Ice	1.00	0.41	0.01
			0.00			1/2" Ice	1.13	0.50	0.02
			0.00			1" Ice	1.26	0.59	0.03
						2" Ice	1.55	0.81	0.06
ATMAA1412D-1A20	B	From Leg	4.00	0.0000	126.00	No Ice	1.00	0.41	0.01
			0.00			1/2" Ice	1.13	0.50	0.02
			0.00			1" Ice	1.26	0.59	0.03
						2" Ice	1.55	0.81	0.06
ATMAA1412D-1A20	C	From Leg	4.00	0.0000	126.00	No Ice	1.00	0.41	0.01
			0.00			1/2" Ice	1.13	0.50	0.02
			0.00			1" Ice	1.26	0.59	0.03
						2" Ice	1.55	0.81	0.06
***									
Platform Mount [LP 712-1]	C	None		0.0000	117.00	No Ice	24.56	24.56	1.34
						1/2" Ice	27.92	27.92	1.91
						1" Ice	31.27	31.27	2.55
						2" Ice	37.98	37.98	3.97
site pro1 HRK12 handrail kit	C	None		0.0000	117.00	No Ice	4.56	4.56	0.25
						1/2" Ice	6.39	6.39	0.31
						1" Ice	8.18	8.18	0.40
						2" Ice	11.66	11.66	0.66
8'x2" Mount Pipe	A	From Leg	4.00	0.0000	117.00	No Ice	1.90	1.90	0.03
			2.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
						2" Ice	4.40	4.40	0.12
8'x2" Mount Pipe	B	From Leg	4.00	0.0000	117.00	No Ice	1.90	1.90	0.03
			2.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
						2" Ice	4.40	4.40	0.12
8'x2" Mount Pipe	C	From Leg	4.00	0.0000	117.00	No Ice	1.90	1.90	0.03
			2.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
						2" Ice	4.40	4.40	0.12
Transition Ladder	C	From Face	2.00	0.0000	117.00	No Ice	6.00	6.00	0.16
			0.00			1/2" Ice	8.00	8.00	0.24
			-2.00			1" Ice	10.00	10.00	0.32
						2" Ice	14.00	14.00	0.48
DMP65R-BU8D w/ Mount Pipe	A	From Leg	4.00	0.0000	117.00	No Ice	18.11	10.26	0.13
			-2.00			1/2" Ice	18.84	11.78	0.25
			3.00			1" Ice	19.59	13.33	0.38
						2" Ice	21.01	15.67	0.68
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.00	0.0000	117.00	No Ice	12.95	7.26	0.10
			-2.00			1/2" Ice	13.55	8.43	0.20
			3.00			1" Ice	14.11	9.31	0.30
						2" Ice	15.26	11.13	0.53
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.00	0.0000	117.00	No Ice	12.95	7.26	0.10
			-2.00			1/2" Ice	13.55	8.43	0.20
			3.00			1" Ice	14.11	9.31	0.30
						2" Ice	15.26	11.13	0.53

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
7770.00 w/ Mount Pipe	A	From Leg	4.00 -6.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	B	From Leg	4.00 -6.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	C	From Leg	4.00 -6.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
TPA-65R-LCUUUU-H8 w/ Mount Pipe	B	From Leg	4.00 6.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.85 12.77 13.71 15.64	8.99 9.88 10.79 12.66	0.11 0.21 0.32 0.58
QS66512-3 w/ Mount Pipe	A	From Leg	4.00 6.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.04 4.42 4.82 5.63	4.18 4.57 4.97 5.79	0.13 0.20 0.28 0.48
QS66512-3 w/ Mount Pipe	C	From Leg	4.00 6.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.04 4.42 4.82 5.63	4.18 4.57 4.97 5.79	0.13 0.20 0.28 0.48
RRUS 8843 B2/B66A_CCIV2	A	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.98 2.16 2.34 2.73	1.70 1.86 2.04 2.41	0.08 0.10 0.12 0.18
RRUS 8843 B2/B66A_CCIV2	B	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.98 2.16 2.34 2.73	1.70 1.86 2.04 2.41	0.08 0.10 0.12 0.18
RRUS 8843 B2/B66A_CCIV2	C	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.98 2.16 2.34 2.73	1.70 1.86 2.04 2.41	0.08 0.10 0.12 0.18
RRUS 4449 B5/B12	A	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	B	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
RRUS 4449 B5/B12	C	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.14 2.33 2.72	1.41 1.56 1.73 2.07	0.07 0.09 0.11 0.16
DC6-48-60-0-8C-EV	C	From Leg	1.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.96 3.20 3.68	4.78 5.06 5.35 5.95	0.03 0.06 0.10 0.20

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		C_AA_A *Front* ft^2	C_AA_A *Side* ft^2	*Weight* K
DC6-48-60-18-8F	A	From Leg	1.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.92 1.46 1.64 2.04	0.92 1.46 1.64 2.04	0.02 0.04 0.06 0.11
DC6-48-60-18-8F	B	From Leg	1.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.92 1.46 1.64 2.04	0.92 1.46 1.64 2.04	0.02 0.04 0.06 0.11
(2) LGP21401	A	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.35 0.44 0.54 0.77	0.01 0.02 0.03 0.05
(2) LGP21401	B	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.35 0.44 0.54 0.77	0.01 0.02 0.03 0.05
(2) LGP21401	C	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.10 1.24 1.38 1.69	0.35 0.44 0.54 0.77	0.01 0.02 0.03 0.05
RRUS-32 B30	A	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
RRUS-32 B30	B	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
RRUS-32 B30	C	From Leg	4.00 0.00 3.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.31 3.56 3.81 4.33	2.42 2.64 2.86 3.32	0.08 0.10 0.14 0.21
***									
Pipe Mount [PM 601-3]	C	None		0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.17 3.79 4.42 5.76	3.17 3.79 4.42 5.76	0.20 0.23 0.28 0.40
800MHz 2X50W RRH W/FILTER	A	From Leg	0.50 0.00 -2.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
800MHz 2X50W RRH W/FILTER	B	From Leg	0.50 0.00 -2.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
800MHz 2X50W RRH W/FILTER	C	From Leg	0.50 0.00 -2.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.83	1.93 2.11 2.29 2.68	0.06 0.09 0.11 0.17
PCS 1900MHz 4x45W-65MHz	A	From Leg	0.50 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* ft ft ft	*Azimuth Adjustment* °	*Placement* ft		C_AA_A *Front* ft^2	C_AA_A *Side* ft^2	*Weight* K
						2" Ice			
PCS 1900MHz 4x45W-65MHz	B	From Leg	0.50 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
PCS 1900MHz 4x45W-65MHz	C	From Leg	0.50 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
***									
Platform Mount [13' LP 713-1]	C	None		0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	35.63 38.74 41.99 49.03	35.63 38.74 41.99 49.03	1.64 2.41 3.28 5.27
AAHC w/ Mount Pipe	A	From Leg	4.00 -6.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.41 4.73 5.06 5.74	2.69 3.08 3.49 4.36	0.12 0.16 0.20 0.31
AAHC w/ Mount Pipe	B	From Leg	4.00 -6.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.41 4.73 5.06 5.74	2.69 3.08 3.49 4.36	0.12 0.16 0.20 0.31
AAHC w/ Mount Pipe	C	From Leg	4.00 -6.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.41 4.73 5.06 5.74	2.69 3.08 3.49 4.36	0.12 0.16 0.20 0.31
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.00 6.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.00 6.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.00 6.00 2.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
IBC1900BB-1	A	From Leg	4.00 0.00 1.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.97 1.09 1.22 1.51	0.46 0.56 0.66 0.89	0.02 0.03 0.04 0.06
IBC1900BB-1	B	From Leg	4.00 0.00 1.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.97 1.09 1.22 1.51	0.46 0.56 0.66 0.89	0.02 0.03 0.04 0.06
IBC1900BB-1	C	From Leg	4.00 0.00 1.00	0.0000	103.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.97 1.09 1.22 1.51	0.46 0.56 0.66 0.89	0.02 0.03 0.04 0.06
IBC1900HG-2A	A	From Leg	4.00 0.00 1.00	0.0000	103.00	No Ice 1/2" Ice	0.97 1.09 1.22	0.46 0.56 0.66	0.02 0.03 0.04

Description	*Face or Leg*	*Offset Type*	*Offsets: Horz Lateral Vert* *ft* *ft* *ft*	*Azimuth Adjustment* *°*	*Placement* *ft*		*C_AA_A Front* *ft^2*	*C_AA_A Side* *ft^2*	*Weight* *K*
						1" Ice	1.51	0.89	0.06
						2" Ice			
IBC1900HG-2A	B	From Leg	4.00	0.0000	103.00	No Ice	0.97	0.46	0.02
			0.00			1/2"	1.09	0.56	0.03
			1.00			Ice	1.22	0.66	0.04
						1" Ice	1.51	0.89	0.06
						2" Ice			
IBC1900HG-2A	C	From Leg	4.00	0.0000	103.00	No Ice	0.97	0.46	0.02
			0.00			1/2"	1.09	0.56	0.03
			1.00			Ice	1.22	0.66	0.04
						1" Ice	1.51	0.89	0.06
						2" Ice			
LLPX310R-V1 w/ Mount Pipe	A	From Leg	4.00	0.0000	103.00	No Ice	4.57	3.01	0.04
			0.00			1/2"	4.93	3.55	0.08
			2.00			Ice	5.29	4.11	0.13
						1" Ice	6.04	5.27	0.23
						2" Ice			
LLPX310R-V1 w/ Mount Pipe	B	From Leg	4.00	0.0000	103.00	No Ice	4.57	3.01	0.04
			0.00			1/2"	4.93	3.55	0.08
			2.00			Ice	5.29	4.11	0.13
						1" Ice	6.04	5.27	0.23
						2" Ice			
LLPX310R-V1 w/ Mount Pipe	C	From Leg	4.00	0.0000	103.00	No Ice	4.57	3.01	0.04
			0.00			1/2"	4.93	3.55	0.08
			2.00			Ice	5.29	4.11	0.13
						1" Ice	6.04	5.27	0.23
						2" Ice			
WIMAX DAP HEAD	A	From Leg	4.00	0.0000	103.00	No Ice	1.55	0.68	0.03
			0.00			1/2"	1.70	0.80	0.04
			2.00			Ice	1.87	0.92	0.06
						1" Ice	2.22	1.19	0.09
						2" Ice			
WIMAX DAP HEAD	B	From Leg	4.00	0.0000	103.00	No Ice	1.55	0.68	0.03
			0.00			1/2"	1.70	0.80	0.04
			2.00			Ice	1.87	0.92	0.06
						1" Ice	2.22	1.19	0.09
						2" Ice			
WIMAX DAP HEAD	C	From Leg	4.00	0.0000	103.00	No Ice	1.55	0.68	0.03
			0.00			1/2"	1.70	0.80	0.04
			2.00			Ice	1.87	0.92	0.06
						1" Ice	2.22	1.19	0.09
						2" Ice			
Horizon Compact	B	From Leg	4.00	0.0000	103.00	No Ice	0.72	0.37	0.01
			0.00			1/2"	0.83	0.45	0.02
			4.00			Ice	0.94	0.54	0.03
						1" Ice	1.19	0.74	0.05
						2" Ice			
Horizon Compact	C	From Leg	4.00	0.0000	103.00	No Ice	0.72	0.37	0.01
			0.00			1/2"	0.83	0.45	0.02
			4.00			Ice	0.94	0.54	0.03
						1" Ice	1.19	0.74	0.05
						2" Ice			
***									
742 213 w/ Mount Pipe	A	From Face	0.50	0.0000	93.00	No Ice	3.54	2.98	0.05
			0.00			1/2"	4.13	3.57	0.09
			0.00			Ice	4.74	4.17	0.14
						1" Ice	6.01	5.42	0.27
						2" Ice			
742 213 w/ Mount Pipe	B	From Face	0.50	0.0000	93.00	No Ice	3.54	2.98	0.05
			0.00			1/2"	4.13	3.57	0.09
			0.00			Ice	4.74	4.17	0.14
						1" Ice	6.01	5.42	0.27
						2" Ice			
742 213 w/ Mount Pipe	C	From Face	0.50	0.0000	93.00	No Ice	3.54	2.98	0.05
			0.00			1/2"	4.13	3.57	0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			Ice	4.74	4.17	0.14
						1" Ice	6.01	5.42	0.27
						2" Ice			
***									
Side Arm Mount [SO 701-1]	C	From Face	1.50	0.0000	74.00	No Ice	0.85	1.67	0.07
			0.00			1/2" Ice	1.14	2.34	0.08
			0.00			1" Ice	1.43	3.01	0.09
						2" Ice	2.01	4.35	0.12
BCD-87010	C	From Face	3.00	0.0000	74.00	No Ice	2.90	2.90	0.03
			0.00			1/2" Ice	4.05	4.05	0.05
			6.00			1" Ice	5.21	5.21	0.08
						2" Ice	7.01	7.01	0.16
***									
Side Arm Mount [SO 701-1]	C	From Leg	1.50	0.0000	50.00	No Ice	0.85	1.67	0.07
			0.00			1/2" Ice	1.14	2.34	0.08
			0.00			1" Ice	1.43	3.01	0.09
						2" Ice	2.01	4.35	0.12
KS24019-L112A	C	From Leg	3.00	0.0000	50.00	No Ice	0.14	0.14	0.01
			0.00			1/2" Ice	0.20	0.20	0.01
			2.00			1" Ice	0.26	0.26	0.01
						2" Ice	0.41	0.41	0.02
***									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
***											
VHLP2.5-11	B	Paraboloid w/Shroud (HP)	From Leg	4.00	3.0000		103.00	2.92	No Ice	6.68	0.05
				0.00					1/2" Ice	7.07	0.08
				4.00					1" Ice	7.46	0.12
									2" Ice	8.23	0.19
VHLP2-180	C	Paraboloid w/Shroud (HP)	From Leg	4.00	86.0000		103.00	2.00	No Ice	3.14	0.03
				0.00					1/2" Ice	3.41	0.04
				4.00					1" Ice	3.68	0.06
									2" Ice	4.21	0.09
***											

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice

Comb. No.	Description
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	140 - 86.8333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66.52	1.42	-2.55
			Max. Mx	20	-26.10	706.09	4.17
			Max. My	14	-26.09	-4.49	-709.92
			Max. Vy	20	-24.45	706.09	4.17
			Max. Vx	14	24.50	-4.49	-709.92
			Max. Torque	9			-2.58
L2	86.8333 - 38	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-91.40	3.21	-2.96
			Max. Mx	20	-41.06	2005.88	15.74
			Max. My	14	-41.06	-15.85	-2011.14
			Max. Vy	20	-30.16	2005.88	15.74
			Max. Vx	14	30.19	-15.85	-2011.14
			Max. Torque	9			-3.38
L3	38 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-121.39	4.29	-1.80
			Max. Mx	20	-61.68	3473.15	27.61
			Max. My	14	-61.68	-27.16	-3479.38
			Max. Vy	20	-34.99	3473.15	27.61
			Max. Vx	14	35.02	-27.16	-3479.38
			Max. Torque	9			-3.38

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	37	121.39	6.96	4.04
	Max. H_x	20	61.69	34.97	0.25
	Max. H_z	2	61.69	0.30	34.99
	Max. M_x	2	3477.15	0.30	34.99
	Max. M_z	8	3465.78	-34.91	-0.26
	Max. Torsion	21	3.16	34.97	0.25
	Min. Vert	7	46.27	-30.18	17.30
	Min. H_x	8	61.69	-34.91	-0.26
	Min. H_z	14	61.69	-0.25	-35.00
	Min. M_x	14	-3479.38	-0.25	-35.00
	Min. M_z	20	-3473.15	34.97	0.25
	Min. Torsion	9	-3.38	-34.91	-0.26

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	51.41	0.00	0.00	0.58	0.69	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	61.69	-0.30	-34.99	-3477.15	34.18	-0.92
0.9 Dead+1.0 Wind 0 deg - No Ice	46.27	-0.30	-34.99	-3450.35	33.71	-0.92
1.2 Dead+1.0 Wind 30 deg - No Ice	61.69	17.30	-30.21	-3000.82	-1715.29	0.98
0.9 Dead+1.0 Wind 30 deg - No Ice	46.27	17.30	-30.21	-2977.71	-1702.20	0.99
1.2 Dead+1.0 Wind 60 deg - No Ice	61.69	30.18	-17.30	-1716.72	-2994.56	2.40
0.9 Dead+1.0 Wind 60 deg - No Ice	46.27	30.18	-17.30	-1703.58	-2971.54	2.40
1.2 Dead+1.0 Wind 90 deg - No Ice	61.69	34.91	0.26	29.53	-3465.78	3.37
0.9 Dead+1.0 Wind 90 deg - No Ice	46.27	34.91	0.26	29.12	-3439.11	3.38
1.2 Dead+1.0 Wind 120 deg - No Ice	61.69	30.32	17.65	1757.39	-3010.30	3.34
0.9 Dead+1.0 Wind 120 deg - No Ice	46.27	30.32	17.65	1743.56	-2987.16	3.34
1.2 Dead+1.0 Wind 150 deg - No Ice	61.69	17.78	30.61	3035.59	-1761.03	2.43
0.9 Dead+1.0 Wind 150 deg - No Ice	46.27	17.78	30.61	3011.89	-1747.61	2.43
1.2 Dead+1.0 Wind 180 deg - No Ice	61.69	0.25	35.00	3479.38	-27.16	0.91
0.9 Dead+1.0 Wind 180 deg - No Ice	46.27	0.25	35.00	3452.19	-27.16	0.91
1.2 Dead+1.0 Wind 210 deg - No Ice	61.69	-17.25	30.25	3006.95	1710.58	-0.91
0.9 Dead+1.0 Wind 210 deg - No Ice	46.27	-17.25	30.25	2983.42	1697.10	-0.91
1.2 Dead+1.0 Wind 240 deg - No Ice	61.69	-30.22	17.24	1711.54	3001.57	-2.31
0.9 Dead+1.0 Wind 240 deg - No Ice	46.27	-30.22	17.24	1698.06	2978.08	-2.31
1.2 Dead+1.0 Wind 270 deg - No Ice	61.69	-34.97	-0.25	-27.61	3473.15	-3.16
0.9 Dead+1.0 Wind 270 deg - No Ice	46.27	-34.97	-0.25	-27.58	3446.00	-3.16
1.2 Dead+1.0 Wind 300 deg - No Ice	61.69	-30.35	-17.67	-1757.30	3015.65	-3.10
0.9 Dead+1.0 Wind 300 deg	46.27	-30.35	-17.67	-1743.84	2992.05	-3.11

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
- No Ice 1.2 Dead+1.0 Wind 330 deg	61.69	-17.81	-30.64	-3036.60	1766.41	-2.25
- No Ice 0.9 Dead+1.0 Wind 330 deg	46.27	-17.81	-30.64	-3013.27	1752.53	-2.26
- No Ice 1.2 Dead+1.0 Ice+1.0 Temp	121.39	-0.00	0.00	1.80	4.29	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	121.39	-0.06	-8.02	-842.27	11.35	-0.20
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	121.39	3.98	-6.93	-727.08	-413.63	0.30
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	121.39	6.93	-3.97	-415.78	-724.47	0.67
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	121.39	8.02	0.05	7.96	-838.85	0.91
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	121.39	6.96	4.04	427.81	-727.67	0.88
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	121.39	4.04	6.96	734.69	-421.10	0.61
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	121.39	0.05	8.02	846.53	-1.18	0.20
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	121.39	-3.96	6.93	732.11	421.39	-0.28
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	121.39	-6.94	3.96	418.44	734.68	-0.66
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	121.39	-8.03	-0.05	-3.77	849.10	-0.87
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	121.39	-6.96	-4.04	-424.00	737.48	-0.83
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	121.39	-4.05	-6.96	-731.10	430.93	-0.58
Dead+Wind 0 deg - Service	51.41	-0.07	-7.59	-750.47	7.91	-0.20
Dead+Wind 30 deg - Service	51.41	3.75	-6.56	-647.59	-369.90	0.21
Dead+Wind 60 deg - Service	51.41	6.55	-3.75	-370.28	-646.17	0.52
Dead+Wind 90 deg - Service	51.41	7.58	0.06	6.83	-747.93	0.73
Dead+Wind 120 deg - Service	51.41	6.58	3.83	379.97	-649.57	0.73
Dead+Wind 150 deg - Service	51.41	3.86	6.64	656.02	-379.79	0.53
Dead+Wind 180 deg - Service	51.41	0.05	7.59	751.85	-5.34	0.20
Dead+Wind 210 deg - Service	51.41	-3.74	6.56	649.82	369.94	-0.20
Dead+Wind 240 deg - Service	51.41	-6.56	3.74	370.07	648.73	-0.50
Dead+Wind 270 deg - Service	51.41	-7.59	-0.06	-5.51	750.58	-0.69
Dead+Wind 300 deg - Service	51.41	-6.59	-3.83	-379.05	651.78	-0.68
Dead+Wind 330 deg - Service	51.41	-3.86	-6.65	-655.33	382.00	-0.49

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.00	-51.41	0.00	0.00	51.41	0.00	0.000%
2	-0.30	-61.69	-34.99	0.30	61.69	34.99	0.000%
3	-0.30	-46.27	-34.99	0.30	46.27	34.99	0.000%
4	17.30	-61.69	-30.21	-17.30	61.69	30.21	0.000%
5	17.30	-46.27	-30.21	-17.30	46.27	30.21	0.000%
6	30.18	-61.69	-17.30	-30.18	61.69	17.30	0.000%
7	30.18	-46.27	-17.30	-30.18	46.27	17.30	0.000%
8	34.91	-61.69	0.26	-34.91	61.69	-0.26	0.000%
9	34.91	-46.27	0.26	-34.91	46.27	-0.26	0.000%
10	30.32	-61.69	17.65	-30.32	61.69	-17.65	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
11	30.32	-46.27	17.65	-30.32	46.27	-17.65	0.000%
12	17.78	-61.69	30.61	-17.78	61.69	-30.61	0.000%
13	17.78	-46.27	30.61	-17.78	46.27	-30.61	0.000%
14	0.25	-61.69	35.00	-0.25	61.69	-35.00	0.000%
15	0.25	-46.27	35.00	-0.25	46.27	-35.00	0.000%
16	-17.25	-61.69	30.25	17.25	61.69	-30.25	0.000%
17	-17.25	-46.27	30.25	17.25	46.27	-30.25	0.000%
18	-30.22	-61.69	17.24	30.22	61.69	-17.24	0.000%
19	-30.22	-46.27	17.24	30.22	46.27	-17.24	0.000%
20	-34.97	-61.69	-0.25	34.97	61.69	0.25	0.000%
21	-34.97	-46.27	-0.25	34.97	46.27	0.25	0.000%
22	-30.35	-61.69	-17.67	30.35	61.69	17.67	0.000%
23	-30.35	-46.27	-17.67	30.35	46.27	17.67	0.000%
24	-17.81	-61.69	-30.64	17.81	61.69	30.64	0.000%
25	-17.81	-46.27	-30.64	17.81	46.27	30.64	0.000%
26	0.00	-121.39	0.00	0.00	121.39	-0.00	0.000%
27	-0.06	-121.39	-8.02	0.06	121.39	8.02	0.000%
28	3.98	-121.39	-6.93	-3.98	121.39	6.93	0.000%
29	6.93	-121.39	-3.97	-6.93	121.39	3.97	0.000%
30	8.02	-121.39	0.05	-8.02	121.39	-0.05	0.000%
31	6.96	-121.39	4.04	-6.96	121.39	-4.04	0.000%
32	4.04	-121.39	6.96	-4.04	121.39	-6.96	0.000%
33	0.05	-121.39	8.02	-0.05	121.39	-8.02	0.000%
34	-3.96	-121.39	6.93	3.96	121.39	-6.93	0.000%
35	-6.94	-121.39	3.96	6.94	121.39	-3.96	0.000%
36	-8.03	-121.39	-0.05	8.03	121.39	0.05	0.000%
37	-6.96	-121.39	-4.04	6.96	121.39	4.04	0.000%
38	-4.05	-121.39	-6.96	4.05	121.39	6.96	0.000%
39	-0.07	-51.41	-7.59	0.07	51.41	7.59	0.000%
40	3.75	-51.41	-6.56	-3.75	51.41	6.56	0.000%
41	6.55	-51.41	-3.75	-6.55	51.41	3.75	0.000%
42	7.58	-51.41	0.06	-7.58	51.41	-0.06	0.000%
43	6.58	-51.41	3.83	-6.58	51.41	-3.83	0.000%
44	3.86	-51.41	6.64	-3.86	51.41	-6.64	0.000%
45	0.05	-51.41	7.59	-0.05	51.41	-7.59	0.000%
46	-3.74	-51.41	6.56	3.74	51.41	-6.56	0.000%
47	-6.56	-51.41	3.74	6.56	51.41	-3.74	0.000%
48	-7.59	-51.41	-0.06	7.59	51.41	0.06	0.000%
49	-6.59	-51.41	-3.83	6.59	51.41	3.83	0.000%
50	-3.86	-51.41	-6.65	3.86	51.41	6.65	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00013909
3	Yes	4	0.00000001	0.00008697
4	Yes	5	0.00000001	0.00007786
5	Yes	5	0.00000001	0.00003743
6	Yes	5	0.00000001	0.00007228
7	Yes	5	0.00000001	0.00003461
8	Yes	4	0.00000001	0.00032566
9	Yes	4	0.00000001	0.00021579
10	Yes	5	0.00000001	0.00008449
11	Yes	5	0.00000001	0.00004064
12	Yes	5	0.00000001	0.00007534
13	Yes	5	0.00000001	0.00003594
14	Yes	4	0.00000001	0.00007861
15	Yes	4	0.00000001	0.00004214
16	Yes	5	0.00000001	0.00007472
17	Yes	5	0.00000001	0.00003580
18	Yes	5	0.00000001	0.00008016
19	Yes	5	0.00000001	0.00003857
20	Yes	4	0.00000001	0.00023493
21	Yes	4	0.00000001	0.00015485

22	Yes	5	0.00000001	0.00007408
23	Yes	5	0.00000001	0.00003537
24	Yes	5	0.00000001	0.00008319
25	Yes	5	0.00000001	0.00003991
26	Yes	4	0.00000001	0.00000674
27	Yes	5	0.00000001	0.00010481
28	Yes	5	0.00000001	0.00010994
29	Yes	5	0.00000001	0.00010968
30	Yes	5	0.00000001	0.00010477
31	Yes	5	0.00000001	0.00011210
32	Yes	5	0.00000001	0.00011214
33	Yes	5	0.00000001	0.00010626
34	Yes	5	0.00000001	0.00011214
35	Yes	5	0.00000001	0.00011234
36	Yes	5	0.00000001	0.00010627
37	Yes	5	0.00000001	0.00011212
38	Yes	5	0.00000001	0.00011213
39	Yes	4	0.00000001	0.00001257
40	Yes	4	0.00000001	0.00002983
41	Yes	4	0.00000001	0.00002618
42	Yes	4	0.00000001	0.00001835
43	Yes	4	0.00000001	0.00003614
44	Yes	4	0.00000001	0.00002731
45	Yes	4	0.00000001	0.00001234
46	Yes	4	0.00000001	0.00002724
47	Yes	4	0.00000001	0.00003283
48	Yes	4	0.00000001	0.00001714
49	Yes	4	0.00000001	0.00002722
50	Yes	4	0.00000001	0.00003368

Maximum Tower Deflections - Service Wind

Section No.	*Elevation*	*Horz. Deflection*	*Gov. Load*	*Tilt*	*Twist*
	ft	*in*	*Comb.*	*°*	*°*
L1	140 - 86.8333	10.974	44	0.6592	0.0017
L2	92.5 - 38	4.899	44	0.5077	0.0012
L3	45 - 0	1.132	50	0.2279	0.0004

Critical Deflections and Radius of Curvature - Service Wind

Elevation	*Appurtenance*	*Gov. Load*	*Deflection*	*Tilt*	*Twist*	*Radius of Curvature*
ft		*Comb.*	*in*	*°*	*°*	*ft*
140.00	Platform Mount (13' LP 101-1)	44	10.974	0.6592	0.0017	97400
126.00	Platform Mount [13' LP 713-1]	44	9.065	0.6245	0.0016	34785
117.00	Platform Mount [LP 712-1]	44	7.869	0.5995	0.0015	21173
107.00	VHLP2.5-11	44	6.595	0.5672	0.0014	14757
104.00	Pipe Mount [PM 601-3]	44	6.228	0.5563	0.0014	13527
103.00	Platform Mount [13' LP 713-1]	44	6.107	0.5525	0.0013	13162
93.00	742 213 w/ Mount Pipe	44	4.954	0.5101	0.0012	10463
74.00	Side Arm Mount [SO 701-1]	44	3.082	0.4064	0.0009	9363
50.00	Side Arm Mount [SO 701-1]	50	1.385	0.2576	0.0004	8417

Maximum Tower Deflections - Design Wind

Section No.	*Elevation*	*Horz. Deflection*	*Gov. Load*	*Tilt*	*Twist*
	ft	*in*	*Comb.*	*°*	*°*
L1	140 - 86.8333	50.860	24	3.0574	0.0080
L2	92.5 - 38	22.710	24	2.3543	0.0055
L3	45 - 0	5.247	24	1.0564	0.0017

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
140.00	Platform Mount (13' LP 101-1)	24	50.860	3.0574	0.0080	21121
126.00	Platform Mount [13' LP 713-1]	24	42.015	2.8963	0.0074	7542
117.00	Platform Mount [LP 712-1]	24	36.474	2.7805	0.0070	4590
107.00	VHLP2.5-11	24	30.571	2.6305	0.0064	3198
104.00	Pipe Mount [PM 601-3]	24	28.868	2.5798	0.0062	2931
103.00	Platform Mount [13' LP 713-1]	24	28.308	2.5622	0.0062	2851
93.00	742 213 w/ Mount Pipe	24	22.964	2.3652	0.0055	2266
74.00	Side Arm Mount [SO 701-1]	24	14.290	1.8844	0.0040	2025
50.00	Side Arm Mount [SO 701-1]	24	6.420	1.1946	0.0020	1817

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	140 - 86.8333 (1)	TP39.223x26.216x0.3125	53.17	0.00	0.0	37.7587	-26.08	2208.88	0.012
L2	86.8333 - 38 (2)	TP50.56x37.2117x0.4063	54.50	0.00	0.0	63.3646	-41.05	3706.83	0.011
L3	38 - 0 (3)	TP59.05x48.033x0.5	45.00	0.00	0.0	94.2655	-61.68	5514.53	0.011

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	140 - 86.8333 (1)	TP39.223x26.216x0.3125	711.56	1838.19	0.387	0.00	1838.19	0.000
L2	86.8333 - 38 (2)	TP50.56x37.2117x0.4063	2024.32	3995.68	0.507	0.00	3995.68	0.000
L3	38 - 0 (3)	TP59.05x48.033x0.5	3513.00	7247.00	0.485	0.00	7247.00	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	140 - 86.8333 (1)	TP39.223x26.216x0.3125	24.61	662.66	0.037	1.88	2187.28	0.001
L2	86.8333 - 38 (2)	TP50.56x37.2117x0.4063	30.60	1112.05	0.028	2.26	4738.29	0.000
L3	38 - 0 (3)	TP59.05x48.033x0.5	35.46	1654.36	0.021	2.25	8520.33	0.000

Pole Interaction Design Data

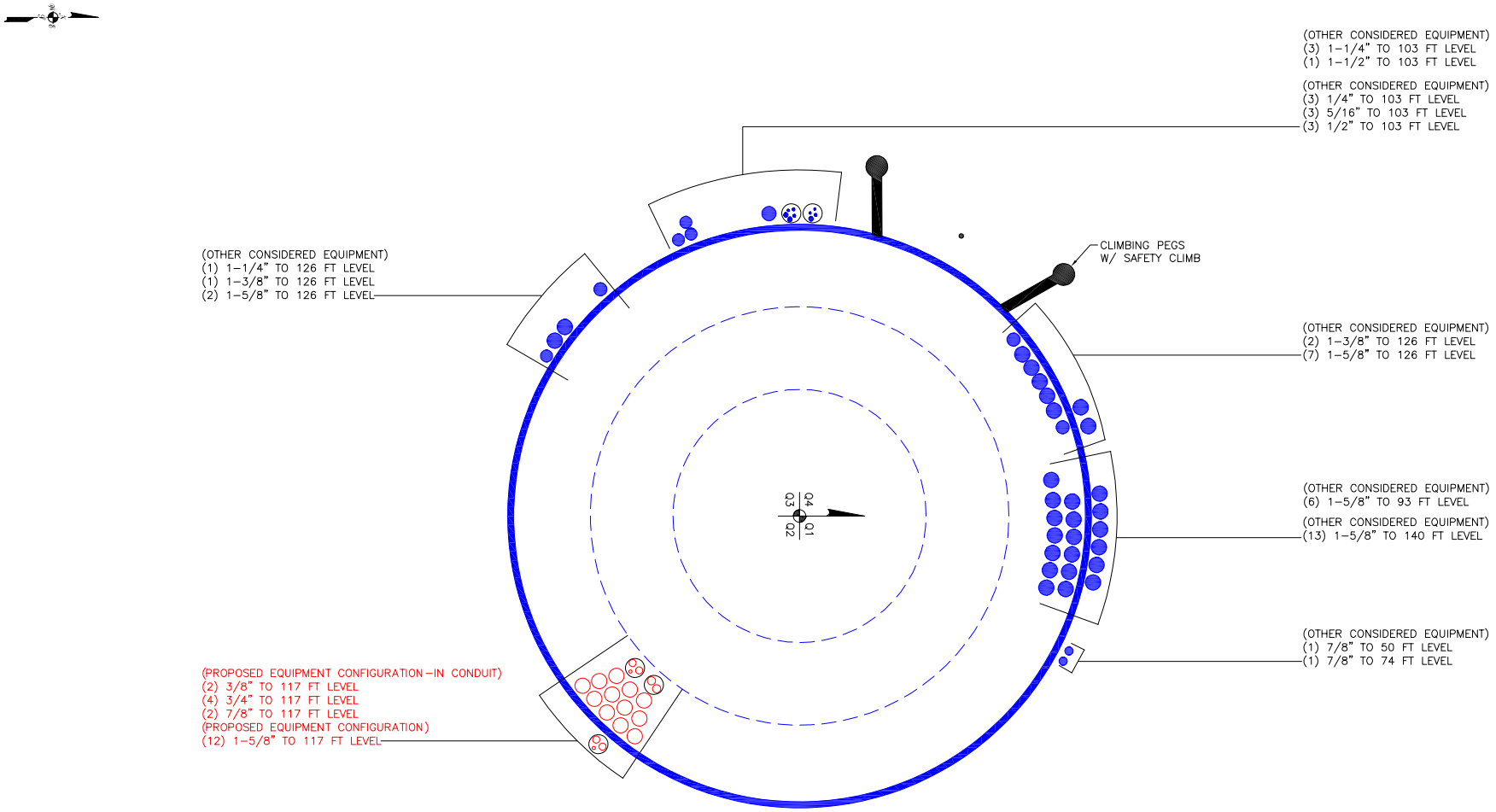
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	140 - 86.8333 (1)	0.012	0.387	0.000	0.037	0.001	0.400	1.050	4.8.2
L2	86.8333 - 38 (2)	0.011	0.507	0.000	0.028	0.000	0.518	1.050	4.8.2
L3	38 - 0 (3)	0.011	0.485	0.000	0.021	0.000	0.496	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	140 - 86.8333	Pole	TP39.223x26.216x0.3125	1	-26.08	2319.32	38.1	Pass
L2	86.8333 - 38	Pole	TP50.56x37.2117x0.4063	2	-41.05	3892.17	49.4	Pass
L3	38 - 0	Pole	TP59.05x48.033x0.5	3	-61.68	5790.26	47.3	Pass
							Summary	
						Pole (L2)	49.4	Pass
						RATING =	**49.4**	**Pass**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 806369 TOWER ID: C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

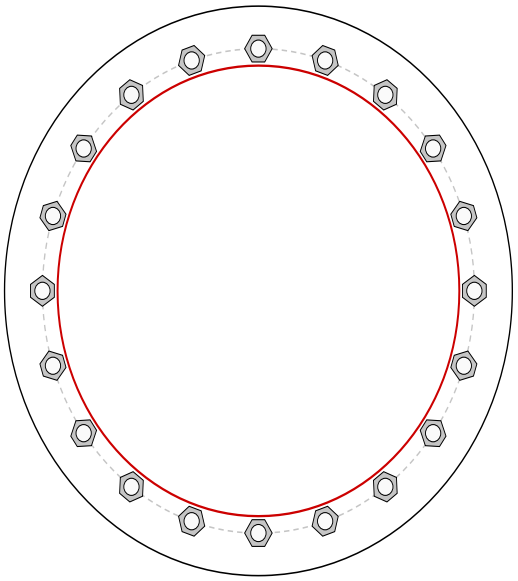
Monopole Base Plate Connection

Site Info	
BU #	806369
Site Name	HRT 094 943225
Order #	492774 Rev.0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	0.3125

Applied Loads	
Moment (kip-ft)	3513.00
Axial Force (kips)	61.68
Shear Force (kips)	35.46

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(20) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 63.5" BC

Base Plate Data

74.64" OD x 3" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

N/A

Pole Data

59.05" x 0.5" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

Pu_c = 135.79	ϕPn_c = 243.75	**Stress Rating**
Vu = 1.77	ϕVn = 73.13	**53.1%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	9.37	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**16.5%**	**Pass**

Drilled Pier Foundation

BU # :	806369
Site Name:	HRT 094 943225
Order Number:	492774 Rev.0

TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads	Comp.	Uplift
Moment (kip-ft)	3513	
Axial Force (kips)	61.68	
Shear Force (kips)	35.46	

Material Properties		
Concrete Strength, f'c:	3	ksi
Rebar Strength, Fy:	60	ksi

Pier Design Data		
Depth	47	ft
Ext. Above Grade	0	ft
Pier Section 1		
From 0' below grade to 47' below grade		
Pier Diameter	7.5	ft
Rebar Quantity	52	
Rebar Size	10	
Rebar Cage Diameter	82	in
Tie Size	4	

Analysis Results		
Soil Lateral Capacity	*Compression*	*Uplift*
$D_{v=0}$ (ft from TOC)	8.27	-
Soil Safety Factor	6.91	-
Max Moment (kip-ft)	3752.77	-
Rating*	*18.3%*	-
Soil Vertical Capacity	*Compression*	*Uplift*
Skin Friction (kips)	406.44	-
End Bearing (kips)	298.21	-
Weight of Concrete (kips)	251.35	-
Total Capacity (kips)	704.65	-
Axial (kips)	313.03	-
Rating*	*42.3%*	-
Reinforced Concrete Capacity	*Compression*	*Uplift*
Critical Depth (ft from TOC)	8.20	-
Critical Moment (kip-ft)	3752.75	-
Critical Moment Capacity	10729.47	-
Rating*	*33.3%*	-

Soil Interaction Rating*	**42.3%**
Structural Foundation Rating*	**33.3%**

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	☑
N/A	☐

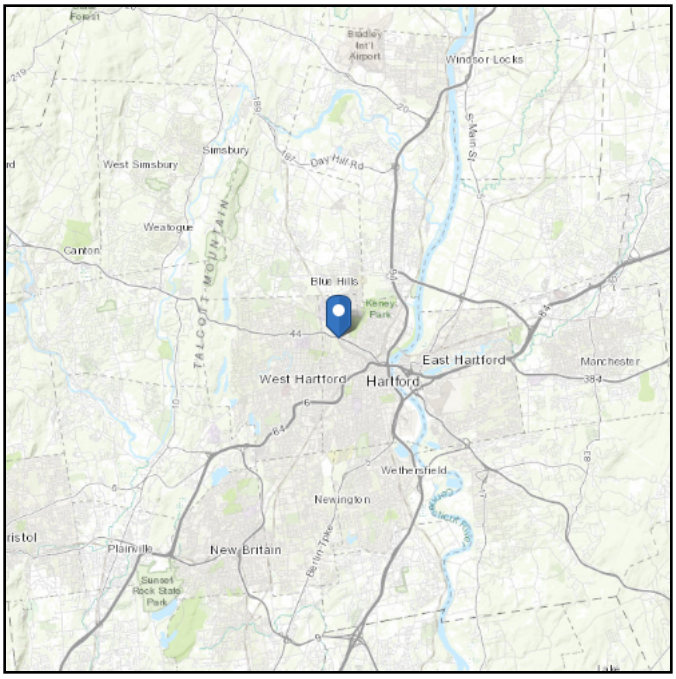
Soil Profile			
Groundwater Depth	10	ft	# of Layers: 7

Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ_{soil} (pcf)	$\gamma_{concrete}$ (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	2	2	105	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	2	5	3	100	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
3	5	10	5	100	150	0.5	30	0.000	0.000	0.60	0.60			Cohesionless
4	10	25	15	36	87.6	0.1	27	0.000	0.000	0.40	0.40			Cohesionless
5	25	35	10	36	87.6	0.1	27	0.000	0.000	0.60	0.60			Cohesionless
6	35	45	10	41	87.6	0.2	0	0.110	0.110	0.60	0.60			Cohesive
7	45	47	2	41	87.6	0	32	0.00	0.00	1.00	1.00	9		Cohesionless

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-10	**Elevation:**	60.06 ft (NAVD 88)
Risk Category:	II	**Latitude:**	41.783781
Soil Class:	D - Stiff Soil	**Longitude:**	-72.703794



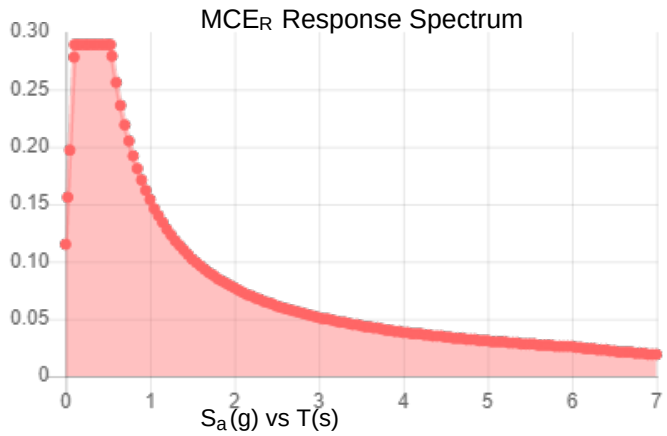
Seismic

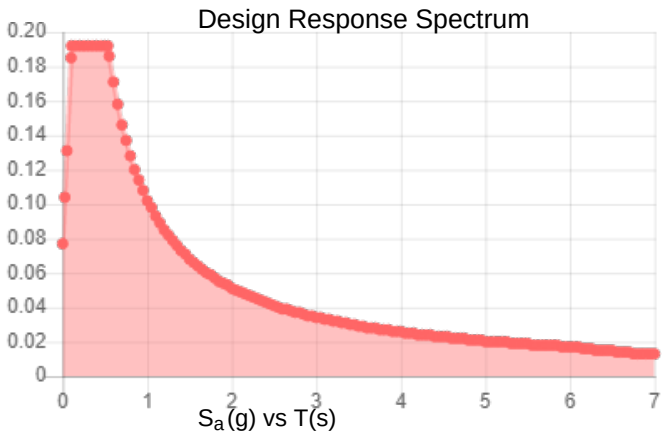
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.18	S_{DS} :	0.192
S_1 :	0.064	S_{D1} :	0.102
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.091
S_{MS} :	0.289	PGA_M :	0.145
S_{M1} :	0.154	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Tue Sep 10 2019

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

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	5 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Tue Sep 10 2019

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

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

Exhibit E

Mount Analysis

September 4, 2019

Kevin Morrow
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704) 405-6619

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

Subject:	**Mount Analysis**	
Carrier Designation:	***AT&T Mobility* Equipment Change-Out**	
	Client Site Number:	CT5131
	Client Site Name:	NW Hartford
	FA Number:	10071191
Crown Castle Designation:	**Crown Castle BU Number:**	806369
	Crown Castle Site Name:	HRT 094 943225
	Crown Castle JDE Job Number:	574630
	Crown Castle Order Number:	492774 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	25689.295247
Site Data:	**439-455 Homestead Ave., Hartford, Hartford County, CT 06105**	
	Latitude *41° 47' 1.61"*, Longitude *-72° 42' 13.66"*	
Structure Information:	**Tower Height & Type:**	140.0±ft Monopole
	Mount Elevation:	117.0-ft
	Mount Width & Type:	12.5-ft Platform w/ Handrail Mount

Dear Kevin Morrow,

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

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

Platform w/ Handrail Mount **Sufficient Capacity***

***See Section 4.1 of this report for the loading and structural modifications required in order for the mount to support the loading listed in Table 1.**

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 117 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Enrique B. Silva / NAM

Respectfully submitted by:

Aaron T. Rucker, P.E.
Division Manager

STATE OF CONNECTICUT
AARON THOMAS RUCKER
32608
LICENSED
PROFESSIONAL ENGINEER
Electronic Copy

09/05/2019

TABLE OF CONTENTS

1) INTRODUCTION

The mount is a 12.5-ft Platform w/ Handrail mount mapped by Tower Engineering Professionals. All information provided to TEP was assumed to be accurate and complete.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	117 mph
Exposure Category:	B
Topographic Category at Base:	1.0
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.186
Seismic S_1:	0.055
Live Loading Wind Speed:	30 mph
Live Loading at Mid/End-Points:	250 lb
Man Live Loading at Mount Pipes:	250 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
117.0	120.0	2	CCI Antennas	DMP65R-BU6D	Platform w/ Handrail Mount Site Pro 1 HRK12
		1	CCI Antennas	DMP65R-BU8D	
		1	CCI Antennas	TPA-65R-LCUUUU-H8	
		3	Powerwave Tech.	7770.00	
		2	Quintel Technology	QS66512-3	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 8843 B2/B66A_CCIV2	
		3	Ericsson	RRUS-32 B30	
		6	Powerwave Tech.	LGP21401	
		1	Raycap	DC6-48-60-0-8C-EV	
		2	Raycap	DC6-48-60-18-8F	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Mount Mapping	Tower Engineering Professionals	8500477	CCIsites
Loading Application	AT&T Mobility	Order 492774 Rev. 0	CCIsites

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A and Appendix C.

A tool internally developed by TEP, using Microsoft Excel, was used to calculate wind and seismic loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the analysis is included in Appendix B.

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

3.2) Assumptions

1) The mount was built in accordance with the manufacturer's specifications.
2) The mount has been maintained in accordance with the manufacturer's specification.
3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
4) All mount components are in sufficient condition to carry their full design capacity.
5) TEP did not analyze the collar mount connection to the pole and assumes it to have sufficient structural capacity to transfer the applied forces from the mount to the tower.
6) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-3, 13th/14th/15th Edition. See RISA-3D output for confirmation on grades used in this analysis.

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

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform w/ Handrail Mount)

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FF-H1	117.0	50.7	Pass
1	Support Horizontals	SA1	117.0	56.0	Pass
1	Grating Support Members	I2	117.0	51.2	Pass
1	Handrails	HRC-3	117.0	45.8	Pass
1	Mount Pipes	MP-2	117.0	55.6	Pass
1	Connection Plates	CT-A3	117.0	5.4	Pass
2	Connection Bolts	-	117.0	11.8	Pass

Structure Rating (max from all components) =	56.0%

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

Table 4 - Tieback Connection Data Table

Tower Connection Node No.	Existing/ Proposed	Resultant End Reaction (lb)	Connected Member Type	Connected Member Size	Member Compressive Capacity (lb)[3]	Notes
N/A						

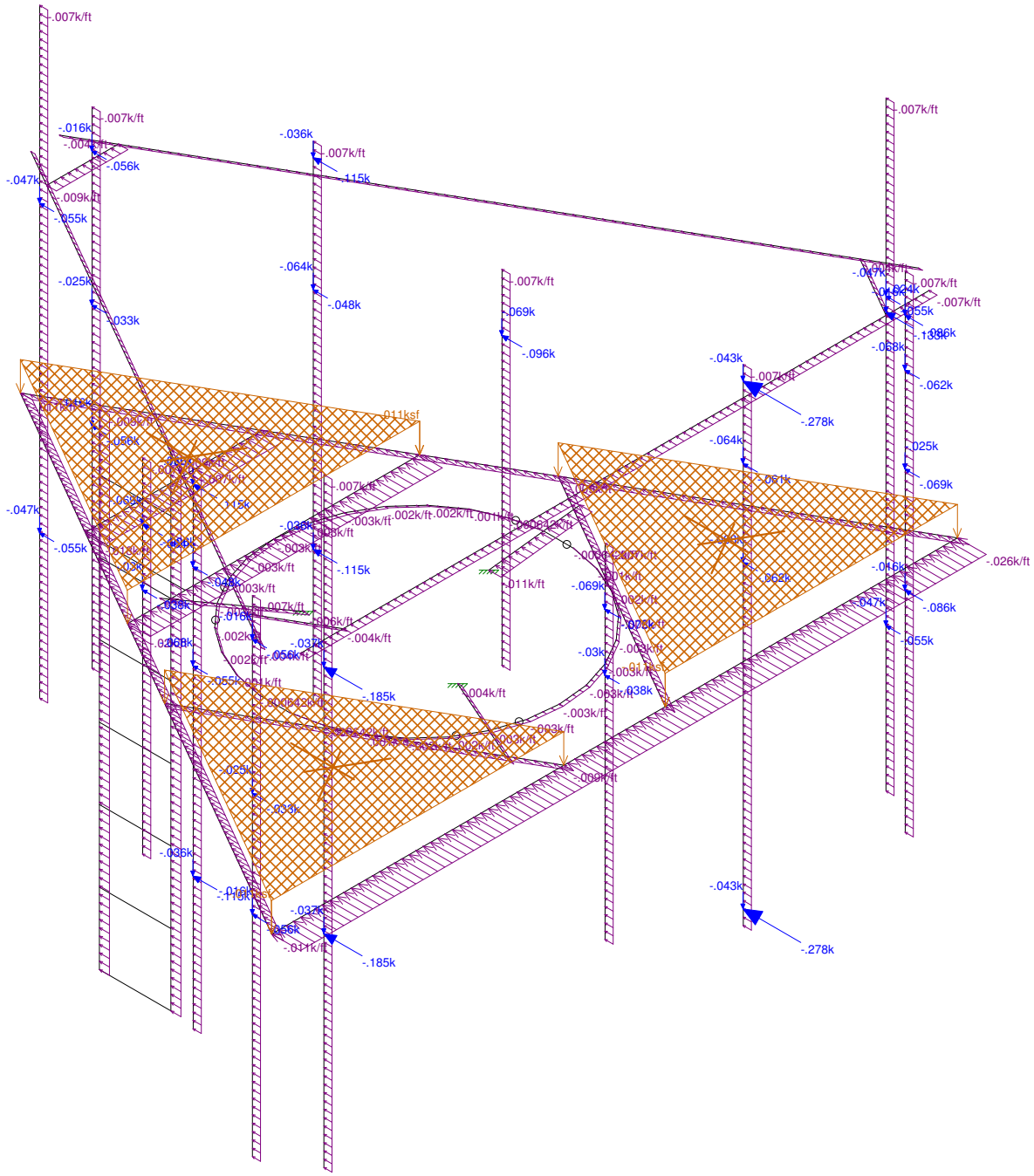
Notes:
1) Tieback connection point is within 25% of either end of the connected tower member.
2) Tower connection point is NOT within 25% of either end of the connected tower member.
3) Reduce member compressive capacity according to CED-STD-10294 *Standard for Installation of Mounts and Appurtenances.*

4.1) Recommendations

1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
2) The mount and its connection have sufficient capacity to carry the proposed loading configuration. In order for the results of this analysis to be valid, the structural modifications listed below must be completed:
   a) Add (1) Site Pro 1 HRK12 handrail kit 4'-0" above the face horizontals.
3) Engineering detail drawings have been provided in Appendix E - Supplemental Drawings.

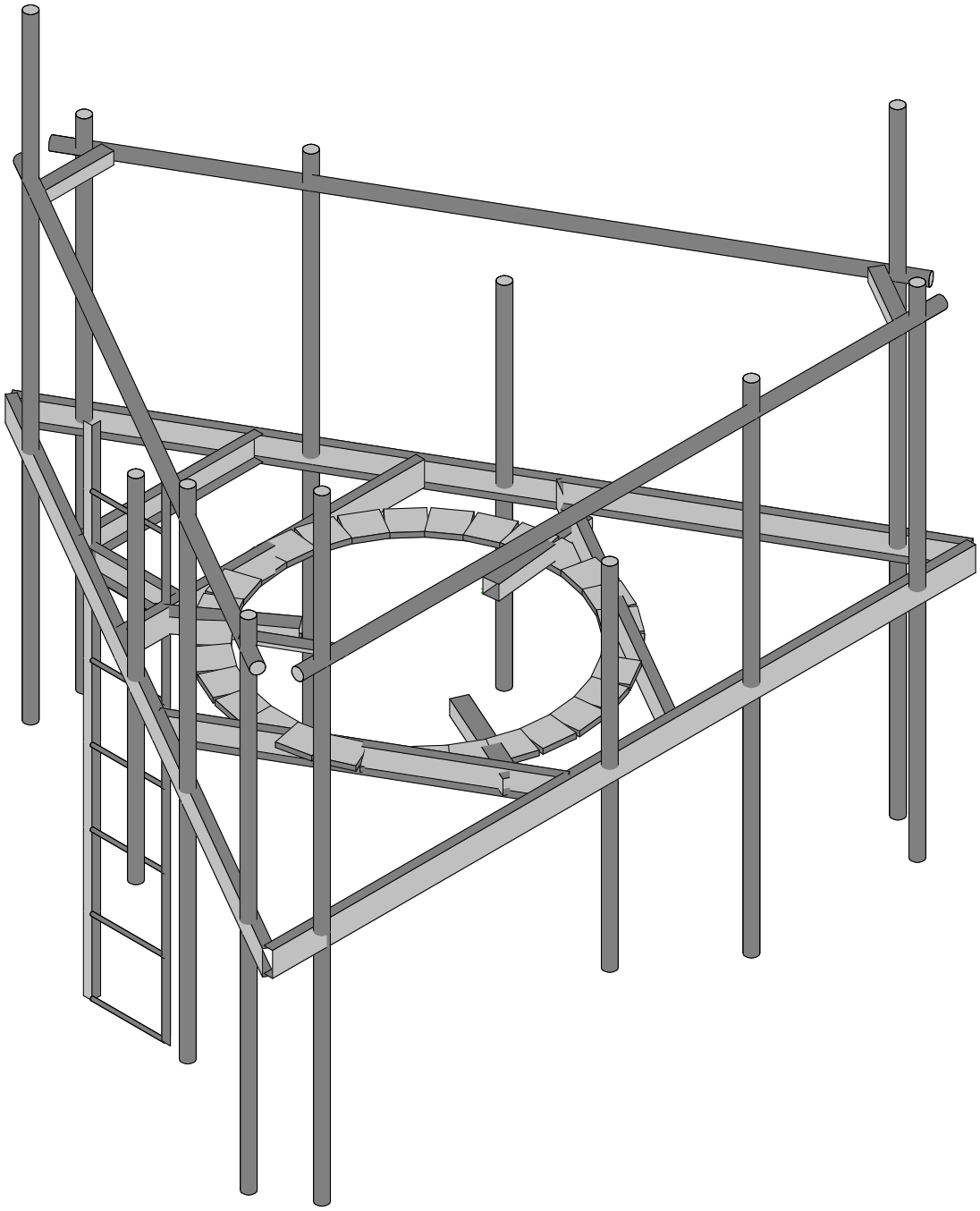
APPENDIX A

WIRE FRAME AND RENDERED MODELS



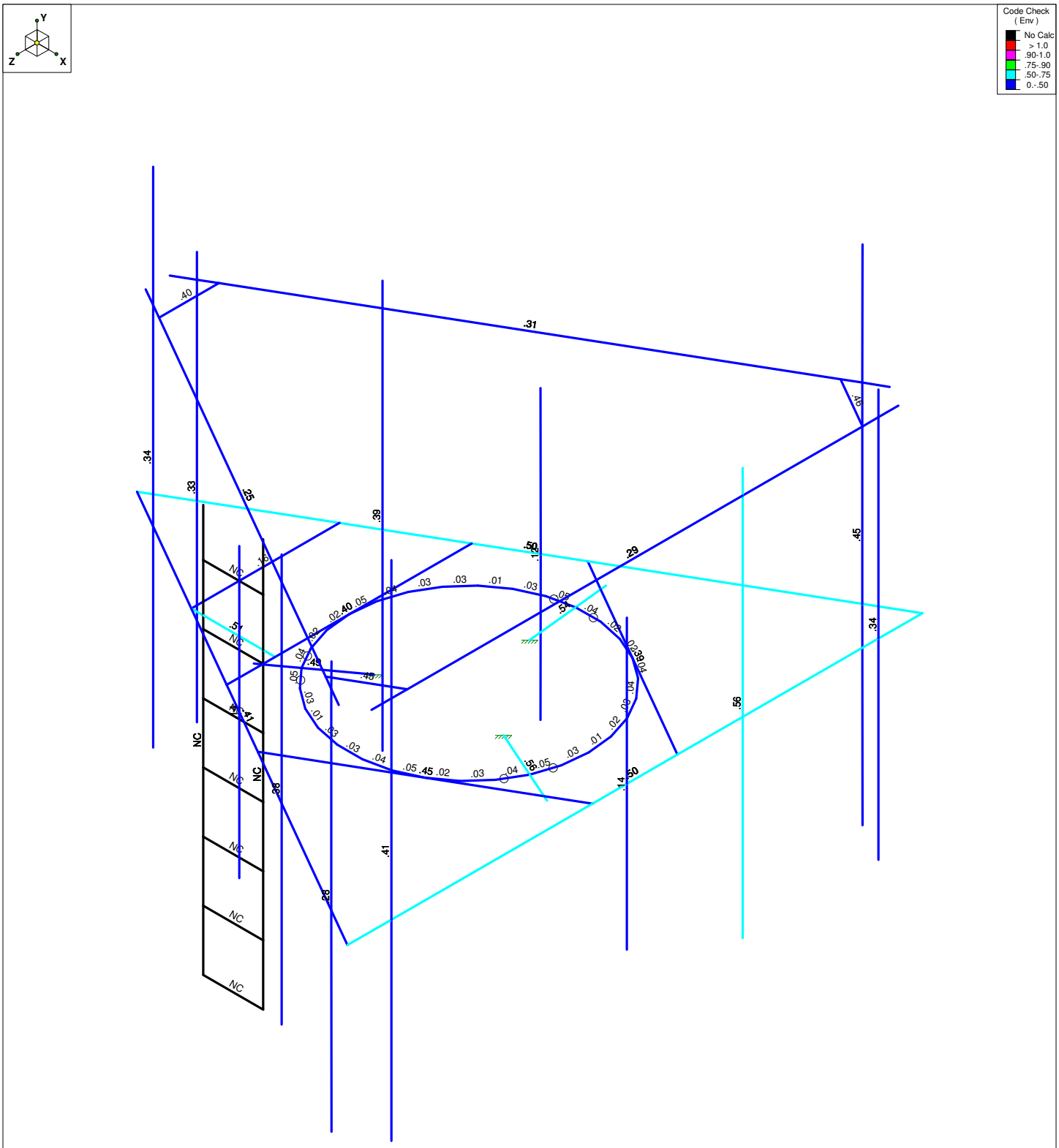
Loads: LC 2, 0.9D+1.0 0-Wind
Envelope Only Solution

Tower Engineering Profes...	HRT 094 943225 (BU 806369)	SK - 1
EBS		Sept 4, 2019 at 4:21 PM
TEP No. 25689.295247		Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...	HRT 094 943225 (BU 806369)	SK - 2
EBS		Sept 4, 2019 at 4:22 PM
TEP No. 25689.295247		Mount Rev H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...	HRT 094 943225 (BU 806369)	SK - 3
EBS		Sept 4, 2019 at 4:22 PM
TEP No. 25689.295247		Mount Rev H.r3d

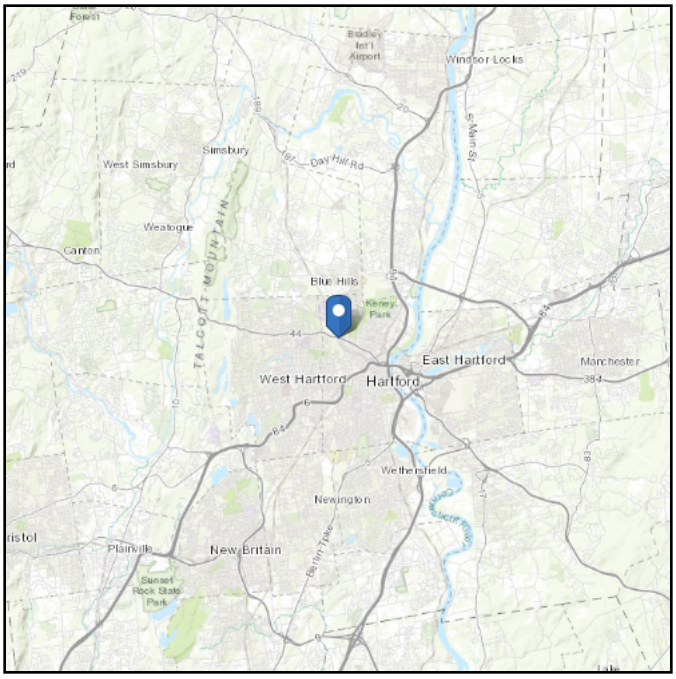
APPENDIX B

SOFTWARE INPUT CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-16	**Elevation:**	60.06 ft (NAVD 88)
Risk Category:	II	**Latitude:**	41.783781
Soil Class:	D - Default (see Section 11.4.3)	**Longitude:**	-72.703794



Wind

Results:

Wind Speed:	117 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph
Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4
Date Accessed:	Thu Aug 29 2019

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

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

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

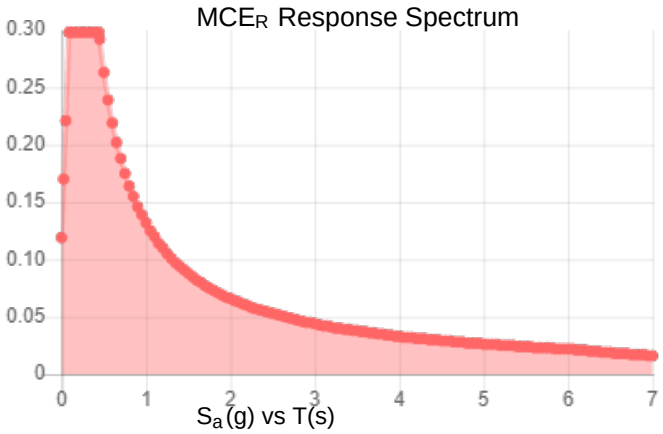
Seismic

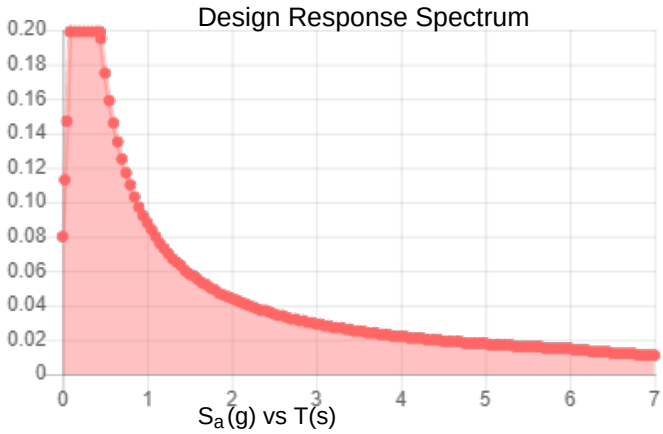
Site Soil Class: D - Default (see Section 11.4.3)

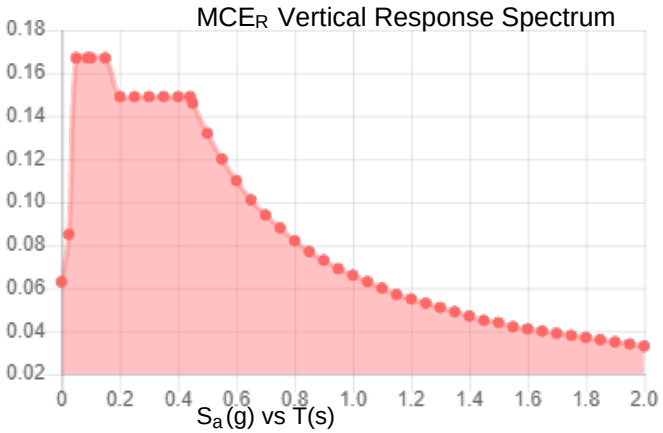
Results:

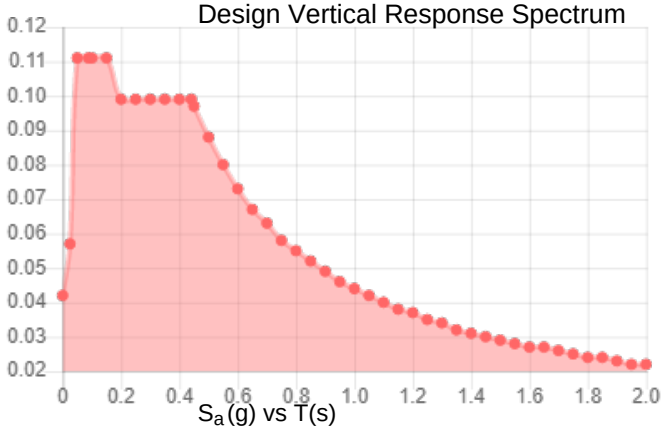
S_S :	0.186	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.1
F_v :	2.4	PGA_M :	0.16
S_{MS} :	0.298	F_{PGA} :	1.6
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.199	C_v :	0.7

Seismic Design Category B









Data Accessed: Thu Aug 29 2019

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 Aug 29 2019

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.

TOWER ENGINEERING PROFESSIONALS

HRT 094 943225 (BU 806369)

TEP No.	25689.295247	
Analysis By:	EBS	9/4/2019
Checked By:	NAM	9/4/2019

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

Wind Inputs:

Ult. Wind Velocity:	117.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.50	inches
Mount Centerline:	117.0	ft
Antenna Centerline:	120.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	60	ft

Wind Calculations:

K_{zt}:	1.000	Section 2.6.6
K_d:	0.950	
$K_{z\text{-}Mount}$:	1.034	Section 2.6.5.2
$K_{z\text{-}Antenna}$:	1.041	Section 2.6.5.2
K_{iz}:	1.136	Section 2.6.10
Ice Thickness:	1.705	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_zG_h)_{Mount}$:	34.33	**$(q_zG_h)_{Mount}$:**	6.27
$(q_zG_h)_{Antenna}$:	34.58	**$(q_zG_h)_{Antenna}$:**	6.32

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

Seismic Input

S_{DS}:	0.199	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:	0.055	Short Period Spectral Accel.

Seismic Design Force

Cs:	0.100	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1

TOWER ENGINEERING PROFESSIONALS

HRT 094 943225 (BU 806369)

TEP No.	25689.295247	
Analysis By:	EBS	9/4/2019
Checked By:	NAM	9/4/2019

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,%)
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	0.00	1	Flat	MP-1	0.67	4.83	
CCI ANTENNAS	DMP65R-BU8D	96.00	20.70	7.70	95.70	0.00	1	Flat	MP-2	0.25	8.25	
CCI ANTENNAS	TPA-65R-LCUUUU-H8	96.00	14.40	8.60	81.60	0.00	1	Flat	MP-4	2.92	6.96	
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	120.00	1	Flat	MP-5	0.67	4.83	
CCI ANTENNAS	DMP65R-BU6D	71.20	20.70	7.70	79.40	120.00	1	Flat	MP-6	0.25	6.18	
QUINTEL TECHNOLOGY	QS66512-3	72.00	12.00	9.60	105.00	120.00	1	Flat	MP-8	3.00	8.00	
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	240.00	1	Flat	MP-9	0.67	4.83	
CCI ANTENNAS	DMP65R-BU6D	71.20	20.70	7.70	79.40	240.00	1	Flat	MP-10	0.25	6.18	
QUINTEL TECHNOLOGY	QS66512-3	72.00	12.00	9.60	105.00	240.00	1	Flat	MP-12	3.00	8.00	
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	0.00	2	Flat	MP-1	3.00		
ERICSSON	RRUS 8843 B2/B66A_CCIV2	18.00	13.20	11.30	75.00	0.00	1	Flat	MP-1	1.50		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	0.00	1	Flat	MP-2	1.50		
ERICSSON	RRUS 8843 B2/B66A_CCIV2	18.00	13.20	11.30	75.00	0.00	1	Flat	MP-2	3.00		
RAYCAP	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	0.00	1	Round	MP-3	2.00		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	90.00	1	Flat	MP-3	1.00		
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	120.00	2	Flat	MP-5	3.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	120.00	1	Flat	MP-6	1.50		
ERICSSON	RRUS 8843 B2/B66A_CCIV2	18.00	13.20	11.30	75.00	120.00	1	Flat	MP-6	3.00		
RAYCAP	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	120.00	1	Round	MP-7	2.00		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	210.00	1	Flat	MP-7	1.00		
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	240.00	2	Flat	MP-9	3.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	240.00	1	Flat	MP-10	2.25		
ERICSSON	RRUS-32 B30	29.90	13.30	9.50	77.00	330.00	1	Flat	MP-11	1.00		
RAYCAP	DC6-48-60-0-8C-EV	31.40	10.24	18.28	26.20	240.00	1	Flat	MP-12	3.25		

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

(Global) Model Settings

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

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

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
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

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

Sept 4, 2019
4:24 PM
Checked By: NAM

(Global) Model Settings, Continued

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

Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	Hot Rolled Steel				
2	A36 Gr.36	0.625 SR	7	8.8	.009
3	A36 Gr.36	C5X6.7	8	56.2	.377
4	A36 Gr.36	L1.75X1.75X4	2	17	.047
5	A36 Gr.36	PL6x1	30	15.7	.32
6	A500 Gr.46	HSS3X3X5	3	5.4	.054
7	A53 Gr.B	L2.5x2.5x4	3	3.8	.015
8	A53 Gr.B	PIPE_2.0 Nominal	15	133.5	.488
9	Total HR Steel		68	240.2	1.31

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53-B-35	29000	11154	.3	.65	.49	35	1.5	63	1.2
7	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
8	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
9	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
10	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horiz.	C5X6.7	None	None	A36 Gr.36	Typical	1.97	.47	7.48	.055
2	Mount Pipes	PIPE_2.0 Nominal	None	None	A53 Gr.B	Typical	1.075	.666	.666	1.331

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
3	Support Arm	HSS3X3X5	None	None	A500 Gr.46	Typical	2.94	3.45	3.45	5.94
4	Internal	C5X6.7	None	None	A36 Gr.36	Typical	1.97	.47	7.48	.055
5	Ring Support	PL6x1	None	None	A36 Gr.36	Typical	6	.5	18	1.79
6	Ladder Legs	L1.75X1.75X4	None	None	A36 Gr.36	Typical	.813	.227	.227	.018
7	Ladder Rungs	0.625 SR	None	None	A36 Gr.36	Typical	.307	.007	.007	.015
8	Handrail	PIPE_2.0 Nominal	None	None	A53 Gr.B	Typical	1.075	.666	.666	1.331
9	Handrail Connections	L2.5x2.5x4	None	None	A53 Gr.B	Typical	1.19	.692	.692	.026

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	FF-H1	FF1	FF2			Face Horiz.	None	None	A36 Gr.36	Typical
2	SF1-H1	SF1-1	FF1			Face Horiz.	None	None	A36 Gr.36	Typical
3	SF2-H1	FF2	SF1-1			Face Horiz.	None	None	A36 Gr.36	Typical
4	GSI1	GSI1	GSI4		180	Internal	None	None	A36 Gr.36	Typical
5	GSI2	GSI5	GSI2		180	Internal	None	None	A36 Gr.36	Typical
6	GSI3	GSI3	GSI6		180	Internal	None	None	A36 Gr.36	Typical
7	I1	N103A	N104A			Internal	None	None	A36 Gr.36	Typical
8	I2	N103A	N105A			Internal	None	None	A36 Gr.36	Typical
9	LL-L	N153	N155			Ladder Legs	None	None	A36 Gr.36	Typical
10	LL-R	N152	N154		90	Ladder Legs	None	None	A36 Gr.36	Typical
11	LR-1	N155	N154			Ladder Rungs	None	None	A36 Gr.36	Typical
12	LR-2	N157	N156			Ladder Rungs	None	None	A36 Gr.36	Typical
13	LR-3	N159	N158			Ladder Rungs	None	None	A36 Gr.36	Typical
14	LR-4	N161	N160			Ladder Rungs	None	None	A36 Gr.36	Typical
15	LR-5	N163	N162			Ladder Rungs	None	None	A36 Gr.36	Typical
16	LR-6	N165	N164			Ladder Rungs	None	None	A36 Gr.36	Typical
17	LR-7	N167	N166			Ladder Rungs	None	None	A36 Gr.36	Typical
18	MP-1	N98A	N102A			Mount Pipes	None	None	A53 Gr.B	Typical
19	MP-2	N99A	N103B			Mount Pipes	None	None	A53 Gr.B	Typical
20	MP-3	N106	N107			Mount Pipes	None	None	A53 Gr.B	Typical
21	MP-4	N101A	N105B			Mount Pipes	None	None	A53 Gr.B	Typical
22	MP-5	N106C	N109			Mount Pipes	None	None	A53 Gr.B	Typical
23	MP-6	N107B	N110			Mount Pipes	None	None	A53 Gr.B	Typical
24	MP-7	N112	N113			Mount Pipes	None	None	A53 Gr.B	Typical
25	MP-8	N108	N111			Mount Pipes	None	None	A53 Gr.B	Typical
26	MP-9	N96	N99B			Mount Pipes	None	None	A53 Gr.B	Typical
27	MP-10	N97A	N100A			Mount Pipes	None	None	A53 Gr.B	Typical
28	MP-11	N102B	N103C			Mount Pipes	None	None	A53 Gr.B	Typical
29	MP-12	N98	N101			Mount Pipes	None	None	A53 Gr.B	Typical
30	CT-A1	CT1	CT2		90	Ring Support	None	None	A36 Gr.36	Typical
31	CT-A2	CT2	CT3		90	Ring Support	None	None	A36 Gr.36	Typical
32	CT-A3	CT3	CT4		90	Ring Support	None	None	A36 Gr.36	Typical
33	CT-A4	CT4	CT5		90	Ring Support	None	None	A36 Gr.36	Typical
34	CT-A5	CT5	CT6		90	Ring Support	None	None	A36 Gr.36	Typical
35	CT-A6	CT6	CT7		90	Ring Support	None	None	A36 Gr.36	Typical
36	CT-A7	CT7	CT8		90	Ring Support	None	None	A36 Gr.36	Typical
37	CT-A8	CT8	CT9		90	Ring Support	None	None	A36 Gr.36	Typical
38	CT-A9	CT9	CT10		90	Ring Support	None	None	A36 Gr.36	Typical
39	CT-A10	CT10	CT11		90	Ring Support	None	None	A36 Gr.36	Typical
40	CT-B1	CT11	CT12		90	Ring Support	None	None	A36 Gr.36	Typical
41	CT-B2	CT12	CT13		90	Ring Support	None	None	A36 Gr.36	Typical
42	CT-B3	CT13	CT14		90	Ring Support	None	None	A36 Gr.36	Typical
43	CT-B4	CT14	CT15		90	Ring Support	None	None	A36 Gr.36	Typical
44	CT-B5	CT15	CT16		90	Ring Support	None	None	A36 Gr.36	Typical
45	CT-B6	CT16	CT17		90	Ring Support	None	None	A36 Gr.36	Typical

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
46	CT-B7	CT17	CT18		90	Ring Support	None	None	A36 Gr.36	Typical
47	CT-B8	CT18	CT19		90	Ring Support	None	None	A36 Gr.36	Typical
48	CT-B9	CT19	CT20		90	Ring Support	None	None	A36 Gr.36	Typical
49	CT-B10	CT20	CT21		90	Ring Support	None	None	A36 Gr.36	Typical
50	CT-C1	CT21	CT22		90	Ring Support	None	None	A36 Gr.36	Typical
51	CT-C2	CT22	CT23		90	Ring Support	None	None	A36 Gr.36	Typical
52	CT-C3	CT23	CT24		90	Ring Support	None	None	A36 Gr.36	Typical
53	CT-C4	CT24	CT25		90	Ring Support	None	None	A36 Gr.36	Typical
54	CT-C5	CT25	CT26		90	Ring Support	None	None	A36 Gr.36	Typical
55	CT-C6	CT26	CT27		90	Ring Support	None	None	A36 Gr.36	Typical
56	CT-C7	CT27	CT28		90	Ring Support	None	None	A36 Gr.36	Typical
57	CT-C8	CT28	CT29		90	Ring Support	None	None	A36 Gr.36	Typical
58	CT-C9	CT29	CT30		90	Ring Support	None	None	A36 Gr.36	Typical
59	CT-C10	CT30	CT1		90	Ring Support	None	None	A36 Gr.36	Typical
60	SA1	SA1	SA4			Support Arm	None	None	A500 Gr...	Typical
61	SA2	SA2	SA5			Support Arm	None	None	A500 Gr...	Typical
62	SA3	SA3	SA6			Support Arm	None	None	A500 Gr...	Typical
63	HR-1	N115	N116			Handrail	None	None	A53 Gr.B	Typical
64	HR-2	N119	N120A			Handrail	None	None	A53 Gr.B	Typical
65	HR-3	N123A	N124A			Handrail	None	None	A53 Gr.B	Typical
66	HRC-1	N118	N121A		180	Handrail Connections	None	None	A53 Gr.B	Typical
67	HRC-2	N122B	N125		180	Handrail Connections	None	None	A53 Gr.B	Typical
68	HRC-3	N126	N117		180	Handrail Connections	None	None	A53 Gr.B	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	FF-H1						Yes	** NA **			None
2	SF1-H1						Yes	** NA **			None
3	SF2-H1						Yes	** NA **			None
4	GSI1						Yes	** NA **			None
5	GSI2						Yes	** NA **			None
6	GSI3						Yes	** NA **			None
7	I1						Yes	** NA **			None
8	I2						Yes	** NA **			None
9	LL-L						Yes	** NA **		Exclude	None
10	LL-R						Yes	** NA **		Exclude	None
11	LR-1						Yes	** NA **		Exclude	None
12	LR-2						Yes	** NA **		Exclude	None
13	LR-3						Yes	** NA **		Exclude	None
14	LR-4						Yes	** NA **		Exclude	None
15	LR-5						Yes	** NA **		Exclude	None
16	LR-6						Yes	** NA **		Exclude	None
17	LR-7						Yes	** NA **		Exclude	None
18	MP-1						Yes	** NA **			None
19	MP-2						Yes	** NA **			None
20	MP-3						Yes	** NA **			None
21	MP-4						Yes	** NA **			None
22	MP-5						Yes	** NA **			None
23	MP-6						Yes	** NA **			None
24	MP-7						Yes	** NA **			None
25	MP-8						Yes	** NA **			None
26	MP-9						Yes	** NA **			None
27	MP-10						Yes	** NA **			None
28	MP-11						Yes	** NA **			None
29	MP-12						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...
30	CT-A1						Yes	** NA **				None
31	CT-A2						Yes	** NA **				None
32	CT-A3	OOOOXO					Yes	** NA **				None
33	CT-A4		OOOOOO				Yes	** NA **				None
34	CT-A5						Yes	** NA **				None
35	CT-A6						Yes	** NA **				None
36	CT-A7						Yes	** NA **				None
37	CT-A8						Yes	** NA **				None
38	CT-A9						Yes	** NA **				None
39	CT-A10						Yes	** NA **				None
40	CT-B1						Yes	** NA **				None
41	CT-B2						Yes	** NA **				None
42	CT-B3	OOOOXO					Yes	** NA **				None
43	CT-B4		OOOOOO				Yes	** NA **				None
44	CT-B5						Yes	** NA **				None
45	CT-B6						Yes	** NA **				None
46	CT-B7						Yes	** NA **				None
47	CT-B8						Yes	** NA **				None
48	CT-B9						Yes	** NA **				None
49	CT-B10						Yes	** NA **				None
50	CT-C1						Yes	** NA **				None
51	CT-C2						Yes	** NA **				None
52	CT-C3	OOOOXO					Yes	** NA **				None
53	CT-C4		OOOOOO				Yes	** NA **				None
54	CT-C5						Yes	** NA **				None
55	CT-C6						Yes	** NA **				None
56	CT-C7						Yes	** NA **				None
57	CT-C8						Yes	** NA **				None
58	CT-C9						Yes	** NA **				None
59	CT-C10						Yes	** NA **				None
60	SA1						Yes	** NA **				None
61	SA2						Yes	** NA **				None
62	SA3						Yes	** NA **				None
63	HR-1						Yes	** NA **				None
64	HR-2						Yes	** NA **				None
65	HR-3						Yes	** NA **				None
66	HRC-1						Yes	** NA **				None
67	HRC-2						Yes	** NA **				None
68	HRC-3						Yes	** NA **				None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top...	Lcomp bot...	L-torq...	Kyy	Kzz	Cb	Functi...
1	FF-H1	Face Horiz.	12						.65	.65		Lateral
2	SF1-H1	Face Horiz.	12						.65	.65		Lateral
3	SF2-H1	Face Horiz.	12						.65	.65		Lateral
4	GSI1	Internal	5.113	2.557					.65	.65		Lateral
5	GSI2	Internal	5.113	2.557					.65	.65		Lateral
6	GSI3	Internal	5.113	2.557					.65	.65		Lateral
7	I1	Internal	3.093	2.557					.65	.65		Lateral
8	I2	Internal	1.75						.65	.65		Lateral
9	LL-L	Ladder Legs	8.5	6.5	6.5				2.1	2.1		Lateral
10	LL-R	Ladder Legs	8.5	6.5	6.5				2.1	2.1		Lateral
11	LR-1	Ladder Rungs	1.25						.65	.65		Lateral
12	LR-2	Ladder Rungs	1.25						.65	.65		Lateral
13	LR-3	Ladder Rungs	1.25						.65	.65		Lateral

Company : Tower Engineering Professionals
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Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top...	Lcomp bot...	L-torq...	Kyy	Kzz	Cb	Functi...
14	LR-4	Ladder Rungs	1.25						.65	.65		Lateral
15	LR-5	Ladder Rungs	1.25						.65	.65		Lateral
16	LR-6	Ladder Rungs	1.25						.65	.65		Lateral
17	LR-7	Ladder Rungs	1.25						.65	.65		Lateral
18	MP-1	Mount Pipes	8.5	Segment	Segment				2.1	2.1		Lateral
19	MP-2	Mount Pipes	8.5	Segment	Segment				2.1	2.1		Lateral
20	MP-3	Mount Pipes	6	Segment	Segment				2.1	2.1		Lateral
21	MP-4	Mount Pipes	10.5	Segment	Segment				2.1	2.1		Lateral
22	MP-5	Mount Pipes	8.5	Segment	Segment				2.1	2.1		Lateral
23	MP-6	Mount Pipes	8.5	Segment	Segment				2.1	2.1		Lateral
24	MP-7	Mount Pipes	6	Segment	Segment				2.1	2.1		Lateral
25	MP-8	Mount Pipes	10.5	Segment	Segment				2.1	2.1		Lateral
26	MP-9	Mount Pipes	8.5	Segment	Segment				2.1	2.1		Lateral
27	MP-10	Mount Pipes	8.5	Segment	Segment				2.1	2.1		Lateral
28	MP-11	Mount Pipes	6	Segment	Segment				2.1	2.1		Lateral
29	MP-12	Mount Pipes	10.5	Segment	Segment				2.1	2.1		Lateral
30	CT-A1	Ring Support	.523						.8	.65		Lateral
31	CT-A2	Ring Support	.523						.8	.65		Lateral
32	CT-A3	Ring Support	.523						.8	.65		Lateral
33	CT-A4	Ring Support	.523						.65	.65		Lateral
34	CT-A5	Ring Support	.523						.65	.65		Lateral
35	CT-A6	Ring Support	.523						.65	.65		Lateral
36	CT-A7	Ring Support	.523						.65	.65		Lateral
37	CT-A8	Ring Support	.523						.65	.65		Lateral
38	CT-A9	Ring Support	.523						.65	.65		Lateral
39	CT-A10	Ring Support	.523						.65	.65		Lateral
40	CT-B1	Ring Support	.523						.8	.65		Lateral
41	CT-B2	Ring Support	.523						.8	.65		Lateral
42	CT-B3	Ring Support	.523						.8	.65		Lateral
43	CT-B4	Ring Support	.523						.65	.65		Lateral
44	CT-B5	Ring Support	.523						.65	.65		Lateral
45	CT-B6	Ring Support	.523						.65	.65		Lateral
46	CT-B7	Ring Support	.523						.65	.65		Lateral
47	CT-B8	Ring Support	.523						.65	.65		Lateral
48	CT-B9	Ring Support	.523						.65	.65		Lateral
49	CT-B10	Ring Support	.523						.65	.65		Lateral
50	CT-C1	Ring Support	.523						.8	.65		Lateral
51	CT-C2	Ring Support	.523						.8	.65		Lateral
52	CT-C3	Ring Support	.523						.8	.65		Lateral
53	CT-C4	Ring Support	.523						.65	.65		Lateral
54	CT-C5	Ring Support	.523						.65	.65		Lateral
55	CT-C6	Ring Support	.523						.65	.65		Lateral
56	CT-C7	Ring Support	.523						.65	.65		Lateral
57	CT-C8	Ring Support	.523						.65	.65		Lateral
58	CT-C9	Ring Support	.523						.65	.65		Lateral
59	CT-C10	Ring Support	.523						.65	.65		Lateral
60	SA1	Support Arm	1.792	1.619					2.1	2.1		Lateral
61	SA2	Support Arm	1.792	1.619					2.1	2.1		Lateral
62	SA3	Support Arm	1.792	1.619					2.1	2.1		Lateral
63	HR-1	Handrail	11	9.5					1	1		Lateral
64	HR-2	Handrail	11	9.5					1	1		Lateral
65	HR-3	Handrail	11	9.5					1	1		Lateral
66	HRC-1	Handrail Connections	1.25						1	1		Lateral
67	HRC-2	Handrail Connections	1.25						1	1		Lateral
68	HRC-3	Handrail Connections	1.25						1	1		Lateral

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	SA1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Dead	None		-1			33		3	
2	0 Wind - No Ice	None					33	68		
3	30 Wind - No Ice	None					66	136		
4	45 Wind - No Ice	None					66	136		
5	60 Wind - No Ice	None					66	136		
6	90 Wind - No Ice	None					33	68		
7	120 Wind - No Ice	None					66	136		
8	135 Wind - No Ice	None					66	136		
9	150 Wind - No Ice	None					66	136		
10	180 Wind - No Ice	None					33	68		
11	210 Wind - No Ice	None					66	136		
12	225 Wind - No Ice	None					66	136		
13	240 Wind - No Ice	None					66	136		
14	270 Wind - No Ice	None					33	68		
15	300 Wind - No Ice	None					66	136		
16	315 Wind - No Ice	None					66	136		
17	330 Wind - No Ice	None					66	136		
18	Ice Weight	None					33	68	3	
19	0 Wind - Ice	None					33	68		
20	30 Wind - Ice	None					66	136		
21	45 Wind - Ice	None					66	136		
22	60 Wind - Ice	None					66	136		
23	90 Wind - Ice	None					33	68		
24	120 Wind - Ice	None					66	136		
25	135 Wind - Ice	None					66	136		
26	150 Wind - Ice	None					66	136		
27	180 Wind - Ice	None					33	68		
28	210 Wind - Ice	None					66	136		
29	225 Wind - Ice	None					66	136		
30	240 Wind - Ice	None					66	136		
31	270 Wind - Ice	None					33	68		
32	300 Wind - Ice	None					66	136		
33	315 Wind - Ice	None					66	136		
34	330 Wind - Ice	None					66	136		
35	Lm	None				1				
36	Lv	None				1				
37	Seismic Load X	ELX	-1				33			
38	Seismic Load Z	ELZ			-1		33			
39	BLC 1 Transient Area...	None						61		
40	BLC 18 Transient Are...	None						61		

Load Combinations

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
1	1.4D	Yes	Y		1	1.4																				
2	0.9D+1.0 0-Wind	Yes	Y		1	.9	2	1																		
3	0.9D+1.0 30-Wind	Yes	Y		1	.9	3	1																		
4	0.9D+1.0 45-Wind	Yes	Y		1	.9	4	1																		

Company : Tower Engineering Professionals
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Job Number : TEP No. 25689.295247
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Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
5	0.9D+1.0 60-Wind	Yes	Y		1	.9	5	1																		
6	0.9D+1.0 90-Wind	Yes	Y		1	.9	6	1																		
7	0.9D+1.0 120-Wind	Yes	Y		1	.9	7	1																		
8	0.9D+1.0 135-Wind	Yes	Y		1	.9	8	1																		
9	0.9D+1.0 150-Wind	Yes	Y		1	.9	9	1																		
10	0.9D+1.0 180-Wind	Yes	Y		1	.9	10	1																		
11	0.9D+1.0 210-Wind	Yes	Y		1	.9	11	1																		
12	0.9D+1.0 225-Wind	Yes	Y		1	.9	12	1																		
13	0.9D+1.0 240-Wind	Yes	Y		1	.9	13	1																		
14	0.9D+1.0 270-Wind	Yes	Y		1	.9	14	1																		
15	0.9D+1.0 300-Wind	Yes	Y		1	.9	15	1																		
16	0.9D+1.0 315-Wind	Yes	Y		1	.9	16	1																		
17	0.9D+1.0 330-Wind	Yes	Y		1	.9	17	1																		
18	1.2D+1.0 0-Wind	Yes	Y		1	1.2	2	1																		
19	1.2D+1.0 30-Wind	Yes	Y		1	1.2	3	1																		
20	1.2D+1.0 45-Wind	Yes	Y		1	1.2	4	1																		
21	1.2D+1.0 60-Wind	Yes	Y		1	1.2	5	1																		
22	1.2D+1.0 90-Wind	Yes	Y		1	1.2	6	1																		
23	1.2D+1.0 120-Wind	Yes	Y		1	1.2	7	1																		
24	1.2D+1.0 135-Wind	Yes	Y		1	1.2	8	1																		
25	1.2D+1.0 150-Wind	Yes	Y		1	1.2	9	1																		
26	1.2D+1.0 180-Wind	Yes	Y		1	1.2	10	1																		
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-Win...	Yes	Y		1	1.2	18	1	19	1																
35	1.2D+1.0Di+1.0 30-Wi...	Yes	Y		1	1.2	18	1	20	1																
36	1.2D+1.0Di+1.0 45-Wi...	Yes	Y		1	1.2	18	1	21	1																
37	1.2D+1.0Di+1.0 60-Wi...	Yes	Y		1	1.2	18	1	22	1																
38	1.2D+1.0Di+1.0 90-Wi...	Yes	Y		1	1.2	18	1	23	1																
39	1.2D+1.0Di+1.0 120-...	Yes	Y		1	1.2	18	1	24	1																
40	1.2D+1.0Di+1.0 135-...	Yes	Y		1	1.2	18	1	25	1																
41	1.2D+1.0Di+1.0 150-...	Yes	Y		1	1.2	18	1	26	1																
42	1.2D+1.0Di+1.0 180-...	Yes	Y		1	1.2	18	1	27	1																
43	1.2D+1.0Di+1.0 210-...	Yes	Y		1	1.2	18	1	28	1																
44	1.2D+1.0Di+1.0 225-...	Yes	Y		1	1.2	18	1	29	1																
45	1.2D+1.0Di+1.0 240-...	Yes	Y		1	1.2	18	1	30	1																
46	1.2D+1.0Di+1.0 270-...	Yes	Y		1	1.2	18	1	31	1																
47	1.2D+1.0Di+1.0 300-...	Yes	Y		1	1.2	18	1	32	1																
48	1.2D+1.0Di+1.0 315-...	Yes	Y		1	1.2	18	1	33	1																
49	1.2D+1.0Di+1.0 330-...	Yes	Y		1	1.2	18	1	34	1																
50	1.2D+1.5Lv	Yes	Y		36	1.5	1	1.2																		
51	1.2D+1.5Lm+1.0 0-Wi...	Yes	Y		1	1.2	2	.066	35	1.5																
52	1.2D+1.5Lm+1.0 30-...	Yes	Y		1	1.2	3	.066	35	1.5																
53	1.2D+1.5Lm+1.0 45-...	Yes	Y		1	1.2	4	.066	35	1.5																
54	1.2D+1.5Lm+1.0 60-...	Yes	Y		1	1.2	5	.066	35	1.5																
55	1.2D+1.5Lm+1.0 90-...	Yes	Y		1	1.2	6	.066	35	1.5																
56	1.2D+1.5Lm+1.0 120-...	Yes	Y		1	1.2	7	.066	35	1.5																
57	1.2D+1.5Lm+1.0 135-...	Yes	Y		1	1.2	8	.066	35	1.5																
58	1.2D+1.5Lm+1.0 150-...	Yes	Y		1	1.2	9	.066	35	1.5																
59	1.2D+1.5Lm+1.0 180-...	Yes	Y		1	1.2	10	.066	35	1.5																
60	1.2D+1.5Lm+1.0 210-...	Yes	Y		1	1.2	11	.066	35	1.5																
61	1.2D+1.5Lm+1.0 225-...	Yes	Y		1	1.2	12	.066	35	1.5																

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
62	1.2D+1.5Lm+1.0 240-...	Yes	Y		1	1.2	13	.066	35	1.5																
63	1.2D+1.5Lm+1.0 270-...	Yes	Y		1	1.2	14	.066	35	1.5																
64	1.2D+1.5Lm+1.0 300-...	Yes	Y		1	1.2	15	.066	35	1.5																
65	1.2D+1.5Lm+1.0 315-...	Yes	Y		1	1.2	16	.066	35	1.5																
66	1.2D+1.5Lm+1.0 330-...	Yes	Y		1	1.2	17	.066	35	1.5																
67	(1.2+0.2Sds)D+1.0 0 ...	Yes	Y		1	1.24	ELX	.1	0																	
68	(1.2+0.2Sds)D+1.0 30...	Yes	Y		1	1.24	ELX	.086	ELZ	.05																
69	(1.2+0.2Sds)D+1.0 45...	Yes	Y		1	1.24	ELX	.07	ELZ	.07																
70	(1.2+0.2Sds)D+1.0 60...	Yes	Y		1	1.24	ELX	.05	ELZ	.086																
71	(1.2+0.2Sds)D+1.0 90...	Yes	Y		1	1.24	0		ELZ	.1																
72	(1.2+0.2Sds)D+1.0 12...	Yes	Y		1	1.24	ELX	-.05	ELZ	.086																
73	(1.2+0.2Sds)D+1.0 13...	Yes	Y		1	1.24	ELX	-.07	ELZ	.07																
74	(1.2+0.2Sds)D+1.0 15...	Yes	Y		1	1.24	ELX	-.086	ELZ	.05																
75	(1.2+0.2Sds)D+1.0 18...	Yes	Y		1	1.24	ELX	-.1	0																	
76	(1.2+0.2Sds)D+1.0 21...	Yes	Y		1	1.24	ELX	-.086	ELZ	-.05																
77	(1.2+0.2Sds)D+1.0 22...	Yes	Y		1	1.24	ELX	-.07	ELZ	-.07																
78	(1.2+0.2Sds)D+1.0 24...	Yes	Y		1	1.24	ELX	-.05	ELZ	-.086																
79	(1.2+0.2Sds)D+1.0 27...	Yes	Y		1	1.24	0		ELZ	-.1																
80	(1.2+0.2Sds)D+1.0 30...	Yes	Y		1	1.24	ELX	.05	ELZ	-.086																
81	(1.2+0.2Sds)D+1.0 31...	Yes	Y		1	1.24	ELX	.07	ELZ	-.07																
82	(1.2+0.2Sds)D+1.0 33...	Yes	Y		1	1.24	ELX	.086	ELZ	-.05																
83	(0.9-0.2Sds)*DL+1.0 0...	Yes	Y		1	.86	ELX	.1	0																	
84	(0.9-0.2Sds)*DL+1.0 3...	Yes	Y		1	.86	ELX	.086	ELZ	.05																
85	(0.9-0.2Sds)*DL+1.0 ...	Yes	Y		1	.86	ELX	.07	ELZ	.07																
86	(0.9-0.2Sds)*DL+1.0 6...	Yes	Y		1	.86	ELX	.05	ELZ	.086																
87	(0.9-0.2Sds)*DL+1.0 9...	Yes	Y		1	.86	0		ELZ	.1																
88	(0.9-0.2Sds)*DL+1.0 1...	Yes	Y		1	.86	ELX	-.05	ELZ	.086																
89	(0.9-0.2Sds)*DL+1.0 1...	Yes	Y		1	.86	ELX	-.07	ELZ	.07																
90	(0.9-0.2Sds)*DL+1.0 1...	Yes	Y		1	.86	ELX	-.086	ELZ	.05																
91	(0.9-0.2Sds)*DL+1.0 1...	Yes	Y		1	.86	ELX	-.1	0																	
92	(0.9-0.2Sds)*DL+1.0 2...	Yes	Y		1	.86	ELX	-.086	ELZ	-.05																
93	(0.9-0.2Sds)*DL+1.0 2...	Yes	Y		1	.86	ELX	-.07	ELZ	-.07																
94	(0.9-0.2Sds)*DL+1.0 2...	Yes	Y		1	.86	ELX	-.05	ELZ	-.086																
95	(0.9-0.2Sds)*DL+1.0 2...	Yes	Y		1	.86	0		ELZ	-.1																
96	(0.9-0.2Sds)*DL+1.0 3...	Yes	Y		1	.86	ELX	.05	ELZ	-.086																
97	(0.9-0.2Sds)*DL+1.0 3...	Yes	Y		1	.86	ELX	.07	ELZ	-.07																
98	(0.9-0.2Sds)*DL+1.0 3...	Yes	Y		1	.86	ELX	.086	ELZ	-.05																

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Dia...
1	SA4	2.935923	0	1.307157	0	
2	SA5	-0.33593	0	-3.196163	0	
3	SA6	-2.599993	0	1.889006	0	
4	GSI1	3.464102	0	0.886751	0	
5	GSI2	3.464102	0	-0.886751	0	
6	GSI3	-2.5	0	2.556624	0	
7	GSI4	-0.964102	0	3.443376	0	
8	GSI5	-0.964102	0	-3.443376	0	
9	GSI6	-2.5	0	-2.556624	0	
10	FF1	3.464102	0	-6.	0	
11	FF2	3.464102	0	6.	0	
12	SF1-1	-6.928203	0	0.	0	
13	CT1	2.445369	0	-0.519779	0	
14	CT2	2.500001	0	-0.	0	
15	CT3	2.445365	0	0.519778	0	

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Dia...
16	CT4	2.28386	0	1.01684	0	
17	CT5	2.022545	0	1.46946	0	
18	CT6	1.672806	0	1.85788	0	
19	CT7	1.249984	0	2.165073	0	
20	CT8	0.77254	0	2.377637	0	
21	CT9	0.261321	0	2.4863	0	
22	CT10	-0.261319	0	2.486303	0	
23	CT11	-0.772541	0	2.377638	0	
24	CT12	-1.250004	0	2.165062	0	
25	CT13	-1.672825	0	1.857858	0	
26	CT14	-2.022539	0	1.469461	0	
27	CT15	-2.283864	0	1.016843	0	
28	CT16	-2.445369	0	0.519779	0	
29	CT17	-2.5	0	0.000011	0	
30	CT18	-2.445365	0	-0.519778	0	
31	CT19	-2.28386	0	-1.01684	0	
32	CT20	-2.022545	0	-1.46946	0	
33	CT21	-1.672824	0	-1.85786	0	
34	CT22	-1.249999	0	-2.165062	0	
35	CT23	-0.77254	0	-2.377637	0	
36	CT24	-0.261321	0	-2.4863	0	
37	CT25	0.261319	0	-2.486303	0	
38	CT26	0.772572	0	-2.377632	0	
39	CT27	1.249997	0	-2.165065	0	
40	CT28	1.672825	0	-1.857858	0	
41	CT29	2.022539	0	-1.469461	0	
42	CT30	2.283864	0	-1.016843	0	
43	N97	3.464102	0	-5.083334	0	
44	N99	3.464102	0	5.083333	0	
45	N100	-6.134346	0	-0.458333	0	
46	N102	2.670245	0	-5.541667	0	
47	N103	2.670246	0	5.541667	0	
48	N105	-6.134346	0	0.458334	0	
49	N103A	-4.25	0	1.546261	0	
50	N104A	-4.25	0	-1.546261	0	
51	N105A	-2.5	0	1.546261	0	
52	N120	2.823011	0	1.256885	0	
53	N121	-0.323011	0	-3.073242	0	
54	N122	-2.5	0	1.816356	0	
55	N123	3.464102	0	-2.250033	0	
56	N124	3.464102	0	0.1667	0	
57	N98A	3.464102	4.5	-5.083483	0	
58	N99A	3.464102	4.5	-2.25015	0	
59	N101A	3.464102	6.499997	5.083483	0	
60	N102A	3.464102	-4	-5.083483	0	
61	N103B	3.464102	-4	-2.25015	0	
62	N105B	3.464102	-4.000003	5.083483	0	
63	N106	3.464102	3.000003	0.166517	0	
64	N107	3.464102	-2.999997	0.166517	0	
65	SA1	1.299154	0	0.578421	0	
66	SA2	-0.14865	0	-1.414311	0	
67	SA3	-1.150504	0	0.83589	0	
68	N106A	0.216535	0	4.125017	0	
69	N122A	-3.680637	0	-1.874983	0	
70	N95	-1.587684	0	-3.08335	0	
71	N96	-6.134477	4.5	-0.458258	0	
72	N97A	-3.680738	4.5	-1.874925	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Dia...
73	N98	2.670375	6.499997	-5.541742	0	
74	N99B	-6.134477	-4	-0.458258	0	
75	N100A	-3.680738	-4	-1.874925	0	
76	N101	2.670375	-4.000003	-5.541742	0	
77	N102B	-1.587843	3.000003	-3.083258	0	
78	N103C	-1.587843	-2.999997	-3.083258	0	
79	N105C	-1.876417	0	2.91665	0	
80	N106C	2.670375	4.5	5.541742	0	
81	N107B	0.216636	4.5	4.125075	0	
82	N108	-6.134477	6.499997	0.458258	0	
83	N109	2.670375	-4	5.541742	0	
84	N110	0.216636	-4	4.125075	0	
85	N111	-6.134477	-4.000003	0.458258	0	
86	N112	-1.876258	3.000003	2.916742	0	
87	N113	-1.876258	-2.999997	2.916742	0	
88	N152	-2.75	2	1.546264	0	
89	N153	-4.	2	1.546264	0	
90	N154	-2.75	-6.5	1.546264	0	
91	N155	-4.	-6.5	1.546264	0	
92	N156	-2.75	-5.25	1.546264	0	
93	N157	-4.	-5.25	1.546264	0	
94	N158	-2.75	-4	1.546264	0	
95	N159	-4.	-4	1.546264	0	
96	N160	-2.75	-2.75	1.546264	0	
97	N161	-4.	-2.75	1.546264	0	
98	N162	-2.75	-1.5	1.546264	0	
99	N163	-4.	-1.5	1.546264	0	
100	N164	-2.75	-.25	1.546264	0	
101	N165	-4.	-.25	1.546264	0	
102	N166	-2.75	1	1.546264	0	
103	N167	-4.	1	1.546264	0	
104	N106B	-2.75	0	1.546264	0	
105	N107A	-4.	0	1.546264	0	
106	N106D	3.464102	4	-5.083334	0	
107	N107C	3.464102	4	5.083333	0	
108	N108A	-6.134346	4	-0.458333	0	
109	N109A	2.670245	4	-5.541667	0	
110	N110A	2.670246	4	5.541667	0	
111	N111A	-6.134346	4	0.458334	0	
112	N112A	3.464102	4	-2.250033	0	
113	N113A	0.216535	4	4.125017	0	
114	N114	-3.680637	4	-1.874983	0	
115	N115	3.464102	4	-5.5	0	
116	N116	3.464102	4	5.5	0	
117	N117	3.464102	4	-4.75	0	
118	N118	3.464102	4	4.75	0	
119	N119	3.031089	4	5.75	0	
120	N120A	-6.49519	4	0.25	0	
121	N121A	2.38157	4	5.375	0	
122	N122B	-5.845671	4	0.625	0	
123	N123A	-6.495191	4	-0.25	0	
124	N124A	3.031089	4	-5.75	0	
125	N125	-5.845672	4	-0.625	0	
126	N126	2.38157	4	-5.375	0	

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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Joint Loads and Enforced Displacements (BLC 35 : Lm)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft,...
1	N97	L	Y	-.25

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	FF1	L	Y	-.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Y	-.018	.667
2	MP-2	Y	-.048	.25
3	MP-4	Y	-.041	2.917
4	MP-5	Y	-.018	.667
5	MP-6	Y	-.04	.25
6	MP-8	Y	-.052	3
7	MP-9	Y	-.018	.667
8	MP-10	Y	-.04	.25
9	MP-12	Y	-.052	3
10	MP-1	Y	-.028	3
11	MP-1	Y	-.075	1.5
12	MP-2	Y	-.071	1.5
13	MP-2	Y	-.075	3
14	MP-3	Y	-.033	2
15	MP-3	Y	-.077	1
16	MP-5	Y	-.028	3
17	MP-6	Y	-.071	1.5
18	MP-6	Y	-.075	3
19	MP-7	Y	-.033	2
20	MP-7	Y	-.077	1
21	MP-9	Y	-.028	3
22	MP-10	Y	-.071	2.25
23	MP-11	Y	-.077	1
24	MP-12	Y	-.026	3.25
25	MP-1	Y	-.018	4.833
26	MP-2	Y	-.048	8.25
27	MP-4	Y	-.041	6.958
28	MP-5	Y	-.018	4.833
29	MP-6	Y	-.04	6.183
30	MP-8	Y	-.052	8
31	MP-9	Y	-.018	4.833
32	MP-10	Y	-.04	6.183
33	MP-12	Y	-.052	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.086	.667
2	MP-2	X	-.278	.25
3	MP-4	X	-.185	2.917
4	MP-5	X	-.056	.667
5	MP-6	X	-.115	.25
6	MP-8	X	-.055	3
7	MP-9	X	-.056	.667
8	MP-10	X	-.115	.25
9	MP-12	X	-.055	3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP-1	X	-.069	3
11	MP-1	X	-.062	1.5
12	MP-2	X	-.061	1.5
13	MP-2	X	-.062	3
14	MP-3	X	-.038	2
15	MP-3	X	-.075	1
16	MP-5	X	-.033	3
17	MP-6	X	-.048	1.5
18	MP-6	X	-.055	3
19	MP-7	X	-.038	2
20	MP-7	X	-.096	1
21	MP-9	X	-.033	3
22	MP-10	X	-.048	2.25
23	MP-11	X	-.096	1
24	MP-12	X	-.133	3.25
25	MP-1	X	-.086	4.833
26	MP-2	X	-.278	8.25
27	MP-4	X	-.185	6.958
28	MP-5	X	-.056	4.833
29	MP-6	X	-.115	6.183
30	MP-8	X	-.055	8
31	MP-9	X	-.056	4.833
32	MP-10	X	-.115	6.183
33	MP-12	X	-.055	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.066	.667
2	MP-2	X	-.208	.25
3	MP-4	X	-.144	2.917
4	MP-5	X	-.039	.667
5	MP-6	X	-.076	.25
6	MP-8	X	-.045	3
7	MP-9	X	-.066	.667
8	MP-10	X	-.147	.25
9	MP-12	X	-.052	3
10	MP-1	X	-.049	3
11	MP-1	X	-.051	1.5
12	MP-2	X	-.049	1.5
13	MP-2	X	-.051	3
14	MP-3	X	-.033	2
15	MP-3	X	-.071	1
16	MP-5	X	-.019	3
17	MP-6	X	-.038	1.5
18	MP-6	X	-.046	3
19	MP-7	X	-.033	2
20	MP-7	X	-.089	1
21	MP-9	X	-.049	3
22	MP-10	X	-.049	2.25
23	MP-11	X	-.071	1
24	MP-12	X	-.088	3.25
25	MP-1	X	-.066	4.833
26	MP-2	X	-.208	8.25
27	MP-4	X	-.144	6.958
28	MP-5	X	-.039	4.833
29	MP-6	X	-.076	6.183

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
30	MP-8	X	-.045	8
31	MP-9	X	-.066	4.833
32	MP-10	X	-.147	6.183
33	MP-12	X	-.052	8
34	MP-1	Z	-.038	.667
35	MP-2	Z	-.12	.25
36	MP-4	Z	-.083	2.917
37	MP-5	Z	-.023	.667
38	MP-6	Z	-.044	.25
39	MP-8	Z	-.026	3
40	MP-9	Z	-.038	.667
41	MP-10	Z	-.085	.25
42	MP-12	Z	-.03	3
43	MP-1	Z	-.028	3
44	MP-1	Z	-.03	1.5
45	MP-2	Z	-.028	1.5
46	MP-2	Z	-.03	3
47	MP-3	Z	-.019	2
48	MP-3	Z	-.041	1
49	MP-5	Z	-.011	3
50	MP-6	Z	-.022	1.5
51	MP-6	Z	-.026	3
52	MP-7	Z	-.019	2
53	MP-7	Z	-.052	1
54	MP-9	Z	-.028	3
55	MP-10	Z	-.028	2.25
56	MP-11	Z	-.041	1
57	MP-12	Z	-.051	3.25
58	MP-1	Z	-.038	4.833
59	MP-2	Z	-.12	8.25
60	MP-4	Z	-.083	6.958
61	MP-5	Z	-.023	4.833
62	MP-6	Z	-.044	6.183
63	MP-8	Z	-.026	8
64	MP-9	Z	-.038	4.833
65	MP-10	Z	-.085	6.183
66	MP-12	Z	-.03	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.046	.667
2	MP-2	X	-.143	.25
3	MP-4	X	-.104	2.917
4	MP-5	X	-.034	.667
5	MP-6	X	-.067	.25
6	MP-8	X	-.038	3
7	MP-9	X	-.059	.667
8	MP-10	X	-.135	.25
9	MP-12	X	-.044	3
10	MP-1	X	-.032	3
11	MP-1	X	-.04	1.5
12	MP-2	X	-.037	1.5
13	MP-2	X	-.04	3
14	MP-3	X	-.027	2
15	MP-3	X	-.063	1
16	MP-5	X	-.018	3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP-6	X	-.032	1.5
18	MP-6	X	-.038	3
19	MP-7	X	-.027	2
20	MP-7	X	-.072	1
21	MP-9	X	-.046	3
22	MP-10	X	-.042	2.25
23	MP-11	X	-.055	1
24	MP-12	X	-.063	3.25
25	MP-1	X	-.046	4.833
26	MP-2	X	-.143	8.25
27	MP-4	X	-.104	6.958
28	MP-5	X	-.034	4.833
29	MP-6	X	-.067	6.183
30	MP-8	X	-.038	8
31	MP-9	X	-.059	4.833
32	MP-10	X	-.135	6.183
33	MP-12	X	-.044	8
34	MP-1	Z	-.046	.667
35	MP-2	Z	-.143	.25
36	MP-4	Z	-.104	2.917
37	MP-5	Z	-.034	.667
38	MP-6	Z	-.067	.25
39	MP-8	Z	-.038	3
40	MP-9	Z	-.059	.667
41	MP-10	Z	-.135	.25
42	MP-12	Z	-.044	3
43	MP-1	Z	-.032	3
44	MP-1	Z	-.04	1.5
45	MP-2	Z	-.037	1.5
46	MP-2	Z	-.04	3
47	MP-3	Z	-.027	2
48	MP-3	Z	-.063	1
49	MP-5	Z	-.018	3
50	MP-6	Z	-.032	1.5
51	MP-6	Z	-.038	3
52	MP-7	Z	-.027	2
53	MP-7	Z	-.072	1
54	MP-9	Z	-.046	3
55	MP-10	Z	-.042	2.25
56	MP-11	Z	-.055	1
57	MP-12	Z	-.063	3.25
58	MP-1	Z	-.046	4.833
59	MP-2	Z	-.143	8.25
60	MP-4	Z	-.104	6.958
61	MP-5	Z	-.034	4.833
62	MP-6	Z	-.067	6.183
63	MP-8	Z	-.038	8
64	MP-9	Z	-.059	4.833
65	MP-10	Z	-.135	6.183
66	MP-12	Z	-.044	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.028	.667
2	MP-2	X	-.082	.25
3	MP-4	X	-.064	2.917

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP-5	X	-.028	.667
5	MP-6	X	-.057	.25
6	MP-8	X	-.027	3
7	MP-9	X	-.043	.667
8	MP-10	X	-.099	.25
9	MP-12	X	-.031	3
10	MP-1	X	-.017	3
11	MP-1	X	-.027	1.5
12	MP-2	X	-.024	1.5
13	MP-2	X	-.027	3
14	MP-3	X	-.019	2
15	MP-3	X	-.048	1
16	MP-5	X	-.017	3
17	MP-6	X	-.024	1.5
18	MP-6	X	-.027	3
19	MP-7	X	-.019	2
20	MP-7	X	-.048	1
21	MP-9	X	-.034	3
22	MP-10	X	-.031	2.25
23	MP-11	X	-.038	1
24	MP-12	X	-.043	3.25
25	MP-1	X	-.028	4.833
26	MP-2	X	-.082	8.25
27	MP-4	X	-.064	6.958
28	MP-5	X	-.028	4.833
29	MP-6	X	-.057	6.183
30	MP-8	X	-.027	8
31	MP-9	X	-.043	4.833
32	MP-10	X	-.099	6.183
33	MP-12	X	-.031	8
34	MP-1	Z	-.048	.667
35	MP-2	Z	-.142	.25
36	MP-4	Z	-.111	2.917
37	MP-5	Z	-.048	.667
38	MP-6	Z	-.1	.25
39	MP-8	Z	-.048	3
40	MP-9	Z	-.074	.667
41	MP-10	Z	-.171	.25
42	MP-12	Z	-.054	3
43	MP-1	Z	-.029	3
44	MP-1	Z	-.048	1.5
45	MP-2	Z	-.042	1.5
46	MP-2	Z	-.048	3
47	MP-3	Z	-.033	2
48	MP-3	Z	-.083	1
49	MP-5	Z	-.029	3
50	MP-6	Z	-.042	1.5
51	MP-6	Z	-.048	3
52	MP-7	Z	-.033	2
53	MP-7	Z	-.083	1
54	MP-9	Z	-.06	3
55	MP-10	Z	-.053	2.25
56	MP-11	Z	-.065	1
57	MP-12	Z	-.074	3.25
58	MP-1	Z	-.048	4.833
59	MP-2	Z	-.142	8.25
60	MP-4	Z	-.111	6.958

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
61	MP-5	Z	-.048	4.833
62	MP-6	Z	-.1	6.183
63	MP-8	Z	-.048	8
64	MP-9	Z	-.074	4.833
65	MP-10	Z	-.171	6.183
66	MP-12	Z	-.054	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.046	.667
2	MP-2	Z	-.126	.25
3	MP-4	Z	-.109	2.917
4	MP-5	Z	-.076	.667
5	MP-6	Z	-.17	.25
6	MP-8	Z	-.06	3
7	MP-9	Z	-.076	.667
8	MP-10	Z	-.17	.25
9	MP-12	Z	-.06	3
10	MP-1	Z	-.022	3
11	MP-1	Z	-.053	1.5
12	MP-2	Z	-.044	1.5
13	MP-2	Z	-.053	3
14	MP-3	Z	-.038	2
15	MP-3	Z	-.103	1
16	MP-5	Z	-.057	3
17	MP-6	Z	-.057	1.5
18	MP-6	Z	-.059	3
19	MP-7	Z	-.038	2
20	MP-7	Z	-.082	1
21	MP-9	Z	-.057	3
22	MP-10	Z	-.057	2.25
23	MP-11	Z	-.082	1
24	MP-12	Z	-.101	3.25
25	MP-1	Z	-.046	4.833
26	MP-2	Z	-.126	8.25
27	MP-4	Z	-.109	6.958
28	MP-5	Z	-.076	4.833
29	MP-6	Z	-.17	6.183
30	MP-8	Z	-.06	8
31	MP-9	Z	-.076	4.833
32	MP-10	Z	-.17	6.183
33	MP-12	Z	-.06	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.028	.667
2	MP-2	X	.082	.25
3	MP-4	X	.064	2.917
4	MP-5	X	.043	.667
5	MP-6	X	.099	.25
6	MP-8	X	.031	3
7	MP-9	X	.028	.667
8	MP-10	X	.057	.25
9	MP-12	X	.027	3
10	MP-1	X	.017	3
11	MP-1	X	.027	1.5

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP-2	X	.024	1.5
13	MP-2	X	.027	3
14	MP-3	X	.019	2
15	MP-3	X	.048	1
16	MP-5	X	.034	3
17	MP-6	X	.031	1.5
18	MP-6	X	.031	3
19	MP-7	X	.019	2
20	MP-7	X	.038	1
21	MP-9	X	.017	3
22	MP-10	X	.024	2.25
23	MP-11	X	.048	1
24	MP-12	X	.066	3.25
25	MP-1	X	.028	4.833
26	MP-2	X	.082	8.25
27	MP-4	X	.064	6.958
28	MP-5	X	.043	4.833
29	MP-6	X	.099	6.183
30	MP-8	X	.031	8
31	MP-9	X	.028	4.833
32	MP-10	X	.057	6.183
33	MP-12	X	.027	8
34	MP-1	Z	-.048	.667
35	MP-2	Z	-.142	.25
36	MP-4	Z	-.111	2.917
37	MP-5	Z	-.074	.667
38	MP-6	Z	-.171	.25
39	MP-8	Z	-.054	3
40	MP-9	Z	-.048	.667
41	MP-10	Z	-.1	.25
42	MP-12	Z	-.048	3
43	MP-1	Z	-.029	3
44	MP-1	Z	-.048	1.5
45	MP-2	Z	-.042	1.5
46	MP-2	Z	-.048	3
47	MP-3	Z	-.033	2
48	MP-3	Z	-.083	1
49	MP-5	Z	-.06	3
50	MP-6	Z	-.053	1.5
51	MP-6	Z	-.053	3
52	MP-7	Z	-.033	2
53	MP-7	Z	-.065	1
54	MP-9	Z	-.029	3
55	MP-10	Z	-.042	2.25
56	MP-11	Z	-.083	1
57	MP-12	Z	-.115	3.25
58	MP-1	Z	-.048	4.833
59	MP-2	Z	-.142	8.25
60	MP-4	Z	-.111	6.958
61	MP-5	Z	-.074	4.833
62	MP-6	Z	-.171	6.183
63	MP-8	Z	-.054	8
64	MP-9	Z	-.048	4.833
65	MP-10	Z	-.1	6.183
66	MP-12	Z	-.048	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.046	.667
2	MP-2	X	.143	.25
3	MP-4	X	.104	2.917
4	MP-5	X	.059	.667
5	MP-6	X	.135	.25
6	MP-8	X	.044	3
7	MP-9	X	.034	.667
8	MP-10	X	.067	.25
9	MP-12	X	.038	3
10	MP-1	X	.032	3
11	MP-1	X	.04	1.5
12	MP-2	X	.037	1.5
13	MP-2	X	.04	3
14	MP-3	X	.027	2
15	MP-3	X	.063	1
16	MP-5	X	.046	3
17	MP-6	X	.042	1.5
18	MP-6	X	.043	3
19	MP-7	X	.027	2
20	MP-7	X	.055	1
21	MP-9	X	.018	3
22	MP-10	X	.032	2.25
23	MP-11	X	.072	1
24	MP-12	X	.102	3.25
25	MP-1	X	.046	4.833
26	MP-2	X	.143	8.25
27	MP-4	X	.104	6.958
28	MP-5	X	.059	4.833
29	MP-6	X	.135	6.183
30	MP-8	X	.044	8
31	MP-9	X	.034	4.833
32	MP-10	X	.067	6.183
33	MP-12	X	.038	8
34	MP-1	Z	-.046	.667
35	MP-2	Z	-.143	.25
36	MP-4	Z	-.104	2.917
37	MP-5	Z	-.059	.667
38	MP-6	Z	-.135	.25
39	MP-8	Z	-.044	3
40	MP-9	Z	-.034	.667
41	MP-10	Z	-.067	.25
42	MP-12	Z	-.038	3
43	MP-1	Z	-.032	3
44	MP-1	Z	-.04	1.5
45	MP-2	Z	-.037	1.5
46	MP-2	Z	-.04	3
47	MP-3	Z	-.027	2
48	MP-3	Z	-.063	1
49	MP-5	Z	-.046	3
50	MP-6	Z	-.042	1.5
51	MP-6	Z	-.043	3
52	MP-7	Z	-.027	2
53	MP-7	Z	-.055	1
54	MP-9	Z	-.018	3
55	MP-10	Z	-.032	2.25
56	MP-11	Z	-.072	1
57	MP-12	Z	-.102	3.25

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP-1	Z	-.046	4.833
59	MP-2	Z	-.143	8.25
60	MP-4	Z	-.104	6.958
61	MP-5	Z	-.059	4.833
62	MP-6	Z	-.135	6.183
63	MP-8	Z	-.044	8
64	MP-9	Z	-.034	4.833
65	MP-10	Z	-.067	6.183
66	MP-12	Z	-.038	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.066	.667
2	MP-2	X	.208	.25
3	MP-4	X	.144	2.917
4	MP-5	X	.066	.667
5	MP-6	X	.147	.25
6	MP-8	X	.052	3
7	MP-9	X	.039	.667
8	MP-10	X	.076	.25
9	MP-12	X	.045	3
10	MP-1	X	.049	3
11	MP-1	X	.051	1.5
12	MP-2	X	.049	1.5
13	MP-2	X	.051	3
14	MP-3	X	.033	2
15	MP-3	X	.071	1
16	MP-5	X	.049	3
17	MP-6	X	.049	1.5
18	MP-6	X	.051	3
19	MP-7	X	.033	2
20	MP-7	X	.071	1
21	MP-9	X	.019	3
22	MP-10	X	.038	2.25
23	MP-11	X	.089	1
24	MP-12	X	.129	3.25
25	MP-1	X	.066	4.833
26	MP-2	X	.208	8.25
27	MP-4	X	.144	6.958
28	MP-5	X	.066	4.833
29	MP-6	X	.147	6.183
30	MP-8	X	.052	8
31	MP-9	X	.039	4.833
32	MP-10	X	.076	6.183
33	MP-12	X	.045	8
34	MP-1	Z	-.038	.667
35	MP-2	Z	-.12	.25
36	MP-4	Z	-.083	2.917
37	MP-5	Z	-.038	.667
38	MP-6	Z	-.085	.25
39	MP-8	Z	-.03	3
40	MP-9	Z	-.023	.667
41	MP-10	Z	-.044	.25
42	MP-12	Z	-.026	3
43	MP-1	Z	-.028	3
44	MP-1	Z	-.03	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP-2	Z	-.028	1.5
46	MP-2	Z	-.03	3
47	MP-3	Z	-.019	2
48	MP-3	Z	-.041	1
49	MP-5	Z	-.028	3
50	MP-6	Z	-.028	1.5
51	MP-6	Z	-.03	3
52	MP-7	Z	-.019	2
53	MP-7	Z	-.041	1
54	MP-9	Z	-.011	3
55	MP-10	Z	-.022	2.25
56	MP-11	Z	-.052	1
57	MP-12	Z	-.074	3.25
58	MP-1	Z	-.038	4.833
59	MP-2	Z	-.12	8.25
60	MP-4	Z	-.083	6.958
61	MP-5	Z	-.038	4.833
62	MP-6	Z	-.085	6.183
63	MP-8	Z	-.03	8
64	MP-9	Z	-.023	4.833
65	MP-10	Z	-.044	6.183
66	MP-12	Z	-.026	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.086	.667
2	MP-2	X	.278	.25
3	MP-4	X	.185	2.917
4	MP-5	X	.056	.667
5	MP-6	X	.115	.25
6	MP-8	X	.055	3
7	MP-9	X	.056	.667
8	MP-10	X	.115	.25
9	MP-12	X	.055	3
10	MP-1	X	.069	3
11	MP-1	X	.062	1.5
12	MP-2	X	.061	1.5
13	MP-2	X	.062	3
14	MP-3	X	.038	2
15	MP-3	X	.075	1
16	MP-5	X	.033	3
17	MP-6	X	.048	1.5
18	MP-6	X	.055	3
19	MP-7	X	.038	2
20	MP-7	X	.096	1
21	MP-9	X	.033	3
22	MP-10	X	.048	2.25
23	MP-11	X	.096	1
24	MP-12	X	.133	3.25
25	MP-1	X	.086	4.833
26	MP-2	X	.278	8.25
27	MP-4	X	.185	6.958
28	MP-5	X	.056	4.833
29	MP-6	X	.115	6.183
30	MP-8	X	.055	8
31	MP-9	X	.056	4.833

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
32	MP-10	X	.115	6.183
33	MP-12	X	.055	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.066	.667
2	MP-2	X	.208	.25
3	MP-4	X	.144	2.917
4	MP-5	X	.039	.667
5	MP-6	X	.076	.25
6	MP-8	X	.045	3
7	MP-9	X	.066	.667
8	MP-10	X	.147	.25
9	MP-12	X	.052	3
10	MP-1	X	.049	3
11	MP-1	X	.051	1.5
12	MP-2	X	.049	1.5
13	MP-2	X	.051	3
14	MP-3	X	.033	2
15	MP-3	X	.071	1
16	MP-5	X	.019	3
17	MP-6	X	.038	1.5
18	MP-6	X	.046	3
19	MP-7	X	.033	2
20	MP-7	X	.089	1
21	MP-9	X	.049	3
22	MP-10	X	.049	2.25
23	MP-11	X	.071	1
24	MP-12	X	.088	3.25
25	MP-1	X	.066	4.833
26	MP-2	X	.208	8.25
27	MP-4	X	.144	6.958
28	MP-5	X	.039	4.833
29	MP-6	X	.076	6.183
30	MP-8	X	.045	8
31	MP-9	X	.066	4.833
32	MP-10	X	.147	6.183
33	MP-12	X	.052	8
34	MP-1	Z	.038	.667
35	MP-2	Z	.12	.25
36	MP-4	Z	.083	2.917
37	MP-5	Z	.023	.667
38	MP-6	Z	.044	.25
39	MP-8	Z	.026	3
40	MP-9	Z	.038	.667
41	MP-10	Z	.085	.25
42	MP-12	Z	.03	3
43	MP-1	Z	.028	3
44	MP-1	Z	.03	1.5
45	MP-2	Z	.028	1.5
46	MP-2	Z	.03	3
47	MP-3	Z	.019	2
48	MP-3	Z	.041	1
49	MP-5	Z	.011	3
50	MP-6	Z	.022	1.5
51	MP-6	Z	.026	3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
52	MP-7	Z	.019	2
53	MP-7	Z	.052	1
54	MP-9	Z	.028	3
55	MP-10	Z	.028	2.25
56	MP-11	Z	.041	1
57	MP-12	Z	.051	3.25
58	MP-1	Z	.038	4.833
59	MP-2	Z	.12	8.25
60	MP-4	Z	.083	6.958
61	MP-5	Z	.023	4.833
62	MP-6	Z	.044	6.183
63	MP-8	Z	.026	8
64	MP-9	Z	.038	4.833
65	MP-10	Z	.085	6.183
66	MP-12	Z	.03	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.046	.667
2	MP-2	X	.143	.25
3	MP-4	X	.104	2.917
4	MP-5	X	.034	.667
5	MP-6	X	.067	.25
6	MP-8	X	.038	3
7	MP-9	X	.059	.667
8	MP-10	X	.135	.25
9	MP-12	X	.044	3
10	MP-1	X	.032	3
11	MP-1	X	.04	1.5
12	MP-2	X	.037	1.5
13	MP-2	X	.04	3
14	MP-3	X	.027	2
15	MP-3	X	.063	1
16	MP-5	X	.018	3
17	MP-6	X	.032	1.5
18	MP-6	X	.038	3
19	MP-7	X	.027	2
20	MP-7	X	.072	1
21	MP-9	X	.046	3
22	MP-10	X	.042	2.25
23	MP-11	X	.055	1
24	MP-12	X	.063	3.25
25	MP-1	X	.046	4.833
26	MP-2	X	.143	8.25
27	MP-4	X	.104	6.958
28	MP-5	X	.034	4.833
29	MP-6	X	.067	6.183
30	MP-8	X	.038	8
31	MP-9	X	.059	4.833
32	MP-10	X	.135	6.183
33	MP-12	X	.044	8
34	MP-1	Z	.046	.667
35	MP-2	Z	.143	.25
36	MP-4	Z	.104	2.917
37	MP-5	Z	.034	.667
38	MP-6	Z	.067	.25

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP-8	Z	.038	3
40	MP-9	Z	.059	.667
41	MP-10	Z	.135	.25
42	MP-12	Z	.044	3
43	MP-1	Z	.032	3
44	MP-1	Z	.04	1.5
45	MP-2	Z	.037	1.5
46	MP-2	Z	.04	3
47	MP-3	Z	.027	2
48	MP-3	Z	.063	1
49	MP-5	Z	.018	3
50	MP-6	Z	.032	1.5
51	MP-6	Z	.038	3
52	MP-7	Z	.027	2
53	MP-7	Z	.072	1
54	MP-9	Z	.046	3
55	MP-10	Z	.042	2.25
56	MP-11	Z	.055	1
57	MP-12	Z	.063	3.25
58	MP-1	Z	.046	4.833
59	MP-2	Z	.143	8.25
60	MP-4	Z	.104	6.958
61	MP-5	Z	.034	4.833
62	MP-6	Z	.067	6.183
63	MP-8	Z	.038	8
64	MP-9	Z	.059	4.833
65	MP-10	Z	.135	6.183
66	MP-12	Z	.044	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.028	.667
2	MP-2	X	.082	.25
3	MP-4	X	.064	2.917
4	MP-5	X	.028	.667
5	MP-6	X	.057	.25
6	MP-8	X	.027	3
7	MP-9	X	.043	.667
8	MP-10	X	.099	.25
9	MP-12	X	.031	3
10	MP-1	X	.017	3
11	MP-1	X	.027	1.5
12	MP-2	X	.024	1.5
13	MP-2	X	.027	3
14	MP-3	X	.019	2
15	MP-3	X	.048	1
16	MP-5	X	.017	3
17	MP-6	X	.024	1.5
18	MP-6	X	.027	3
19	MP-7	X	.019	2
20	MP-7	X	.048	1
21	MP-9	X	.034	3
22	MP-10	X	.031	2.25
23	MP-11	X	.038	1
24	MP-12	X	.043	3.25
25	MP-1	X	.028	4.833

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
26	MP-2	X	.082	8.25
27	MP-4	X	.064	6.958
28	MP-5	X	.028	4.833
29	MP-6	X	.057	6.183
30	MP-8	X	.027	8
31	MP-9	X	.043	4.833
32	MP-10	X	.099	6.183
33	MP-12	X	.031	8
34	MP-1	Z	.048	.667
35	MP-2	Z	.142	.25
36	MP-4	Z	.111	2.917
37	MP-5	Z	.048	.667
38	MP-6	Z	.1	.25
39	MP-8	Z	.048	3
40	MP-9	Z	.074	.667
41	MP-10	Z	.171	.25
42	MP-12	Z	.054	3
43	MP-1	Z	.029	3
44	MP-1	Z	.048	1.5
45	MP-2	Z	.042	1.5
46	MP-2	Z	.048	3
47	MP-3	Z	.033	2
48	MP-3	Z	.083	1
49	MP-5	Z	.029	3
50	MP-6	Z	.042	1.5
51	MP-6	Z	.048	3
52	MP-7	Z	.033	2
53	MP-7	Z	.083	1
54	MP-9	Z	.06	3
55	MP-10	Z	.053	2.25
56	MP-11	Z	.065	1
57	MP-12	Z	.074	3.25
58	MP-1	Z	.048	4.833
59	MP-2	Z	.142	8.25
60	MP-4	Z	.111	6.958
61	MP-5	Z	.048	4.833
62	MP-6	Z	.1	6.183
63	MP-8	Z	.048	8
64	MP-9	Z	.074	4.833
65	MP-10	Z	.171	6.183
66	MP-12	Z	.054	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	.046	.667
2	MP-2	Z	.126	.25
3	MP-4	Z	.109	2.917
4	MP-5	Z	.076	.667
5	MP-6	Z	.17	.25
6	MP-8	Z	.06	3
7	MP-9	Z	.076	.667
8	MP-10	Z	.17	.25
9	MP-12	Z	.06	3
10	MP-1	Z	.022	3
11	MP-1	Z	.053	1.5
12	MP-2	Z	.044	1.5

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP-2	Z	.053	3
14	MP-3	Z	.038	2
15	MP-3	Z	.103	1
16	MP-5	Z	.057	3
17	MP-6	Z	.057	1.5
18	MP-6	Z	.059	3
19	MP-7	Z	.038	2
20	MP-7	Z	.082	1
21	MP-9	Z	.057	3
22	MP-10	Z	.057	2.25
23	MP-11	Z	.082	1
24	MP-12	Z	.101	3.25
25	MP-1	Z	.046	4.833
26	MP-2	Z	.126	8.25
27	MP-4	Z	.109	6.958
28	MP-5	Z	.076	4.833
29	MP-6	Z	.17	6.183
30	MP-8	Z	.06	8
31	MP-9	Z	.076	4.833
32	MP-10	Z	.17	6.183
33	MP-12	Z	.06	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.028	.667
2	MP-2	X	-.082	.25
3	MP-4	X	-.064	2.917
4	MP-5	X	-.043	.667
5	MP-6	X	-.099	.25
6	MP-8	X	-.031	3
7	MP-9	X	-.028	.667
8	MP-10	X	-.057	.25
9	MP-12	X	-.027	3
10	MP-1	X	-.017	3
11	MP-1	X	-.027	1.5
12	MP-2	X	-.024	1.5
13	MP-2	X	-.027	3
14	MP-3	X	-.019	2
15	MP-3	X	-.048	1
16	MP-5	X	-.034	3
17	MP-6	X	-.031	1.5
18	MP-6	X	-.031	3
19	MP-7	X	-.019	2
20	MP-7	X	-.038	1
21	MP-9	X	-.017	3
22	MP-10	X	-.024	2.25
23	MP-11	X	-.048	1
24	MP-12	X	-.066	3.25
25	MP-1	X	-.028	4.833
26	MP-2	X	-.082	8.25
27	MP-4	X	-.064	6.958
28	MP-5	X	-.043	4.833
29	MP-6	X	-.099	6.183
30	MP-8	X	-.031	8
31	MP-9	X	-.028	4.833
32	MP-10	X	-.057	6.183

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-12	X	-.027	8
34	MP-1	Z	.048	.667
35	MP-2	Z	.142	.25
36	MP-4	Z	.111	2.917
37	MP-5	Z	.074	.667
38	MP-6	Z	.171	.25
39	MP-8	Z	.054	3
40	MP-9	Z	.048	.667
41	MP-10	Z	.1	.25
42	MP-12	Z	.048	3
43	MP-1	Z	.029	3
44	MP-1	Z	.048	1.5
45	MP-2	Z	.042	1.5
46	MP-2	Z	.048	3
47	MP-3	Z	.033	2
48	MP-3	Z	.083	1
49	MP-5	Z	.06	3
50	MP-6	Z	.053	1.5
51	MP-6	Z	.053	3
52	MP-7	Z	.033	2
53	MP-7	Z	.065	1
54	MP-9	Z	.029	3
55	MP-10	Z	.042	2.25
56	MP-11	Z	.083	1
57	MP-12	Z	.115	3.25
58	MP-1	Z	.048	4.833
59	MP-2	Z	.142	8.25
60	MP-4	Z	.111	6.958
61	MP-5	Z	.074	4.833
62	MP-6	Z	.171	6.183
63	MP-8	Z	.054	8
64	MP-9	Z	.048	4.833
65	MP-10	Z	.1	6.183
66	MP-12	Z	.048	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.046	.667
2	MP-2	X	-.143	.25
3	MP-4	X	-.104	2.917
4	MP-5	X	-.059	.667
5	MP-6	X	-.135	.25
6	MP-8	X	-.044	3
7	MP-9	X	-.034	.667
8	MP-10	X	-.067	.25
9	MP-12	X	-.038	3
10	MP-1	X	-.032	3
11	MP-1	X	-.04	1.5
12	MP-2	X	-.037	1.5
13	MP-2	X	-.04	3
14	MP-3	X	-.027	2
15	MP-3	X	-.063	1
16	MP-5	X	-.046	3
17	MP-6	X	-.042	1.5
18	MP-6	X	-.043	3
19	MP-7	X	-.027	2

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP-7	X	-.055	1
21	MP-9	X	-.018	3
22	MP-10	X	-.032	2.25
23	MP-11	X	-.072	1
24	MP-12	X	-.102	3.25
25	MP-1	X	-.046	4.833
26	MP-2	X	-.143	8.25
27	MP-4	X	-.104	6.958
28	MP-5	X	-.059	4.833
29	MP-6	X	-.135	6.183
30	MP-8	X	-.044	8
31	MP-9	X	-.034	4.833
32	MP-10	X	-.067	6.183
33	MP-12	X	-.038	8
34	MP-1	Z	.046	.667
35	MP-2	Z	.143	.25
36	MP-4	Z	.104	2.917
37	MP-5	Z	.059	.667
38	MP-6	Z	.135	.25
39	MP-8	Z	.044	3
40	MP-9	Z	.034	.667
41	MP-10	Z	.067	.25
42	MP-12	Z	.038	3
43	MP-1	Z	.032	3
44	MP-1	Z	.04	1.5
45	MP-2	Z	.037	1.5
46	MP-2	Z	.04	3
47	MP-3	Z	.027	2
48	MP-3	Z	.063	1
49	MP-5	Z	.046	3
50	MP-6	Z	.042	1.5
51	MP-6	Z	.043	3
52	MP-7	Z	.027	2
53	MP-7	Z	.055	1
54	MP-9	Z	.018	3
55	MP-10	Z	.032	2.25
56	MP-11	Z	.072	1
57	MP-12	Z	.102	3.25
58	MP-1	Z	.046	4.833
59	MP-2	Z	.143	8.25
60	MP-4	Z	.104	6.958
61	MP-5	Z	.059	4.833
62	MP-6	Z	.135	6.183
63	MP-8	Z	.044	8
64	MP-9	Z	.034	4.833
65	MP-10	Z	.067	6.183
66	MP-12	Z	.038	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.066	.667
2	MP-2	X	-.208	.25
3	MP-4	X	-.144	2.917
4	MP-5	X	-.066	.667
5	MP-6	X	-.147	.25
6	MP-8	X	-.052	3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP-9	X	-.039	.667
8	MP-10	X	-.076	.25
9	MP-12	X	-.045	3
10	MP-1	X	-.049	3
11	MP-1	X	-.051	1.5
12	MP-2	X	-.049	1.5
13	MP-2	X	-.051	3
14	MP-3	X	-.033	2
15	MP-3	X	-.071	1
16	MP-5	X	-.049	3
17	MP-6	X	-.049	1.5
18	MP-6	X	-.051	3
19	MP-7	X	-.033	2
20	MP-7	X	-.071	1
21	MP-9	X	-.019	3
22	MP-10	X	-.038	2.25
23	MP-11	X	-.089	1
24	MP-12	X	-.129	3.25
25	MP-1	X	-.066	4.833
26	MP-2	X	-.208	8.25
27	MP-4	X	-.144	6.958
28	MP-5	X	-.066	4.833
29	MP-6	X	-.147	6.183
30	MP-8	X	-.052	8
31	MP-9	X	-.039	4.833
32	MP-10	X	-.076	6.183
33	MP-12	X	-.045	8
34	MP-1	Z	.038	.667
35	MP-2	Z	.12	.25
36	MP-4	Z	.083	2.917
37	MP-5	Z	.038	.667
38	MP-6	Z	.085	.25
39	MP-8	Z	.03	3
40	MP-9	Z	.023	.667
41	MP-10	Z	.044	.25
42	MP-12	Z	.026	3
43	MP-1	Z	.028	3
44	MP-1	Z	.03	1.5
45	MP-2	Z	.028	1.5
46	MP-2	Z	.03	3
47	MP-3	Z	.019	2
48	MP-3	Z	.041	1
49	MP-5	Z	.028	3
50	MP-6	Z	.028	1.5
51	MP-6	Z	.03	3
52	MP-7	Z	.019	2
53	MP-7	Z	.041	1
54	MP-9	Z	.011	3
55	MP-10	Z	.022	2.25
56	MP-11	Z	.052	1
57	MP-12	Z	.074	3.25
58	MP-1	Z	.038	4.833
59	MP-2	Z	.12	8.25
60	MP-4	Z	.083	6.958
61	MP-5	Z	.038	4.833
62	MP-6	Z	.085	6.183
63	MP-8	Z	.03	8

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	MP-9	Z	.023	4.833
65	MP-10	Z	.044	6.183
66	MP-12	Z	.026	8

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Y	-.066	.667
2	MP-2	Y	-.183	.25
3	MP-4	Y	-.152	2.917
4	MP-5	Y	-.066	.667
5	MP-6	Y	-.14	.25
6	MP-8	Y	-.111	3
7	MP-9	Y	-.066	.667
8	MP-10	Y	-.14	.25
9	MP-12	Y	-.111	3
10	MP-1	Y	-.065	3
11	MP-1	Y	-.082	1.5
12	MP-2	Y	-.075	1.5
13	MP-2	Y	-.082	3
14	MP-3	Y	-.076	2
15	MP-3	Y	-.11	1
16	MP-5	Y	-.065	3
17	MP-6	Y	-.075	1.5
18	MP-6	Y	-.082	3
19	MP-7	Y	-.076	2
20	MP-7	Y	-.11	1
21	MP-9	Y	-.065	3
22	MP-10	Y	-.075	2.25
23	MP-11	Y	-.11	1
24	MP-12	Y	-.143	3.25
25	MP-1	Y	-.066	4.833
26	MP-2	Y	-.183	8.25
27	MP-4	Y	-.152	6.958
28	MP-5	Y	-.066	4.833
29	MP-6	Y	-.14	6.183
30	MP-8	Y	-.111	8
31	MP-9	Y	-.066	4.833
32	MP-10	Y	-.14	6.183
33	MP-12	Y	-.111	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.021	.667
2	MP-2	X	-.06	.25
3	MP-4	X	-.042	2.917
4	MP-5	X	-.021	.667
5	MP-6	X	-.044	.25
6	MP-8	X	-.015	3
7	MP-9	X	-.021	.667
8	MP-10	X	-.044	.25
9	MP-12	X	-.015	3
10	MP-1	X	-.021	3
11	MP-1	X	-.017	1.5
12	MP-2	X	-.017	1.5
13	MP-2	X	-.017	3
14	MP-3	X	-.01	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP-3	X	-.026	1
16	MP-5	X	-.021	3
17	MP-6	X	-.017	1.5
18	MP-6	X	-.017	3
19	MP-7	X	-.01	2
20	MP-7	X	-.026	1
21	MP-9	X	-.021	3
22	MP-10	X	-.017	2.25
23	MP-11	X	-.026	1
24	MP-12	X	-.023	3.25
25	MP-1	X	-.021	4.833
26	MP-2	X	-.06	8.25
27	MP-4	X	-.042	6.958
28	MP-5	X	-.021	4.833
29	MP-6	X	-.044	6.183
30	MP-8	X	-.015	8
31	MP-9	X	-.021	4.833
32	MP-10	X	-.044	6.183
33	MP-12	X	-.015	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.017	.667
2	MP-2	X	-.046	.25
3	MP-4	X	-.033	2.917
4	MP-5	X	-.012	.667
5	MP-6	X	-.02	.25
6	MP-8	X	-.011	3
7	MP-9	X	-.017	.667
8	MP-10	X	-.033	.25
9	MP-12	X	-.012	3
10	MP-1	X	-.016	3
11	MP-1	X	-.014	1.5
12	MP-2	X	-.014	1.5
13	MP-2	X	-.014	3
14	MP-3	X	-.009	2
15	MP-3	X	-.019	1
16	MP-5	X	-.009	3
17	MP-6	X	-.011	1.5
18	MP-6	X	-.013	3
19	MP-7	X	-.009	2
20	MP-7	X	-.023	1
21	MP-9	X	-.016	3
22	MP-10	X	-.014	2.25
23	MP-11	X	-.019	1
24	MP-12	X	-.022	3.25
25	MP-1	X	-.017	4.833
26	MP-2	X	-.046	8.25
27	MP-4	X	-.033	6.958
28	MP-5	X	-.012	4.833
29	MP-6	X	-.02	6.183
30	MP-8	X	-.011	8
31	MP-9	X	-.017	4.833
32	MP-10	X	-.033	6.183
33	MP-12	X	-.012	8
34	MP-1	Z	-.01	.667

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP-2	Z	-.027	.25
36	MP-4	Z	-.019	2.917
37	MP-5	Z	-.007	.667
38	MP-6	Z	-.011	.25
39	MP-8	Z	-.006	3
40	MP-9	Z	-.01	.667
41	MP-10	Z	-.019	.25
42	MP-12	Z	-.007	3
43	MP-1	Z	-.009	3
44	MP-1	Z	-.008	1.5
45	MP-2	Z	-.008	1.5
46	MP-2	Z	-.008	3
47	MP-3	Z	-.005	2
48	MP-3	Z	-.011	1
49	MP-5	Z	-.005	3
50	MP-6	Z	-.006	1.5
51	MP-6	Z	-.007	3
52	MP-7	Z	-.005	2
53	MP-7	Z	-.013	1
54	MP-9	Z	-.009	3
55	MP-10	Z	-.008	2.25
56	MP-11	Z	-.011	1
57	MP-12	Z	-.013	3.25
58	MP-1	Z	-.01	4.833
59	MP-2	Z	-.027	8.25
60	MP-4	Z	-.019	6.958
61	MP-5	Z	-.007	4.833
62	MP-6	Z	-.011	6.183
63	MP-8	Z	-.006	8
64	MP-9	Z	-.01	4.833
65	MP-10	Z	-.019	6.183
66	MP-12	Z	-.007	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.012	.667
2	MP-2	X	-.033	.25
3	MP-4	X	-.025	2.917
4	MP-5	X	-.01	.667
5	MP-6	X	-.017	.25
6	MP-8	X	-.009	3
7	MP-9	X	-.015	.667
8	MP-10	X	-.03	.25
9	MP-12	X	-.01	3
10	MP-1	X	-.011	3
11	MP-1	X	-.011	1.5
12	MP-2	X	-.011	1.5
13	MP-2	X	-.011	3
14	MP-3	X	-.007	2
15	MP-3	X	-.017	1
16	MP-5	X	-.008	3
17	MP-6	X	-.009	1.5
18	MP-6	X	-.011	3
19	MP-7	X	-.007	2
20	MP-7	X	-.018	1
21	MP-9	X	-.015	3

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
22	MP-10	X	-.012	2.25
23	MP-11	X	-.015	1
24	MP-12	X	-.017	3.25
25	MP-1	X	-.012	4.833
26	MP-2	X	-.033	8.25
27	MP-4	X	-.025	6.958
28	MP-5	X	-.01	4.833
29	MP-6	X	-.017	6.183
30	MP-8	X	-.009	8
31	MP-9	X	-.015	4.833
32	MP-10	X	-.03	6.183
33	MP-12	X	-.01	8
34	MP-1	Z	-.012	.667
35	MP-2	Z	-.033	.25
36	MP-4	Z	-.025	2.917
37	MP-5	Z	-.01	.667
38	MP-6	Z	-.017	.25
39	MP-8	Z	-.009	3
40	MP-9	Z	-.015	.667
41	MP-10	Z	-.03	.25
42	MP-12	Z	-.01	3
43	MP-1	Z	-.011	3
44	MP-1	Z	-.011	1.5
45	MP-2	Z	-.011	1.5
46	MP-2	Z	-.011	3
47	MP-3	Z	-.007	2
48	MP-3	Z	-.017	1
49	MP-5	Z	-.008	3
50	MP-6	Z	-.009	1.5
51	MP-6	Z	-.011	3
52	MP-7	Z	-.007	2
53	MP-7	Z	-.018	1
54	MP-9	Z	-.015	3
55	MP-10	Z	-.012	2.25
56	MP-11	Z	-.015	1
57	MP-12	Z	-.017	3.25
58	MP-1	Z	-.012	4.833
59	MP-2	Z	-.033	8.25
60	MP-4	Z	-.025	6.958
61	MP-5	Z	-.01	4.833
62	MP-6	Z	-.017	6.183
63	MP-8	Z	-.009	8
64	MP-9	Z	-.015	4.833
65	MP-10	Z	-.03	6.183
66	MP-12	Z	-.01	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.008	.667
2	MP-2	X	-.019	.25
3	MP-4	X	-.016	2.917
4	MP-5	X	-.008	.667
5	MP-6	X	-.014	.25
6	MP-8	X	-.007	3
7	MP-9	X	-.011	.667
8	MP-10	X	-.022	.25

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP-12	X	-.007	3
10	MP-1	X	-.007	3
11	MP-1	X	-.008	1.5
12	MP-2	X	-.007	1.5
13	MP-2	X	-.008	3
14	MP-3	X	-.005	2
15	MP-3	X	-.012	1
16	MP-5	X	-.007	3
17	MP-6	X	-.007	1.5
18	MP-6	X	-.008	3
19	MP-7	X	-.005	2
20	MP-7	X	-.012	1
21	MP-9	X	-.011	3
22	MP-10	X	-.008	2.25
23	MP-11	X	-.01	1
24	MP-12	X	-.011	3.25
25	MP-1	X	-.008	4.833
26	MP-2	X	-.019	8.25
27	MP-4	X	-.016	6.958
28	MP-5	X	-.008	4.833
29	MP-6	X	-.014	6.183
30	MP-8	X	-.007	8
31	MP-9	X	-.011	4.833
32	MP-10	X	-.022	6.183
33	MP-12	X	-.007	8
34	MP-1	Z	-.013	.667
35	MP-2	Z	-.034	.25
36	MP-4	Z	-.027	2.917
37	MP-5	Z	-.013	.667
38	MP-6	Z	-.024	.25
39	MP-8	Z	-.012	3
40	MP-9	Z	-.018	.667
41	MP-10	Z	-.038	.25
42	MP-12	Z	-.013	3
43	MP-1	Z	-.011	3
44	MP-1	Z	-.013	1.5
45	MP-2	Z	-.012	1.5
46	MP-2	Z	-.013	3
47	MP-3	Z	-.009	2
48	MP-3	Z	-.022	1
49	MP-5	Z	-.011	3
50	MP-6	Z	-.012	1.5
51	MP-6	Z	-.013	3
52	MP-7	Z	-.009	2
53	MP-7	Z	-.022	1
54	MP-9	Z	-.018	3
55	MP-10	Z	-.015	2.25
56	MP-11	Z	-.018	1
57	MP-12	Z	-.02	3.25
58	MP-1	Z	-.013	4.833
59	MP-2	Z	-.034	8.25
60	MP-4	Z	-.027	6.958
61	MP-5	Z	-.013	4.833
62	MP-6	Z	-.024	6.183
63	MP-8	Z	-.012	8
64	MP-9	Z	-.018	4.833
65	MP-10	Z	-.038	6.183

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
66	MP-12	Z	-.013	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.014	.667
2	MP-2	Z	-.032	.25
3	MP-4	Z	-.028	2.917
4	MP-5	Z	-.014	.667
5	MP-6	Z	-.023	.25
6	MP-8	Z	-.013	3
7	MP-9	Z	-.014	.667
8	MP-10	Z	-.023	.25
9	MP-12	Z	-.013	3
10	MP-1	Z	-.01	3
11	MP-1	Z	-.015	1.5
12	MP-2	Z	-.013	1.5
13	MP-2	Z	-.015	3
14	MP-3	Z	-.01	2
15	MP-3	Z	-.02	1
16	MP-5	Z	-.01	3
17	MP-6	Z	-.013	1.5
18	MP-6	Z	-.015	3
19	MP-7	Z	-.01	2
20	MP-7	Z	-.02	1
21	MP-9	Z	-.01	3
22	MP-10	Z	-.013	2.25
23	MP-11	Z	-.02	1
24	MP-12	Z	-.036	3.25
25	MP-1	Z	-.014	4.833
26	MP-2	Z	-.032	8.25
27	MP-4	Z	-.028	6.958
28	MP-5	Z	-.014	4.833
29	MP-6	Z	-.023	6.183
30	MP-8	Z	-.013	8
31	MP-9	Z	-.014	4.833
32	MP-10	Z	-.023	6.183
33	MP-12	Z	-.013	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.008	.667
2	MP-2	X	.019	.25
3	MP-4	X	.016	2.917
4	MP-5	X	.011	.667
5	MP-6	X	.022	.25
6	MP-8	X	.007	3
7	MP-9	X	.008	.667
8	MP-10	X	.014	.25
9	MP-12	X	.007	3
10	MP-1	X	.007	3
11	MP-1	X	.008	1.5
12	MP-2	X	.007	1.5
13	MP-2	X	.008	3
14	MP-3	X	.005	2
15	MP-3	X	.012	1
16	MP-5	X	.011	3

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
17	MP-6	X	.008	1.5
18	MP-6	X	.008	3
19	MP-7	X	.005	2
20	MP-7	X	.01	1
21	MP-9	X	.007	3
22	MP-10	X	.007	2.25
23	MP-11	X	.012	1
24	MP-12	X	.016	3.25
25	MP-1	X	.008	4.833
26	MP-2	X	.019	8.25
27	MP-4	X	.016	6.958
28	MP-5	X	.011	4.833
29	MP-6	X	.022	6.183
30	MP-8	X	.007	8
31	MP-9	X	.008	4.833
32	MP-10	X	.014	6.183
33	MP-12	X	.007	8
34	MP-1	Z	-.013	.667
35	MP-2	Z	-.034	.25
36	MP-4	Z	-.027	2.917
37	MP-5	Z	-.018	.667
38	MP-6	Z	-.038	.25
39	MP-8	Z	-.013	3
40	MP-9	Z	-.013	.667
41	MP-10	Z	-.024	.25
42	MP-12	Z	-.012	3
43	MP-1	Z	-.011	3
44	MP-1	Z	-.013	1.5
45	MP-2	Z	-.012	1.5
46	MP-2	Z	-.013	3
47	MP-3	Z	-.009	2
48	MP-3	Z	-.022	1
49	MP-5	Z	-.018	3
50	MP-6	Z	-.015	1.5
51	MP-6	Z	-.015	3
52	MP-7	Z	-.009	2
53	MP-7	Z	-.018	1
54	MP-9	Z	-.011	3
55	MP-10	Z	-.012	2.25
56	MP-11	Z	-.022	1
57	MP-12	Z	-.028	3.25
58	MP-1	Z	-.013	4.833
59	MP-2	Z	-.034	8.25
60	MP-4	Z	-.027	6.958
61	MP-5	Z	-.018	4.833
62	MP-6	Z	-.038	6.183
63	MP-8	Z	-.013	8
64	MP-9	Z	-.013	4.833
65	MP-10	Z	-.024	6.183
66	MP-12	Z	-.012	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.012	.667
2	MP-2	X	.033	.25
3	MP-4	X	.025	2.917

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP-5	X	.015	.667
5	MP-6	X	.03	.25
6	MP-8	X	.01	3
7	MP-9	X	.01	.667
8	MP-10	X	.017	.25
9	MP-12	X	.009	3
10	MP-1	X	.011	3
11	MP-1	X	.011	1.5
12	MP-2	X	.011	1.5
13	MP-2	X	.011	3
14	MP-3	X	.007	2
15	MP-3	X	.017	1
16	MP-5	X	.015	3
17	MP-6	X	.012	1.5
18	MP-6	X	.012	3
19	MP-7	X	.007	2
20	MP-7	X	.015	1
21	MP-9	X	.008	3
22	MP-10	X	.009	2.25
23	MP-11	X	.018	1
24	MP-12	X	.025	3.25
25	MP-1	X	.012	4.833
26	MP-2	X	.033	8.25
27	MP-4	X	.025	6.958
28	MP-5	X	.015	4.833
29	MP-6	X	.03	6.183
30	MP-8	X	.01	8
31	MP-9	X	.01	4.833
32	MP-10	X	.017	6.183
33	MP-12	X	.009	8
34	MP-1	Z	-.012	.667
35	MP-2	Z	-.033	.25
36	MP-4	Z	-.025	2.917
37	MP-5	Z	-.015	.667
38	MP-6	Z	-.03	.25
39	MP-8	Z	-.01	3
40	MP-9	Z	-.01	.667
41	MP-10	Z	-.017	.25
42	MP-12	Z	-.009	3
43	MP-1	Z	-.011	3
44	MP-1	Z	-.011	1.5
45	MP-2	Z	-.011	1.5
46	MP-2	Z	-.011	3
47	MP-3	Z	-.007	2
48	MP-3	Z	-.017	1
49	MP-5	Z	-.015	3
50	MP-6	Z	-.012	1.5
51	MP-6	Z	-.012	3
52	MP-7	Z	-.007	2
53	MP-7	Z	-.015	1
54	MP-9	Z	-.008	3
55	MP-10	Z	-.009	2.25
56	MP-11	Z	-.018	1
57	MP-12	Z	-.025	3.25
58	MP-1	Z	-.012	4.833
59	MP-2	Z	-.033	8.25
60	MP-4	Z	-.025	6.958

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
61	MP-5	Z	-.015	4.833
62	MP-6	Z	-.03	6.183
63	MP-8	Z	-.01	8
64	MP-9	Z	-.01	4.833
65	MP-10	Z	-.017	6.183
66	MP-12	Z	-.009	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.017	.667
2	MP-2	X	.046	.25
3	MP-4	X	.033	2.917
4	MP-5	X	.017	.667
5	MP-6	X	.033	.25
6	MP-8	X	.012	3
7	MP-9	X	.012	.667
8	MP-10	X	.02	.25
9	MP-12	X	.011	3
10	MP-1	X	.016	3
11	MP-1	X	.014	1.5
12	MP-2	X	.014	1.5
13	MP-2	X	.014	3
14	MP-3	X	.009	2
15	MP-3	X	.019	1
16	MP-5	X	.016	3
17	MP-6	X	.014	1.5
18	MP-6	X	.014	3
19	MP-7	X	.009	2
20	MP-7	X	.019	1
21	MP-9	X	.009	3
22	MP-10	X	.011	2.25
23	MP-11	X	.023	1
24	MP-12	X	.031	3.25
25	MP-1	X	.017	4.833
26	MP-2	X	.046	8.25
27	MP-4	X	.033	6.958
28	MP-5	X	.017	4.833
29	MP-6	X	.033	6.183
30	MP-8	X	.012	8
31	MP-9	X	.012	4.833
32	MP-10	X	.02	6.183
33	MP-12	X	.011	8
34	MP-1	Z	-.01	.667
35	MP-2	Z	-.027	.25
36	MP-4	Z	-.019	2.917
37	MP-5	Z	-.01	.667
38	MP-6	Z	-.019	.25
39	MP-8	Z	-.007	3
40	MP-9	Z	-.007	.667
41	MP-10	Z	-.011	.25
42	MP-12	Z	-.006	3
43	MP-1	Z	-.009	3
44	MP-1	Z	-.008	1.5
45	MP-2	Z	-.008	1.5
46	MP-2	Z	-.008	3
47	MP-3	Z	-.005	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
48	MP-3	Z	-.011	1
49	MP-5	Z	-.009	3
50	MP-6	Z	-.008	1.5
51	MP-6	Z	-.008	3
52	MP-7	Z	-.005	2
53	MP-7	Z	-.011	1
54	MP-9	Z	-.005	3
55	MP-10	Z	-.006	2.25
56	MP-11	Z	-.013	1
57	MP-12	Z	-.018	3.25
58	MP-1	Z	-.01	4.833
59	MP-2	Z	-.027	8.25
60	MP-4	Z	-.019	6.958
61	MP-5	Z	-.01	4.833
62	MP-6	Z	-.019	6.183
63	MP-8	Z	-.007	8
64	MP-9	Z	-.007	4.833
65	MP-10	Z	-.011	6.183
66	MP-12	Z	-.006	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.021	.667
2	MP-2	X	.06	.25
3	MP-4	X	.042	2.917
4	MP-5	X	.021	.667
5	MP-6	X	.044	.25
6	MP-8	X	.015	3
7	MP-9	X	.021	.667
8	MP-10	X	.044	.25
9	MP-12	X	.015	3
10	MP-1	X	.021	3
11	MP-1	X	.017	1.5
12	MP-2	X	.017	1.5
13	MP-2	X	.017	3
14	MP-3	X	.01	2
15	MP-3	X	.026	1
16	MP-5	X	.021	3
17	MP-6	X	.017	1.5
18	MP-6	X	.017	3
19	MP-7	X	.01	2
20	MP-7	X	.026	1
21	MP-9	X	.021	3
22	MP-10	X	.017	2.25
23	MP-11	X	.026	1
24	MP-12	X	.023	3.25
25	MP-1	X	.021	4.833
26	MP-2	X	.06	8.25
27	MP-4	X	.042	6.958
28	MP-5	X	.021	4.833
29	MP-6	X	.044	6.183
30	MP-8	X	.015	8
31	MP-9	X	.021	4.833
32	MP-10	X	.044	6.183
33	MP-12	X	.015	8

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.017	.667
2	MP-2	X	.046	.25
3	MP-4	X	.033	2.917
4	MP-5	X	.012	.667
5	MP-6	X	.02	.25
6	MP-8	X	.011	3
7	MP-9	X	.017	.667
8	MP-10	X	.033	.25
9	MP-12	X	.012	3
10	MP-1	X	.016	3
11	MP-1	X	.014	1.5
12	MP-2	X	.014	1.5
13	MP-2	X	.014	3
14	MP-3	X	.009	2
15	MP-3	X	.019	1
16	MP-5	X	.009	3
17	MP-6	X	.011	1.5
18	MP-6	X	.013	3
19	MP-7	X	.009	2
20	MP-7	X	.023	1
21	MP-9	X	.016	3
22	MP-10	X	.014	2.25
23	MP-11	X	.019	1
24	MP-12	X	.022	3.25
25	MP-1	X	.017	4.833
26	MP-2	X	.046	8.25
27	MP-4	X	.033	6.958
28	MP-5	X	.012	4.833
29	MP-6	X	.02	6.183
30	MP-8	X	.011	8
31	MP-9	X	.017	4.833
32	MP-10	X	.033	6.183
33	MP-12	X	.012	8
34	MP-1	Z	.01	.667
35	MP-2	Z	.027	.25
36	MP-4	Z	.019	2.917
37	MP-5	Z	.007	.667
38	MP-6	Z	.011	.25
39	MP-8	Z	.006	3
40	MP-9	Z	.01	.667
41	MP-10	Z	.019	.25
42	MP-12	Z	.007	3
43	MP-1	Z	.009	3
44	MP-1	Z	.008	1.5
45	MP-2	Z	.008	1.5
46	MP-2	Z	.008	3
47	MP-3	Z	.005	2
48	MP-3	Z	.011	1
49	MP-5	Z	.005	3
50	MP-6	Z	.006	1.5
51	MP-6	Z	.007	3
52	MP-7	Z	.005	2
53	MP-7	Z	.013	1
54	MP-9	Z	.009	3
55	MP-10	Z	.008	2.25
56	MP-11	Z	.011	1
57	MP-12	Z	.013	3.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP-1	Z	.01	4.833
59	MP-2	Z	.027	8.25
60	MP-4	Z	.019	6.958
61	MP-5	Z	.007	4.833
62	MP-6	Z	.011	6.183
63	MP-8	Z	.006	8
64	MP-9	Z	.01	4.833
65	MP-10	Z	.019	6.183
66	MP-12	Z	.007	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.012	.667
2	MP-2	X	.033	.25
3	MP-4	X	.025	2.917
4	MP-5	X	.01	.667
5	MP-6	X	.017	.25
6	MP-8	X	.009	3
7	MP-9	X	.015	.667
8	MP-10	X	.03	.25
9	MP-12	X	.01	3
10	MP-1	X	.011	3
11	MP-1	X	.011	1.5
12	MP-2	X	.011	1.5
13	MP-2	X	.011	3
14	MP-3	X	.007	2
15	MP-3	X	.017	1
16	MP-5	X	.008	3
17	MP-6	X	.009	1.5
18	MP-6	X	.011	3
19	MP-7	X	.007	2
20	MP-7	X	.018	1
21	MP-9	X	.015	3
22	MP-10	X	.012	2.25
23	MP-11	X	.015	1
24	MP-12	X	.017	3.25
25	MP-1	X	.012	4.833
26	MP-2	X	.033	8.25
27	MP-4	X	.025	6.958
28	MP-5	X	.01	4.833
29	MP-6	X	.017	6.183
30	MP-8	X	.009	8
31	MP-9	X	.015	4.833
32	MP-10	X	.03	6.183
33	MP-12	X	.01	8
34	MP-1	Z	.012	.667
35	MP-2	Z	.033	.25
36	MP-4	Z	.025	2.917
37	MP-5	Z	.01	.667
38	MP-6	Z	.017	.25
39	MP-8	Z	.009	3
40	MP-9	Z	.015	.667
41	MP-10	Z	.03	.25
42	MP-12	Z	.01	3
43	MP-1	Z	.011	3
44	MP-1	Z	.011	1.5

Company : Tower Engineering Professionals
Designer : EBS
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Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP-2	Z	.011	1.5
46	MP-2	Z	.011	3
47	MP-3	Z	.007	2
48	MP-3	Z	.017	1
49	MP-5	Z	.008	3
50	MP-6	Z	.009	1.5
51	MP-6	Z	.011	3
52	MP-7	Z	.007	2
53	MP-7	Z	.018	1
54	MP-9	Z	.015	3
55	MP-10	Z	.012	2.25
56	MP-11	Z	.015	1
57	MP-12	Z	.017	3.25
58	MP-1	Z	.012	4.833
59	MP-2	Z	.033	8.25
60	MP-4	Z	.025	6.958
61	MP-5	Z	.01	4.833
62	MP-6	Z	.017	6.183
63	MP-8	Z	.009	8
64	MP-9	Z	.015	4.833
65	MP-10	Z	.03	6.183
66	MP-12	Z	.01	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	.008	.667
2	MP-2	X	.019	.25
3	MP-4	X	.016	2.917
4	MP-5	X	.008	.667
5	MP-6	X	.014	.25
6	MP-8	X	.007	3
7	MP-9	X	.011	.667
8	MP-10	X	.022	.25
9	MP-12	X	.007	3
10	MP-1	X	.007	3
11	MP-1	X	.008	1.5
12	MP-2	X	.007	1.5
13	MP-2	X	.008	3
14	MP-3	X	.005	2
15	MP-3	X	.012	1
16	MP-5	X	.007	3
17	MP-6	X	.007	1.5
18	MP-6	X	.008	3
19	MP-7	X	.005	2
20	MP-7	X	.012	1
21	MP-9	X	.011	3
22	MP-10	X	.008	2.25
23	MP-11	X	.01	1
24	MP-12	X	.011	3.25
25	MP-1	X	.008	4.833
26	MP-2	X	.019	8.25
27	MP-4	X	.016	6.958
28	MP-5	X	.008	4.833
29	MP-6	X	.014	6.183
30	MP-8	X	.007	8
31	MP-9	X	.011	4.833

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
32	MP-10	X	.022	6.183
33	MP-12	X	.007	8
34	MP-1	Z	.013	.667
35	MP-2	Z	.034	.25
36	MP-4	Z	.027	2.917
37	MP-5	Z	.013	.667
38	MP-6	Z	.024	.25
39	MP-8	Z	.012	3
40	MP-9	Z	.018	.667
41	MP-10	Z	.038	.25
42	MP-12	Z	.013	3
43	MP-1	Z	.011	3
44	MP-1	Z	.013	1.5
45	MP-2	Z	.012	1.5
46	MP-2	Z	.013	3
47	MP-3	Z	.009	2
48	MP-3	Z	.022	1
49	MP-5	Z	.011	3
50	MP-6	Z	.012	1.5
51	MP-6	Z	.013	3
52	MP-7	Z	.009	2
53	MP-7	Z	.022	1
54	MP-9	Z	.018	3
55	MP-10	Z	.015	2.25
56	MP-11	Z	.018	1
57	MP-12	Z	.02	3.25
58	MP-1	Z	.013	4.833
59	MP-2	Z	.034	8.25
60	MP-4	Z	.027	6.958
61	MP-5	Z	.013	4.833
62	MP-6	Z	.024	6.183
63	MP-8	Z	.012	8
64	MP-9	Z	.018	4.833
65	MP-10	Z	.038	6.183
66	MP-12	Z	.013	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	.014	.667
2	MP-2	Z	.032	.25
3	MP-4	Z	.028	2.917
4	MP-5	Z	.014	.667
5	MP-6	Z	.023	.25
6	MP-8	Z	.013	3
7	MP-9	Z	.014	.667
8	MP-10	Z	.023	.25
9	MP-12	Z	.013	3
10	MP-1	Z	.01	3
11	MP-1	Z	.015	1.5
12	MP-2	Z	.013	1.5
13	MP-2	Z	.015	3
14	MP-3	Z	.01	2
15	MP-3	Z	.02	1
16	MP-5	Z	.01	3
17	MP-6	Z	.013	1.5
18	MP-6	Z	.015	3

Company : Tower Engineering Professionals
Designer : EBS
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Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-7	Z	.01	2
20	MP-7	Z	.02	1
21	MP-9	Z	.01	3
22	MP-10	Z	.013	2.25
23	MP-11	Z	.02	1
24	MP-12	Z	.036	3.25
25	MP-1	Z	.014	4.833
26	MP-2	Z	.032	8.25
27	MP-4	Z	.028	6.958
28	MP-5	Z	.014	4.833
29	MP-6	Z	.023	6.183
30	MP-8	Z	.013	8
31	MP-9	Z	.014	4.833
32	MP-10	Z	.023	6.183
33	MP-12	Z	.013	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.008	.667
2	MP-2	X	-.019	.25
3	MP-4	X	-.016	2.917
4	MP-5	X	-.011	.667
5	MP-6	X	-.022	.25
6	MP-8	X	-.007	3
7	MP-9	X	-.008	.667
8	MP-10	X	-.014	.25
9	MP-12	X	-.007	3
10	MP-1	X	-.007	3
11	MP-1	X	-.008	1.5
12	MP-2	X	-.007	1.5
13	MP-2	X	-.008	3
14	MP-3	X	-.005	2
15	MP-3	X	-.012	1
16	MP-5	X	-.011	3
17	MP-6	X	-.008	1.5
18	MP-6	X	-.008	3
19	MP-7	X	-.005	2
20	MP-7	X	-.01	1
21	MP-9	X	-.007	3
22	MP-10	X	-.007	2.25
23	MP-11	X	-.012	1
24	MP-12	X	-.016	3.25
25	MP-1	X	-.008	4.833
26	MP-2	X	-.019	8.25
27	MP-4	X	-.016	6.958
28	MP-5	X	-.011	4.833
29	MP-6	X	-.022	6.183
30	MP-8	X	-.007	8
31	MP-9	X	-.008	4.833
32	MP-10	X	-.014	6.183
33	MP-12	X	-.007	8
34	MP-1	Z	.013	.667
35	MP-2	Z	.034	.25
36	MP-4	Z	.027	2.917
37	MP-5	Z	.018	.667
38	MP-6	Z	.038	.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP-8	Z	.013	3
40	MP-9	Z	.013	.667
41	MP-10	Z	.024	.25
42	MP-12	Z	.012	3
43	MP-1	Z	.011	3
44	MP-1	Z	.013	1.5
45	MP-2	Z	.012	1.5
46	MP-2	Z	.013	3
47	MP-3	Z	.009	2
48	MP-3	Z	.022	1
49	MP-5	Z	.018	3
50	MP-6	Z	.015	1.5
51	MP-6	Z	.015	3
52	MP-7	Z	.009	2
53	MP-7	Z	.018	1
54	MP-9	Z	.011	3
55	MP-10	Z	.012	2.25
56	MP-11	Z	.022	1
57	MP-12	Z	.028	3.25
58	MP-1	Z	.013	4.833
59	MP-2	Z	.034	8.25
60	MP-4	Z	.027	6.958
61	MP-5	Z	.018	4.833
62	MP-6	Z	.038	6.183
63	MP-8	Z	.013	8
64	MP-9	Z	.013	4.833
65	MP-10	Z	.024	6.183
66	MP-12	Z	.012	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.012	.667
2	MP-2	X	-.033	.25
3	MP-4	X	-.025	2.917
4	MP-5	X	-.015	.667
5	MP-6	X	-.03	.25
6	MP-8	X	-.01	3
7	MP-9	X	-.01	.667
8	MP-10	X	-.017	.25
9	MP-12	X	-.009	3
10	MP-1	X	-.011	3
11	MP-1	X	-.011	1.5
12	MP-2	X	-.011	1.5
13	MP-2	X	-.011	3
14	MP-3	X	-.007	2
15	MP-3	X	-.017	1
16	MP-5	X	-.015	3
17	MP-6	X	-.012	1.5
18	MP-6	X	-.012	3
19	MP-7	X	-.007	2
20	MP-7	X	-.015	1
21	MP-9	X	-.008	3
22	MP-10	X	-.009	2.25
23	MP-11	X	-.018	1
24	MP-12	X	-.025	3.25
25	MP-1	X	-.012	4.833

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
26	MP-2	X	-.033	8.25
27	MP-4	X	-.025	6.958
28	MP-5	X	-.015	4.833
29	MP-6	X	-.03	6.183
30	MP-8	X	-.01	8
31	MP-9	X	-.01	4.833
32	MP-10	X	-.017	6.183
33	MP-12	X	-.009	8
34	MP-1	Z	.012	.667
35	MP-2	Z	.033	.25
36	MP-4	Z	.025	2.917
37	MP-5	Z	.015	.667
38	MP-6	Z	.03	.25
39	MP-8	Z	.01	3
40	MP-9	Z	.01	.667
41	MP-10	Z	.017	.25
42	MP-12	Z	.009	3
43	MP-1	Z	.011	3
44	MP-1	Z	.011	1.5
45	MP-2	Z	.011	1.5
46	MP-2	Z	.011	3
47	MP-3	Z	.007	2
48	MP-3	Z	.017	1
49	MP-5	Z	.015	3
50	MP-6	Z	.012	1.5
51	MP-6	Z	.012	3
52	MP-7	Z	.007	2
53	MP-7	Z	.015	1
54	MP-9	Z	.008	3
55	MP-10	Z	.009	2.25
56	MP-11	Z	.018	1
57	MP-12	Z	.025	3.25
58	MP-1	Z	.012	4.833
59	MP-2	Z	.033	8.25
60	MP-4	Z	.025	6.958
61	MP-5	Z	.015	4.833
62	MP-6	Z	.03	6.183
63	MP-8	Z	.01	8
64	MP-9	Z	.01	4.833
65	MP-10	Z	.017	6.183
66	MP-12	Z	.009	8

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.017	.667
2	MP-2	X	-.046	.25
3	MP-4	X	-.033	2.917
4	MP-5	X	-.017	.667
5	MP-6	X	-.033	.25
6	MP-8	X	-.012	3
7	MP-9	X	-.012	.667
8	MP-10	X	-.02	.25
9	MP-12	X	-.011	3
10	MP-1	X	-.016	3
11	MP-1	X	-.014	1.5
12	MP-2	X	-.014	1.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP-2	X	-.014	3
14	MP-3	X	-.009	2
15	MP-3	X	-.019	1
16	MP-5	X	-.016	3
17	MP-6	X	-.014	1.5
18	MP-6	X	-.014	3
19	MP-7	X	-.009	2
20	MP-7	X	-.019	1
21	MP-9	X	-.009	3
22	MP-10	X	-.011	2.25
23	MP-11	X	-.023	1
24	MP-12	X	-.031	3.25
25	MP-1	X	-.017	4.833
26	MP-2	X	-.046	8.25
27	MP-4	X	-.033	6.958
28	MP-5	X	-.017	4.833
29	MP-6	X	-.033	6.183
30	MP-8	X	-.012	8
31	MP-9	X	-.012	4.833
32	MP-10	X	-.02	6.183
33	MP-12	X	-.011	8
34	MP-1	Z	.01	.667
35	MP-2	Z	.027	.25
36	MP-4	Z	.019	2.917
37	MP-5	Z	.01	.667
38	MP-6	Z	.019	.25
39	MP-8	Z	.007	3
40	MP-9	Z	.007	.667
41	MP-10	Z	.011	.25
42	MP-12	Z	.006	3
43	MP-1	Z	.009	3
44	MP-1	Z	.008	1.5
45	MP-2	Z	.008	1.5
46	MP-2	Z	.008	3
47	MP-3	Z	.005	2
48	MP-3	Z	.011	1
49	MP-5	Z	.009	3
50	MP-6	Z	.008	1.5
51	MP-6	Z	.008	3
52	MP-7	Z	.005	2
53	MP-7	Z	.011	1
54	MP-9	Z	.005	3
55	MP-10	Z	.006	2.25
56	MP-11	Z	.013	1
57	MP-12	Z	.018	3.25
58	MP-1	Z	.01	4.833
59	MP-2	Z	.027	8.25
60	MP-4	Z	.019	6.958
61	MP-5	Z	.01	4.833
62	MP-6	Z	.019	6.183
63	MP-8	Z	.007	8
64	MP-9	Z	.007	4.833
65	MP-10	Z	.011	6.183
66	MP-12	Z	.006	8

Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	X	-.018	.667
2	MP-2	X	-.048	.25
3	MP-4	X	-.041	2.917
4	MP-5	X	-.018	.667
5	MP-6	X	-.04	.25
6	MP-8	X	-.052	3
7	MP-9	X	-.018	.667
8	MP-10	X	-.04	.25
9	MP-12	X	-.052	3
10	MP-1	X	-.028	3
11	MP-1	X	-.075	1.5
12	MP-2	X	-.071	1.5
13	MP-2	X	-.075	3
14	MP-3	X	-.033	2
15	MP-3	X	-.077	1
16	MP-5	X	-.028	3
17	MP-6	X	-.071	1.5
18	MP-6	X	-.075	3
19	MP-7	X	-.033	2
20	MP-7	X	-.077	1
21	MP-9	X	-.028	3
22	MP-10	X	-.071	2.25
23	MP-11	X	-.077	1
24	MP-12	X	-.026	3.25
25	MP-1	X	-.018	4.833
26	MP-2	X	-.048	8.25
27	MP-4	X	-.041	6.958
28	MP-5	X	-.018	4.833
29	MP-6	X	-.04	6.183
30	MP-8	X	-.052	8
31	MP-9	X	-.018	4.833
32	MP-10	X	-.04	6.183
33	MP-12	X	-.052	8

Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-1	Z	-.018	.667
2	MP-2	Z	-.048	.25
3	MP-4	Z	-.041	2.917
4	MP-5	Z	-.018	.667
5	MP-6	Z	-.04	.25
6	MP-8	Z	-.052	3
7	MP-9	Z	-.018	.667
8	MP-10	Z	-.04	.25
9	MP-12	Z	-.052	3
10	MP-1	Z	-.028	3
11	MP-1	Z	-.075	1.5
12	MP-2	Z	-.071	1.5
13	MP-2	Z	-.075	3
14	MP-3	Z	-.033	2
15	MP-3	Z	-.077	1
16	MP-5	Z	-.028	3
17	MP-6	Z	-.071	1.5
18	MP-6	Z	-.075	3
19	MP-7	Z	-.033	2
20	MP-7	Z	-.077	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	MP-9	Z	-.028	3
22	MP-10	Z	-.071	2.25
23	MP-11	Z	-.077	1
24	MP-12	Z	-.026	3.25
25	MP-1	Z	-.018	4.833
26	MP-2	Z	-.048	8.25
27	MP-4	Z	-.041	6.958
28	MP-5	Z	-.018	4.833
29	MP-6	Z	-.04	6.183
30	MP-8	Z	-.052	8
31	MP-9	Z	-.018	4.833
32	MP-10	Z	-.04	6.183
33	MP-12	Z	-.052	8

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	FF-H1	X	-.026	-.026	0	%100
2	SF1-H1	X	-.011	-.011	0	%100
3	SF2-H1	X	-.011	-.011	0	%100
4	GSI1	X	-.009	-.009	0	%100
5	GSI2	X	-.009	-.009	0	%100
6	GSI3	X	-.02	-.02	0	%100
7	I1	X	-.018	-.018	0	%100
8	I2	X	0	0	0	%100
9	LL-L	X	-.009	-.009	0	%100
10	LL-R	X	-.009	-.009	0	%100
11	LR-1	X	0	0	0	%100
12	LR-2	X	0	0	0	%100
13	LR-3	X	0	0	0	%100
14	LR-4	X	0	0	0	%100
15	LR-5	X	0	0	0	%100
16	LR-6	X	0	0	0	%100
17	LR-7	X	0	0	0	%100
18	MP-1	X	-.007	-.007	0	%100
19	MP-2	X	-.007	-.007	0	%100
20	MP-3	X	-.007	-.007	0	%100
21	MP-4	X	-.007	-.007	0	%100
22	MP-5	X	-.007	-.007	0	%100
23	MP-6	X	-.007	-.007	0	%100
24	MP-7	X	-.007	-.007	0	%100
25	MP-8	X	-.007	-.007	0	%100
26	MP-9	X	-.007	-.007	0	%100
27	MP-10	X	-.007	-.007	0	%100
28	MP-11	X	-.007	-.007	0	%100
29	MP-12	X	-.007	-.007	0	%100
30	CT-A1	X	-.003	-.003	0	%100
31	CT-A2	X	-.003	-.003	0	%100
32	CT-A3	X	-.003	-.003	0	%100
33	CT-A4	X	-.003	-.003	0	%100
34	CT-A5	X	-.002	-.002	0	%100
35	CT-A6	X	-.002	-.002	0	%100
36	CT-A7	X	-.001	-.001	0	%100
37	CT-A8	X	-.000642	-.000642	0	%100
38	CT-A9	X	0	0	0	%100
39	CT-A10	X	-.000642	-.000642	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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	CT-B1	X	-.001	-.001	0	%100
41	CT-B2	X	-.002	-.002	0	%100
42	CT-B3	X	-.002	-.002	0	%100
43	CT-B4	X	-.003	-.003	0	%100
44	CT-B5	X	-.003	-.003	0	%100
45	CT-B6	X	-.003	-.003	0	%100
46	CT-B7	X	-.003	-.003	0	%100
47	CT-B8	X	-.003	-.003	0	%100
48	CT-B9	X	-.003	-.003	0	%100
49	CT-B10	X	-.002	-.002	0	%100
50	CT-C1	X	-.002	-.002	0	%100
51	CT-C2	X	-.001	-.001	0	%100
52	CT-C3	X	-.000642	-.000642	0	%100
53	CT-C4	X	0	0	0	%100
54	CT-C5	X	-.000642	-.000642	0	%100
55	CT-C6	X	-.001	-.001	0	%100
56	CT-C7	X	-.002	-.002	0	%100
57	CT-C8	X	-.002	-.002	0	%100
58	CT-C9	X	-.003	-.003	0	%100
59	CT-C10	X	-.003	-.003	0	%100
60	SA1	X	-.004	-.004	0	%100
61	SA2	X	-.011	-.011	0	%100
62	SA3	X	-.006	-.006	0	%100
63	HR-1	X	-.007	-.007	0	%100
64	HR-2	X	-.004	-.004	0	%100
65	HR-3	X	-.004	-.004	0	%100
66	HRC-1	X	-.004	-.004	0	%100
67	HRC-2	X	-.009	-.009	0	%100
68	HRC-3	X	-.004	-.004	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	FF-H1	X	-.019	-.019	0	%100
2	SF1-H1	X	-.016	-.016	0	%100
3	SF2-H1	X	0	0	0	%100
4	GSI1	X	-.013	-.013	0	%100
5	GSI2	X	0	0	0	%100
6	GSI3	X	-.015	-.015	0	%100
7	I1	X	-.014	-.014	0	%100
8	I2	X	-.007	-.007	0	%100
9	LL-L	X	-.008	-.008	0	%100
10	LL-R	X	-.008	-.008	0	%100
11	LR-1	X	-.000488	-.000488	0	%100
12	LR-2	X	-.000488	-.000488	0	%100
13	LR-3	X	-.000488	-.000488	0	%100
14	LR-4	X	-.000488	-.000488	0	%100
15	LR-5	X	-.000488	-.000488	0	%100
16	LR-6	X	-.000488	-.000488	0	%100
17	LR-7	X	-.000488	-.000488	0	%100
18	MP-1	X	-.006	-.006	0	%100
19	MP-2	X	-.006	-.006	0	%100
20	MP-3	X	-.006	-.006	0	%100
21	MP-4	X	-.006	-.006	0	%100
22	MP-5	X	-.006	-.006	0	%100
23	MP-6	X	-.006	-.006	0	%100
24	MP-7	X	-.006	-.006	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,%]
25	MP-8	X	-.006	-.006	0	%100
26	MP-9	X	-.006	-.006	0	%100
27	MP-10	X	-.006	-.006	0	%100
28	MP-11	X	-.006	-.006	0	%100
29	MP-12	X	-.006	-.006	0	%100
30	CT-A1	X	-.002	-.002	0	%100
31	CT-A2	X	-.003	-.003	0	%100
32	CT-A3	X	-.003	-.003	0	%100
33	CT-A4	X	-.003	-.003	0	%100
34	CT-A5	X	-.003	-.003	0	%100
35	CT-A6	X	-.003	-.003	0	%100
36	CT-A7	X	-.002	-.002	0	%100
37	CT-A8	X	-.002	-.002	0	%100
38	CT-A9	X	-.001	-.001	0	%100
39	CT-A10	X	-.000827	-.000827	0	%100
40	CT-B1	X	-.00028	-.00028	0	%100
41	CT-B2	X	-.000292	-.000292	0	%100
42	CT-B3	X	-.000893	-.000893	0	%100
43	CT-B4	X	-.001	-.001	0	%100
44	CT-B5	X	-.002	-.002	0	%100
45	CT-B6	X	-.002	-.002	0	%100
46	CT-B7	X	-.003	-.003	0	%100
47	CT-B8	X	-.003	-.003	0	%100
48	CT-B9	X	-.003	-.003	0	%100
49	CT-B10	X	-.003	-.003	0	%100
50	CT-C1	X	-.003	-.003	0	%100
51	CT-C2	X	-.002	-.002	0	%100
52	CT-C3	X	-.002	-.002	0	%100
53	CT-C4	X	-.001	-.001	0	%100
54	CT-C5	X	-.000827	-.000827	0	%100
55	CT-C6	X	-.00028	-.00028	0	%100
56	CT-C7	X	-.000292	-.000292	0	%100
57	CT-C8	X	-.000893	-.000893	0	%100
58	CT-C9	X	-.001	-.001	0	%100
59	CT-C10	X	-.002	-.002	0	%100
60	SA1	X	-.000852	-.000852	0	%100
61	SA2	X	-.008	-.008	0	%100
62	SA3	X	-.008	-.008	0	%100
63	HR-1	X	-.006	-.006	0	%100
64	HR-2	X	0	0	0	%100
65	HR-3	X	-.006	-.006	0	%100
66	HRC-1	X	-.006	-.006	0	%100
67	HRC-2	X	-.007	-.007	0	%100
68	HRC-3	X	0	0	0	%100
69	FF-H1	Z	-.011	-.011	0	%100
70	SF1-H1	Z	-.011	-.011	0	%100
71	SF2-H1	Z	0	0	0	%100
72	GSI1	Z	-.008	-.008	0	%100
73	GSI2	Z	0	0	0	%100
74	GSI3	Z	-.009	-.009	0	%100
75	I1	Z	-.008	-.008	0	%100
76	I2	Z	-.004	-.004	0	%100
77	LL-L	Z	-.005	-.005	0	%100
78	LL-R	Z	-.005	-.005	0	%100
79	LR-1	Z	-.000474	-.000474	0	%100
80	LR-2	Z	-.000474	-.000474	0	%100
81	LR-3	Z	-.000474	-.000474	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
82	LR-4	Z	-.000474	-.000474	0	%100
83	LR-5	Z	-.000474	-.000474	0	%100
84	LR-6	Z	-.000474	-.000474	0	%100
85	LR-7	Z	-.000474	-.000474	0	%100
86	MP-1	Z	-.004	-.004	0	%100
87	MP-2	Z	-.004	-.004	0	%100
88	MP-3	Z	-.004	-.004	0	%100
89	MP-4	Z	-.004	-.004	0	%100
90	MP-5	Z	-.004	-.004	0	%100
91	MP-6	Z	-.004	-.004	0	%100
92	MP-7	Z	-.004	-.004	0	%100
93	MP-8	Z	-.004	-.004	0	%100
94	MP-9	Z	-.004	-.004	0	%100
95	MP-10	Z	-.004	-.004	0	%100
96	MP-11	Z	-.004	-.004	0	%100
97	MP-12	Z	-.004	-.004	0	%100
98	CT-A1	Z	-.001	-.001	0	%100
99	CT-A2	Z	-.001	-.001	0	%100
100	CT-A3	Z	-.002	-.002	0	%100
101	CT-A4	Z	-.002	-.002	0	%100
102	CT-A5	Z	-.002	-.002	0	%100
103	CT-A6	Z	-.002	-.002	0	%100
104	CT-A7	Z	-.001	-.001	0	%100
105	CT-A8	Z	-.001	-.001	0	%100
106	CT-A9	Z	-.00088	-.00088	0	%100
107	CT-A10	Z	-.000542	-.000542	0	%100
108	CT-B1	Z	-.000181	-.000181	0	%100
109	CT-B2	Z	-.000177	-.000177	0	%100
110	CT-B3	Z	-.000507	-.000507	0	%100
111	CT-B4	Z	-.000791	-.000791	0	%100
112	CT-B5	Z	-.001	-.001	0	%100
113	CT-B6	Z	-.001	-.001	0	%100
114	CT-B7	Z	-.001	-.001	0	%100
115	CT-B8	Z	-.002	-.002	0	%100
116	CT-B9	Z	-.002	-.002	0	%100
117	CT-B10	Z	-.002	-.002	0	%100
118	CT-C1	Z	-.002	-.002	0	%100
119	CT-C2	Z	-.001	-.001	0	%100
120	CT-C3	Z	-.001	-.001	0	%100
121	CT-C4	Z	-.00088	-.00088	0	%100
122	CT-C5	Z	-.000542	-.000542	0	%100
123	CT-C6	Z	-.000181	-.000181	0	%100
124	CT-C7	Z	-.000177	-.000177	0	%100
125	CT-C8	Z	-.000507	-.000507	0	%100
126	CT-C9	Z	-.000791	-.000791	0	%100
127	CT-C10	Z	-.001	-.001	0	%100
128	SA1	Z	-.000557	-.000557	0	%100
129	SA2	Z	-.004	-.004	0	%100
130	SA3	Z	-.005	-.005	0	%100
131	HR-1	Z	-.003	-.003	0	%100
132	HR-2	Z	0	0	0	%100
133	HR-3	Z	-.003	-.003	0	%100
134	HRC-1	Z	-.004	-.004	0	%100
135	HRC-2	Z	-.004	-.004	0	%100
136	HRC-3	Z	0	0	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	FF-H1	X	-.013	-.013	0	%100
2	SF1-H1	X	-.014	-.014	0	%100
3	SF2-H1	X	-.004	-.004	0	%100
4	GSI1	X	-.012	-.012	0	%100
5	GSI2	X	-.003	-.003	0	%100
6	GSI3	X	-.01	-.01	0	%100
7	I1	X	-.009	-.009	0	%100
8	I2	X	-.008	-.008	0	%100
9	LL-L	X	-.006	-.006	0	%100
10	LL-R	X	-.006	-.006	0	%100
11	LR-1	X	-.000563	-.000563	0	%100
12	LR-2	X	-.000563	-.000563	0	%100
13	LR-3	X	-.000563	-.000563	0	%100
14	LR-4	X	-.000563	-.000563	0	%100
15	LR-5	X	-.000563	-.000563	0	%100
16	LR-6	X	-.000563	-.000563	0	%100
17	LR-7	X	-.000563	-.000563	0	%100
18	MP-1	X	-.005	-.005	0	%100
19	MP-2	X	-.005	-.005	0	%100
20	MP-3	X	-.005	-.005	0	%100
21	MP-4	X	-.005	-.005	0	%100
22	MP-5	X	-.005	-.005	0	%100
23	MP-6	X	-.005	-.005	0	%100
24	MP-7	X	-.005	-.005	0	%100
25	MP-8	X	-.005	-.005	0	%100
26	MP-9	X	-.005	-.005	0	%100
27	MP-10	X	-.005	-.005	0	%100
28	MP-11	X	-.005	-.005	0	%100
29	MP-12	X	-.005	-.005	0	%100
30	CT-A1	X	-.002	-.002	0	%100
31	CT-A2	X	-.002	-.002	0	%100
32	CT-A3	X	-.002	-.002	0	%100
33	CT-A4	X	-.002	-.002	0	%100
34	CT-A5	X	-.002	-.002	0	%100
35	CT-A6	X	-.002	-.002	0	%100
36	CT-A7	X	-.002	-.002	0	%100
37	CT-A8	X	-.002	-.002	0	%100
38	CT-A9	X	-.002	-.002	0	%100
39	CT-A10	X	-.001	-.001	0	%100
40	CT-B1	X	-.000785	-.000785	0	%100
41	CT-B2	X	-.000357	-.000357	0	%100
42	CT-B3	X	-.000124	-.000124	0	%100
43	CT-B4	X	-.000627	-.000627	0	%100
44	CT-B5	X	-.001	-.001	0	%100
45	CT-B6	X	-.002	-.002	0	%100
46	CT-B7	X	-.002	-.002	0	%100
47	CT-B8	X	-.002	-.002	0	%100
48	CT-B9	X	-.002	-.002	0	%100
49	CT-B10	X	-.002	-.002	0	%100
50	CT-C1	X	-.002	-.002	0	%100
51	CT-C2	X	-.002	-.002	0	%100
52	CT-C3	X	-.002	-.002	0	%100
53	CT-C4	X	-.002	-.002	0	%100
54	CT-C5	X	-.001	-.001	0	%100
55	CT-C6	X	-.000785	-.000785	0	%100
56	CT-C7	X	-.000357	-.000357	0	%100
57	CT-C8	X	-.000124	-.000124	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,%]
58	CT-C9	X	-.000627	-.000627	0	%100
59	CT-C10	X	-.001	-.001	0	%100
60	SA1	X	-.002	-.002	0	%100
61	SA2	X	-.005	-.005	0	%100
62	SA3	X	-.007	-.007	0	%100
63	HR-1	X	-.004	-.004	0	%100
64	HR-2	X	-.001	-.001	0	%100
65	HR-3	X	-.005	-.005	0	%100
66	HRC-1	X	-.005	-.005	0	%100
67	HRC-2	X	-.004	-.004	0	%100
68	HRC-3	X	-.001	-.001	0	%100
69	FF-H1	Z	-.013	-.013	0	%100
70	SF1-H1	Z	-.018	-.018	0	%100
71	SF2-H1	Z	-.005	-.005	0	%100
72	GSI1	Z	-.013	-.013	0	%100
73	GSI2	Z	-.004	-.004	0	%100
74	GSI3	Z	-.01	-.01	0	%100
75	I1	Z	-.009	-.009	0	%100
76	I2	Z	-.008	-.008	0	%100
77	LL-L	Z	-.006	-.006	0	%100
78	LL-R	Z	-.006	-.006	0	%100
79	LR-1	Z	-.000948	-.000948	0	%100
80	LR-2	Z	-.000948	-.000948	0	%100
81	LR-3	Z	-.000948	-.000948	0	%100
82	LR-4	Z	-.000948	-.000948	0	%100
83	LR-5	Z	-.000948	-.000948	0	%100
84	LR-6	Z	-.000948	-.000948	0	%100
85	LR-7	Z	-.000948	-.000948	0	%100
86	MP-1	Z	-.005	-.005	0	%100
87	MP-2	Z	-.005	-.005	0	%100
88	MP-3	Z	-.005	-.005	0	%100
89	MP-4	Z	-.005	-.005	0	%100
90	MP-5	Z	-.005	-.005	0	%100
91	MP-6	Z	-.005	-.005	0	%100
92	MP-7	Z	-.005	-.005	0	%100
93	MP-8	Z	-.005	-.005	0	%100
94	MP-9	Z	-.005	-.005	0	%100
95	MP-10	Z	-.005	-.005	0	%100
96	MP-11	Z	-.005	-.005	0	%100
97	MP-12	Z	-.005	-.005	0	%100
98	CT-A1	Z	-.001	-.001	0	%100
99	CT-A2	Z	-.002	-.002	0	%100
100	CT-A3	Z	-.002	-.002	0	%100
101	CT-A4	Z	-.002	-.002	0	%100
102	CT-A5	Z	-.002	-.002	0	%100
103	CT-A6	Z	-.002	-.002	0	%100
104	CT-A7	Z	-.002	-.002	0	%100
105	CT-A8	Z	-.002	-.002	0	%100
106	CT-A9	Z	-.002	-.002	0	%100
107	CT-A10	Z	-.001	-.001	0	%100
108	CT-B1	Z	-.000877	-.000877	0	%100
109	CT-B2	Z	-.000374	-.000374	0	%100
110	CT-B3	Z	-.000122	-.000122	0	%100
111	CT-B4	Z	-.000579	-.000579	0	%100
112	CT-B5	Z	-.000992	-.000992	0	%100
113	CT-B6	Z	-.001	-.001	0	%100
114	CT-B7	Z	-.002	-.002	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,%]
115	CT-B8	Z	-.002	-.002	0	%100
116	CT-B9	Z	-.002	-.002	0	%100
117	CT-B10	Z	-.002	-.002	0	%100
118	CT-C1	Z	-.002	-.002	0	%100
119	CT-C2	Z	-.002	-.002	0	%100
120	CT-C3	Z	-.002	-.002	0	%100
121	CT-C4	Z	-.002	-.002	0	%100
122	CT-C5	Z	-.001	-.001	0	%100
123	CT-C6	Z	-.000877	-.000877	0	%100
124	CT-C7	Z	-.000374	-.000374	0	%100
125	CT-C8	Z	-.000122	-.000122	0	%100
126	CT-C9	Z	-.000579	-.000579	0	%100
127	CT-C10	Z	-.000992	-.000992	0	%100
128	SA1	Z	-.003	-.003	0	%100
129	SA2	Z	-.004	-.004	0	%100
130	SA3	Z	-.007	-.007	0	%100
131	HR-1	Z	-.004	-.004	0	%100
132	HR-2	Z	-.001	-.001	0	%100
133	HR-3	Z	-.005	-.005	0	%100
134	HRC-1	Z	-.006	-.006	0	%100
135	HRC-2	Z	-.004	-.004	0	%100
136	HRC-3	Z	-.002	-.002	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	FF-H1	X	-.006	-.006	0	%100
2	SF1-H1	X	-.011	-.011	0	%100
3	SF2-H1	X	-.005	-.005	0	%100
4	GSI1	X	-.009	-.009	0	%100
5	GSI2	X	-.004	-.004	0	%100
6	GSI3	X	-.005	-.005	0	%100
7	I1	X	-.005	-.005	0	%100
8	I2	X	-.007	-.007	0	%100
9	LL-L	X	-.005	-.005	0	%100
10	LL-R	X	-.005	-.005	0	%100
11	LR-1	X	-.000488	-.000488	0	%100
12	LR-2	X	-.000488	-.000488	0	%100
13	LR-3	X	-.000488	-.000488	0	%100
14	LR-4	X	-.000488	-.000488	0	%100
15	LR-5	X	-.000488	-.000488	0	%100
16	LR-6	X	-.000488	-.000488	0	%100
17	LR-7	X	-.000488	-.000488	0	%100
18	MP-1	X	-.004	-.004	0	%100
19	MP-2	X	-.004	-.004	0	%100
20	MP-3	X	-.004	-.004	0	%100
21	MP-4	X	-.004	-.004	0	%100
22	MP-5	X	-.004	-.004	0	%100
23	MP-6	X	-.004	-.004	0	%100
24	MP-7	X	-.004	-.004	0	%100
25	MP-8	X	-.004	-.004	0	%100
26	MP-9	X	-.004	-.004	0	%100
27	MP-10	X	-.004	-.004	0	%100
28	MP-11	X	-.004	-.004	0	%100
29	MP-12	X	-.004	-.004	0	%100
30	CT-A1	X	-.000715	-.000715	0	%100
31	CT-A2	X	-.001	-.001	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

Sept 4, 2019
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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,%]
32	CT-A3	X	-.001	-.001	0	%100
33	CT-A4	X	-.001	-.001	0	%100
34	CT-A5	X	-.002	-.002	0	%100
35	CT-A6	X	-.002	-.002	0	%100
36	CT-A7	X	-.002	-.002	0	%100
37	CT-A8	X	-.001	-.001	0	%100
38	CT-A9	X	-.001	-.001	0	%100
39	CT-A10	X	-.001	-.001	0	%100
40	CT-B1	X	-.00091	-.00091	0	%100
41	CT-B2	X	-.000656	-.000656	0	%100
42	CT-B3	X	-.000347	-.000347	0	%100
43	CT-B4	X	0	0	0	%100
44	CT-B5	X	-.000362	-.000362	0	%100
45	CT-B6	X	-.000715	-.000715	0	%100
46	CT-B7	X	-.001	-.001	0	%100
47	CT-B8	X	-.001	-.001	0	%100
48	CT-B9	X	-.001	-.001	0	%100
49	CT-B10	X	-.002	-.002	0	%100
50	CT-C1	X	-.002	-.002	0	%100
51	CT-C2	X	-.002	-.002	0	%100
52	CT-C3	X	-.001	-.001	0	%100
53	CT-C4	X	-.001	-.001	0	%100
54	CT-C5	X	-.001	-.001	0	%100
55	CT-C6	X	-.00091	-.00091	0	%100
56	CT-C7	X	-.000656	-.000656	0	%100
57	CT-C8	X	-.000347	-.000347	0	%100
58	CT-C9	X	0	0	0	%100
59	CT-C10	X	-.000362	-.000362	0	%100
60	SA1	X	-.003	-.003	0	%100
61	SA2	X	-.002	-.002	0	%100
62	SA3	X	-.005	-.005	0	%100
63	HR-1	X	-.002	-.002	0	%100
64	HR-2	X	-.002	-.002	0	%100
65	HR-3	X	-.004	-.004	0	%100
66	HRC-1	X	-.004	-.004	0	%100
67	HRC-2	X	-.002	-.002	0	%100
68	HRC-3	X	-.002	-.002	0	%100
69	FF-H1	Z	-.011	-.011	0	%100
70	SF1-H1	Z	-.022	-.022	0	%100
71	SF2-H1	Z	-.011	-.011	0	%100
72	GSI1	Z	-.017	-.017	0	%100
73	GSI2	Z	-.008	-.008	0	%100
74	GSI3	Z	-.009	-.009	0	%100
75	I1	Z	-.008	-.008	0	%100
76	I2	Z	-.012	-.012	0	%100
77	LL-L	Z	-.008	-.008	0	%100
78	LL-R	Z	-.008	-.008	0	%100
79	LR-1	Z	-.001	-.001	0	%100
80	LR-2	Z	-.001	-.001	0	%100
81	LR-3	Z	-.001	-.001	0	%100
82	LR-4	Z	-.001	-.001	0	%100
83	LR-5	Z	-.001	-.001	0	%100
84	LR-6	Z	-.001	-.001	0	%100
85	LR-7	Z	-.001	-.001	0	%100
86	MP-1	Z	-.006	-.006	0	%100
87	MP-2	Z	-.006	-.006	0	%100
88	MP-3	Z	-.006	-.006	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,%]
89	MP-4	Z	-.006	-.006	0	%100
90	MP-5	Z	-.006	-.006	0	%100
91	MP-6	Z	-.006	-.006	0	%100
92	MP-7	Z	-.006	-.006	0	%100
93	MP-8	Z	-.006	-.006	0	%100
94	MP-9	Z	-.006	-.006	0	%100
95	MP-10	Z	-.006	-.006	0	%100
96	MP-11	Z	-.006	-.006	0	%100
97	MP-12	Z	-.006	-.006	0	%100
98	CT-A1	Z	-.001	-.001	0	%100
99	CT-A2	Z	-.002	-.002	0	%100
100	CT-A3	Z	-.002	-.002	0	%100
101	CT-A4	Z	-.002	-.002	0	%100
102	CT-A5	Z	-.003	-.003	0	%100
103	CT-A6	Z	-.003	-.003	0	%100
104	CT-A7	Z	-.003	-.003	0	%100
105	CT-A8	Z	-.003	-.003	0	%100
106	CT-A9	Z	-.003	-.003	0	%100
107	CT-A10	Z	-.002	-.002	0	%100
108	CT-B1	Z	-.002	-.002	0	%100
109	CT-B2	Z	-.001	-.001	0	%100
110	CT-B3	Z	-.000591	-.000591	0	%100
111	CT-B4	Z	0	0	0	%100
112	CT-B5	Z	-.000556	-.000556	0	%100
113	CT-B6	Z	-.001	-.001	0	%100
114	CT-B7	Z	-.002	-.002	0	%100
115	CT-B8	Z	-.002	-.002	0	%100
116	CT-B9	Z	-.002	-.002	0	%100
117	CT-B10	Z	-.003	-.003	0	%100
118	CT-C1	Z	-.003	-.003	0	%100
119	CT-C2	Z	-.003	-.003	0	%100
120	CT-C3	Z	-.003	-.003	0	%100
121	CT-C4	Z	-.003	-.003	0	%100
122	CT-C5	Z	-.002	-.002	0	%100
123	CT-C6	Z	-.002	-.002	0	%100
124	CT-C7	Z	-.001	-.001	0	%100
125	CT-C8	Z	-.000591	-.000591	0	%100
126	CT-C9	Z	0	0	0	%100
127	CT-C10	Z	-.000556	-.000556	0	%100
128	SA1	Z	-.005	-.005	0	%100
129	SA2	Z	-.003	-.003	0	%100
130	SA3	Z	-.009	-.009	0	%100
131	HR-1	Z	-.003	-.003	0	%100
132	HR-2	Z	-.003	-.003	0	%100
133	HR-3	Z	-.006	-.006	0	%100
134	HRC-1	Z	-.007	-.007	0	%100
135	HRC-2	Z	-.004	-.004	0	%100
136	HRC-3	Z	-.004	-.004	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	FF-H1	Z	0	0	0	%100
2	SF1-H1	Z	-.022	-.022	0	%100
3	SF2-H1	Z	-.022	-.022	0	%100
4	GSI1	Z	-.017	-.017	0	%100
5	GSI2	Z	-.017	-.017	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
6	GSI3	Z	0	0	0	%100
7	I1	Z	0	0	0	%100
8	I2	Z	-.016	-.016	0	%100
9	LL-L	Z	-.009	-.009	0	%100
10	LL-R	Z	-.009	-.009	0	%100
11	LR-1	Z	-.002	-.002	0	%100
12	LR-2	Z	-.002	-.002	0	%100
13	LR-3	Z	-.002	-.002	0	%100
14	LR-4	Z	-.002	-.002	0	%100
15	LR-5	Z	-.002	-.002	0	%100
16	LR-6	Z	-.002	-.002	0	%100
17	LR-7	Z	-.002	-.002	0	%100
18	MP-1	Z	-.007	-.007	0	%100
19	MP-2	Z	-.007	-.007	0	%100
20	MP-3	Z	-.007	-.007	0	%100
21	MP-4	Z	-.007	-.007	0	%100
22	MP-5	Z	-.007	-.007	0	%100
23	MP-6	Z	-.007	-.007	0	%100
24	MP-7	Z	-.007	-.007	0	%100
25	MP-8	Z	-.007	-.007	0	%100
26	MP-9	Z	-.007	-.007	0	%100
27	MP-10	Z	-.007	-.007	0	%100
28	MP-11	Z	-.007	-.007	0	%100
29	MP-12	Z	-.007	-.007	0	%100
30	CT-A1	Z	-.000323	-.000323	0	%100
31	CT-A2	Z	-.000323	-.000323	0	%100
32	CT-A3	Z	-.000955	-.000955	0	%100
33	CT-A4	Z	-.002	-.002	0	%100
34	CT-A5	Z	-.002	-.002	0	%100
35	CT-A6	Z	-.003	-.003	0	%100
36	CT-A7	Z	-.003	-.003	0	%100
37	CT-A8	Z	-.003	-.003	0	%100
38	CT-A9	Z	-.004	-.004	0	%100
39	CT-A10	Z	-.003	-.003	0	%100
40	CT-B1	Z	-.003	-.003	0	%100
41	CT-B2	Z	-.003	-.003	0	%100
42	CT-B3	Z	-.002	-.002	0	%100
43	CT-B4	Z	-.002	-.002	0	%100
44	CT-B5	Z	-.000955	-.000955	0	%100
45	CT-B6	Z	-.000323	-.000323	0	%100
46	CT-B7	Z	-.000323	-.000323	0	%100
47	CT-B8	Z	-.000955	-.000955	0	%100
48	CT-B9	Z	-.002	-.002	0	%100
49	CT-B10	Z	-.002	-.002	0	%100
50	CT-C1	Z	-.003	-.003	0	%100
51	CT-C2	Z	-.003	-.003	0	%100
52	CT-C3	Z	-.003	-.003	0	%100
53	CT-C4	Z	-.004	-.004	0	%100
54	CT-C5	Z	-.003	-.003	0	%100
55	CT-C6	Z	-.003	-.003	0	%100
56	CT-C7	Z	-.003	-.003	0	%100
57	CT-C8	Z	-.002	-.002	0	%100
58	CT-C9	Z	-.002	-.002	0	%100
59	CT-C10	Z	-.000955	-.000955	0	%100
60	SA1	Z	-.01	-.01	0	%100
61	SA2	Z	-.000969	-.000969	0	%100
62	SA3	Z	-.008	-.008	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,%]
63	HR-1	Z	0	0	0	%100
64	HR-2	Z	-.006	-.006	0	%100
65	HR-3	Z	-.006	-.006	0	%100
66	HRC-1	Z	-.007	-.007	0	%100
67	HRC-2	Z	0	0	0	%100
68	HRC-3	Z	-.007	-.007	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	FF-H1	X	.006	.006	0	%100
2	SF1-H1	X	.005	.005	0	%100
3	SF2-H1	X	.011	.011	0	%100
4	GSI1	X	.004	.004	0	%100
5	GSI2	X	.009	.009	0	%100
6	GSI3	X	.005	.005	0	%100
7	I1	X	.005	.005	0	%100
8	I2	X	.007	.007	0	%100
9	LL-L	X	.005	.005	0	%100
10	LL-R	X	.005	.005	0	%100
11	LR-1	X	.000488	.000488	0	%100
12	LR-2	X	.000488	.000488	0	%100
13	LR-3	X	.000488	.000488	0	%100
14	LR-4	X	.000488	.000488	0	%100
15	LR-5	X	.000488	.000488	0	%100
16	LR-6	X	.000488	.000488	0	%100
17	LR-7	X	.000488	.000488	0	%100
18	MP-1	X	.004	.004	0	%100
19	MP-2	X	.004	.004	0	%100
20	MP-3	X	.004	.004	0	%100
21	MP-4	X	.004	.004	0	%100
22	MP-5	X	.004	.004	0	%100
23	MP-6	X	.004	.004	0	%100
24	MP-7	X	.004	.004	0	%100
25	MP-8	X	.004	.004	0	%100
26	MP-9	X	.004	.004	0	%100
27	MP-10	X	.004	.004	0	%100
28	MP-11	X	.004	.004	0	%100
29	MP-12	X	.004	.004	0	%100
30	CT-A1	X	.001	.001	0	%100
31	CT-A2	X	.000715	.000715	0	%100
32	CT-A3	X	.000362	.000362	0	%100
33	CT-A4	X	0	0	0	%100
34	CT-A5	X	.000347	.000347	0	%100
35	CT-A6	X	.000656	.000656	0	%100
36	CT-A7	X	.00091	.00091	0	%100
37	CT-A8	X	.001	.001	0	%100
38	CT-A9	X	.001	.001	0	%100
39	CT-A10	X	.001	.001	0	%100
40	CT-B1	X	.002	.002	0	%100
41	CT-B2	X	.002	.002	0	%100
42	CT-B3	X	.002	.002	0	%100
43	CT-B4	X	.001	.001	0	%100
44	CT-B5	X	.001	.001	0	%100
45	CT-B6	X	.001	.001	0	%100
46	CT-B7	X	.000715	.000715	0	%100
47	CT-B8	X	.000362	.000362	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
48	CT-B9	X	0	0	0	%100
49	CT-B10	X	.000347	.000347	0	%100
50	CT-C1	X	.000656	.000656	0	%100
51	CT-C2	X	.00091	.00091	0	%100
52	CT-C3	X	.001	.001	0	%100
53	CT-C4	X	.001	.001	0	%100
54	CT-C5	X	.001	.001	0	%100
55	CT-C6	X	.002	.002	0	%100
56	CT-C7	X	.002	.002	0	%100
57	CT-C8	X	.002	.002	0	%100
58	CT-C9	X	.001	.001	0	%100
59	CT-C10	X	.001	.001	0	%100
60	SA1	X	.005	.005	0	%100
61	SA2	X	.003	.003	0	%100
62	SA3	X	.002	.002	0	%100
63	HR-1	X	.002	.002	0	%100
64	HR-2	X	.004	.004	0	%100
65	HR-3	X	.002	.002	0	%100
66	HRC-1	X	.002	.002	0	%100
67	HRC-2	X	.002	.002	0	%100
68	HRC-3	X	.004	.004	0	%100
69	FF-H1	Z	-.011	-.011	0	%100
70	SF1-H1	Z	-.011	-.011	0	%100
71	SF2-H1	Z	-.022	-.022	0	%100
72	GSI1	Z	-.008	-.008	0	%100
73	GSI2	Z	-.017	-.017	0	%100
74	GSI3	Z	-.009	-.009	0	%100
75	I1	Z	-.008	-.008	0	%100
76	I2	Z	-.012	-.012	0	%100
77	LL-L	Z	-.008	-.008	0	%100
78	LL-R	Z	-.008	-.008	0	%100
79	LR-1	Z	-.001	-.001	0	%100
80	LR-2	Z	-.001	-.001	0	%100
81	LR-3	Z	-.001	-.001	0	%100
82	LR-4	Z	-.001	-.001	0	%100
83	LR-5	Z	-.001	-.001	0	%100
84	LR-6	Z	-.001	-.001	0	%100
85	LR-7	Z	-.001	-.001	0	%100
86	MP-1	Z	-.006	-.006	0	%100
87	MP-2	Z	-.006	-.006	0	%100
88	MP-3	Z	-.006	-.006	0	%100
89	MP-4	Z	-.006	-.006	0	%100
90	MP-5	Z	-.006	-.006	0	%100
91	MP-6	Z	-.006	-.006	0	%100
92	MP-7	Z	-.006	-.006	0	%100
93	MP-8	Z	-.006	-.006	0	%100
94	MP-9	Z	-.006	-.006	0	%100
95	MP-10	Z	-.006	-.006	0	%100
96	MP-11	Z	-.006	-.006	0	%100
97	MP-12	Z	-.006	-.006	0	%100
98	CT-A1	Z	-.002	-.002	0	%100
99	CT-A2	Z	-.001	-.001	0	%100
100	CT-A3	Z	-.000556	-.000556	0	%100
101	CT-A4	Z	0	0	0	%100
102	CT-A5	Z	-.000591	-.000591	0	%100
103	CT-A6	Z	-.001	-.001	0	%100
104	CT-A7	Z	-.002	-.002	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,%]
105	CT-A8	Z	-.002	-.002	0	%100
106	CT-A9	Z	-.003	-.003	0	%100
107	CT-A10	Z	-.003	-.003	0	%100
108	CT-B1	Z	-.003	-.003	0	%100
109	CT-B2	Z	-.003	-.003	0	%100
110	CT-B3	Z	-.003	-.003	0	%100
111	CT-B4	Z	-.002	-.002	0	%100
112	CT-B5	Z	-.002	-.002	0	%100
113	CT-B6	Z	-.002	-.002	0	%100
114	CT-B7	Z	-.001	-.001	0	%100
115	CT-B8	Z	-.000556	-.000556	0	%100
116	CT-B9	Z	0	0	0	%100
117	CT-B10	Z	-.000591	-.000591	0	%100
118	CT-C1	Z	-.001	-.001	0	%100
119	CT-C2	Z	-.002	-.002	0	%100
120	CT-C3	Z	-.002	-.002	0	%100
121	CT-C4	Z	-.003	-.003	0	%100
122	CT-C5	Z	-.003	-.003	0	%100
123	CT-C6	Z	-.003	-.003	0	%100
124	CT-C7	Z	-.003	-.003	0	%100
125	CT-C8	Z	-.003	-.003	0	%100
126	CT-C9	Z	-.002	-.002	0	%100
127	CT-C10	Z	-.002	-.002	0	%100
128	SA1	Z	-.009	-.009	0	%100
129	SA2	Z	-.005	-.005	0	%100
130	SA3	Z	-.004	-.004	0	%100
131	HR-1	Z	-.003	-.003	0	%100
132	HR-2	Z	-.006	-.006	0	%100
133	HR-3	Z	-.003	-.003	0	%100
134	HRC-1	Z	-.004	-.004	0	%100
135	HRC-2	Z	-.004	-.004	0	%100
136	HRC-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	FF-H1	X	.013	.013	0	%100
2	SF1-H1	X	.004	.004	0	%100
3	SF2-H1	X	.014	.014	0	%100
4	GSI1	X	.003	.003	0	%100
5	GSI2	X	.012	.012	0	%100
6	GSI3	X	.01	.01	0	%100
7	I1	X	.009	.009	0	%100
8	I2	X	.008	.008	0	%100
9	LL-L	X	.006	.006	0	%100
10	LL-R	X	.006	.006	0	%100
11	LR-1	X	.000563	.000563	0	%100
12	LR-2	X	.000563	.000563	0	%100
13	LR-3	X	.000563	.000563	0	%100
14	LR-4	X	.000563	.000563	0	%100
15	LR-5	X	.000563	.000563	0	%100
16	LR-6	X	.000563	.000563	0	%100
17	LR-7	X	.000563	.000563	0	%100
18	MP-1	X	.005	.005	0	%100
19	MP-2	X	.005	.005	0	%100
20	MP-3	X	.005	.005	0	%100
21	MP-4	X	.005	.005	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
22	MP-5	X	.005	.005	0	%100
23	MP-6	X	.005	.005	0	%100
24	MP-7	X	.005	.005	0	%100
25	MP-8	X	.005	.005	0	%100
26	MP-9	X	.005	.005	0	%100
27	MP-10	X	.005	.005	0	%100
28	MP-11	X	.005	.005	0	%100
29	MP-12	X	.005	.005	0	%100
30	CT-A1	X	.002	.002	0	%100
31	CT-A2	X	.002	.002	0	%100
32	CT-A3	X	.001	.001	0	%100
33	CT-A4	X	.000627	.000627	0	%100
34	CT-A5	X	.000123	.000123	0	%100
35	CT-A6	X	.000357	.000357	0	%100
36	CT-A7	X	.000785	.000785	0	%100
37	CT-A8	X	.001	.001	0	%100
38	CT-A9	X	.002	.002	0	%100
39	CT-A10	X	.002	.002	0	%100
40	CT-B1	X	.002	.002	0	%100
41	CT-B2	X	.002	.002	0	%100
42	CT-B3	X	.002	.002	0	%100
43	CT-B4	X	.002	.002	0	%100
44	CT-B5	X	.002	.002	0	%100
45	CT-B6	X	.002	.002	0	%100
46	CT-B7	X	.002	.002	0	%100
47	CT-B8	X	.001	.001	0	%100
48	CT-B9	X	.000627	.000627	0	%100
49	CT-B10	X	.000123	.000123	0	%100
50	CT-C1	X	.000357	.000357	0	%100
51	CT-C2	X	.000785	.000785	0	%100
52	CT-C3	X	.001	.001	0	%100
53	CT-C4	X	.002	.002	0	%100
54	CT-C5	X	.002	.002	0	%100
55	CT-C6	X	.002	.002	0	%100
56	CT-C7	X	.002	.002	0	%100
57	CT-C8	X	.002	.002	0	%100
58	CT-C9	X	.002	.002	0	%100
59	CT-C10	X	.002	.002	0	%100
60	SA1	X	.006	.006	0	%100
61	SA2	X	.006	.006	0	%100
62	SA3	X	.001	.001	0	%100
63	HR-1	X	.004	.004	0	%100
64	HR-2	X	.005	.005	0	%100
65	HR-3	X	.001	.001	0	%100
66	HRC-1	X	.001	.001	0	%100
67	HRC-2	X	.004	.004	0	%100
68	HRC-3	X	.005	.005	0	%100
69	FF-H1	Z	-.013	-.013	0	%100
70	SF1-H1	Z	-.005	-.005	0	%100
71	SF2-H1	Z	-.018	-.018	0	%100
72	GSI1	Z	-.004	-.004	0	%100
73	GSI2	Z	-.013	-.013	0	%100
74	GSI3	Z	-.01	-.01	0	%100
75	I1	Z	-.009	-.009	0	%100
76	I2	Z	-.008	-.008	0	%100
77	LL-L	Z	-.006	-.006	0	%100
78	LL-R	Z	-.006	-.006	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,%]
79	LR-1	Z	-.000948	-.000948	0	%100
80	LR-2	Z	-.000948	-.000948	0	%100
81	LR-3	Z	-.000948	-.000948	0	%100
82	LR-4	Z	-.000948	-.000948	0	%100
83	LR-5	Z	-.000948	-.000948	0	%100
84	LR-6	Z	-.000948	-.000948	0	%100
85	LR-7	Z	-.000948	-.000948	0	%100
86	MP-1	Z	-.005	-.005	0	%100
87	MP-2	Z	-.005	-.005	0	%100
88	MP-3	Z	-.005	-.005	0	%100
89	MP-4	Z	-.005	-.005	0	%100
90	MP-5	Z	-.005	-.005	0	%100
91	MP-6	Z	-.005	-.005	0	%100
92	MP-7	Z	-.005	-.005	0	%100
93	MP-8	Z	-.005	-.005	0	%100
94	MP-9	Z	-.005	-.005	0	%100
95	MP-10	Z	-.005	-.005	0	%100
96	MP-11	Z	-.005	-.005	0	%100
97	MP-12	Z	-.005	-.005	0	%100
98	CT-A1	Z	-.002	-.002	0	%100
99	CT-A2	Z	-.001	-.001	0	%100
100	CT-A3	Z	-.000992	-.000992	0	%100
101	CT-A4	Z	-.000579	-.000579	0	%100
102	CT-A5	Z	-.000122	-.000122	0	%100
103	CT-A6	Z	-.000374	-.000374	0	%100
104	CT-A7	Z	-.000877	-.000877	0	%100
105	CT-A8	Z	-.001	-.001	0	%100
106	CT-A9	Z	-.002	-.002	0	%100
107	CT-A10	Z	-.002	-.002	0	%100
108	CT-B1	Z	-.002	-.002	0	%100
109	CT-B2	Z	-.002	-.002	0	%100
110	CT-B3	Z	-.002	-.002	0	%100
111	CT-B4	Z	-.002	-.002	0	%100
112	CT-B5	Z	-.002	-.002	0	%100
113	CT-B6	Z	-.002	-.002	0	%100
114	CT-B7	Z	-.001	-.001	0	%100
115	CT-B8	Z	-.000992	-.000992	0	%100
116	CT-B9	Z	-.000579	-.000579	0	%100
117	CT-B10	Z	-.000122	-.000122	0	%100
118	CT-C1	Z	-.000374	-.000374	0	%100
119	CT-C2	Z	-.000877	-.000877	0	%100
120	CT-C3	Z	-.001	-.001	0	%100
121	CT-C4	Z	-.002	-.002	0	%100
122	CT-C5	Z	-.002	-.002	0	%100
123	CT-C6	Z	-.002	-.002	0	%100
124	CT-C7	Z	-.002	-.002	0	%100
125	CT-C8	Z	-.002	-.002	0	%100
126	CT-C9	Z	-.002	-.002	0	%100
127	CT-C10	Z	-.002	-.002	0	%100
128	SA1	Z	-.007	-.007	0	%100
129	SA2	Z	-.005	-.005	0	%100
130	SA3	Z	-.001	-.001	0	%100
131	HR-1	Z	-.004	-.004	0	%100
132	HR-2	Z	-.005	-.005	0	%100
133	HR-3	Z	-.001	-.001	0	%100
134	HRC-1	Z	-.002	-.002	0	%100
135	HRC-2	Z	-.004	-.004	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
136	HRC-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	FF-H1	X	.019	.019	0	%100
2	SF1-H1	X	0	0	0	%100
3	SF2-H1	X	.016	.016	0	%100
4	GSI1	X	0	0	0	%100
5	GSI2	X	.013	.013	0	%100
6	GSI3	X	.015	.015	0	%100
7	I1	X	.014	.014	0	%100
8	I2	X	.007	.007	0	%100
9	LL-L	X	.008	.008	0	%100
10	LL-R	X	.008	.008	0	%100
11	LR-1	X	.000488	.000488	0	%100
12	LR-2	X	.000488	.000488	0	%100
13	LR-3	X	.000488	.000488	0	%100
14	LR-4	X	.000488	.000488	0	%100
15	LR-5	X	.000488	.000488	0	%100
16	LR-6	X	.000488	.000488	0	%100
17	LR-7	X	.000488	.000488	0	%100
18	MP-1	X	.006	.006	0	%100
19	MP-2	X	.006	.006	0	%100
20	MP-3	X	.006	.006	0	%100
21	MP-4	X	.006	.006	0	%100
22	MP-5	X	.006	.006	0	%100
23	MP-6	X	.006	.006	0	%100
24	MP-7	X	.006	.006	0	%100
25	MP-8	X	.006	.006	0	%100
26	MP-9	X	.006	.006	0	%100
27	MP-10	X	.006	.006	0	%100
28	MP-11	X	.006	.006	0	%100
29	MP-12	X	.006	.006	0	%100
30	CT-A1	X	.003	.003	0	%100
31	CT-A2	X	.002	.002	0	%100
32	CT-A3	X	.002	.002	0	%100
33	CT-A4	X	.001	.001	0	%100
34	CT-A5	X	.000893	.000893	0	%100
35	CT-A6	X	.000292	.000292	0	%100
36	CT-A7	X	.00028	.00028	0	%100
37	CT-A8	X	.000827	.000827	0	%100
38	CT-A9	X	.001	.001	0	%100
39	CT-A10	X	.002	.002	0	%100
40	CT-B1	X	.002	.002	0	%100
41	CT-B2	X	.003	.003	0	%100
42	CT-B3	X	.003	.003	0	%100
43	CT-B4	X	.003	.003	0	%100
44	CT-B5	X	.003	.003	0	%100
45	CT-B6	X	.003	.003	0	%100
46	CT-B7	X	.002	.002	0	%100
47	CT-B8	X	.002	.002	0	%100
48	CT-B9	X	.001	.001	0	%100
49	CT-B10	X	.000893	.000893	0	%100
50	CT-C1	X	.000292	.000292	0	%100
51	CT-C2	X	.00028	.00028	0	%100
52	CT-C3	X	.000827	.000827	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,%]
53	CT-C4	X	.001	.001	0	%100
54	CT-C5	X	.002	.002	0	%100
55	CT-C6	X	.002	.002	0	%100
56	CT-C7	X	.003	.003	0	%100
57	CT-C8	X	.003	.003	0	%100
58	CT-C9	X	.003	.003	0	%100
59	CT-C10	X	.003	.003	0	%100
60	SA1	X	.007	.007	0	%100
61	SA2	X	.009	.009	0	%100
62	SA3	X	.000892	.000892	0	%100
63	HR-1	X	.006	.006	0	%100
64	HR-2	X	.006	.006	0	%100
65	HR-3	X	0	0	0	%100
66	HRC-1	X	0	0	0	%100
67	HRC-2	X	.007	.007	0	%100
68	HRC-3	X	.006	.006	0	%100
69	FF-H1	Z	-.011	-.011	0	%100
70	SF1-H1	Z	0	0	0	%100
71	SF2-H1	Z	-.011	-.011	0	%100
72	GSI1	Z	0	0	0	%100
73	GSI2	Z	-.008	-.008	0	%100
74	GSI3	Z	-.009	-.009	0	%100
75	I1	Z	-.008	-.008	0	%100
76	I2	Z	-.004	-.004	0	%100
77	LL-L	Z	-.005	-.005	0	%100
78	LL-R	Z	-.005	-.005	0	%100
79	LR-1	Z	-.000474	-.000474	0	%100
80	LR-2	Z	-.000474	-.000474	0	%100
81	LR-3	Z	-.000474	-.000474	0	%100
82	LR-4	Z	-.000474	-.000474	0	%100
83	LR-5	Z	-.000474	-.000474	0	%100
84	LR-6	Z	-.000474	-.000474	0	%100
85	LR-7	Z	-.000474	-.000474	0	%100
86	MP-1	Z	-.004	-.004	0	%100
87	MP-2	Z	-.004	-.004	0	%100
88	MP-3	Z	-.004	-.004	0	%100
89	MP-4	Z	-.004	-.004	0	%100
90	MP-5	Z	-.004	-.004	0	%100
91	MP-6	Z	-.004	-.004	0	%100
92	MP-7	Z	-.004	-.004	0	%100
93	MP-8	Z	-.004	-.004	0	%100
94	MP-9	Z	-.004	-.004	0	%100
95	MP-10	Z	-.004	-.004	0	%100
96	MP-11	Z	-.004	-.004	0	%100
97	MP-12	Z	-.004	-.004	0	%100
98	CT-A1	Z	-.001	-.001	0	%100
99	CT-A2	Z	-.001	-.001	0	%100
100	CT-A3	Z	-.001	-.001	0	%100
101	CT-A4	Z	-.000791	-.000791	0	%100
102	CT-A5	Z	-.000507	-.000507	0	%100
103	CT-A6	Z	-.000177	-.000177	0	%100
104	CT-A7	Z	-.000181	-.000181	0	%100
105	CT-A8	Z	-.000542	-.000542	0	%100
106	CT-A9	Z	-.00088	-.00088	0	%100
107	CT-A10	Z	-.001	-.001	0	%100
108	CT-B1	Z	-.001	-.001	0	%100
109	CT-B2	Z	-.002	-.002	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
110	CT-B3	Z	-.002	-.002	0	%100
111	CT-B4	Z	-.002	-.002	0	%100
112	CT-B5	Z	-.002	-.002	0	%100
113	CT-B6	Z	-.001	-.001	0	%100
114	CT-B7	Z	-.001	-.001	0	%100
115	CT-B8	Z	-.001	-.001	0	%100
116	CT-B9	Z	-.000791	-.000791	0	%100
117	CT-B10	Z	-.000507	-.000507	0	%100
118	CT-C1	Z	-.000177	-.000177	0	%100
119	CT-C2	Z	-.000181	-.000181	0	%100
120	CT-C3	Z	-.000542	-.000542	0	%100
121	CT-C4	Z	-.00088	-.00088	0	%100
122	CT-C5	Z	-.001	-.001	0	%100
123	CT-C6	Z	-.001	-.001	0	%100
124	CT-C7	Z	-.002	-.002	0	%100
125	CT-C8	Z	-.002	-.002	0	%100
126	CT-C9	Z	-.002	-.002	0	%100
127	CT-C10	Z	-.002	-.002	0	%100
128	SA1	Z	-.004	-.004	0	%100
129	SA2	Z	-.004	-.004	0	%100
130	SA3	Z	-.000544	-.000544	0	%100
131	HR-1	Z	-.003	-.003	0	%100
132	HR-2	Z	-.003	-.003	0	%100
133	HR-3	Z	0	0	0	%100
134	HRC-1	Z	0	0	0	%100
135	HRC-2	Z	-.004	-.004	0	%100
136	HRC-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	FF-H1	X	.026	.026	0	%100
2	SF1-H1	X	.011	.011	0	%100
3	SF2-H1	X	.011	.011	0	%100
4	GSI1	X	.009	.009	0	%100
5	GSI2	X	.009	.009	0	%100
6	GSI3	X	.02	.02	0	%100
7	I1	X	.018	.018	0	%100
8	I2	X	0	0	0	%100
9	LL-L	X	.009	.009	0	%100
10	LL-R	X	.009	.009	0	%100
11	LR-1	X	0	0	0	%100
12	LR-2	X	0	0	0	%100
13	LR-3	X	0	0	0	%100
14	LR-4	X	0	0	0	%100
15	LR-5	X	0	0	0	%100
16	LR-6	X	0	0	0	%100
17	LR-7	X	0	0	0	%100
18	MP-1	X	.007	.007	0	%100
19	MP-2	X	.007	.007	0	%100
20	MP-3	X	.007	.007	0	%100
21	MP-4	X	.007	.007	0	%100
22	MP-5	X	.007	.007	0	%100
23	MP-6	X	.007	.007	0	%100
24	MP-7	X	.007	.007	0	%100
25	MP-8	X	.007	.007	0	%100
26	MP-9	X	.007	.007	0	%100

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,%]
27	MP-10	X	.007	.007	0	%100
28	MP-11	X	.007	.007	0	%100
29	MP-12	X	.007	.007	0	%100
30	CT-A1	X	.003	.003	0	%100
31	CT-A2	X	.003	.003	0	%100
32	CT-A3	X	.003	.003	0	%100
33	CT-A4	X	.003	.003	0	%100
34	CT-A5	X	.002	.002	0	%100
35	CT-A6	X	.002	.002	0	%100
36	CT-A7	X	.001	.001	0	%100
37	CT-A8	X	.000642	.000642	0	%100
38	CT-A9	X	0	0	0	%100
39	CT-A10	X	.000642	.000642	0	%100
40	CT-B1	X	.001	.001	0	%100
41	CT-B2	X	.002	.002	0	%100
42	CT-B3	X	.002	.002	0	%100
43	CT-B4	X	.003	.003	0	%100
44	CT-B5	X	.003	.003	0	%100
45	CT-B6	X	.003	.003	0	%100
46	CT-B7	X	.003	.003	0	%100
47	CT-B8	X	.003	.003	0	%100
48	CT-B9	X	.003	.003	0	%100
49	CT-B10	X	.002	.002	0	%100
50	CT-C1	X	.002	.002	0	%100
51	CT-C2	X	.001	.001	0	%100
52	CT-C3	X	.000642	.000642	0	%100
53	CT-C4	X	0	0	0	%100
54	CT-C5	X	.000642	.000642	0	%100
55	CT-C6	X	.001	.001	0	%100
56	CT-C7	X	.002	.002	0	%100
57	CT-C8	X	.002	.002	0	%100
58	CT-C9	X	.003	.003	0	%100
59	CT-C10	X	.003	.003	0	%100
60	SA1	X	.004	.004	0	%100
61	SA2	X	.011	.011	0	%100
62	SA3	X	.006	.006	0	%100
63	HR-1	X	.007	.007	0	%100
64	HR-2	X	.004	.004	0	%100
65	HR-3	X	.004	.004	0	%100
66	HRC-1	X	.004	.004	0	%100
67	HRC-2	X	.009	.009	0	%100
68	HRC-3	X	.004	.004	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	FF-H1	X	.019	.019	0	%100
2	SF1-H1	X	.016	.016	0	%100
3	SF2-H1	X	0	0	0	%100
4	GSI1	X	.013	.013	0	%100
5	GSI2	X	0	0	0	%100
6	GSI3	X	.015	.015	0	%100
7	I1	X	.014	.014	0	%100
8	I2	X	.007	.007	0	%100
9	LL-L	X	.008	.008	0	%100
10	LL-R	X	.008	.008	0	%100
11	LR-1	X	.000488	.000488	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
12	LR-2	X	.000488	.000488	0	%100
13	LR-3	X	.000488	.000488	0	%100
14	LR-4	X	.000488	.000488	0	%100
15	LR-5	X	.000488	.000488	0	%100
16	LR-6	X	.000488	.000488	0	%100
17	LR-7	X	.000488	.000488	0	%100
18	MP-1	X	.006	.006	0	%100
19	MP-2	X	.006	.006	0	%100
20	MP-3	X	.006	.006	0	%100
21	MP-4	X	.006	.006	0	%100
22	MP-5	X	.006	.006	0	%100
23	MP-6	X	.006	.006	0	%100
24	MP-7	X	.006	.006	0	%100
25	MP-8	X	.006	.006	0	%100
26	MP-9	X	.006	.006	0	%100
27	MP-10	X	.006	.006	0	%100
28	MP-11	X	.006	.006	0	%100
29	MP-12	X	.006	.006	0	%100
30	CT-A1	X	.002	.002	0	%100
31	CT-A2	X	.003	.003	0	%100
32	CT-A3	X	.003	.003	0	%100
33	CT-A4	X	.003	.003	0	%100
34	CT-A5	X	.003	.003	0	%100
35	CT-A6	X	.003	.003	0	%100
36	CT-A7	X	.002	.002	0	%100
37	CT-A8	X	.002	.002	0	%100
38	CT-A9	X	.001	.001	0	%100
39	CT-A10	X	.000827	.000827	0	%100
40	CT-B1	X	.00028	.00028	0	%100
41	CT-B2	X	.000292	.000292	0	%100
42	CT-B3	X	.000893	.000893	0	%100
43	CT-B4	X	.001	.001	0	%100
44	CT-B5	X	.002	.002	0	%100
45	CT-B6	X	.002	.002	0	%100
46	CT-B7	X	.003	.003	0	%100
47	CT-B8	X	.003	.003	0	%100
48	CT-B9	X	.003	.003	0	%100
49	CT-B10	X	.003	.003	0	%100
50	CT-C1	X	.003	.003	0	%100
51	CT-C2	X	.002	.002	0	%100
52	CT-C3	X	.002	.002	0	%100
53	CT-C4	X	.001	.001	0	%100
54	CT-C5	X	.000827	.000827	0	%100
55	CT-C6	X	.00028	.00028	0	%100
56	CT-C7	X	.000292	.000292	0	%100
57	CT-C8	X	.000893	.000893	0	%100
58	CT-C9	X	.001	.001	0	%100
59	CT-C10	X	.002	.002	0	%100
60	SA1	X	.000852	.000852	0	%100
61	SA2	X	.008	.008	0	%100
62	SA3	X	.008	.008	0	%100
63	HR-1	X	.006	.006	0	%100
64	HR-2	X	0	0	0	%100
65	HR-3	X	.006	.006	0	%100
66	HRC-1	X	.006	.006	0	%100
67	HRC-2	X	.007	.007	0	%100
68	HRC-3	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,%]
69	FF-H1	Z	.011	.011	0	%100
70	SF1-H1	Z	.011	.011	0	%100
71	SF2-H1	Z	0	0	0	%100
72	GSI1	Z	.008	.008	0	%100
73	GSI2	Z	0	0	0	%100
74	GSI3	Z	.009	.009	0	%100
75	I1	Z	.008	.008	0	%100
76	I2	Z	.004	.004	0	%100
77	LL-L	Z	.005	.005	0	%100
78	LL-R	Z	.005	.005	0	%100
79	LR-1	Z	.000474	.000474	0	%100
80	LR-2	Z	.000474	.000474	0	%100
81	LR-3	Z	.000474	.000474	0	%100
82	LR-4	Z	.000474	.000474	0	%100
83	LR-5	Z	.000474	.000474	0	%100
84	LR-6	Z	.000474	.000474	0	%100
85	LR-7	Z	.000474	.000474	0	%100
86	MP-1	Z	.004	.004	0	%100
87	MP-2	Z	.004	.004	0	%100
88	MP-3	Z	.004	.004	0	%100
89	MP-4	Z	.004	.004	0	%100
90	MP-5	Z	.004	.004	0	%100
91	MP-6	Z	.004	.004	0	%100
92	MP-7	Z	.004	.004	0	%100
93	MP-8	Z	.004	.004	0	%100
94	MP-9	Z	.004	.004	0	%100
95	MP-10	Z	.004	.004	0	%100
96	MP-11	Z	.004	.004	0	%100
97	MP-12	Z	.004	.004	0	%100
98	CT-A1	Z	.001	.001	0	%100
99	CT-A2	Z	.001	.001	0	%100
100	CT-A3	Z	.002	.002	0	%100
101	CT-A4	Z	.002	.002	0	%100
102	CT-A5	Z	.002	.002	0	%100
103	CT-A6	Z	.002	.002	0	%100
104	CT-A7	Z	.001	.001	0	%100
105	CT-A8	Z	.001	.001	0	%100
106	CT-A9	Z	.00088	.00088	0	%100
107	CT-A10	Z	.000542	.000542	0	%100
108	CT-B1	Z	.000181	.000181	0	%100
109	CT-B2	Z	.000177	.000177	0	%100
110	CT-B3	Z	.000507	.000507	0	%100
111	CT-B4	Z	.000791	.000791	0	%100
112	CT-B5	Z	.001	.001	0	%100
113	CT-B6	Z	.001	.001	0	%100
114	CT-B7	Z	.001	.001	0	%100
115	CT-B8	Z	.002	.002	0	%100
116	CT-B9	Z	.002	.002	0	%100
117	CT-B10	Z	.002	.002	0	%100
118	CT-C1	Z	.002	.002	0	%100
119	CT-C2	Z	.001	.001	0	%100
120	CT-C3	Z	.001	.001	0	%100
121	CT-C4	Z	.00088	.00088	0	%100
122	CT-C5	Z	.000542	.000542	0	%100
123	CT-C6	Z	.000181	.000181	0	%100
124	CT-C7	Z	.000177	.000177	0	%100
125	CT-C8	Z	.000507	.000507	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
126	CT-C9	Z	.000791	.000791	0	%100
127	CT-C10	Z	.001	.001	0	%100
128	SA1	Z	.000557	.000557	0	%100
129	SA2	Z	.004	.004	0	%100
130	SA3	Z	.005	.005	0	%100
131	HR-1	Z	.003	.003	0	%100
132	HR-2	Z	0	0	0	%100
133	HR-3	Z	.003	.003	0	%100
134	HRC-1	Z	.004	.004	0	%100
135	HRC-2	Z	.004	.004	0	%100
136	HRC-3	Z	0	0	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	FF-H1	X	.013	.013	0	%100
2	SF1-H1	X	.014	.014	0	%100
3	SF2-H1	X	.004	.004	0	%100
4	GSI1	X	.012	.012	0	%100
5	GSI2	X	.003	.003	0	%100
6	GSI3	X	.01	.01	0	%100
7	I1	X	.009	.009	0	%100
8	I2	X	.008	.008	0	%100
9	LL-L	X	.006	.006	0	%100
10	LL-R	X	.006	.006	0	%100
11	LR-1	X	.000563	.000563	0	%100
12	LR-2	X	.000563	.000563	0	%100
13	LR-3	X	.000563	.000563	0	%100
14	LR-4	X	.000563	.000563	0	%100
15	LR-5	X	.000563	.000563	0	%100
16	LR-6	X	.000563	.000563	0	%100
17	LR-7	X	.000563	.000563	0	%100
18	MP-1	X	.005	.005	0	%100
19	MP-2	X	.005	.005	0	%100
20	MP-3	X	.005	.005	0	%100
21	MP-4	X	.005	.005	0	%100
22	MP-5	X	.005	.005	0	%100
23	MP-6	X	.005	.005	0	%100
24	MP-7	X	.005	.005	0	%100
25	MP-8	X	.005	.005	0	%100
26	MP-9	X	.005	.005	0	%100
27	MP-10	X	.005	.005	0	%100
28	MP-11	X	.005	.005	0	%100
29	MP-12	X	.005	.005	0	%100
30	CT-A1	X	.002	.002	0	%100
31	CT-A2	X	.002	.002	0	%100
32	CT-A3	X	.002	.002	0	%100
33	CT-A4	X	.002	.002	0	%100
34	CT-A5	X	.002	.002	0	%100
35	CT-A6	X	.002	.002	0	%100
36	CT-A7	X	.002	.002	0	%100
37	CT-A8	X	.002	.002	0	%100
38	CT-A9	X	.002	.002	0	%100
39	CT-A10	X	.001	.001	0	%100
40	CT-B1	X	.000785	.000785	0	%100
41	CT-B2	X	.000357	.000357	0	%100
42	CT-B3	X	.000124	.000124	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,%]
43	CT-B4	X	.000627	.000627	0	%100
44	CT-B5	X	.001	.001	0	%100
45	CT-B6	X	.002	.002	0	%100
46	CT-B7	X	.002	.002	0	%100
47	CT-B8	X	.002	.002	0	%100
48	CT-B9	X	.002	.002	0	%100
49	CT-B10	X	.002	.002	0	%100
50	CT-C1	X	.002	.002	0	%100
51	CT-C2	X	.002	.002	0	%100
52	CT-C3	X	.002	.002	0	%100
53	CT-C4	X	.002	.002	0	%100
54	CT-C5	X	.001	.001	0	%100
55	CT-C6	X	.000785	.000785	0	%100
56	CT-C7	X	.000357	.000357	0	%100
57	CT-C8	X	.000124	.000124	0	%100
58	CT-C9	X	.000627	.000627	0	%100
59	CT-C10	X	.001	.001	0	%100
60	SA1	X	.002	.002	0	%100
61	SA2	X	.005	.005	0	%100
62	SA3	X	.007	.007	0	%100
63	HR-1	X	.004	.004	0	%100
64	HR-2	X	.001	.001	0	%100
65	HR-3	X	.005	.005	0	%100
66	HRC-1	X	.005	.005	0	%100
67	HRC-2	X	.004	.004	0	%100
68	HRC-3	X	.001	.001	0	%100
69	FF-H1	Z	.013	.013	0	%100
70	SF1-H1	Z	.018	.018	0	%100
71	SF2-H1	Z	.005	.005	0	%100
72	GSI1	Z	.013	.013	0	%100
73	GSI2	Z	.004	.004	0	%100
74	GSI3	Z	.01	.01	0	%100
75	I1	Z	.009	.009	0	%100
76	I2	Z	.008	.008	0	%100
77	LL-L	Z	.006	.006	0	%100
78	LL-R	Z	.006	.006	0	%100
79	LR-1	Z	.000948	.000948	0	%100
80	LR-2	Z	.000948	.000948	0	%100
81	LR-3	Z	.000948	.000948	0	%100
82	LR-4	Z	.000948	.000948	0	%100
83	LR-5	Z	.000948	.000948	0	%100
84	LR-6	Z	.000948	.000948	0	%100
85	LR-7	Z	.000948	.000948	0	%100
86	MP-1	Z	.005	.005	0	%100
87	MP-2	Z	.005	.005	0	%100
88	MP-3	Z	.005	.005	0	%100
89	MP-4	Z	.005	.005	0	%100
90	MP-5	Z	.005	.005	0	%100
91	MP-6	Z	.005	.005	0	%100
92	MP-7	Z	.005	.005	0	%100
93	MP-8	Z	.005	.005	0	%100
94	MP-9	Z	.005	.005	0	%100
95	MP-10	Z	.005	.005	0	%100
96	MP-11	Z	.005	.005	0	%100
97	MP-12	Z	.005	.005	0	%100
98	CT-A1	Z	.001	.001	0	%100
99	CT-A2	Z	.002	.002	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
100	CT-A3	Z	.002	.002	0	%100
101	CT-A4	Z	.002	.002	0	%100
102	CT-A5	Z	.002	.002	0	%100
103	CT-A6	Z	.002	.002	0	%100
104	CT-A7	Z	.002	.002	0	%100
105	CT-A8	Z	.002	.002	0	%100
106	CT-A9	Z	.002	.002	0	%100
107	CT-A10	Z	.001	.001	0	%100
108	CT-B1	Z	.000877	.000877	0	%100
109	CT-B2	Z	.000374	.000374	0	%100
110	CT-B3	Z	.000122	.000122	0	%100
111	CT-B4	Z	.000579	.000579	0	%100
112	CT-B5	Z	.000992	.000992	0	%100
113	CT-B6	Z	.001	.001	0	%100
114	CT-B7	Z	.002	.002	0	%100
115	CT-B8	Z	.002	.002	0	%100
116	CT-B9	Z	.002	.002	0	%100
117	CT-B10	Z	.002	.002	0	%100
118	CT-C1	Z	.002	.002	0	%100
119	CT-C2	Z	.002	.002	0	%100
120	CT-C3	Z	.002	.002	0	%100
121	CT-C4	Z	.002	.002	0	%100
122	CT-C5	Z	.001	.001	0	%100
123	CT-C6	Z	.000877	.000877	0	%100
124	CT-C7	Z	.000374	.000374	0	%100
125	CT-C8	Z	.000122	.000122	0	%100
126	CT-C9	Z	.000579	.000579	0	%100
127	CT-C10	Z	.000992	.000992	0	%100
128	SA1	Z	.003	.003	0	%100
129	SA2	Z	.004	.004	0	%100
130	SA3	Z	.007	.007	0	%100
131	HR-1	Z	.004	.004	0	%100
132	HR-2	Z	.001	.001	0	%100
133	HR-3	Z	.005	.005	0	%100
134	HRC-1	Z	.006	.006	0	%100
135	HRC-2	Z	.004	.004	0	%100
136	HRC-3	Z	.002	.002	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	FF-H1	X	.006	.006	0	%100
2	SF1-H1	X	.011	.011	0	%100
3	SF2-H1	X	.005	.005	0	%100
4	GSI1	X	.009	.009	0	%100
5	GSI2	X	.004	.004	0	%100
6	GSI3	X	.005	.005	0	%100
7	I1	X	.005	.005	0	%100
8	I2	X	.007	.007	0	%100
9	LL-L	X	.005	.005	0	%100
10	LL-R	X	.005	.005	0	%100
11	LR-1	X	.000488	.000488	0	%100
12	LR-2	X	.000488	.000488	0	%100
13	LR-3	X	.000488	.000488	0	%100
14	LR-4	X	.000488	.000488	0	%100
15	LR-5	X	.000488	.000488	0	%100
16	LR-6	X	.000488	.000488	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,%]
17	LR-7	X	.000488	.000488	0	%100
18	MP-1	X	.004	.004	0	%100
19	MP-2	X	.004	.004	0	%100
20	MP-3	X	.004	.004	0	%100
21	MP-4	X	.004	.004	0	%100
22	MP-5	X	.004	.004	0	%100
23	MP-6	X	.004	.004	0	%100
24	MP-7	X	.004	.004	0	%100
25	MP-8	X	.004	.004	0	%100
26	MP-9	X	.004	.004	0	%100
27	MP-10	X	.004	.004	0	%100
28	MP-11	X	.004	.004	0	%100
29	MP-12	X	.004	.004	0	%100
30	CT-A1	X	.000715	.000715	0	%100
31	CT-A2	X	.001	.001	0	%100
32	CT-A3	X	.001	.001	0	%100
33	CT-A4	X	.001	.001	0	%100
34	CT-A5	X	.002	.002	0	%100
35	CT-A6	X	.002	.002	0	%100
36	CT-A7	X	.002	.002	0	%100
37	CT-A8	X	.001	.001	0	%100
38	CT-A9	X	.001	.001	0	%100
39	CT-A10	X	.001	.001	0	%100
40	CT-B1	X	.00091	.00091	0	%100
41	CT-B2	X	.000656	.000656	0	%100
42	CT-B3	X	.000347	.000347	0	%100
43	CT-B4	X	0	0	0	%100
44	CT-B5	X	.000362	.000362	0	%100
45	CT-B6	X	.000715	.000715	0	%100
46	CT-B7	X	.001	.001	0	%100
47	CT-B8	X	.001	.001	0	%100
48	CT-B9	X	.001	.001	0	%100
49	CT-B10	X	.002	.002	0	%100
50	CT-C1	X	.002	.002	0	%100
51	CT-C2	X	.002	.002	0	%100
52	CT-C3	X	.001	.001	0	%100
53	CT-C4	X	.001	.001	0	%100
54	CT-C5	X	.001	.001	0	%100
55	CT-C6	X	.00091	.00091	0	%100
56	CT-C7	X	.000656	.000656	0	%100
57	CT-C8	X	.000347	.000347	0	%100
58	CT-C9	X	0	0	0	%100
59	CT-C10	X	.000362	.000362	0	%100
60	SA1	X	.003	.003	0	%100
61	SA2	X	.002	.002	0	%100
62	SA3	X	.005	.005	0	%100
63	HR-1	X	.002	.002	0	%100
64	HR-2	X	.002	.002	0	%100
65	HR-3	X	.004	.004	0	%100
66	HRC-1	X	.004	.004	0	%100
67	HRC-2	X	.002	.002	0	%100
68	HRC-3	X	.002	.002	0	%100
69	FF-H1	Z	.011	.011	0	%100
70	SF1-H1	Z	.022	.022	0	%100
71	SF2-H1	Z	.011	.011	0	%100
72	GSI1	Z	.017	.017	0	%100
73	GSI2	Z	.008	.008	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
74	GSI3	Z	.009	.009	0	%100
75	I1	Z	.008	.008	0	%100
76	I2	Z	.012	.012	0	%100
77	LL-L	Z	.008	.008	0	%100
78	LL-R	Z	.008	.008	0	%100
79	LR-1	Z	.001	.001	0	%100
80	LR-2	Z	.001	.001	0	%100
81	LR-3	Z	.001	.001	0	%100
82	LR-4	Z	.001	.001	0	%100
83	LR-5	Z	.001	.001	0	%100
84	LR-6	Z	.001	.001	0	%100
85	LR-7	Z	.001	.001	0	%100
86	MP-1	Z	.006	.006	0	%100
87	MP-2	Z	.006	.006	0	%100
88	MP-3	Z	.006	.006	0	%100
89	MP-4	Z	.006	.006	0	%100
90	MP-5	Z	.006	.006	0	%100
91	MP-6	Z	.006	.006	0	%100
92	MP-7	Z	.006	.006	0	%100
93	MP-8	Z	.006	.006	0	%100
94	MP-9	Z	.006	.006	0	%100
95	MP-10	Z	.006	.006	0	%100
96	MP-11	Z	.006	.006	0	%100
97	MP-12	Z	.006	.006	0	%100
98	CT-A1	Z	.001	.001	0	%100
99	CT-A2	Z	.002	.002	0	%100
100	CT-A3	Z	.002	.002	0	%100
101	CT-A4	Z	.002	.002	0	%100
102	CT-A5	Z	.003	.003	0	%100
103	CT-A6	Z	.003	.003	0	%100
104	CT-A7	Z	.003	.003	0	%100
105	CT-A8	Z	.003	.003	0	%100
106	CT-A9	Z	.003	.003	0	%100
107	CT-A10	Z	.002	.002	0	%100
108	CT-B1	Z	.002	.002	0	%100
109	CT-B2	Z	.001	.001	0	%100
110	CT-B3	Z	.000591	.000591	0	%100
111	CT-B4	Z	0	0	0	%100
112	CT-B5	Z	.000556	.000556	0	%100
113	CT-B6	Z	.001	.001	0	%100
114	CT-B7	Z	.002	.002	0	%100
115	CT-B8	Z	.002	.002	0	%100
116	CT-B9	Z	.002	.002	0	%100
117	CT-B10	Z	.003	.003	0	%100
118	CT-C1	Z	.003	.003	0	%100
119	CT-C2	Z	.003	.003	0	%100
120	CT-C3	Z	.003	.003	0	%100
121	CT-C4	Z	.003	.003	0	%100
122	CT-C5	Z	.002	.002	0	%100
123	CT-C6	Z	.002	.002	0	%100
124	CT-C7	Z	.001	.001	0	%100
125	CT-C8	Z	.000591	.000591	0	%100
126	CT-C9	Z	0	0	0	%100
127	CT-C10	Z	.000556	.000556	0	%100
128	SA1	Z	.005	.005	0	%100
129	SA2	Z	.003	.003	0	%100
130	SA3	Z	.009	.009	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,%]
131	HR-1	Z	.003	.003	0	%100
132	HR-2	Z	.003	.003	0	%100
133	HR-3	Z	.006	.006	0	%100
134	HRC-1	Z	.007	.007	0	%100
135	HRC-2	Z	.004	.004	0	%100
136	HRC-3	Z	.004	.004	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	FF-H1	Z	0	0	0	%100
2	SF1-H1	Z	.022	.022	0	%100
3	SF2-H1	Z	.022	.022	0	%100
4	GSI1	Z	.017	.017	0	%100
5	GSI2	Z	.017	.017	0	%100
6	GSI3	Z	0	0	0	%100
7	I1	Z	0	0	0	%100
8	I2	Z	.016	.016	0	%100
9	LL-L	Z	.009	.009	0	%100
10	LL-R	Z	.009	.009	0	%100
11	LR-1	Z	.002	.002	0	%100
12	LR-2	Z	.002	.002	0	%100
13	LR-3	Z	.002	.002	0	%100
14	LR-4	Z	.002	.002	0	%100
15	LR-5	Z	.002	.002	0	%100
16	LR-6	Z	.002	.002	0	%100
17	LR-7	Z	.002	.002	0	%100
18	MP-1	Z	.007	.007	0	%100
19	MP-2	Z	.007	.007	0	%100
20	MP-3	Z	.007	.007	0	%100
21	MP-4	Z	.007	.007	0	%100
22	MP-5	Z	.007	.007	0	%100
23	MP-6	Z	.007	.007	0	%100
24	MP-7	Z	.007	.007	0	%100
25	MP-8	Z	.007	.007	0	%100
26	MP-9	Z	.007	.007	0	%100
27	MP-10	Z	.007	.007	0	%100
28	MP-11	Z	.007	.007	0	%100
29	MP-12	Z	.007	.007	0	%100
30	CT-A1	Z	.000323	.000323	0	%100
31	CT-A2	Z	.000323	.000323	0	%100
32	CT-A3	Z	.000955	.000955	0	%100
33	CT-A4	Z	.002	.002	0	%100
34	CT-A5	Z	.002	.002	0	%100
35	CT-A6	Z	.003	.003	0	%100
36	CT-A7	Z	.003	.003	0	%100
37	CT-A8	Z	.003	.003	0	%100
38	CT-A9	Z	.004	.004	0	%100
39	CT-A10	Z	.003	.003	0	%100
40	CT-B1	Z	.003	.003	0	%100
41	CT-B2	Z	.003	.003	0	%100
42	CT-B3	Z	.002	.002	0	%100
43	CT-B4	Z	.002	.002	0	%100
44	CT-B5	Z	.000955	.000955	0	%100
45	CT-B6	Z	.000323	.000323	0	%100
46	CT-B7	Z	.000323	.000323	0	%100
47	CT-B8	Z	.000955	.000955	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
48	CT-B9	Z	.002	.002	0	%100
49	CT-B10	Z	.002	.002	0	%100
50	CT-C1	Z	.003	.003	0	%100
51	CT-C2	Z	.003	.003	0	%100
52	CT-C3	Z	.003	.003	0	%100
53	CT-C4	Z	.004	.004	0	%100
54	CT-C5	Z	.003	.003	0	%100
55	CT-C6	Z	.003	.003	0	%100
56	CT-C7	Z	.003	.003	0	%100
57	CT-C8	Z	.002	.002	0	%100
58	CT-C9	Z	.002	.002	0	%100
59	CT-C10	Z	.000955	.000955	0	%100
60	SA1	Z	.01	.01	0	%100
61	SA2	Z	.000969	.000969	0	%100
62	SA3	Z	.008	.008	0	%100
63	HR-1	Z	0	0	0	%100
64	HR-2	Z	.006	.006	0	%100
65	HR-3	Z	.006	.006	0	%100
66	HRC-1	Z	.007	.007	0	%100
67	HRC-2	Z	0	0	0	%100
68	HRC-3	Z	.007	.007	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	FF-H1	X	-.006	-.006	0	%100
2	SF1-H1	X	-.005	-.005	0	%100
3	SF2-H1	X	-.011	-.011	0	%100
4	GSI1	X	-.004	-.004	0	%100
5	GSI2	X	-.009	-.009	0	%100
6	GSI3	X	-.005	-.005	0	%100
7	I1	X	-.005	-.005	0	%100
8	I2	X	-.007	-.007	0	%100
9	LL-L	X	-.005	-.005	0	%100
10	LL-R	X	-.005	-.005	0	%100
11	LR-1	X	-.000488	-.000488	0	%100
12	LR-2	X	-.000488	-.000488	0	%100
13	LR-3	X	-.000488	-.000488	0	%100
14	LR-4	X	-.000488	-.000488	0	%100
15	LR-5	X	-.000488	-.000488	0	%100
16	LR-6	X	-.000488	-.000488	0	%100
17	LR-7	X	-.000488	-.000488	0	%100
18	MP-1	X	-.004	-.004	0	%100
19	MP-2	X	-.004	-.004	0	%100
20	MP-3	X	-.004	-.004	0	%100
21	MP-4	X	-.004	-.004	0	%100
22	MP-5	X	-.004	-.004	0	%100
23	MP-6	X	-.004	-.004	0	%100
24	MP-7	X	-.004	-.004	0	%100
25	MP-8	X	-.004	-.004	0	%100
26	MP-9	X	-.004	-.004	0	%100
27	MP-10	X	-.004	-.004	0	%100
28	MP-11	X	-.004	-.004	0	%100
29	MP-12	X	-.004	-.004	0	%100
30	CT-A1	X	-.001	-.001	0	%100
31	CT-A2	X	-.000715	-.000715	0	%100
32	CT-A3	X	-.000362	-.000362	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,%]
33	CT-A4	X	0	0	0	%100
34	CT-A5	X	-.000347	-.000347	0	%100
35	CT-A6	X	-.000656	-.000656	0	%100
36	CT-A7	X	-.00091	-.00091	0	%100
37	CT-A8	X	-.001	-.001	0	%100
38	CT-A9	X	-.001	-.001	0	%100
39	CT-A10	X	-.001	-.001	0	%100
40	CT-B1	X	-.002	-.002	0	%100
41	CT-B2	X	-.002	-.002	0	%100
42	CT-B3	X	-.002	-.002	0	%100
43	CT-B4	X	-.001	-.001	0	%100
44	CT-B5	X	-.001	-.001	0	%100
45	CT-B6	X	-.001	-.001	0	%100
46	CT-B7	X	-.000715	-.000715	0	%100
47	CT-B8	X	-.000362	-.000362	0	%100
48	CT-B9	X	0	0	0	%100
49	CT-B10	X	-.000347	-.000347	0	%100
50	CT-C1	X	-.000656	-.000656	0	%100
51	CT-C2	X	-.00091	-.00091	0	%100
52	CT-C3	X	-.001	-.001	0	%100
53	CT-C4	X	-.001	-.001	0	%100
54	CT-C5	X	-.001	-.001	0	%100
55	CT-C6	X	-.002	-.002	0	%100
56	CT-C7	X	-.002	-.002	0	%100
57	CT-C8	X	-.002	-.002	0	%100
58	CT-C9	X	-.001	-.001	0	%100
59	CT-C10	X	-.001	-.001	0	%100
60	SA1	X	-.005	-.005	0	%100
61	SA2	X	-.003	-.003	0	%100
62	SA3	X	-.002	-.002	0	%100
63	HR-1	X	-.002	-.002	0	%100
64	HR-2	X	-.004	-.004	0	%100
65	HR-3	X	-.002	-.002	0	%100
66	HRC-1	X	-.002	-.002	0	%100
67	HRC-2	X	-.002	-.002	0	%100
68	HRC-3	X	-.004	-.004	0	%100
69	FF-H1	Z	.011	.011	0	%100
70	SF1-H1	Z	.011	.011	0	%100
71	SF2-H1	Z	.022	.022	0	%100
72	GSI1	Z	.008	.008	0	%100
73	GSI2	Z	.017	.017	0	%100
74	GSI3	Z	.009	.009	0	%100
75	I1	Z	.008	.008	0	%100
76	I2	Z	.012	.012	0	%100
77	LL-L	Z	.008	.008	0	%100
78	LL-R	Z	.008	.008	0	%100
79	LR-1	Z	.001	.001	0	%100
80	LR-2	Z	.001	.001	0	%100
81	LR-3	Z	.001	.001	0	%100
82	LR-4	Z	.001	.001	0	%100
83	LR-5	Z	.001	.001	0	%100
84	LR-6	Z	.001	.001	0	%100
85	LR-7	Z	.001	.001	0	%100
86	MP-1	Z	.006	.006	0	%100
87	MP-2	Z	.006	.006	0	%100
88	MP-3	Z	.006	.006	0	%100
89	MP-4	Z	.006	.006	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
90	MP-5	Z	.006	.006	0	%100
91	MP-6	Z	.006	.006	0	%100
92	MP-7	Z	.006	.006	0	%100
93	MP-8	Z	.006	.006	0	%100
94	MP-9	Z	.006	.006	0	%100
95	MP-10	Z	.006	.006	0	%100
96	MP-11	Z	.006	.006	0	%100
97	MP-12	Z	.006	.006	0	%100
98	CT-A1	Z	.002	.002	0	%100
99	CT-A2	Z	.001	.001	0	%100
100	CT-A3	Z	.000556	.000556	0	%100
101	CT-A4	Z	0	0	0	%100
102	CT-A5	Z	.000591	.000591	0	%100
103	CT-A6	Z	.001	.001	0	%100
104	CT-A7	Z	.002	.002	0	%100
105	CT-A8	Z	.002	.002	0	%100
106	CT-A9	Z	.003	.003	0	%100
107	CT-A10	Z	.003	.003	0	%100
108	CT-B1	Z	.003	.003	0	%100
109	CT-B2	Z	.003	.003	0	%100
110	CT-B3	Z	.003	.003	0	%100
111	CT-B4	Z	.002	.002	0	%100
112	CT-B5	Z	.002	.002	0	%100
113	CT-B6	Z	.002	.002	0	%100
114	CT-B7	Z	.001	.001	0	%100
115	CT-B8	Z	.000556	.000556	0	%100
116	CT-B9	Z	0	0	0	%100
117	CT-B10	Z	.000591	.000591	0	%100
118	CT-C1	Z	.001	.001	0	%100
119	CT-C2	Z	.002	.002	0	%100
120	CT-C3	Z	.002	.002	0	%100
121	CT-C4	Z	.003	.003	0	%100
122	CT-C5	Z	.003	.003	0	%100
123	CT-C6	Z	.003	.003	0	%100
124	CT-C7	Z	.003	.003	0	%100
125	CT-C8	Z	.003	.003	0	%100
126	CT-C9	Z	.002	.002	0	%100
127	CT-C10	Z	.002	.002	0	%100
128	SA1	Z	.009	.009	0	%100
129	SA2	Z	.005	.005	0	%100
130	SA3	Z	.004	.004	0	%100
131	HR-1	Z	.003	.003	0	%100
132	HR-2	Z	.006	.006	0	%100
133	HR-3	Z	.003	.003	0	%100
134	HRC-1	Z	.004	.004	0	%100
135	HRC-2	Z	.004	.004	0	%100
136	HRC-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	FF-H1	X	-.013	-.013	0	%100
2	SF1-H1	X	-.004	-.004	0	%100
3	SF2-H1	X	-.014	-.014	0	%100
4	GSI1	X	-.003	-.003	0	%100
5	GSI2	X	-.012	-.012	0	%100
6	GSI3	X	-.01	-.01	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,%]
7	I1	X	-.009	-.009	0	%100
8	I2	X	-.008	-.008	0	%100
9	LL-L	X	-.006	-.006	0	%100
10	LL-R	X	-.006	-.006	0	%100
11	LR-1	X	-.000563	-.000563	0	%100
12	LR-2	X	-.000563	-.000563	0	%100
13	LR-3	X	-.000563	-.000563	0	%100
14	LR-4	X	-.000563	-.000563	0	%100
15	LR-5	X	-.000563	-.000563	0	%100
16	LR-6	X	-.000563	-.000563	0	%100
17	LR-7	X	-.000563	-.000563	0	%100
18	MP-1	X	-.005	-.005	0	%100
19	MP-2	X	-.005	-.005	0	%100
20	MP-3	X	-.005	-.005	0	%100
21	MP-4	X	-.005	-.005	0	%100
22	MP-5	X	-.005	-.005	0	%100
23	MP-6	X	-.005	-.005	0	%100
24	MP-7	X	-.005	-.005	0	%100
25	MP-8	X	-.005	-.005	0	%100
26	MP-9	X	-.005	-.005	0	%100
27	MP-10	X	-.005	-.005	0	%100
28	MP-11	X	-.005	-.005	0	%100
29	MP-12	X	-.005	-.005	0	%100
30	CT-A1	X	-.002	-.002	0	%100
31	CT-A2	X	-.002	-.002	0	%100
32	CT-A3	X	-.001	-.001	0	%100
33	CT-A4	X	-.000627	-.000627	0	%100
34	CT-A5	X	-.000123	-.000123	0	%100
35	CT-A6	X	-.000357	-.000357	0	%100
36	CT-A7	X	-.000785	-.000785	0	%100
37	CT-A8	X	-.001	-.001	0	%100
38	CT-A9	X	-.002	-.002	0	%100
39	CT-A10	X	-.002	-.002	0	%100
40	CT-B1	X	-.002	-.002	0	%100
41	CT-B2	X	-.002	-.002	0	%100
42	CT-B3	X	-.002	-.002	0	%100
43	CT-B4	X	-.002	-.002	0	%100
44	CT-B5	X	-.002	-.002	0	%100
45	CT-B6	X	-.002	-.002	0	%100
46	CT-B7	X	-.002	-.002	0	%100
47	CT-B8	X	-.001	-.001	0	%100
48	CT-B9	X	-.000627	-.000627	0	%100
49	CT-B10	X	-.000123	-.000123	0	%100
50	CT-C1	X	-.000357	-.000357	0	%100
51	CT-C2	X	-.000785	-.000785	0	%100
52	CT-C3	X	-.001	-.001	0	%100
53	CT-C4	X	-.002	-.002	0	%100
54	CT-C5	X	-.002	-.002	0	%100
55	CT-C6	X	-.002	-.002	0	%100
56	CT-C7	X	-.002	-.002	0	%100
57	CT-C8	X	-.002	-.002	0	%100
58	CT-C9	X	-.002	-.002	0	%100
59	CT-C10	X	-.002	-.002	0	%100
60	SA1	X	-.006	-.006	0	%100
61	SA2	X	-.006	-.006	0	%100
62	SA3	X	-.001	-.001	0	%100
63	HR-1	X	-.004	-.004	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
64	HR-2	X	-.005	-.005	0	%100
65	HR-3	X	-.001	-.001	0	%100
66	HRC-1	X	-.001	-.001	0	%100
67	HRC-2	X	-.004	-.004	0	%100
68	HRC-3	X	-.005	-.005	0	%100
69	FF-H1	Z	.013	.013	0	%100
70	SF1-H1	Z	.005	.005	0	%100
71	SF2-H1	Z	.018	.018	0	%100
72	GSI1	Z	.004	.004	0	%100
73	GSI2	Z	.013	.013	0	%100
74	GSI3	Z	.01	.01	0	%100
75	I1	Z	.009	.009	0	%100
76	I2	Z	.008	.008	0	%100
77	LL-L	Z	.006	.006	0	%100
78	LL-R	Z	.006	.006	0	%100
79	LR-1	Z	.000948	.000948	0	%100
80	LR-2	Z	.000948	.000948	0	%100
81	LR-3	Z	.000948	.000948	0	%100
82	LR-4	Z	.000948	.000948	0	%100
83	LR-5	Z	.000948	.000948	0	%100
84	LR-6	Z	.000948	.000948	0	%100
85	LR-7	Z	.000948	.000948	0	%100
86	MP-1	Z	.005	.005	0	%100
87	MP-2	Z	.005	.005	0	%100
88	MP-3	Z	.005	.005	0	%100
89	MP-4	Z	.005	.005	0	%100
90	MP-5	Z	.005	.005	0	%100
91	MP-6	Z	.005	.005	0	%100
92	MP-7	Z	.005	.005	0	%100
93	MP-8	Z	.005	.005	0	%100
94	MP-9	Z	.005	.005	0	%100
95	MP-10	Z	.005	.005	0	%100
96	MP-11	Z	.005	.005	0	%100
97	MP-12	Z	.005	.005	0	%100
98	CT-A1	Z	.002	.002	0	%100
99	CT-A2	Z	.001	.001	0	%100
100	CT-A3	Z	.000992	.000992	0	%100
101	CT-A4	Z	.000579	.000579	0	%100
102	CT-A5	Z	.000122	.000122	0	%100
103	CT-A6	Z	.000374	.000374	0	%100
104	CT-A7	Z	.000877	.000877	0	%100
105	CT-A8	Z	.001	.001	0	%100
106	CT-A9	Z	.002	.002	0	%100
107	CT-A10	Z	.002	.002	0	%100
108	CT-B1	Z	.002	.002	0	%100
109	CT-B2	Z	.002	.002	0	%100
110	CT-B3	Z	.002	.002	0	%100
111	CT-B4	Z	.002	.002	0	%100
112	CT-B5	Z	.002	.002	0	%100
113	CT-B6	Z	.002	.002	0	%100
114	CT-B7	Z	.001	.001	0	%100
115	CT-B8	Z	.000992	.000992	0	%100
116	CT-B9	Z	.000579	.000579	0	%100
117	CT-B10	Z	.000122	.000122	0	%100
118	CT-C1	Z	.000374	.000374	0	%100
119	CT-C2	Z	.000877	.000877	0	%100
120	CT-C3	Z	.001	.001	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,%]
121	CT-C4	Z	.002	.002	0	%100
122	CT-C5	Z	.002	.002	0	%100
123	CT-C6	Z	.002	.002	0	%100
124	CT-C7	Z	.002	.002	0	%100
125	CT-C8	Z	.002	.002	0	%100
126	CT-C9	Z	.002	.002	0	%100
127	CT-C10	Z	.002	.002	0	%100
128	SA1	Z	.007	.007	0	%100
129	SA2	Z	.005	.005	0	%100
130	SA3	Z	.001	.001	0	%100
131	HR-1	Z	.004	.004	0	%100
132	HR-2	Z	.005	.005	0	%100
133	HR-3	Z	.001	.001	0	%100
134	HRC-1	Z	.002	.002	0	%100
135	HRC-2	Z	.004	.004	0	%100
136	HRC-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	FF-H1	X	-.019	-.019	0	%100
2	SF1-H1	X	0	0	0	%100
3	SF2-H1	X	-.016	-.016	0	%100
4	GSI1	X	0	0	0	%100
5	GSI2	X	-.013	-.013	0	%100
6	GSI3	X	-.015	-.015	0	%100
7	I1	X	-.014	-.014	0	%100
8	I2	X	-.007	-.007	0	%100
9	LL-L	X	-.008	-.008	0	%100
10	LL-R	X	-.008	-.008	0	%100
11	LR-1	X	-.000488	-.000488	0	%100
12	LR-2	X	-.000488	-.000488	0	%100
13	LR-3	X	-.000488	-.000488	0	%100
14	LR-4	X	-.000488	-.000488	0	%100
15	LR-5	X	-.000488	-.000488	0	%100
16	LR-6	X	-.000488	-.000488	0	%100
17	LR-7	X	-.000488	-.000488	0	%100
18	MP-1	X	-.006	-.006	0	%100
19	MP-2	X	-.006	-.006	0	%100
20	MP-3	X	-.006	-.006	0	%100
21	MP-4	X	-.006	-.006	0	%100
22	MP-5	X	-.006	-.006	0	%100
23	MP-6	X	-.006	-.006	0	%100
24	MP-7	X	-.006	-.006	0	%100
25	MP-8	X	-.006	-.006	0	%100
26	MP-9	X	-.006	-.006	0	%100
27	MP-10	X	-.006	-.006	0	%100
28	MP-11	X	-.006	-.006	0	%100
29	MP-12	X	-.006	-.006	0	%100
30	CT-A1	X	-.003	-.003	0	%100
31	CT-A2	X	-.002	-.002	0	%100
32	CT-A3	X	-.002	-.002	0	%100
33	CT-A4	X	-.001	-.001	0	%100
34	CT-A5	X	-.000893	-.000893	0	%100
35	CT-A6	X	-.000292	-.000292	0	%100
36	CT-A7	X	-.00028	-.00028	0	%100
37	CT-A8	X	-.000827	-.000827	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
38	CT-A9	X	-.001	-.001	0	%100
39	CT-A10	X	-.002	-.002	0	%100
40	CT-B1	X	-.002	-.002	0	%100
41	CT-B2	X	-.003	-.003	0	%100
42	CT-B3	X	-.003	-.003	0	%100
43	CT-B4	X	-.003	-.003	0	%100
44	CT-B5	X	-.003	-.003	0	%100
45	CT-B6	X	-.003	-.003	0	%100
46	CT-B7	X	-.002	-.002	0	%100
47	CT-B8	X	-.002	-.002	0	%100
48	CT-B9	X	-.001	-.001	0	%100
49	CT-B10	X	-.000893	-.000893	0	%100
50	CT-C1	X	-.000292	-.000292	0	%100
51	CT-C2	X	-.00028	-.00028	0	%100
52	CT-C3	X	-.000827	-.000827	0	%100
53	CT-C4	X	-.001	-.001	0	%100
54	CT-C5	X	-.002	-.002	0	%100
55	CT-C6	X	-.002	-.002	0	%100
56	CT-C7	X	-.003	-.003	0	%100
57	CT-C8	X	-.003	-.003	0	%100
58	CT-C9	X	-.003	-.003	0	%100
59	CT-C10	X	-.003	-.003	0	%100
60	SA1	X	-.007	-.007	0	%100
61	SA2	X	-.009	-.009	0	%100
62	SA3	X	-.000892	-.000892	0	%100
63	HR-1	X	-.006	-.006	0	%100
64	HR-2	X	-.006	-.006	0	%100
65	HR-3	X	0	0	0	%100
66	HRC-1	X	0	0	0	%100
67	HRC-2	X	-.007	-.007	0	%100
68	HRC-3	X	-.006	-.006	0	%100
69	FF-H1	Z	.011	.011	0	%100
70	SF1-H1	Z	0	0	0	%100
71	SF2-H1	Z	.011	.011	0	%100
72	GSI1	Z	0	0	0	%100
73	GSI2	Z	.008	.008	0	%100
74	GSI3	Z	.009	.009	0	%100
75	I1	Z	.008	.008	0	%100
76	I2	Z	.004	.004	0	%100
77	LL-L	Z	.005	.005	0	%100
78	LL-R	Z	.005	.005	0	%100
79	LR-1	Z	.000474	.000474	0	%100
80	LR-2	Z	.000474	.000474	0	%100
81	LR-3	Z	.000474	.000474	0	%100
82	LR-4	Z	.000474	.000474	0	%100
83	LR-5	Z	.000474	.000474	0	%100
84	LR-6	Z	.000474	.000474	0	%100
85	LR-7	Z	.000474	.000474	0	%100
86	MP-1	Z	.004	.004	0	%100
87	MP-2	Z	.004	.004	0	%100
88	MP-3	Z	.004	.004	0	%100
89	MP-4	Z	.004	.004	0	%100
90	MP-5	Z	.004	.004	0	%100
91	MP-6	Z	.004	.004	0	%100
92	MP-7	Z	.004	.004	0	%100
93	MP-8	Z	.004	.004	0	%100
94	MP-9	Z	.004	.004	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,%]
95	MP-10	Z	.004	.004	0	%100
96	MP-11	Z	.004	.004	0	%100
97	MP-12	Z	.004	.004	0	%100
98	CT-A1	Z	.001	.001	0	%100
99	CT-A2	Z	.001	.001	0	%100
100	CT-A3	Z	.001	.001	0	%100
101	CT-A4	Z	.000791	.000791	0	%100
102	CT-A5	Z	.000507	.000507	0	%100
103	CT-A6	Z	.000177	.000177	0	%100
104	CT-A7	Z	.000181	.000181	0	%100
105	CT-A8	Z	.000542	.000542	0	%100
106	CT-A9	Z	.00088	.00088	0	%100
107	CT-A10	Z	.001	.001	0	%100
108	CT-B1	Z	.001	.001	0	%100
109	CT-B2	Z	.002	.002	0	%100
110	CT-B3	Z	.002	.002	0	%100
111	CT-B4	Z	.002	.002	0	%100
112	CT-B5	Z	.002	.002	0	%100
113	CT-B6	Z	.001	.001	0	%100
114	CT-B7	Z	.001	.001	0	%100
115	CT-B8	Z	.001	.001	0	%100
116	CT-B9	Z	.000791	.000791	0	%100
117	CT-B10	Z	.000507	.000507	0	%100
118	CT-C1	Z	.000177	.000177	0	%100
119	CT-C2	Z	.000181	.000181	0	%100
120	CT-C3	Z	.000542	.000542	0	%100
121	CT-C4	Z	.00088	.00088	0	%100
122	CT-C5	Z	.001	.001	0	%100
123	CT-C6	Z	.001	.001	0	%100
124	CT-C7	Z	.002	.002	0	%100
125	CT-C8	Z	.002	.002	0	%100
126	CT-C9	Z	.002	.002	0	%100
127	CT-C10	Z	.002	.002	0	%100
128	SA1	Z	.004	.004	0	%100
129	SA2	Z	.004	.004	0	%100
130	SA3	Z	.000544	.000544	0	%100
131	HR-1	Z	.003	.003	0	%100
132	HR-2	Z	.003	.003	0	%100
133	HR-3	Z	0	0	0	%100
134	HRC-1	Z	0	0	0	%100
135	HRC-2	Z	.004	.004	0	%100
136	HRC-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,%]
1	FF-H1	Y	-.011	-.011	0	%100
2	SF1-H1	Y	-.011	-.011	0	%100
3	SF2-H1	Y	-.011	-.011	0	%100
4	GSI1	Y	-.012	-.012	0	%100
5	GSI2	Y	-.012	-.012	0	%100
6	GSI3	Y	-.012	-.012	0	%100
7	I1	Y	-.012	-.012	0	%100
8	I2	Y	-.013	-.013	0	%100
9	LL-L	Y	-.005	-.005	0	%100
10	LL-R	Y	-.005	-.005	0	%100
11	LR-1	Y	-.006	-.006	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
12	LR-2	Y	-.006	-.006	0	%100
13	LR-3	Y	-.006	-.006	0	%100
14	LR-4	Y	-.006	-.006	0	%100
15	LR-5	Y	-.006	-.006	0	%100
16	LR-6	Y	-.006	-.006	0	%100
17	LR-7	Y	-.006	-.006	0	%100
18	MP-1	Y	-.009	-.009	0	%100
19	MP-2	Y	-.009	-.009	0	%100
20	MP-3	Y	-.009	-.009	0	%100
21	MP-4	Y	-.009	-.009	0	%100
22	MP-5	Y	-.009	-.009	0	%100
23	MP-6	Y	-.009	-.009	0	%100
24	MP-7	Y	-.009	-.009	0	%100
25	MP-8	Y	-.009	-.009	0	%100
26	MP-9	Y	-.009	-.009	0	%100
27	MP-10	Y	-.009	-.009	0	%100
28	MP-11	Y	-.009	-.009	0	%100
29	MP-12	Y	-.009	-.009	0	%100
30	CT-A1	Y	-.014	-.014	0	%100
31	CT-A2	Y	-.014	-.014	0	%100
32	CT-A3	Y	-.014	-.014	0	%100
33	CT-A4	Y	-.014	-.014	0	%100
34	CT-A5	Y	-.014	-.014	0	%100
35	CT-A6	Y	-.014	-.014	0	%100
36	CT-A7	Y	-.014	-.014	0	%100
37	CT-A8	Y	-.014	-.014	0	%100
38	CT-A9	Y	-.014	-.014	0	%100
39	CT-A10	Y	-.014	-.014	0	%100
40	CT-B1	Y	-.014	-.014	0	%100
41	CT-B2	Y	-.014	-.014	0	%100
42	CT-B3	Y	-.014	-.014	0	%100
43	CT-B4	Y	-.014	-.014	0	%100
44	CT-B5	Y	-.014	-.014	0	%100
45	CT-B6	Y	-.014	-.014	0	%100
46	CT-B7	Y	-.014	-.014	0	%100
47	CT-B8	Y	-.014	-.014	0	%100
48	CT-B9	Y	-.014	-.014	0	%100
49	CT-B10	Y	-.014	-.014	0	%100
50	CT-C1	Y	-.014	-.014	0	%100
51	CT-C2	Y	-.014	-.014	0	%100
52	CT-C3	Y	-.014	-.014	0	%100
53	CT-C4	Y	-.014	-.014	0	%100
54	CT-C5	Y	-.014	-.014	0	%100
55	CT-C6	Y	-.014	-.014	0	%100
56	CT-C7	Y	-.014	-.014	0	%100
57	CT-C8	Y	-.014	-.014	0	%100
58	CT-C9	Y	-.014	-.014	0	%100
59	CT-C10	Y	-.014	-.014	0	%100
60	SA1	Y	-.009	-.009	0	%100
61	SA2	Y	-.009	-.009	0	%100
62	SA3	Y	-.009	-.009	0	%100
63	HR-1	Y	-.009	-.009	0	%100
64	HR-2	Y	-.009	-.009	0	%100
65	HR-3	Y	-.009	-.009	0	%100
66	HRC-1	Y	-.008	-.008	0	%100
67	HRC-2	Y	-.008	-.008	0	%100
68	HRC-3	Y	-.008	-.008	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.007	-.007	0	%100
2	SF1-H1	X	-.006	-.006	0	%100
3	SF2-H1	X	-.006	-.006	0	%100
4	GSI1	X	-.005	-.005	0	%100
5	GSI2	X	-.005	-.005	0	%100
6	GSI3	X	-.006	-.006	0	%100
7	I1	X	-.006	-.006	0	%100
8	I2	X	-.006	-.006	0	%100
9	LL-L	X	-.004	-.004	0	%100
10	LL-R	X	-.004	-.004	0	%100
11	LR-1	X	-.002	-.002	0	%100
12	LR-2	X	-.002	-.002	0	%100
13	LR-3	X	-.002	-.002	0	%100
14	LR-4	X	-.002	-.002	0	%100
15	LR-5	X	-.002	-.002	0	%100
16	LR-6	X	-.002	-.002	0	%100
17	LR-7	X	-.002	-.002	0	%100
18	MP-1	X	-.003	-.003	0	%100
19	MP-2	X	-.003	-.003	0	%100
20	MP-3	X	-.002	-.002	0	%100
21	MP-4	X	-.003	-.003	0	%100
22	MP-5	X	-.003	-.003	0	%100
23	MP-6	X	-.003	-.003	0	%100
24	MP-7	X	-.002	-.002	0	%100
25	MP-8	X	-.003	-.003	0	%100
26	MP-9	X	-.003	-.003	0	%100
27	MP-10	X	-.003	-.003	0	%100
28	MP-11	X	-.002	-.002	0	%100
29	MP-12	X	-.003	-.003	0	%100
30	CT-A1	X	-.004	-.004	0	%100
31	CT-A2	X	-.004	-.004	0	%100
32	CT-A3	X	-.004	-.004	0	%100
33	CT-A4	X	-.004	-.004	0	%100
34	CT-A5	X	-.004	-.004	0	%100
35	CT-A6	X	-.004	-.004	0	%100
36	CT-A7	X	-.004	-.004	0	%100
37	CT-A8	X	-.004	-.004	0	%100
38	CT-A9	X	-.004	-.004	0	%100
39	CT-A10	X	-.004	-.004	0	%100
40	CT-B1	X	-.004	-.004	0	%100
41	CT-B2	X	-.004	-.004	0	%100
42	CT-B3	X	-.004	-.004	0	%100
43	CT-B4	X	-.004	-.004	0	%100
44	CT-B5	X	-.004	-.004	0	%100
45	CT-B6	X	-.004	-.004	0	%100
46	CT-B7	X	-.004	-.004	0	%100
47	CT-B8	X	-.004	-.004	0	%100
48	CT-B9	X	-.004	-.004	0	%100
49	CT-B10	X	-.004	-.004	0	%100
50	CT-C1	X	-.004	-.004	0	%100
51	CT-C2	X	-.004	-.004	0	%100
52	CT-C3	X	-.004	-.004	0	%100
53	CT-C4	X	-.004	-.004	0	%100
54	CT-C5	X	-.004	-.004	0	%100
55	CT-C6	X	-.004	-.004	0	%100
56	CT-C7	X	-.004	-.004	0	%100
57	CT-C8	X	-.004	-.004	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
58	CT-C9	X	-.004	-.004	0	%100
59	CT-C10	X	-.004	-.004	0	%100
60	SA1	X	-.004	-.004	0	%100
61	SA2	X	-.004	-.004	0	%100
62	SA3	X	-.004	-.004	0	%100
63	HR-1	X	-.003	-.003	0	%100
64	HR-2	X	-.003	-.003	0	%100
65	HR-3	X	-.003	-.003	0	%100
66	HRC-1	X	-.004	-.004	0	%100
67	HRC-2	X	-.004	-.004	0	%100
68	HRC-3	X	-.004	-.004	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	FF-H1	X	-.005	-.005	0	%100
2	SF1-H1	X	-.004	-.004	0	%100
3	SF2-H1	X	0	0	0	%100
4	GSI1	X	-.004	-.004	0	%100
5	GSI2	X	0	0	0	%100
6	GSI3	X	-.004	-.004	0	%100
7	I1	X	-.004	-.004	0	%100
8	I2	X	-.002	-.002	0	%100
9	LL-L	X	-.004	-.004	0	%100
10	LL-R	X	-.004	-.004	0	%100
11	LR-1	X	-.000706	-.000706	0	%100
12	LR-2	X	-.000706	-.000706	0	%100
13	LR-3	X	-.000706	-.000706	0	%100
14	LR-4	X	-.000706	-.000706	0	%100
15	LR-5	X	-.000706	-.000706	0	%100
16	LR-6	X	-.000706	-.000706	0	%100
17	LR-7	X	-.000706	-.000706	0	%100
18	MP-1	X	-.002	-.002	0	%100
19	MP-2	X	-.002	-.002	0	%100
20	MP-3	X	-.002	-.002	0	%100
21	MP-4	X	-.002	-.002	0	%100
22	MP-5	X	-.002	-.002	0	%100
23	MP-6	X	-.002	-.002	0	%100
24	MP-7	X	-.002	-.002	0	%100
25	MP-8	X	-.002	-.002	0	%100
26	MP-9	X	-.002	-.002	0	%100
27	MP-10	X	-.002	-.002	0	%100
28	MP-11	X	-.002	-.002	0	%100
29	MP-12	X	-.002	-.002	0	%100
30	CT-A1	X	-.003	-.003	0	%100
31	CT-A2	X	-.003	-.003	0	%100
32	CT-A3	X	-.003	-.003	0	%100
33	CT-A4	X	-.003	-.003	0	%100
34	CT-A5	X	-.003	-.003	0	%100
35	CT-A6	X	-.003	-.003	0	%100
36	CT-A7	X	-.003	-.003	0	%100
37	CT-A8	X	-.002	-.002	0	%100
38	CT-A9	X	-.002	-.002	0	%100
39	CT-A10	X	-.001	-.001	0	%100
40	CT-B1	X	-.000348	-.000348	0	%100
41	CT-B2	X	-.000348	-.000348	0	%100
42	CT-B3	X	-.001	-.001	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,%]
43	CT-B4	X	-.002	-.002	0	%100
44	CT-B5	X	-.002	-.002	0	%100
45	CT-B6	X	-.003	-.003	0	%100
46	CT-B7	X	-.003	-.003	0	%100
47	CT-B8	X	-.003	-.003	0	%100
48	CT-B9	X	-.003	-.003	0	%100
49	CT-B10	X	-.003	-.003	0	%100
50	CT-C1	X	-.003	-.003	0	%100
51	CT-C2	X	-.003	-.003	0	%100
52	CT-C3	X	-.002	-.002	0	%100
53	CT-C4	X	-.002	-.002	0	%100
54	CT-C5	X	-.001	-.001	0	%100
55	CT-C6	X	-.000348	-.000348	0	%100
56	CT-C7	X	-.000348	-.000348	0	%100
57	CT-C8	X	-.001	-.001	0	%100
58	CT-C9	X	-.002	-.002	0	%100
59	CT-C10	X	-.002	-.002	0	%100
60	SA1	X	-.000379	-.000379	0	%100
61	SA2	X	-.003	-.003	0	%100
62	SA3	X	-.003	-.003	0	%100
63	HR-1	X	-.002	-.002	0	%100
64	HR-2	X	0	0	0	%100
65	HR-3	X	-.002	-.002	0	%100
66	HRC-1	X	-.003	-.003	0	%100
67	HRC-2	X	-.003	-.003	0	%100
68	HRC-3	X	0	0	0	%100
69	FF-H1	Z	-.003	-.003	0	%100
70	SF1-H1	Z	-.003	-.003	0	%100
71	SF2-H1	Z	0	0	0	%100
72	GSI1	Z	-.003	-.003	0	%100
73	GSI2	Z	0	0	0	%100
74	GSI3	Z	-.002	-.002	0	%100
75	I1	Z	-.002	-.002	0	%100
76	I2	Z	-.001	-.001	0	%100
77	LL-L	Z	-.002	-.002	0	%100
78	LL-R	Z	-.002	-.002	0	%100
79	LR-1	Z	-.000434	-.000434	0	%100
80	LR-2	Z	-.000434	-.000434	0	%100
81	LR-3	Z	-.000434	-.000434	0	%100
82	LR-4	Z	-.000434	-.000434	0	%100
83	LR-5	Z	-.000434	-.000434	0	%100
84	LR-6	Z	-.000434	-.000434	0	%100
85	LR-7	Z	-.000434	-.000434	0	%100
86	MP-1	Z	-.001	-.001	0	%100
87	MP-2	Z	-.001	-.001	0	%100
88	MP-3	Z	-.001	-.001	0	%100
89	MP-4	Z	-.002	-.002	0	%100
90	MP-5	Z	-.001	-.001	0	%100
91	MP-6	Z	-.001	-.001	0	%100
92	MP-7	Z	-.001	-.001	0	%100
93	MP-8	Z	-.002	-.002	0	%100
94	MP-9	Z	-.001	-.001	0	%100
95	MP-10	Z	-.001	-.001	0	%100
96	MP-11	Z	-.001	-.001	0	%100
97	MP-12	Z	-.002	-.002	0	%100
98	CT-A1	Z	-.002	-.002	0	%100
99	CT-A2	Z	-.002	-.002	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
100	CT-A3	Z	-.002	-.002	0	%100
101	CT-A4	Z	-.002	-.002	0	%100
102	CT-A5	Z	-.002	-.002	0	%100
103	CT-A6	Z	-.002	-.002	0	%100
104	CT-A7	Z	-.002	-.002	0	%100
105	CT-A8	Z	-.001	-.001	0	%100
106	CT-A9	Z	-.00096	-.00096	0	%100
107	CT-A10	Z	-.000593	-.000593	0	%100
108	CT-B1	Z	-.000201	-.000201	0	%100
109	CT-B2	Z	-.000201	-.000201	0	%100
110	CT-B3	Z	-.000593	-.000593	0	%100
111	CT-B4	Z	-.00096	-.00096	0	%100
112	CT-B5	Z	-.001	-.001	0	%100
113	CT-B6	Z	-.002	-.002	0	%100
114	CT-B7	Z	-.002	-.002	0	%100
115	CT-B8	Z	-.002	-.002	0	%100
116	CT-B9	Z	-.002	-.002	0	%100
117	CT-B10	Z	-.002	-.002	0	%100
118	CT-C1	Z	-.002	-.002	0	%100
119	CT-C2	Z	-.002	-.002	0	%100
120	CT-C3	Z	-.001	-.001	0	%100
121	CT-C4	Z	-.00096	-.00096	0	%100
122	CT-C5	Z	-.000593	-.000593	0	%100
123	CT-C6	Z	-.000201	-.000201	0	%100
124	CT-C7	Z	-.000201	-.000201	0	%100
125	CT-C8	Z	-.000593	-.000593	0	%100
126	CT-C9	Z	-.00096	-.00096	0	%100
127	CT-C10	Z	-.001	-.001	0	%100
128	SA1	Z	-.000228	-.000228	0	%100
129	SA2	Z	-.002	-.002	0	%100
130	SA3	Z	-.002	-.002	0	%100
131	HR-1	Z	-.001	-.001	0	%100
132	HR-2	Z	0	0	0	%100
133	HR-3	Z	-.001	-.001	0	%100
134	HRC-1	Z	-.002	-.002	0	%100
135	HRC-2	Z	-.002	-.002	0	%100
136	HRC-3	Z	0	0	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	FF-H1	X	-.004	-.004	0	%100
2	SF1-H1	X	-.004	-.004	0	%100
3	SF2-H1	X	-.001	-.001	0	%100
4	GSI1	X	-.004	-.004	0	%100
5	GSI2	X	-.00097	-.00097	0	%100
6	GSI3	X	-.003	-.003	0	%100
7	I1	X	-.003	-.003	0	%100
8	I2	X	-.003	-.003	0	%100
9	LL-L	X	-.003	-.003	0	%100
10	LL-R	X	-.003	-.003	0	%100
11	LR-1	X	-.000815	-.000815	0	%100
12	LR-2	X	-.000815	-.000815	0	%100
13	LR-3	X	-.000815	-.000815	0	%100
14	LR-4	X	-.000815	-.000815	0	%100
15	LR-5	X	-.000815	-.000815	0	%100
16	LR-6	X	-.000815	-.000815	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,%]
17	LR-7	X	-.000815	-.000815	0	%100
18	MP-1	X	-.002	-.002	0	%100
19	MP-2	X	-.002	-.002	0	%100
20	MP-3	X	-.002	-.002	0	%100
21	MP-4	X	-.002	-.002	0	%100
22	MP-5	X	-.002	-.002	0	%100
23	MP-6	X	-.002	-.002	0	%100
24	MP-7	X	-.002	-.002	0	%100
25	MP-8	X	-.002	-.002	0	%100
26	MP-9	X	-.002	-.002	0	%100
27	MP-10	X	-.002	-.002	0	%100
28	MP-11	X	-.002	-.002	0	%100
29	MP-12	X	-.002	-.002	0	%100
30	CT-A1	X	-.002	-.002	0	%100
31	CT-A2	X	-.002	-.002	0	%100
32	CT-A3	X	-.002	-.002	0	%100
33	CT-A4	X	-.003	-.003	0	%100
34	CT-A5	X	-.003	-.003	0	%100
35	CT-A6	X	-.003	-.003	0	%100
36	CT-A7	X	-.003	-.003	0	%100
37	CT-A8	X	-.002	-.002	0	%100
38	CT-A9	X	-.002	-.002	0	%100
39	CT-A10	X	-.001	-.001	0	%100
40	CT-B1	X	-.000973	-.000973	0	%100
41	CT-B2	X	-.000425	-.000425	0	%100
42	CT-B3	X	-.000142	-.000142	0	%100
43	CT-B4	X	-.000703	-.000703	0	%100
44	CT-B5	X	-.001	-.001	0	%100
45	CT-B6	X	-.002	-.002	0	%100
46	CT-B7	X	-.002	-.002	0	%100
47	CT-B8	X	-.002	-.002	0	%100
48	CT-B9	X	-.003	-.003	0	%100
49	CT-B10	X	-.003	-.003	0	%100
50	CT-C1	X	-.003	-.003	0	%100
51	CT-C2	X	-.003	-.003	0	%100
52	CT-C3	X	-.002	-.002	0	%100
53	CT-C4	X	-.002	-.002	0	%100
54	CT-C5	X	-.001	-.001	0	%100
55	CT-C6	X	-.000973	-.000973	0	%100
56	CT-C7	X	-.000425	-.000425	0	%100
57	CT-C8	X	-.000142	-.000142	0	%100
58	CT-C9	X	-.000703	-.000703	0	%100
59	CT-C10	X	-.001	-.001	0	%100
60	SA1	X	-.001	-.001	0	%100
61	SA2	X	-.002	-.002	0	%100
62	SA3	X	-.003	-.003	0	%100
63	HR-1	X	-.002	-.002	0	%100
64	HR-2	X	-.000465	-.000465	0	%100
65	HR-3	X	-.002	-.002	0	%100
66	HRC-1	X	-.003	-.003	0	%100
67	HRC-2	X	-.002	-.002	0	%100
68	HRC-3	X	-.000749	-.000749	0	%100
69	FF-H1	Z	-.003	-.003	0	%100
70	SF1-H1	Z	-.005	-.005	0	%100
71	SF2-H1	Z	-.001	-.001	0	%100
72	GSI1	Z	-.004	-.004	0	%100
73	GSI2	Z	-.001	-.001	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
74	GSI3	Z	-.003	-.003	0	%100
75	I1	Z	-.003	-.003	0	%100
76	I2	Z	-.003	-.003	0	%100
77	LL-L	Z	-.003	-.003	0	%100
78	LL-R	Z	-.003	-.003	0	%100
79	LR-1	Z	-.000868	-.000868	0	%100
80	LR-2	Z	-.000868	-.000868	0	%100
81	LR-3	Z	-.000868	-.000868	0	%100
82	LR-4	Z	-.000868	-.000868	0	%100
83	LR-5	Z	-.000868	-.000868	0	%100
84	LR-6	Z	-.000868	-.000868	0	%100
85	LR-7	Z	-.000868	-.000868	0	%100
86	MP-1	Z	-.002	-.002	0	%100
87	MP-2	Z	-.002	-.002	0	%100
88	MP-3	Z	-.002	-.002	0	%100
89	MP-4	Z	-.002	-.002	0	%100
90	MP-5	Z	-.002	-.002	0	%100
91	MP-6	Z	-.002	-.002	0	%100
92	MP-7	Z	-.002	-.002	0	%100
93	MP-8	Z	-.002	-.002	0	%100
94	MP-9	Z	-.002	-.002	0	%100
95	MP-10	Z	-.002	-.002	0	%100
96	MP-11	Z	-.002	-.002	0	%100
97	MP-12	Z	-.002	-.002	0	%100
98	CT-A1	Z	-.002	-.002	0	%100
99	CT-A2	Z	-.002	-.002	0	%100
100	CT-A3	Z	-.002	-.002	0	%100
101	CT-A4	Z	-.003	-.003	0	%100
102	CT-A5	Z	-.003	-.003	0	%100
103	CT-A6	Z	-.003	-.003	0	%100
104	CT-A7	Z	-.003	-.003	0	%100
105	CT-A8	Z	-.002	-.002	0	%100
106	CT-A9	Z	-.002	-.002	0	%100
107	CT-A10	Z	-.001	-.001	0	%100
108	CT-B1	Z	-.000973	-.000973	0	%100
109	CT-B2	Z	-.000425	-.000425	0	%100
110	CT-B3	Z	-.000142	-.000142	0	%100
111	CT-B4	Z	-.000703	-.000703	0	%100
112	CT-B5	Z	-.001	-.001	0	%100
113	CT-B6	Z	-.002	-.002	0	%100
114	CT-B7	Z	-.002	-.002	0	%100
115	CT-B8	Z	-.002	-.002	0	%100
116	CT-B9	Z	-.003	-.003	0	%100
117	CT-B10	Z	-.003	-.003	0	%100
118	CT-C1	Z	-.003	-.003	0	%100
119	CT-C2	Z	-.003	-.003	0	%100
120	CT-C3	Z	-.002	-.002	0	%100
121	CT-C4	Z	-.002	-.002	0	%100
122	CT-C5	Z	-.001	-.001	0	%100
123	CT-C6	Z	-.000973	-.000973	0	%100
124	CT-C7	Z	-.000425	-.000425	0	%100
125	CT-C8	Z	-.000142	-.000142	0	%100
126	CT-C9	Z	-.000703	-.000703	0	%100
127	CT-C10	Z	-.001	-.001	0	%100
128	SA1	Z	-.001	-.001	0	%100
129	SA2	Z	-.002	-.002	0	%100
130	SA3	Z	-.003	-.003	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,%]
131	HR-1	Z	-.001	-.001	0	%100
132	HR-2	Z	-.00056	-.00056	0	%100
133	HR-3	Z	-.002	-.002	0	%100
134	HRC-1	Z	-.003	-.003	0	%100
135	HRC-2	Z	-.002	-.002	0	%100
136	HRC-3	Z	-.000757	-.000757	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	FF-H1	X	-.002	-.002	0	%100
2	SF1-H1	X	-.003	-.003	0	%100
3	SF2-H1	X	-.001	-.001	0	%100
4	GSI1	X	-.003	-.003	0	%100
5	GSI2	X	-.001	-.001	0	%100
6	GSI3	X	-.001	-.001	0	%100
7	I1	X	-.001	-.001	0	%100
8	I2	X	-.002	-.002	0	%100
9	LL-L	X	-.002	-.002	0	%100
10	LL-R	X	-.002	-.002	0	%100
11	LR-1	X	-.000706	-.000706	0	%100
12	LR-2	X	-.000706	-.000706	0	%100
13	LR-3	X	-.000706	-.000706	0	%100
14	LR-4	X	-.000706	-.000706	0	%100
15	LR-5	X	-.000706	-.000706	0	%100
16	LR-6	X	-.000706	-.000706	0	%100
17	LR-7	X	-.000706	-.000706	0	%100
18	MP-1	X	-.001	-.001	0	%100
19	MP-2	X	-.001	-.001	0	%100
20	MP-3	X	-.001	-.001	0	%100
21	MP-4	X	-.001	-.001	0	%100
22	MP-5	X	-.001	-.001	0	%100
23	MP-6	X	-.001	-.001	0	%100
24	MP-7	X	-.001	-.001	0	%100
25	MP-8	X	-.001	-.001	0	%100
26	MP-9	X	-.001	-.001	0	%100
27	MP-10	X	-.001	-.001	0	%100
28	MP-11	X	-.001	-.001	0	%100
29	MP-12	X	-.001	-.001	0	%100
30	CT-A1	X	-.000781	-.000781	0	%100
31	CT-A2	X	-.001	-.001	0	%100
32	CT-A3	X	-.001	-.001	0	%100
33	CT-A4	X	-.002	-.002	0	%100
34	CT-A5	X	-.002	-.002	0	%100
35	CT-A6	X	-.002	-.002	0	%100
36	CT-A7	X	-.002	-.002	0	%100
37	CT-A8	X	-.002	-.002	0	%100
38	CT-A9	X	-.002	-.002	0	%100
39	CT-A10	X	-.001	-.001	0	%100
40	CT-B1	X	-.001	-.001	0	%100
41	CT-B2	X	-.000781	-.000781	0	%100
42	CT-B3	X	-.000399	-.000399	0	%100
43	CT-B4	X	0	0	0	%100
44	CT-B5	X	-.000399	-.000399	0	%100
45	CT-B6	X	-.000781	-.000781	0	%100
46	CT-B7	X	-.001	-.001	0	%100
47	CT-B8	X	-.001	-.001	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
48	CT-B9	X	-.002	-.002	0	%100
49	CT-B10	X	-.002	-.002	0	%100
50	CT-C1	X	-.002	-.002	0	%100
51	CT-C2	X	-.002	-.002	0	%100
52	CT-C3	X	-.002	-.002	0	%100
53	CT-C4	X	-.002	-.002	0	%100
54	CT-C5	X	-.001	-.001	0	%100
55	CT-C6	X	-.001	-.001	0	%100
56	CT-C7	X	-.000781	-.000781	0	%100
57	CT-C8	X	-.000399	-.000399	0	%100
58	CT-C9	X	0	0	0	%100
59	CT-C10	X	-.000399	-.000399	0	%100
60	SA1	X	-.001	-.001	0	%100
61	SA2	X	-.000895	-.000895	0	%100
62	SA3	X	-.002	-.002	0	%100
63	HR-1	X	-.000812	-.000812	0	%100
64	HR-2	X	-.000636	-.000636	0	%100
65	HR-3	X	-.001	-.001	0	%100
66	HRC-1	X	-.002	-.002	0	%100
67	HRC-2	X	-.001	-.001	0	%100
68	HRC-3	X	-.001	-.001	0	%100
69	FF-H1	Z	-.003	-.003	0	%100
70	SF1-H1	Z	-.006	-.006	0	%100
71	SF2-H1	Z	-.003	-.003	0	%100
72	GSI1	Z	-.005	-.005	0	%100
73	GSI2	Z	-.003	-.003	0	%100
74	GSI3	Z	-.002	-.002	0	%100
75	I1	Z	-.002	-.002	0	%100
76	I2	Z	-.004	-.004	0	%100
77	LL-L	Z	-.004	-.004	0	%100
78	LL-R	Z	-.004	-.004	0	%100
79	LR-1	Z	-.001	-.001	0	%100
80	LR-2	Z	-.001	-.001	0	%100
81	LR-3	Z	-.001	-.001	0	%100
82	LR-4	Z	-.001	-.001	0	%100
83	LR-5	Z	-.001	-.001	0	%100
84	LR-6	Z	-.001	-.001	0	%100
85	LR-7	Z	-.001	-.001	0	%100
86	MP-1	Z	-.003	-.003	0	%100
87	MP-2	Z	-.003	-.003	0	%100
88	MP-3	Z	-.002	-.002	0	%100
89	MP-4	Z	-.003	-.003	0	%100
90	MP-5	Z	-.003	-.003	0	%100
91	MP-6	Z	-.003	-.003	0	%100
92	MP-7	Z	-.002	-.002	0	%100
93	MP-8	Z	-.003	-.003	0	%100
94	MP-9	Z	-.003	-.003	0	%100
95	MP-10	Z	-.003	-.003	0	%100
96	MP-11	Z	-.002	-.002	0	%100
97	MP-12	Z	-.003	-.003	0	%100
98	CT-A1	Z	-.001	-.001	0	%100
99	CT-A2	Z	-.002	-.002	0	%100
100	CT-A3	Z	-.002	-.002	0	%100
101	CT-A4	Z	-.003	-.003	0	%100
102	CT-A5	Z	-.003	-.003	0	%100
103	CT-A6	Z	-.003	-.003	0	%100
104	CT-A7	Z	-.003	-.003	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,%]
105	CT-A8	Z	-.003	-.003	0	%100
106	CT-A9	Z	-.003	-.003	0	%100
107	CT-A10	Z	-.002	-.002	0	%100
108	CT-B1	Z	-.002	-.002	0	%100
109	CT-B2	Z	-.001	-.001	0	%100
110	CT-B3	Z	-.000692	-.000692	0	%100
111	CT-B4	Z	0	0	0	%100
112	CT-B5	Z	-.000692	-.000692	0	%100
113	CT-B6	Z	-.001	-.001	0	%100
114	CT-B7	Z	-.002	-.002	0	%100
115	CT-B8	Z	-.002	-.002	0	%100
116	CT-B9	Z	-.003	-.003	0	%100
117	CT-B10	Z	-.003	-.003	0	%100
118	CT-C1	Z	-.003	-.003	0	%100
119	CT-C2	Z	-.003	-.003	0	%100
120	CT-C3	Z	-.003	-.003	0	%100
121	CT-C4	Z	-.003	-.003	0	%100
122	CT-C5	Z	-.002	-.002	0	%100
123	CT-C6	Z	-.002	-.002	0	%100
124	CT-C7	Z	-.001	-.001	0	%100
125	CT-C8	Z	-.000692	-.000692	0	%100
126	CT-C9	Z	0	0	0	%100
127	CT-C10	Z	-.000692	-.000692	0	%100
128	SA1	Z	-.002	-.002	0	%100
129	SA2	Z	-.001	-.001	0	%100
130	SA3	Z	-.004	-.004	0	%100
131	HR-1	Z	-.001	-.001	0	%100
132	HR-2	Z	-.001	-.001	0	%100
133	HR-3	Z	-.003	-.003	0	%100
134	HRC-1	Z	-.004	-.004	0	%100
135	HRC-2	Z	-.002	-.002	0	%100
136	HRC-3	Z	-.002	-.002	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	FF-H1	Z	0	0	0	%100
2	SF1-H1	Z	-.006	-.006	0	%100
3	SF2-H1	Z	-.006	-.006	0	%100
4	GSI1	Z	-.005	-.005	0	%100
5	GSI2	Z	-.005	-.005	0	%100
6	GSI3	Z	0	0	0	%100
7	I1	Z	0	0	0	%100
8	I2	Z	-.006	-.006	0	%100
9	LL-L	Z	-.005	-.005	0	%100
10	LL-R	Z	-.005	-.005	0	%100
11	LR-1	Z	-.002	-.002	0	%100
12	LR-2	Z	-.002	-.002	0	%100
13	LR-3	Z	-.002	-.002	0	%100
14	LR-4	Z	-.002	-.002	0	%100
15	LR-5	Z	-.002	-.002	0	%100
16	LR-6	Z	-.002	-.002	0	%100
17	LR-7	Z	-.002	-.002	0	%100
18	MP-1	Z	-.003	-.003	0	%100
19	MP-2	Z	-.003	-.003	0	%100
20	MP-3	Z	-.003	-.003	0	%100
21	MP-4	Z	-.003	-.003	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
22	MP-5	Z	-.003	-.003	0	%100
23	MP-6	Z	-.003	-.003	0	%100
24	MP-7	Z	-.003	-.003	0	%100
25	MP-8	Z	-.003	-.003	0	%100
26	MP-9	Z	-.003	-.003	0	%100
27	MP-10	Z	-.003	-.003	0	%100
28	MP-11	Z	-.003	-.003	0	%100
29	MP-12	Z	-.003	-.003	0	%100
30	CT-A1	Z	-.000401	-.000401	0	%100
31	CT-A2	Z	-.000402	-.000402	0	%100
32	CT-A3	Z	-.001	-.001	0	%100
33	CT-A4	Z	-.002	-.002	0	%100
34	CT-A5	Z	-.003	-.003	0	%100
35	CT-A6	Z	-.003	-.003	0	%100
36	CT-A7	Z	-.004	-.004	0	%100
37	CT-A8	Z	-.004	-.004	0	%100
38	CT-A9	Z	-.004	-.004	0	%100
39	CT-A10	Z	-.004	-.004	0	%100
40	CT-B1	Z	-.004	-.004	0	%100
41	CT-B2	Z	-.003	-.003	0	%100
42	CT-B3	Z	-.003	-.003	0	%100
43	CT-B4	Z	-.002	-.002	0	%100
44	CT-B5	Z	-.001	-.001	0	%100
45	CT-B6	Z	-.000401	-.000401	0	%100
46	CT-B7	Z	-.000401	-.000401	0	%100
47	CT-B8	Z	-.001	-.001	0	%100
48	CT-B9	Z	-.002	-.002	0	%100
49	CT-B10	Z	-.003	-.003	0	%100
50	CT-C1	Z	-.003	-.003	0	%100
51	CT-C2	Z	-.004	-.004	0	%100
52	CT-C3	Z	-.004	-.004	0	%100
53	CT-C4	Z	-.004	-.004	0	%100
54	CT-C5	Z	-.004	-.004	0	%100
55	CT-C6	Z	-.004	-.004	0	%100
56	CT-C7	Z	-.003	-.003	0	%100
57	CT-C8	Z	-.003	-.003	0	%100
58	CT-C9	Z	-.002	-.002	0	%100
59	CT-C10	Z	-.001	-.001	0	%100
60	SA1	Z	-.004	-.004	0	%100
61	SA2	Z	-.000438	-.000438	0	%100
62	SA3	Z	-.003	-.003	0	%100
63	HR-1	Z	0	0	0	%100
64	HR-2	Z	-.003	-.003	0	%100
65	HR-3	Z	-.003	-.003	0	%100
66	HRC-1	Z	-.004	-.004	0	%100
67	HRC-2	Z	0	0	0	%100
68	HRC-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	FF-H1	X	.002	.002	0	%100
2	SF1-H1	X	.001	.001	0	%100
3	SF2-H1	X	.003	.003	0	%100
4	GSI1	X	.001	.001	0	%100
5	GSI2	X	.003	.003	0	%100
6	GSI3	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,%]
7	I1	X	.001	.001	0	%100
8	I2	X	.002	.002	0	%100
9	LL-L	X	.002	.002	0	%100
10	LL-R	X	.002	.002	0	%100
11	LR-1	X	.000706	.000706	0	%100
12	LR-2	X	.000706	.000706	0	%100
13	LR-3	X	.000706	.000706	0	%100
14	LR-4	X	.000706	.000706	0	%100
15	LR-5	X	.000706	.000706	0	%100
16	LR-6	X	.000706	.000706	0	%100
17	LR-7	X	.000706	.000706	0	%100
18	MP-1	X	.001	.001	0	%100
19	MP-2	X	.001	.001	0	%100
20	MP-3	X	.001	.001	0	%100
21	MP-4	X	.001	.001	0	%100
22	MP-5	X	.001	.001	0	%100
23	MP-6	X	.001	.001	0	%100
24	MP-7	X	.001	.001	0	%100
25	MP-8	X	.001	.001	0	%100
26	MP-9	X	.001	.001	0	%100
27	MP-10	X	.001	.001	0	%100
28	MP-11	X	.001	.001	0	%100
29	MP-12	X	.001	.001	0	%100
30	CT-A1	X	.001	.001	0	%100
31	CT-A2	X	.000781	.000781	0	%100
32	CT-A3	X	.000399	.000399	0	%100
33	CT-A4	X	0	0	0	%100
34	CT-A5	X	.000399	.000399	0	%100
35	CT-A6	X	.000781	.000781	0	%100
36	CT-A7	X	.001	.001	0	%100
37	CT-A8	X	.001	.001	0	%100
38	CT-A9	X	.002	.002	0	%100
39	CT-A10	X	.002	.002	0	%100
40	CT-B1	X	.002	.002	0	%100
41	CT-B2	X	.002	.002	0	%100
42	CT-B3	X	.002	.002	0	%100
43	CT-B4	X	.002	.002	0	%100
44	CT-B5	X	.001	.001	0	%100
45	CT-B6	X	.001	.001	0	%100
46	CT-B7	X	.000781	.000781	0	%100
47	CT-B8	X	.000399	.000399	0	%100
48	CT-B9	X	0	0	0	%100
49	CT-B10	X	.000399	.000399	0	%100
50	CT-C1	X	.000781	.000781	0	%100
51	CT-C2	X	.001	.001	0	%100
52	CT-C3	X	.001	.001	0	%100
53	CT-C4	X	.002	.002	0	%100
54	CT-C5	X	.002	.002	0	%100
55	CT-C6	X	.002	.002	0	%100
56	CT-C7	X	.002	.002	0	%100
57	CT-C8	X	.002	.002	0	%100
58	CT-C9	X	.002	.002	0	%100
59	CT-C10	X	.001	.001	0	%100
60	SA1	X	.002	.002	0	%100
61	SA2	X	.001	.001	0	%100
62	SA3	X	.000852	.000852	0	%100
63	HR-1	X	.000812	.000812	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
64	HR-2	X	.001	.001	0	%100
65	HR-3	X	.000636	.000636	0	%100
66	HRC-1	X	.001	.001	0	%100
67	HRC-2	X	.001	.001	0	%100
68	HRC-3	X	.002	.002	0	%100
69	FF-H1	Z	-.003	-.003	0	%100
70	SF1-H1	Z	-.003	-.003	0	%100
71	SF2-H1	Z	-.006	-.006	0	%100
72	GSI1	Z	-.003	-.003	0	%100
73	GSI2	Z	-.005	-.005	0	%100
74	GSI3	Z	-.002	-.002	0	%100
75	I1	Z	-.002	-.002	0	%100
76	I2	Z	-.004	-.004	0	%100
77	LL-L	Z	-.004	-.004	0	%100
78	LL-R	Z	-.004	-.004	0	%100
79	LR-1	Z	-.001	-.001	0	%100
80	LR-2	Z	-.001	-.001	0	%100
81	LR-3	Z	-.001	-.001	0	%100
82	LR-4	Z	-.001	-.001	0	%100
83	LR-5	Z	-.001	-.001	0	%100
84	LR-6	Z	-.001	-.001	0	%100
85	LR-7	Z	-.001	-.001	0	%100
86	MP-1	Z	-.003	-.003	0	%100
87	MP-2	Z	-.003	-.003	0	%100
88	MP-3	Z	-.002	-.002	0	%100
89	MP-4	Z	-.003	-.003	0	%100
90	MP-5	Z	-.003	-.003	0	%100
91	MP-6	Z	-.003	-.003	0	%100
92	MP-7	Z	-.002	-.002	0	%100
93	MP-8	Z	-.003	-.003	0	%100
94	MP-9	Z	-.003	-.003	0	%100
95	MP-10	Z	-.003	-.003	0	%100
96	MP-11	Z	-.002	-.002	0	%100
97	MP-12	Z	-.003	-.003	0	%100
98	CT-A1	Z	-.002	-.002	0	%100
99	CT-A2	Z	-.001	-.001	0	%100
100	CT-A3	Z	-.000692	-.000692	0	%100
101	CT-A4	Z	0	0	0	%100
102	CT-A5	Z	-.000692	-.000692	0	%100
103	CT-A6	Z	-.001	-.001	0	%100
104	CT-A7	Z	-.002	-.002	0	%100
105	CT-A8	Z	-.002	-.002	0	%100
106	CT-A9	Z	-.003	-.003	0	%100
107	CT-A10	Z	-.003	-.003	0	%100
108	CT-B1	Z	-.003	-.003	0	%100
109	CT-B2	Z	-.003	-.003	0	%100
110	CT-B3	Z	-.003	-.003	0	%100
111	CT-B4	Z	-.003	-.003	0	%100
112	CT-B5	Z	-.002	-.002	0	%100
113	CT-B6	Z	-.002	-.002	0	%100
114	CT-B7	Z	-.001	-.001	0	%100
115	CT-B8	Z	-.000692	-.000692	0	%100
116	CT-B9	Z	0	0	0	%100
117	CT-B10	Z	-.000692	-.000692	0	%100
118	CT-C1	Z	-.001	-.001	0	%100
119	CT-C2	Z	-.002	-.002	0	%100
120	CT-C3	Z	-.002	-.002	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,%]
121	CT-C4	Z	-.003	-.003	0	%100
122	CT-C5	Z	-.003	-.003	0	%100
123	CT-C6	Z	-.003	-.003	0	%100
124	CT-C7	Z	-.003	-.003	0	%100
125	CT-C8	Z	-.003	-.003	0	%100
126	CT-C9	Z	-.003	-.003	0	%100
127	CT-C10	Z	-.002	-.002	0	%100
128	SA1	Z	-.004	-.004	0	%100
129	SA2	Z	-.002	-.002	0	%100
130	SA3	Z	-.002	-.002	0	%100
131	HR-1	Z	-.001	-.001	0	%100
132	HR-2	Z	-.003	-.003	0	%100
133	HR-3	Z	-.001	-.001	0	%100
134	HRC-1	Z	-.002	-.002	0	%100
135	HRC-2	Z	-.002	-.002	0	%100
136	HRC-3	Z	-.004	-.004	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	FF-H1	X	.004	.004	0	%100
2	SF1-H1	X	.001	.001	0	%100
3	SF2-H1	X	.004	.004	0	%100
4	GSI1	X	.00097	.00097	0	%100
5	GSI2	X	.004	.004	0	%100
6	GSI3	X	.003	.003	0	%100
7	I1	X	.003	.003	0	%100
8	I2	X	.003	.003	0	%100
9	LL-L	X	.003	.003	0	%100
10	LL-R	X	.003	.003	0	%100
11	LR-1	X	.000815	.000815	0	%100
12	LR-2	X	.000815	.000815	0	%100
13	LR-3	X	.000815	.000815	0	%100
14	LR-4	X	.000815	.000815	0	%100
15	LR-5	X	.000815	.000815	0	%100
16	LR-6	X	.000815	.000815	0	%100
17	LR-7	X	.000815	.000815	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.002	.002	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-10	X	.002	.002	0	%100
28	MP-11	X	.002	.002	0	%100
29	MP-12	X	.002	.002	0	%100
30	CT-A1	X	.002	.002	0	%100
31	CT-A2	X	.002	.002	0	%100
32	CT-A3	X	.001	.001	0	%100
33	CT-A4	X	.000703	.000703	0	%100
34	CT-A5	X	.000142	.000142	0	%100
35	CT-A6	X	.000425	.000425	0	%100
36	CT-A7	X	.000973	.000973	0	%100
37	CT-A8	X	.001	.001	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
38	CT-A9	X	.002	.002	0	%100
39	CT-A10	X	.002	.002	0	%100
40	CT-B1	X	.003	.003	0	%100
41	CT-B2	X	.003	.003	0	%100
42	CT-B3	X	.003	.003	0	%100
43	CT-B4	X	.003	.003	0	%100
44	CT-B5	X	.002	.002	0	%100
45	CT-B6	X	.002	.002	0	%100
46	CT-B7	X	.002	.002	0	%100
47	CT-B8	X	.001	.001	0	%100
48	CT-B9	X	.000703	.000703	0	%100
49	CT-B10	X	.000142	.000142	0	%100
50	CT-C1	X	.000425	.000425	0	%100
51	CT-C2	X	.000973	.000973	0	%100
52	CT-C3	X	.001	.001	0	%100
53	CT-C4	X	.002	.002	0	%100
54	CT-C5	X	.002	.002	0	%100
55	CT-C6	X	.003	.003	0	%100
56	CT-C7	X	.003	.003	0	%100
57	CT-C8	X	.003	.003	0	%100
58	CT-C9	X	.003	.003	0	%100
59	CT-C10	X	.002	.002	0	%100
60	SA1	X	.003	.003	0	%100
61	SA2	X	.002	.002	0	%100
62	SA3	X	.000464	.000464	0	%100
63	HR-1	X	.002	.002	0	%100
64	HR-2	X	.002	.002	0	%100
65	HR-3	X	.000465	.000465	0	%100
66	HRC-1	X	.000749	.000749	0	%100
67	HRC-2	X	.002	.002	0	%100
68	HRC-3	X	.003	.003	0	%100
69	FF-H1	Z	-.003	-.003	0	%100
70	SF1-H1	Z	-.001	-.001	0	%100
71	SF2-H1	Z	-.005	-.005	0	%100
72	GSI1	Z	-.001	-.001	0	%100
73	GSI2	Z	-.004	-.004	0	%100
74	GSI3	Z	-.003	-.003	0	%100
75	I1	Z	-.003	-.003	0	%100
76	I2	Z	-.003	-.003	0	%100
77	LL-L	Z	-.003	-.003	0	%100
78	LL-R	Z	-.003	-.003	0	%100
79	LR-1	Z	-.000868	-.000868	0	%100
80	LR-2	Z	-.000868	-.000868	0	%100
81	LR-3	Z	-.000868	-.000868	0	%100
82	LR-4	Z	-.000868	-.000868	0	%100
83	LR-5	Z	-.000868	-.000868	0	%100
84	LR-6	Z	-.000868	-.000868	0	%100
85	LR-7	Z	-.000868	-.000868	0	%100
86	MP-1	Z	-.002	-.002	0	%100
87	MP-2	Z	-.002	-.002	0	%100
88	MP-3	Z	-.002	-.002	0	%100
89	MP-4	Z	-.002	-.002	0	%100
90	MP-5	Z	-.002	-.002	0	%100
91	MP-6	Z	-.002	-.002	0	%100
92	MP-7	Z	-.002	-.002	0	%100
93	MP-8	Z	-.002	-.002	0	%100
94	MP-9	Z	-.002	-.002	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,%]
95	MP-10	Z	-.002	-.002	0	%100
96	MP-11	Z	-.002	-.002	0	%100
97	MP-12	Z	-.002	-.002	0	%100
98	CT-A1	Z	-.002	-.002	0	%100
99	CT-A2	Z	-.002	-.002	0	%100
100	CT-A3	Z	-.001	-.001	0	%100
101	CT-A4	Z	-.000703	-.000703	0	%100
102	CT-A5	Z	-.000142	-.000142	0	%100
103	CT-A6	Z	-.000425	-.000425	0	%100
104	CT-A7	Z	-.000973	-.000973	0	%100
105	CT-A8	Z	-.001	-.001	0	%100
106	CT-A9	Z	-.002	-.002	0	%100
107	CT-A10	Z	-.002	-.002	0	%100
108	CT-B1	Z	-.003	-.003	0	%100
109	CT-B2	Z	-.003	-.003	0	%100
110	CT-B3	Z	-.003	-.003	0	%100
111	CT-B4	Z	-.003	-.003	0	%100
112	CT-B5	Z	-.002	-.002	0	%100
113	CT-B6	Z	-.002	-.002	0	%100
114	CT-B7	Z	-.002	-.002	0	%100
115	CT-B8	Z	-.001	-.001	0	%100
116	CT-B9	Z	-.000703	-.000703	0	%100
117	CT-B10	Z	-.000142	-.000142	0	%100
118	CT-C1	Z	-.000425	-.000425	0	%100
119	CT-C2	Z	-.000973	-.000973	0	%100
120	CT-C3	Z	-.001	-.001	0	%100
121	CT-C4	Z	-.002	-.002	0	%100
122	CT-C5	Z	-.002	-.002	0	%100
123	CT-C6	Z	-.003	-.003	0	%100
124	CT-C7	Z	-.003	-.003	0	%100
125	CT-C8	Z	-.003	-.003	0	%100
126	CT-C9	Z	-.003	-.003	0	%100
127	CT-C10	Z	-.002	-.002	0	%100
128	SA1	Z	-.003	-.003	0	%100
129	SA2	Z	-.002	-.002	0	%100
130	SA3	Z	-.000476	-.000476	0	%100
131	HR-1	Z	-.001	-.001	0	%100
132	HR-2	Z	-.002	-.002	0	%100
133	HR-3	Z	-.00056	-.00056	0	%100
134	HRC-1	Z	-.000757	-.000757	0	%100
135	HRC-2	Z	-.002	-.002	0	%100
136	HRC-3	Z	-.003	-.003	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	FF-H1	X	.005	.005	0	%100
2	SF1-H1	X	0	0	0	%100
3	SF2-H1	X	.004	.004	0	%100
4	GSI1	X	0	0	0	%100
5	GSI2	X	.004	.004	0	%100
6	GSI3	X	.004	.004	0	%100
7	I1	X	.004	.004	0	%100
8	I2	X	.002	.002	0	%100
9	LL-L	X	.004	.004	0	%100
10	LL-R	X	.004	.004	0	%100
11	LR-1	X	.000706	.000706	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
12	LR-2	X	.000706	.000706	0	%100
13	LR-3	X	.000706	.000706	0	%100
14	LR-4	X	.000706	.000706	0	%100
15	LR-5	X	.000706	.000706	0	%100
16	LR-6	X	.000706	.000706	0	%100
17	LR-7	X	.000706	.000706	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.002	.002	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-10	X	.002	.002	0	%100
28	MP-11	X	.002	.002	0	%100
29	MP-12	X	.002	.002	0	%100
30	CT-A1	X	.003	.003	0	%100
31	CT-A2	X	.003	.003	0	%100
32	CT-A3	X	.002	.002	0	%100
33	CT-A4	X	.002	.002	0	%100
34	CT-A5	X	.001	.001	0	%100
35	CT-A6	X	.000348	.000348	0	%100
36	CT-A7	X	.000348	.000348	0	%100
37	CT-A8	X	.001	.001	0	%100
38	CT-A9	X	.002	.002	0	%100
39	CT-A10	X	.002	.002	0	%100
40	CT-B1	X	.003	.003	0	%100
41	CT-B2	X	.003	.003	0	%100
42	CT-B3	X	.003	.003	0	%100
43	CT-B4	X	.003	.003	0	%100
44	CT-B5	X	.003	.003	0	%100
45	CT-B6	X	.003	.003	0	%100
46	CT-B7	X	.003	.003	0	%100
47	CT-B8	X	.002	.002	0	%100
48	CT-B9	X	.002	.002	0	%100
49	CT-B10	X	.001	.001	0	%100
50	CT-C1	X	.000348	.000348	0	%100
51	CT-C2	X	.000348	.000348	0	%100
52	CT-C3	X	.001	.001	0	%100
53	CT-C4	X	.002	.002	0	%100
54	CT-C5	X	.002	.002	0	%100
55	CT-C6	X	.003	.003	0	%100
56	CT-C7	X	.003	.003	0	%100
57	CT-C8	X	.003	.003	0	%100
58	CT-C9	X	.003	.003	0	%100
59	CT-C10	X	.003	.003	0	%100
60	SA1	X	.003	.003	0	%100
61	SA2	X	.003	.003	0	%100
62	SA3	X	.000379	.000379	0	%100
63	HR-1	X	.002	.002	0	%100
64	HR-2	X	.002	.002	0	%100
65	HR-3	X	0	0	0	%100
66	HRC-1	X	0	0	0	%100
67	HRC-2	X	.003	.003	0	%100
68	HRC-3	X	.003	.003	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,%]
69	FF-H1	Z	-.003	-.003	0	%100
70	SF1-H1	Z	0	0	0	%100
71	SF2-H1	Z	-.003	-.003	0	%100
72	GSI1	Z	0	0	0	%100
73	GSI2	Z	-.003	-.003	0	%100
74	GSI3	Z	-.002	-.002	0	%100
75	I1	Z	-.002	-.002	0	%100
76	I2	Z	-.001	-.001	0	%100
77	LL-L	Z	-.002	-.002	0	%100
78	LL-R	Z	-.002	-.002	0	%100
79	LR-1	Z	-.000434	-.000434	0	%100
80	LR-2	Z	-.000434	-.000434	0	%100
81	LR-3	Z	-.000434	-.000434	0	%100
82	LR-4	Z	-.000434	-.000434	0	%100
83	LR-5	Z	-.000434	-.000434	0	%100
84	LR-6	Z	-.000434	-.000434	0	%100
85	LR-7	Z	-.000434	-.000434	0	%100
86	MP-1	Z	-.001	-.001	0	%100
87	MP-2	Z	-.001	-.001	0	%100
88	MP-3	Z	-.001	-.001	0	%100
89	MP-4	Z	-.002	-.002	0	%100
90	MP-5	Z	-.001	-.001	0	%100
91	MP-6	Z	-.001	-.001	0	%100
92	MP-7	Z	-.001	-.001	0	%100
93	MP-8	Z	-.002	-.002	0	%100
94	MP-9	Z	-.001	-.001	0	%100
95	MP-10	Z	-.001	-.001	0	%100
96	MP-11	Z	-.001	-.001	0	%100
97	MP-12	Z	-.002	-.002	0	%100
98	CT-A1	Z	-.002	-.002	0	%100
99	CT-A2	Z	-.002	-.002	0	%100
100	CT-A3	Z	-.001	-.001	0	%100
101	CT-A4	Z	-.00096	-.00096	0	%100
102	CT-A5	Z	-.000593	-.000593	0	%100
103	CT-A6	Z	-.000201	-.000201	0	%100
104	CT-A7	Z	-.000201	-.000201	0	%100
105	CT-A8	Z	-.000593	-.000593	0	%100
106	CT-A9	Z	-.00096	-.00096	0	%100
107	CT-A10	Z	-.001	-.001	0	%100
108	CT-B1	Z	-.002	-.002	0	%100
109	CT-B2	Z	-.002	-.002	0	%100
110	CT-B3	Z	-.002	-.002	0	%100
111	CT-B4	Z	-.002	-.002	0	%100
112	CT-B5	Z	-.002	-.002	0	%100
113	CT-B6	Z	-.002	-.002	0	%100
114	CT-B7	Z	-.002	-.002	0	%100
115	CT-B8	Z	-.001	-.001	0	%100
116	CT-B9	Z	-.00096	-.00096	0	%100
117	CT-B10	Z	-.000593	-.000593	0	%100
118	CT-C1	Z	-.000201	-.000201	0	%100
119	CT-C2	Z	-.000201	-.000201	0	%100
120	CT-C3	Z	-.000593	-.000593	0	%100
121	CT-C4	Z	-.00096	-.00096	0	%100
122	CT-C5	Z	-.001	-.001	0	%100
123	CT-C6	Z	-.002	-.002	0	%100
124	CT-C7	Z	-.002	-.002	0	%100
125	CT-C8	Z	-.002	-.002	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
126	CT-C9	Z	-.002	-.002	0	%100
127	CT-C10	Z	-.002	-.002	0	%100
128	SA1	Z	-.002	-.002	0	%100
129	SA2	Z	-.002	-.002	0	%100
130	SA3	Z	-.000225	-.000225	0	%100
131	HR-1	Z	-.001	-.001	0	%100
132	HR-2	Z	-.001	-.001	0	%100
133	HR-3	Z	0	0	0	%100
134	HRC-1	Z	0	0	0	%100
135	HRC-2	Z	-.002	-.002	0	%100
136	HRC-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	FF-H1	X	.007	.007	0	%100
2	SF1-H1	X	.006	.006	0	%100
3	SF2-H1	X	.006	.006	0	%100
4	GSI1	X	.005	.005	0	%100
5	GSI2	X	.005	.005	0	%100
6	GSI3	X	.006	.006	0	%100
7	I1	X	.006	.006	0	%100
8	I2	X	.006	.006	0	%100
9	LL-L	X	.004	.004	0	%100
10	LL-R	X	.004	.004	0	%100
11	LR-1	X	.002	.002	0	%100
12	LR-2	X	.002	.002	0	%100
13	LR-3	X	.002	.002	0	%100
14	LR-4	X	.002	.002	0	%100
15	LR-5	X	.002	.002	0	%100
16	LR-6	X	.002	.002	0	%100
17	LR-7	X	.002	.002	0	%100
18	MP-1	X	.003	.003	0	%100
19	MP-2	X	.003	.003	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.003	.003	0	%100
22	MP-5	X	.003	.003	0	%100
23	MP-6	X	.003	.003	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.003	.003	0	%100
26	MP-9	X	.003	.003	0	%100
27	MP-10	X	.003	.003	0	%100
28	MP-11	X	.002	.002	0	%100
29	MP-12	X	.003	.003	0	%100
30	CT-A1	X	.004	.004	0	%100
31	CT-A2	X	.004	.004	0	%100
32	CT-A3	X	.004	.004	0	%100
33	CT-A4	X	.004	.004	0	%100
34	CT-A5	X	.004	.004	0	%100
35	CT-A6	X	.004	.004	0	%100
36	CT-A7	X	.004	.004	0	%100
37	CT-A8	X	.004	.004	0	%100
38	CT-A9	X	.004	.004	0	%100
39	CT-A10	X	.004	.004	0	%100
40	CT-B1	X	.004	.004	0	%100
41	CT-B2	X	.004	.004	0	%100
42	CT-B3	X	.004	.004	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,%]
43	CT-B4	X	.004	.004	0	%100
44	CT-B5	X	.004	.004	0	%100
45	CT-B6	X	.004	.004	0	%100
46	CT-B7	X	.004	.004	0	%100
47	CT-B8	X	.004	.004	0	%100
48	CT-B9	X	.004	.004	0	%100
49	CT-B10	X	.004	.004	0	%100
50	CT-C1	X	.004	.004	0	%100
51	CT-C2	X	.004	.004	0	%100
52	CT-C3	X	.004	.004	0	%100
53	CT-C4	X	.004	.004	0	%100
54	CT-C5	X	.004	.004	0	%100
55	CT-C6	X	.004	.004	0	%100
56	CT-C7	X	.004	.004	0	%100
57	CT-C8	X	.004	.004	0	%100
58	CT-C9	X	.004	.004	0	%100
59	CT-C10	X	.004	.004	0	%100
60	SA1	X	.004	.004	0	%100
61	SA2	X	.004	.004	0	%100
62	SA3	X	.004	.004	0	%100
63	HR-1	X	.003	.003	0	%100
64	HR-2	X	.003	.003	0	%100
65	HR-3	X	.003	.003	0	%100
66	HRC-1	X	.004	.004	0	%100
67	HRC-2	X	.004	.004	0	%100
68	HRC-3	X	.004	.004	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	FF-H1	X	.005	.005	0	%100
2	SF1-H1	X	.004	.004	0	%100
3	SF2-H1	X	0	0	0	%100
4	GSI1	X	.004	.004	0	%100
5	GSI2	X	0	0	0	%100
6	GSI3	X	.004	.004	0	%100
7	I1	X	.004	.004	0	%100
8	I2	X	.002	.002	0	%100
9	LL-L	X	.004	.004	0	%100
10	LL-R	X	.004	.004	0	%100
11	LR-1	X	.000706	.000706	0	%100
12	LR-2	X	.000706	.000706	0	%100
13	LR-3	X	.000706	.000706	0	%100
14	LR-4	X	.000706	.000706	0	%100
15	LR-5	X	.000706	.000706	0	%100
16	LR-6	X	.000706	.000706	0	%100
17	LR-7	X	.000706	.000706	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.002	.002	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-10	X	.002	.002	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
28	MP-11	X	.002	.002	0	%100
29	MP-12	X	.002	.002	0	%100
30	CT-A1	X	.003	.003	0	%100
31	CT-A2	X	.003	.003	0	%100
32	CT-A3	X	.003	.003	0	%100
33	CT-A4	X	.003	.003	0	%100
34	CT-A5	X	.003	.003	0	%100
35	CT-A6	X	.003	.003	0	%100
36	CT-A7	X	.003	.003	0	%100
37	CT-A8	X	.002	.002	0	%100
38	CT-A9	X	.002	.002	0	%100
39	CT-A10	X	.001	.001	0	%100
40	CT-B1	X	.000348	.000348	0	%100
41	CT-B2	X	.000348	.000348	0	%100
42	CT-B3	X	.001	.001	0	%100
43	CT-B4	X	.002	.002	0	%100
44	CT-B5	X	.002	.002	0	%100
45	CT-B6	X	.003	.003	0	%100
46	CT-B7	X	.003	.003	0	%100
47	CT-B8	X	.003	.003	0	%100
48	CT-B9	X	.003	.003	0	%100
49	CT-B10	X	.003	.003	0	%100
50	CT-C1	X	.003	.003	0	%100
51	CT-C2	X	.003	.003	0	%100
52	CT-C3	X	.002	.002	0	%100
53	CT-C4	X	.002	.002	0	%100
54	CT-C5	X	.001	.001	0	%100
55	CT-C6	X	.000348	.000348	0	%100
56	CT-C7	X	.000348	.000348	0	%100
57	CT-C8	X	.001	.001	0	%100
58	CT-C9	X	.002	.002	0	%100
59	CT-C10	X	.002	.002	0	%100
60	SA1	X	.000379	.000379	0	%100
61	SA2	X	.003	.003	0	%100
62	SA3	X	.003	.003	0	%100
63	HR-1	X	.002	.002	0	%100
64	HR-2	X	0	0	0	%100
65	HR-3	X	.002	.002	0	%100
66	HRC-1	X	.003	.003	0	%100
67	HRC-2	X	.003	.003	0	%100
68	HRC-3	X	0	0	0	%100
69	FF-H1	Z	.003	.003	0	%100
70	SF1-H1	Z	.003	.003	0	%100
71	SF2-H1	Z	0	0	0	%100
72	GSI1	Z	.003	.003	0	%100
73	GSI2	Z	0	0	0	%100
74	GSI3	Z	.002	.002	0	%100
75	I1	Z	.002	.002	0	%100
76	I2	Z	.001	.001	0	%100
77	LL-L	Z	.002	.002	0	%100
78	LL-R	Z	.002	.002	0	%100
79	LR-1	Z	.000434	.000434	0	%100
80	LR-2	Z	.000434	.000434	0	%100
81	LR-3	Z	.000434	.000434	0	%100
82	LR-4	Z	.000434	.000434	0	%100
83	LR-5	Z	.000434	.000434	0	%100
84	LR-6	Z	.000434	.000434	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,%]
85	LR-7	Z	.000434	.000434	0	%100
86	MP-1	Z	.001	.001	0	%100
87	MP-2	Z	.001	.001	0	%100
88	MP-3	Z	.001	.001	0	%100
89	MP-4	Z	.002	.002	0	%100
90	MP-5	Z	.001	.001	0	%100
91	MP-6	Z	.001	.001	0	%100
92	MP-7	Z	.001	.001	0	%100
93	MP-8	Z	.002	.002	0	%100
94	MP-9	Z	.001	.001	0	%100
95	MP-10	Z	.001	.001	0	%100
96	MP-11	Z	.001	.001	0	%100
97	MP-12	Z	.002	.002	0	%100
98	CT-A1	Z	.002	.002	0	%100
99	CT-A2	Z	.002	.002	0	%100
100	CT-A3	Z	.002	.002	0	%100
101	CT-A4	Z	.002	.002	0	%100
102	CT-A5	Z	.002	.002	0	%100
103	CT-A6	Z	.002	.002	0	%100
104	CT-A7	Z	.002	.002	0	%100
105	CT-A8	Z	.001	.001	0	%100
106	CT-A9	Z	.00096	.00096	0	%100
107	CT-A10	Z	.000593	.000593	0	%100
108	CT-B1	Z	.000201	.000201	0	%100
109	CT-B2	Z	.000201	.000201	0	%100
110	CT-B3	Z	.000593	.000593	0	%100
111	CT-B4	Z	.00096	.00096	0	%100
112	CT-B5	Z	.001	.001	0	%100
113	CT-B6	Z	.002	.002	0	%100
114	CT-B7	Z	.002	.002	0	%100
115	CT-B8	Z	.002	.002	0	%100
116	CT-B9	Z	.002	.002	0	%100
117	CT-B10	Z	.002	.002	0	%100
118	CT-C1	Z	.002	.002	0	%100
119	CT-C2	Z	.002	.002	0	%100
120	CT-C3	Z	.001	.001	0	%100
121	CT-C4	Z	.00096	.00096	0	%100
122	CT-C5	Z	.000593	.000593	0	%100
123	CT-C6	Z	.000201	.000201	0	%100
124	CT-C7	Z	.000201	.000201	0	%100
125	CT-C8	Z	.000593	.000593	0	%100
126	CT-C9	Z	.00096	.00096	0	%100
127	CT-C10	Z	.001	.001	0	%100
128	SA1	Z	.000228	.000228	0	%100
129	SA2	Z	.002	.002	0	%100
130	SA3	Z	.002	.002	0	%100
131	HR-1	Z	.001	.001	0	%100
132	HR-2	Z	0	0	0	%100
133	HR-3	Z	.001	.001	0	%100
134	HRC-1	Z	.002	.002	0	%100
135	HRC-2	Z	.002	.002	0	%100
136	HRC-3	Z	0	0	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	FF-H1	X	.004	.004	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
2	SF1-H1	X	.004	.004	0	%100
3	SF2-H1	X	.001	.001	0	%100
4	GSI1	X	.004	.004	0	%100
5	GSI2	X	.00097	.00097	0	%100
6	GSI3	X	.003	.003	0	%100
7	I1	X	.003	.003	0	%100
8	I2	X	.003	.003	0	%100
9	LL-L	X	.003	.003	0	%100
10	LL-R	X	.003	.003	0	%100
11	LR-1	X	.000815	.000815	0	%100
12	LR-2	X	.000815	.000815	0	%100
13	LR-3	X	.000815	.000815	0	%100
14	LR-4	X	.000815	.000815	0	%100
15	LR-5	X	.000815	.000815	0	%100
16	LR-6	X	.000815	.000815	0	%100
17	LR-7	X	.000815	.000815	0	%100
18	MP-1	X	.002	.002	0	%100
19	MP-2	X	.002	.002	0	%100
20	MP-3	X	.002	.002	0	%100
21	MP-4	X	.002	.002	0	%100
22	MP-5	X	.002	.002	0	%100
23	MP-6	X	.002	.002	0	%100
24	MP-7	X	.002	.002	0	%100
25	MP-8	X	.002	.002	0	%100
26	MP-9	X	.002	.002	0	%100
27	MP-10	X	.002	.002	0	%100
28	MP-11	X	.002	.002	0	%100
29	MP-12	X	.002	.002	0	%100
30	CT-A1	X	.002	.002	0	%100
31	CT-A2	X	.002	.002	0	%100
32	CT-A3	X	.002	.002	0	%100
33	CT-A4	X	.003	.003	0	%100
34	CT-A5	X	.003	.003	0	%100
35	CT-A6	X	.003	.003	0	%100
36	CT-A7	X	.003	.003	0	%100
37	CT-A8	X	.002	.002	0	%100
38	CT-A9	X	.002	.002	0	%100
39	CT-A10	X	.001	.001	0	%100
40	CT-B1	X	.000973	.000973	0	%100
41	CT-B2	X	.000425	.000425	0	%100
42	CT-B3	X	.000142	.000142	0	%100
43	CT-B4	X	.000703	.000703	0	%100
44	CT-B5	X	.001	.001	0	%100
45	CT-B6	X	.002	.002	0	%100
46	CT-B7	X	.002	.002	0	%100
47	CT-B8	X	.002	.002	0	%100
48	CT-B9	X	.003	.003	0	%100
49	CT-B10	X	.003	.003	0	%100
50	CT-C1	X	.003	.003	0	%100
51	CT-C2	X	.003	.003	0	%100
52	CT-C3	X	.002	.002	0	%100
53	CT-C4	X	.002	.002	0	%100
54	CT-C5	X	.001	.001	0	%100
55	CT-C6	X	.000973	.000973	0	%100
56	CT-C7	X	.000425	.000425	0	%100
57	CT-C8	X	.000142	.000142	0	%100
58	CT-C9	X	.000703	.000703	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,%]
59	CT-C10	X	.001	.001	0	%100
60	SA1	X	.001	.001	0	%100
61	SA2	X	.002	.002	0	%100
62	SA3	X	.003	.003	0	%100
63	HR-1	X	.002	.002	0	%100
64	HR-2	X	.000465	.000465	0	%100
65	HR-3	X	.002	.002	0	%100
66	HRC-1	X	.003	.003	0	%100
67	HRC-2	X	.002	.002	0	%100
68	HRC-3	X	.000749	.000749	0	%100
69	FF-H1	Z	.003	.003	0	%100
70	SF1-H1	Z	.005	.005	0	%100
71	SF2-H1	Z	.001	.001	0	%100
72	GSI1	Z	.004	.004	0	%100
73	GSI2	Z	.001	.001	0	%100
74	GSI3	Z	.003	.003	0	%100
75	I1	Z	.003	.003	0	%100
76	I2	Z	.003	.003	0	%100
77	LL-L	Z	.003	.003	0	%100
78	LL-R	Z	.003	.003	0	%100
79	LR-1	Z	.000868	.000868	0	%100
80	LR-2	Z	.000868	.000868	0	%100
81	LR-3	Z	.000868	.000868	0	%100
82	LR-4	Z	.000868	.000868	0	%100
83	LR-5	Z	.000868	.000868	0	%100
84	LR-6	Z	.000868	.000868	0	%100
85	LR-7	Z	.000868	.000868	0	%100
86	MP-1	Z	.002	.002	0	%100
87	MP-2	Z	.002	.002	0	%100
88	MP-3	Z	.002	.002	0	%100
89	MP-4	Z	.002	.002	0	%100
90	MP-5	Z	.002	.002	0	%100
91	MP-6	Z	.002	.002	0	%100
92	MP-7	Z	.002	.002	0	%100
93	MP-8	Z	.002	.002	0	%100
94	MP-9	Z	.002	.002	0	%100
95	MP-10	Z	.002	.002	0	%100
96	MP-11	Z	.002	.002	0	%100
97	MP-12	Z	.002	.002	0	%100
98	CT-A1	Z	.002	.002	0	%100
99	CT-A2	Z	.002	.002	0	%100
100	CT-A3	Z	.002	.002	0	%100
101	CT-A4	Z	.003	.003	0	%100
102	CT-A5	Z	.003	.003	0	%100
103	CT-A6	Z	.003	.003	0	%100
104	CT-A7	Z	.003	.003	0	%100
105	CT-A8	Z	.002	.002	0	%100
106	CT-A9	Z	.002	.002	0	%100
107	CT-A10	Z	.001	.001	0	%100
108	CT-B1	Z	.000973	.000973	0	%100
109	CT-B2	Z	.000425	.000425	0	%100
110	CT-B3	Z	.000142	.000142	0	%100
111	CT-B4	Z	.000703	.000703	0	%100
112	CT-B5	Z	.001	.001	0	%100
113	CT-B6	Z	.002	.002	0	%100
114	CT-B7	Z	.002	.002	0	%100
115	CT-B8	Z	.002	.002	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,%]
116	CT-B9	Z	.003	.003	0	%100
117	CT-B10	Z	.003	.003	0	%100
118	CT-C1	Z	.003	.003	0	%100
119	CT-C2	Z	.003	.003	0	%100
120	CT-C3	Z	.002	.002	0	%100
121	CT-C4	Z	.002	.002	0	%100
122	CT-C5	Z	.001	.001	0	%100
123	CT-C6	Z	.000973	.000973	0	%100
124	CT-C7	Z	.000425	.000425	0	%100
125	CT-C8	Z	.000142	.000142	0	%100
126	CT-C9	Z	.000703	.000703	0	%100
127	CT-C10	Z	.001	.001	0	%100
128	SA1	Z	.001	.001	0	%100
129	SA2	Z	.002	.002	0	%100
130	SA3	Z	.003	.003	0	%100
131	HR-1	Z	.001	.001	0	%100
132	HR-2	Z	.00056	.00056	0	%100
133	HR-3	Z	.002	.002	0	%100
134	HRC-1	Z	.003	.003	0	%100
135	HRC-2	Z	.002	.002	0	%100
136	HRC-3	Z	.000757	.000757	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	FF-H1	X	.002	.002	0	%100
2	SF1-H1	X	.003	.003	0	%100
3	SF2-H1	X	.001	.001	0	%100
4	GSI1	X	.003	.003	0	%100
5	GSI2	X	.001	.001	0	%100
6	GSI3	X	.001	.001	0	%100
7	I1	X	.001	.001	0	%100
8	I2	X	.002	.002	0	%100
9	LL-L	X	.002	.002	0	%100
10	LL-R	X	.002	.002	0	%100
11	LR-1	X	.000706	.000706	0	%100
12	LR-2	X	.000706	.000706	0	%100
13	LR-3	X	.000706	.000706	0	%100
14	LR-4	X	.000706	.000706	0	%100
15	LR-5	X	.000706	.000706	0	%100
16	LR-6	X	.000706	.000706	0	%100
17	LR-7	X	.000706	.000706	0	%100
18	MP-1	X	.001	.001	0	%100
19	MP-2	X	.001	.001	0	%100
20	MP-3	X	.001	.001	0	%100
21	MP-4	X	.001	.001	0	%100
22	MP-5	X	.001	.001	0	%100
23	MP-6	X	.001	.001	0	%100
24	MP-7	X	.001	.001	0	%100
25	MP-8	X	.001	.001	0	%100
26	MP-9	X	.001	.001	0	%100
27	MP-10	X	.001	.001	0	%100
28	MP-11	X	.001	.001	0	%100
29	MP-12	X	.001	.001	0	%100
30	CT-A1	X	.000781	.000781	0	%100
31	CT-A2	X	.001	.001	0	%100
32	CT-A3	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,%]
33	CT-A4	X	.002	.002	0	%100
34	CT-A5	X	.002	.002	0	%100
35	CT-A6	X	.002	.002	0	%100
36	CT-A7	X	.002	.002	0	%100
37	CT-A8	X	.002	.002	0	%100
38	CT-A9	X	.002	.002	0	%100
39	CT-A10	X	.001	.001	0	%100
40	CT-B1	X	.001	.001	0	%100
41	CT-B2	X	.000781	.000781	0	%100
42	CT-B3	X	.000399	.000399	0	%100
43	CT-B4	X	0	0	0	%100
44	CT-B5	X	.000399	.000399	0	%100
45	CT-B6	X	.000781	.000781	0	%100
46	CT-B7	X	.001	.001	0	%100
47	CT-B8	X	.001	.001	0	%100
48	CT-B9	X	.002	.002	0	%100
49	CT-B10	X	.002	.002	0	%100
50	CT-C1	X	.002	.002	0	%100
51	CT-C2	X	.002	.002	0	%100
52	CT-C3	X	.002	.002	0	%100
53	CT-C4	X	.002	.002	0	%100
54	CT-C5	X	.001	.001	0	%100
55	CT-C6	X	.001	.001	0	%100
56	CT-C7	X	.000781	.000781	0	%100
57	CT-C8	X	.000399	.000399	0	%100
58	CT-C9	X	0	0	0	%100
59	CT-C10	X	.000399	.000399	0	%100
60	SA1	X	.001	.001	0	%100
61	SA2	X	.000895	.000895	0	%100
62	SA3	X	.002	.002	0	%100
63	HR-1	X	.000812	.000812	0	%100
64	HR-2	X	.000636	.000636	0	%100
65	HR-3	X	.001	.001	0	%100
66	HRC-1	X	.002	.002	0	%100
67	HRC-2	X	.001	.001	0	%100
68	HRC-3	X	.001	.001	0	%100
69	FF-H1	Z	.003	.003	0	%100
70	SF1-H1	Z	.006	.006	0	%100
71	SF2-H1	Z	.003	.003	0	%100
72	GSI1	Z	.005	.005	0	%100
73	GSI2	Z	.003	.003	0	%100
74	GSI3	Z	.002	.002	0	%100
75	I1	Z	.002	.002	0	%100
76	I2	Z	.004	.004	0	%100
77	LL-L	Z	.004	.004	0	%100
78	LL-R	Z	.004	.004	0	%100
79	LR-1	Z	.001	.001	0	%100
80	LR-2	Z	.001	.001	0	%100
81	LR-3	Z	.001	.001	0	%100
82	LR-4	Z	.001	.001	0	%100
83	LR-5	Z	.001	.001	0	%100
84	LR-6	Z	.001	.001	0	%100
85	LR-7	Z	.001	.001	0	%100
86	MP-1	Z	.003	.003	0	%100
87	MP-2	Z	.003	.003	0	%100
88	MP-3	Z	.002	.002	0	%100
89	MP-4	Z	.003	.003	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
90	MP-5	Z	.003	.003	0	%100
91	MP-6	Z	.003	.003	0	%100
92	MP-7	Z	.002	.002	0	%100
93	MP-8	Z	.003	.003	0	%100
94	MP-9	Z	.003	.003	0	%100
95	MP-10	Z	.003	.003	0	%100
96	MP-11	Z	.002	.002	0	%100
97	MP-12	Z	.003	.003	0	%100
98	CT-A1	Z	.001	.001	0	%100
99	CT-A2	Z	.002	.002	0	%100
100	CT-A3	Z	.002	.002	0	%100
101	CT-A4	Z	.003	.003	0	%100
102	CT-A5	Z	.003	.003	0	%100
103	CT-A6	Z	.003	.003	0	%100
104	CT-A7	Z	.003	.003	0	%100
105	CT-A8	Z	.003	.003	0	%100
106	CT-A9	Z	.003	.003	0	%100
107	CT-A10	Z	.002	.002	0	%100
108	CT-B1	Z	.002	.002	0	%100
109	CT-B2	Z	.001	.001	0	%100
110	CT-B3	Z	.000692	.000692	0	%100
111	CT-B4	Z	0	0	0	%100
112	CT-B5	Z	.000692	.000692	0	%100
113	CT-B6	Z	.001	.001	0	%100
114	CT-B7	Z	.002	.002	0	%100
115	CT-B8	Z	.002	.002	0	%100
116	CT-B9	Z	.003	.003	0	%100
117	CT-B10	Z	.003	.003	0	%100
118	CT-C1	Z	.003	.003	0	%100
119	CT-C2	Z	.003	.003	0	%100
120	CT-C3	Z	.003	.003	0	%100
121	CT-C4	Z	.003	.003	0	%100
122	CT-C5	Z	.002	.002	0	%100
123	CT-C6	Z	.002	.002	0	%100
124	CT-C7	Z	.001	.001	0	%100
125	CT-C8	Z	.000692	.000692	0	%100
126	CT-C9	Z	0	0	0	%100
127	CT-C10	Z	.000692	.000692	0	%100
128	SA1	Z	.002	.002	0	%100
129	SA2	Z	.001	.001	0	%100
130	SA3	Z	.004	.004	0	%100
131	HR-1	Z	.001	.001	0	%100
132	HR-2	Z	.001	.001	0	%100
133	HR-3	Z	.003	.003	0	%100
134	HRC-1	Z	.004	.004	0	%100
135	HRC-2	Z	.002	.002	0	%100
136	HRC-3	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Z	0	0	0	%100
2	SF1-H1	Z	.006	.006	0	%100
3	SF2-H1	Z	.006	.006	0	%100
4	GSI1	Z	.005	.005	0	%100
5	GSI2	Z	.005	.005	0	%100
6	GSI3	Z	0	0	0	%100

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,%]
7	I1	Z	0	0	0	%100
8	I2	Z	.006	.006	0	%100
9	LL-L	Z	.005	.005	0	%100
10	LL-R	Z	.005	.005	0	%100
11	LR-1	Z	.002	.002	0	%100
12	LR-2	Z	.002	.002	0	%100
13	LR-3	Z	.002	.002	0	%100
14	LR-4	Z	.002	.002	0	%100
15	LR-5	Z	.002	.002	0	%100
16	LR-6	Z	.002	.002	0	%100
17	LR-7	Z	.002	.002	0	%100
18	MP-1	Z	.003	.003	0	%100
19	MP-2	Z	.003	.003	0	%100
20	MP-3	Z	.003	.003	0	%100
21	MP-4	Z	.003	.003	0	%100
22	MP-5	Z	.003	.003	0	%100
23	MP-6	Z	.003	.003	0	%100
24	MP-7	Z	.003	.003	0	%100
25	MP-8	Z	.003	.003	0	%100
26	MP-9	Z	.003	.003	0	%100
27	MP-10	Z	.003	.003	0	%100
28	MP-11	Z	.003	.003	0	%100
29	MP-12	Z	.003	.003	0	%100
30	CT-A1	Z	.000401	.000401	0	%100
31	CT-A2	Z	.000402	.000402	0	%100
32	CT-A3	Z	.001	.001	0	%100
33	CT-A4	Z	.002	.002	0	%100
34	CT-A5	Z	.003	.003	0	%100
35	CT-A6	Z	.003	.003	0	%100
36	CT-A7	Z	.004	.004	0	%100
37	CT-A8	Z	.004	.004	0	%100
38	CT-A9	Z	.004	.004	0	%100
39	CT-A10	Z	.004	.004	0	%100
40	CT-B1	Z	.004	.004	0	%100
41	CT-B2	Z	.003	.003	0	%100
42	CT-B3	Z	.003	.003	0	%100
43	CT-B4	Z	.002	.002	0	%100
44	CT-B5	Z	.001	.001	0	%100
45	CT-B6	Z	.000401	.000401	0	%100
46	CT-B7	Z	.000401	.000401	0	%100
47	CT-B8	Z	.001	.001	0	%100
48	CT-B9	Z	.002	.002	0	%100
49	CT-B10	Z	.003	.003	0	%100
50	CT-C1	Z	.003	.003	0	%100
51	CT-C2	Z	.004	.004	0	%100
52	CT-C3	Z	.004	.004	0	%100
53	CT-C4	Z	.004	.004	0	%100
54	CT-C5	Z	.004	.004	0	%100
55	CT-C6	Z	.004	.004	0	%100
56	CT-C7	Z	.003	.003	0	%100
57	CT-C8	Z	.003	.003	0	%100
58	CT-C9	Z	.002	.002	0	%100
59	CT-C10	Z	.001	.001	0	%100
60	SA1	Z	.004	.004	0	%100
61	SA2	Z	.000438	.000438	0	%100
62	SA3	Z	.003	.003	0	%100
63	HR-1	Z	0	0	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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	HR-2	Z	.003	.003	0	%100
65	HR-3	Z	.003	.003	0	%100
66	HRC-1	Z	.004	.004	0	%100
67	HRC-2	Z	0	0	0	%100
68	HRC-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	FF-H1	X	-.002	-.002	0	%100
2	SF1-H1	X	-.001	-.001	0	%100
3	SF2-H1	X	-.003	-.003	0	%100
4	GSI1	X	-.001	-.001	0	%100
5	GSI2	X	-.003	-.003	0	%100
6	GSI3	X	-.001	-.001	0	%100
7	I1	X	-.001	-.001	0	%100
8	I2	X	-.002	-.002	0	%100
9	LL-L	X	-.002	-.002	0	%100
10	LL-R	X	-.002	-.002	0	%100
11	LR-1	X	-.000706	-.000706	0	%100
12	LR-2	X	-.000706	-.000706	0	%100
13	LR-3	X	-.000706	-.000706	0	%100
14	LR-4	X	-.000706	-.000706	0	%100
15	LR-5	X	-.000706	-.000706	0	%100
16	LR-6	X	-.000706	-.000706	0	%100
17	LR-7	X	-.000706	-.000706	0	%100
18	MP-1	X	-.001	-.001	0	%100
19	MP-2	X	-.001	-.001	0	%100
20	MP-3	X	-.001	-.001	0	%100
21	MP-4	X	-.001	-.001	0	%100
22	MP-5	X	-.001	-.001	0	%100
23	MP-6	X	-.001	-.001	0	%100
24	MP-7	X	-.001	-.001	0	%100
25	MP-8	X	-.001	-.001	0	%100
26	MP-9	X	-.001	-.001	0	%100
27	MP-10	X	-.001	-.001	0	%100
28	MP-11	X	-.001	-.001	0	%100
29	MP-12	X	-.001	-.001	0	%100
30	CT-A1	X	-.001	-.001	0	%100
31	CT-A2	X	-.000781	-.000781	0	%100
32	CT-A3	X	-.000399	-.000399	0	%100
33	CT-A4	X	0	0	0	%100
34	CT-A5	X	-.000399	-.000399	0	%100
35	CT-A6	X	-.000781	-.000781	0	%100
36	CT-A7	X	-.001	-.001	0	%100
37	CT-A8	X	-.001	-.001	0	%100
38	CT-A9	X	-.002	-.002	0	%100
39	CT-A10	X	-.002	-.002	0	%100
40	CT-B1	X	-.002	-.002	0	%100
41	CT-B2	X	-.002	-.002	0	%100
42	CT-B3	X	-.002	-.002	0	%100
43	CT-B4	X	-.002	-.002	0	%100
44	CT-B5	X	-.001	-.001	0	%100
45	CT-B6	X	-.001	-.001	0	%100
46	CT-B7	X	-.000781	-.000781	0	%100
47	CT-B8	X	-.000399	-.000399	0	%100
48	CT-B9	X	0	0	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,%]
49	CT-B10	X	-.000399	-.000399	0	%100
50	CT-C1	X	-.000781	-.000781	0	%100
51	CT-C2	X	-.001	-.001	0	%100
52	CT-C3	X	-.001	-.001	0	%100
53	CT-C4	X	-.002	-.002	0	%100
54	CT-C5	X	-.002	-.002	0	%100
55	CT-C6	X	-.002	-.002	0	%100
56	CT-C7	X	-.002	-.002	0	%100
57	CT-C8	X	-.002	-.002	0	%100
58	CT-C9	X	-.002	-.002	0	%100
59	CT-C10	X	-.001	-.001	0	%100
60	SA1	X	-.002	-.002	0	%100
61	SA2	X	-.001	-.001	0	%100
62	SA3	X	-.000852	-.000852	0	%100
63	HR-1	X	-.000812	-.000812	0	%100
64	HR-2	X	-.001	-.001	0	%100
65	HR-3	X	-.000636	-.000636	0	%100
66	HRC-1	X	-.001	-.001	0	%100
67	HRC-2	X	-.001	-.001	0	%100
68	HRC-3	X	-.002	-.002	0	%100
69	FF-H1	Z	.003	.003	0	%100
70	SF1-H1	Z	.003	.003	0	%100
71	SF2-H1	Z	.006	.006	0	%100
72	GSI1	Z	.003	.003	0	%100
73	GSI2	Z	.005	.005	0	%100
74	GSI3	Z	.002	.002	0	%100
75	I1	Z	.002	.002	0	%100
76	I2	Z	.004	.004	0	%100
77	LL-L	Z	.004	.004	0	%100
78	LL-R	Z	.004	.004	0	%100
79	LR-1	Z	.001	.001	0	%100
80	LR-2	Z	.001	.001	0	%100
81	LR-3	Z	.001	.001	0	%100
82	LR-4	Z	.001	.001	0	%100
83	LR-5	Z	.001	.001	0	%100
84	LR-6	Z	.001	.001	0	%100
85	LR-7	Z	.001	.001	0	%100
86	MP-1	Z	.003	.003	0	%100
87	MP-2	Z	.003	.003	0	%100
88	MP-3	Z	.002	.002	0	%100
89	MP-4	Z	.003	.003	0	%100
90	MP-5	Z	.003	.003	0	%100
91	MP-6	Z	.003	.003	0	%100
92	MP-7	Z	.002	.002	0	%100
93	MP-8	Z	.003	.003	0	%100
94	MP-9	Z	.003	.003	0	%100
95	MP-10	Z	.003	.003	0	%100
96	MP-11	Z	.002	.002	0	%100
97	MP-12	Z	.003	.003	0	%100
98	CT-A1	Z	.002	.002	0	%100
99	CT-A2	Z	.001	.001	0	%100
100	CT-A3	Z	.000692	.000692	0	%100
101	CT-A4	Z	0	0	0	%100
102	CT-A5	Z	.000692	.000692	0	%100
103	CT-A6	Z	.001	.001	0	%100
104	CT-A7	Z	.002	.002	0	%100
105	CT-A8	Z	.002	.002	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
106	CT-A9	Z	.003	.003	0	%100
107	CT-A10	Z	.003	.003	0	%100
108	CT-B1	Z	.003	.003	0	%100
109	CT-B2	Z	.003	.003	0	%100
110	CT-B3	Z	.003	.003	0	%100
111	CT-B4	Z	.003	.003	0	%100
112	CT-B5	Z	.002	.002	0	%100
113	CT-B6	Z	.002	.002	0	%100
114	CT-B7	Z	.001	.001	0	%100
115	CT-B8	Z	.000692	.000692	0	%100
116	CT-B9	Z	0	0	0	%100
117	CT-B10	Z	.000692	.000692	0	%100
118	CT-C1	Z	.001	.001	0	%100
119	CT-C2	Z	.002	.002	0	%100
120	CT-C3	Z	.002	.002	0	%100
121	CT-C4	Z	.003	.003	0	%100
122	CT-C5	Z	.003	.003	0	%100
123	CT-C6	Z	.003	.003	0	%100
124	CT-C7	Z	.003	.003	0	%100
125	CT-C8	Z	.003	.003	0	%100
126	CT-C9	Z	.003	.003	0	%100
127	CT-C10	Z	.002	.002	0	%100
128	SA1	Z	.004	.004	0	%100
129	SA2	Z	.002	.002	0	%100
130	SA3	Z	.002	.002	0	%100
131	HR-1	Z	.001	.001	0	%100
132	HR-2	Z	.003	.003	0	%100
133	HR-3	Z	.001	.001	0	%100
134	HRC-1	Z	.002	.002	0	%100
135	HRC-2	Z	.002	.002	0	%100
136	HRC-3	Z	.004	.004	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	FF-H1	X	-.004	-.004	0	%100
2	SF1-H1	X	-.001	-.001	0	%100
3	SF2-H1	X	-.004	-.004	0	%100
4	GSI1	X	-.00097	-.00097	0	%100
5	GSI2	X	-.004	-.004	0	%100
6	GSI3	X	-.003	-.003	0	%100
7	I1	X	-.003	-.003	0	%100
8	I2	X	-.003	-.003	0	%100
9	LL-L	X	-.003	-.003	0	%100
10	LL-R	X	-.003	-.003	0	%100
11	LR-1	X	-.000815	-.000815	0	%100
12	LR-2	X	-.000815	-.000815	0	%100
13	LR-3	X	-.000815	-.000815	0	%100
14	LR-4	X	-.000815	-.000815	0	%100
15	LR-5	X	-.000815	-.000815	0	%100
16	LR-6	X	-.000815	-.000815	0	%100
17	LR-7	X	-.000815	-.000815	0	%100
18	MP-1	X	-.002	-.002	0	%100
19	MP-2	X	-.002	-.002	0	%100
20	MP-3	X	-.002	-.002	0	%100
21	MP-4	X	-.002	-.002	0	%100
22	MP-5	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,%]
23	MP-6	X	-.002	-.002	0	%100
24	MP-7	X	-.002	-.002	0	%100
25	MP-8	X	-.002	-.002	0	%100
26	MP-9	X	-.002	-.002	0	%100
27	MP-10	X	-.002	-.002	0	%100
28	MP-11	X	-.002	-.002	0	%100
29	MP-12	X	-.002	-.002	0	%100
30	CT-A1	X	-.002	-.002	0	%100
31	CT-A2	X	-.002	-.002	0	%100
32	CT-A3	X	-.001	-.001	0	%100
33	CT-A4	X	-.000703	-.000703	0	%100
34	CT-A5	X	-.000142	-.000142	0	%100
35	CT-A6	X	-.000425	-.000425	0	%100
36	CT-A7	X	-.000973	-.000973	0	%100
37	CT-A8	X	-.001	-.001	0	%100
38	CT-A9	X	-.002	-.002	0	%100
39	CT-A10	X	-.002	-.002	0	%100
40	CT-B1	X	-.003	-.003	0	%100
41	CT-B2	X	-.003	-.003	0	%100
42	CT-B3	X	-.003	-.003	0	%100
43	CT-B4	X	-.003	-.003	0	%100
44	CT-B5	X	-.002	-.002	0	%100
45	CT-B6	X	-.002	-.002	0	%100
46	CT-B7	X	-.002	-.002	0	%100
47	CT-B8	X	-.001	-.001	0	%100
48	CT-B9	X	-.000703	-.000703	0	%100
49	CT-B10	X	-.000142	-.000142	0	%100
50	CT-C1	X	-.000425	-.000425	0	%100
51	CT-C2	X	-.000973	-.000973	0	%100
52	CT-C3	X	-.001	-.001	0	%100
53	CT-C4	X	-.002	-.002	0	%100
54	CT-C5	X	-.002	-.002	0	%100
55	CT-C6	X	-.003	-.003	0	%100
56	CT-C7	X	-.003	-.003	0	%100
57	CT-C8	X	-.003	-.003	0	%100
58	CT-C9	X	-.003	-.003	0	%100
59	CT-C10	X	-.002	-.002	0	%100
60	SA1	X	-.003	-.003	0	%100
61	SA2	X	-.002	-.002	0	%100
62	SA3	X	-.000464	-.000464	0	%100
63	HR-1	X	-.002	-.002	0	%100
64	HR-2	X	-.002	-.002	0	%100
65	HR-3	X	-.000465	-.000465	0	%100
66	HRC-1	X	-.000749	-.000749	0	%100
67	HRC-2	X	-.002	-.002	0	%100
68	HRC-3	X	-.003	-.003	0	%100
69	FF-H1	Z	.003	.003	0	%100
70	SF1-H1	Z	.001	.001	0	%100
71	SF2-H1	Z	.005	.005	0	%100
72	GSI1	Z	.001	.001	0	%100
73	GSI2	Z	.004	.004	0	%100
74	GSI3	Z	.003	.003	0	%100
75	I1	Z	.003	.003	0	%100
76	I2	Z	.003	.003	0	%100
77	LL-L	Z	.003	.003	0	%100
78	LL-R	Z	.003	.003	0	%100
79	LR-1	Z	.000868	.000868	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
80	LR-2	Z	.000868	.000868	0	%100
81	LR-3	Z	.000868	.000868	0	%100
82	LR-4	Z	.000868	.000868	0	%100
83	LR-5	Z	.000868	.000868	0	%100
84	LR-6	Z	.000868	.000868	0	%100
85	LR-7	Z	.000868	.000868	0	%100
86	MP-1	Z	.002	.002	0	%100
87	MP-2	Z	.002	.002	0	%100
88	MP-3	Z	.002	.002	0	%100
89	MP-4	Z	.002	.002	0	%100
90	MP-5	Z	.002	.002	0	%100
91	MP-6	Z	.002	.002	0	%100
92	MP-7	Z	.002	.002	0	%100
93	MP-8	Z	.002	.002	0	%100
94	MP-9	Z	.002	.002	0	%100
95	MP-10	Z	.002	.002	0	%100
96	MP-11	Z	.002	.002	0	%100
97	MP-12	Z	.002	.002	0	%100
98	CT-A1	Z	.002	.002	0	%100
99	CT-A2	Z	.002	.002	0	%100
100	CT-A3	Z	.001	.001	0	%100
101	CT-A4	Z	.000703	.000703	0	%100
102	CT-A5	Z	.000142	.000142	0	%100
103	CT-A6	Z	.000425	.000425	0	%100
104	CT-A7	Z	.000973	.000973	0	%100
105	CT-A8	Z	.001	.001	0	%100
106	CT-A9	Z	.002	.002	0	%100
107	CT-A10	Z	.002	.002	0	%100
108	CT-B1	Z	.003	.003	0	%100
109	CT-B2	Z	.003	.003	0	%100
110	CT-B3	Z	.003	.003	0	%100
111	CT-B4	Z	.003	.003	0	%100
112	CT-B5	Z	.002	.002	0	%100
113	CT-B6	Z	.002	.002	0	%100
114	CT-B7	Z	.002	.002	0	%100
115	CT-B8	Z	.001	.001	0	%100
116	CT-B9	Z	.000703	.000703	0	%100
117	CT-B10	Z	.000142	.000142	0	%100
118	CT-C1	Z	.000425	.000425	0	%100
119	CT-C2	Z	.000973	.000973	0	%100
120	CT-C3	Z	.001	.001	0	%100
121	CT-C4	Z	.002	.002	0	%100
122	CT-C5	Z	.002	.002	0	%100
123	CT-C6	Z	.003	.003	0	%100
124	CT-C7	Z	.003	.003	0	%100
125	CT-C8	Z	.003	.003	0	%100
126	CT-C9	Z	.003	.003	0	%100
127	CT-C10	Z	.002	.002	0	%100
128	SA1	Z	.003	.003	0	%100
129	SA2	Z	.002	.002	0	%100
130	SA3	Z	.000476	.000476	0	%100
131	HR-1	Z	.001	.001	0	%100
132	HR-2	Z	.002	.002	0	%100
133	HR-3	Z	.00056	.00056	0	%100
134	HRC-1	Z	.000757	.000757	0	%100
135	HRC-2	Z	.002	.002	0	%100
136	HRC-3	Z	.003	.003	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	FF-H1	X	-.005	-.005	0	%100
2	SF1-H1	X	0	0	0	%100
3	SF2-H1	X	-.004	-.004	0	%100
4	GSI1	X	0	0	0	%100
5	GSI2	X	-.004	-.004	0	%100
6	GSI3	X	-.004	-.004	0	%100
7	I1	X	-.004	-.004	0	%100
8	I2	X	-.002	-.002	0	%100
9	LL-L	X	-.004	-.004	0	%100
10	LL-R	X	-.004	-.004	0	%100
11	LR-1	X	-.000706	-.000706	0	%100
12	LR-2	X	-.000706	-.000706	0	%100
13	LR-3	X	-.000706	-.000706	0	%100
14	LR-4	X	-.000706	-.000706	0	%100
15	LR-5	X	-.000706	-.000706	0	%100
16	LR-6	X	-.000706	-.000706	0	%100
17	LR-7	X	-.000706	-.000706	0	%100
18	MP-1	X	-.002	-.002	0	%100
19	MP-2	X	-.002	-.002	0	%100
20	MP-3	X	-.002	-.002	0	%100
21	MP-4	X	-.002	-.002	0	%100
22	MP-5	X	-.002	-.002	0	%100
23	MP-6	X	-.002	-.002	0	%100
24	MP-7	X	-.002	-.002	0	%100
25	MP-8	X	-.002	-.002	0	%100
26	MP-9	X	-.002	-.002	0	%100
27	MP-10	X	-.002	-.002	0	%100
28	MP-11	X	-.002	-.002	0	%100
29	MP-12	X	-.002	-.002	0	%100
30	CT-A1	X	-.003	-.003	0	%100
31	CT-A2	X	-.003	-.003	0	%100
32	CT-A3	X	-.002	-.002	0	%100
33	CT-A4	X	-.002	-.002	0	%100
34	CT-A5	X	-.001	-.001	0	%100
35	CT-A6	X	-.000348	-.000348	0	%100
36	CT-A7	X	-.000348	-.000348	0	%100
37	CT-A8	X	-.001	-.001	0	%100
38	CT-A9	X	-.002	-.002	0	%100
39	CT-A10	X	-.002	-.002	0	%100
40	CT-B1	X	-.003	-.003	0	%100
41	CT-B2	X	-.003	-.003	0	%100
42	CT-B3	X	-.003	-.003	0	%100
43	CT-B4	X	-.003	-.003	0	%100
44	CT-B5	X	-.003	-.003	0	%100
45	CT-B6	X	-.003	-.003	0	%100
46	CT-B7	X	-.003	-.003	0	%100
47	CT-B8	X	-.002	-.002	0	%100
48	CT-B9	X	-.002	-.002	0	%100
49	CT-B10	X	-.001	-.001	0	%100
50	CT-C1	X	-.000348	-.000348	0	%100
51	CT-C2	X	-.000348	-.000348	0	%100
52	CT-C3	X	-.001	-.001	0	%100
53	CT-C4	X	-.002	-.002	0	%100
54	CT-C5	X	-.002	-.002	0	%100
55	CT-C6	X	-.003	-.003	0	%100
56	CT-C7	X	-.003	-.003	0	%100
57	CT-C8	X	-.003	-.003	0	%100

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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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,%]
58	CT-C9	X	-.003	-.003	0	%100
59	CT-C10	X	-.003	-.003	0	%100
60	SA1	X	-.003	-.003	0	%100
61	SA2	X	-.003	-.003	0	%100
62	SA3	X	-.000379	-.000379	0	%100
63	HR-1	X	-.002	-.002	0	%100
64	HR-2	X	-.002	-.002	0	%100
65	HR-3	X	0	0	0	%100
66	HRC-1	X	0	0	0	%100
67	HRC-2	X	-.003	-.003	0	%100
68	HRC-3	X	-.003	-.003	0	%100
69	FF-H1	Z	.003	.003	0	%100
70	SF1-H1	Z	0	0	0	%100
71	SF2-H1	Z	.003	.003	0	%100
72	GSI1	Z	0	0	0	%100
73	GSI2	Z	.003	.003	0	%100
74	GSI3	Z	.002	.002	0	%100
75	I1	Z	.002	.002	0	%100
76	I2	Z	.001	.001	0	%100
77	LL-L	Z	.002	.002	0	%100
78	LL-R	Z	.002	.002	0	%100
79	LR-1	Z	.000434	.000434	0	%100
80	LR-2	Z	.000434	.000434	0	%100
81	LR-3	Z	.000434	.000434	0	%100
82	LR-4	Z	.000434	.000434	0	%100
83	LR-5	Z	.000434	.000434	0	%100
84	LR-6	Z	.000434	.000434	0	%100
85	LR-7	Z	.000434	.000434	0	%100
86	MP-1	Z	.001	.001	0	%100
87	MP-2	Z	.001	.001	0	%100
88	MP-3	Z	.001	.001	0	%100
89	MP-4	Z	.002	.002	0	%100
90	MP-5	Z	.001	.001	0	%100
91	MP-6	Z	.001	.001	0	%100
92	MP-7	Z	.001	.001	0	%100
93	MP-8	Z	.002	.002	0	%100
94	MP-9	Z	.001	.001	0	%100
95	MP-10	Z	.001	.001	0	%100
96	MP-11	Z	.001	.001	0	%100
97	MP-12	Z	.002	.002	0	%100
98	CT-A1	Z	.002	.002	0	%100
99	CT-A2	Z	.002	.002	0	%100
100	CT-A3	Z	.001	.001	0	%100
101	CT-A4	Z	.00096	.00096	0	%100
102	CT-A5	Z	.000593	.000593	0	%100
103	CT-A6	Z	.000201	.000201	0	%100
104	CT-A7	Z	.000201	.000201	0	%100
105	CT-A8	Z	.000593	.000593	0	%100
106	CT-A9	Z	.00096	.00096	0	%100
107	CT-A10	Z	.001	.001	0	%100
108	CT-B1	Z	.002	.002	0	%100
109	CT-B2	Z	.002	.002	0	%100
110	CT-B3	Z	.002	.002	0	%100
111	CT-B4	Z	.002	.002	0	%100
112	CT-B5	Z	.002	.002	0	%100
113	CT-B6	Z	.002	.002	0	%100
114	CT-B7	Z	.002	.002	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,%]
115	CT-B8	Z	.001	.001	0	%100
116	CT-B9	Z	.00096	.00096	0	%100
117	CT-B10	Z	.000593	.000593	0	%100
118	CT-C1	Z	.000201	.000201	0	%100
119	CT-C2	Z	.000201	.000201	0	%100
120	CT-C3	Z	.000593	.000593	0	%100
121	CT-C4	Z	.00096	.00096	0	%100
122	CT-C5	Z	.001	.001	0	%100
123	CT-C6	Z	.002	.002	0	%100
124	CT-C7	Z	.002	.002	0	%100
125	CT-C8	Z	.002	.002	0	%100
126	CT-C9	Z	.002	.002	0	%100
127	CT-C10	Z	.002	.002	0	%100
128	SA1	Z	.002	.002	0	%100
129	SA2	Z	.002	.002	0	%100
130	SA3	Z	.000225	.000225	0	%100
131	HR-1	Z	.001	.001	0	%100
132	HR-2	Z	.001	.001	0	%100
133	HR-3	Z	0	0	0	%100
134	HRC-1	Z	0	0	0	%100
135	HRC-2	Z	.002	.002	0	%100
136	HRC-3	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Y	-3.425e-5	-.003	6	7.2
2	FF-H1	Y	-.003	-.011	7.2	8.4
3	FF-H1	Y	-.011	-.014	8.4	9.6
4	FF-H1	Y	-.014	-.006	9.6	10.8
5	FF-H1	Y	-.006	-3.425e-5	10.8	12
6	SF2-H1	Y	-.0005659	-.012	0	1.2
7	SF2-H1	Y	-.012	-.014	1.2	2.4
8	SF2-H1	Y	-.014	-.011	2.4	3.6
9	SF2-H1	Y	-.011	-.006	3.6	4.8
10	SF2-H1	Y	-.006	-.0005659	4.8	6
11	GSI1	Y	-.000525	-.006	0	.92
12	GSI1	Y	-.006	-.013	.92	1.841
13	GSI1	Y	-.013	-.014	1.841	2.761
14	GSI1	Y	-.014	-.009	2.761	3.682
15	GSI1	Y	-.009	-.001	3.682	4.602
16	SA1	Y	.0006988	.0006988	1.075	1.314
17	SA1	Y	.0006988	-.003	1.314	1.553
18	SA1	Y	-.003	-.012	1.553	1.792
19	FF-H1	Y	-.0005659	-.012	0	1.2
20	FF-H1	Y	-.012	-.014	1.2	2.4
21	FF-H1	Y	-.014	-.011	2.4	3.6
22	FF-H1	Y	-.011	-.006	3.6	4.8
23	FF-H1	Y	-.006	-.0005659	4.8	6
24	SF1-H1	Y	-3.425e-5	-.003	6	7.2
25	SF1-H1	Y	-.003	-.011	7.2	8.4
26	SF1-H1	Y	-.011	-.014	8.4	9.6
27	SF1-H1	Y	-.014	-.006	9.6	10.8
28	SF1-H1	Y	-.006	-3.425e-5	10.8	12
29	GSI2	Y	-.000525	-.006	0	.92
30	GSI2	Y	-.006	-.013	.92	1.841
31	GSI2	Y	-.013	-.014	1.841	2.761

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
32	GSI2	Y	-.014	-.009	2.761	3.682
33	GSI2	Y	-.009	-.001	3.682	4.602
34	SA2	Y	.0006988	.0006988	1.075	1.314
35	SA2	Y	.0006988	-.003	1.314	1.553
36	SA2	Y	-.003	-.012	1.553	1.792
37	SF1-H1	Y	-.008	-.006	0	2
38	SF1-H1	Y	-.006	-.004	2	4
39	SF1-H1	Y	-.004	-.002	4	6
40	SF2-H1	Y	-.0002902	-.002	6	7.2
41	SF2-H1	Y	-.002	-.003	7.2	8.4
42	SF2-H1	Y	-.003	-.006	8.4	9.6
43	SF2-H1	Y	-.006	-.006	9.6	10.8
44	SF2-H1	Y	-.006	-.0006964	10.8	12
45	GSI3	Y	-.0005485	-.003	0	.92
46	GSI3	Y	-.003	-.008	.92	1.841
47	GSI3	Y	-.008	-.01	1.841	2.761
48	GSI3	Y	-.01	-.008	2.761	3.682
49	GSI3	Y	-.008	-.005	3.682	4.602
50	I1	Y	-.000711	-.012	0	.619
51	I1	Y	-.012	-.019	.619	1.237
52	I1	Y	-.019	-.018	1.237	1.856
53	I1	Y	-.018	-.013	1.856	2.474
54	I1	Y	-.013	-.008	2.474	3.093
55	I2	Y	-.004	-.008	0	.35
56	I2	Y	-.008	-.012	.35	.7
57	I2	Y	-.012	-.011	.7	1.05
58	I2	Y	-.011	-.008	1.05	1.4
59	I2	Y	-.008	-.003	1.4	1.75
60	SA3	Y	.0004294	-.001	1.075	1.433
61	SA3	Y	-.001	-.005	1.433	1.792

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Y	-1.998e-5	-.002	6	7.2
2	FF-H1	Y	-.002	-.007	7.2	8.4
3	FF-H1	Y	-.007	-.008	8.4	9.6
4	FF-H1	Y	-.008	-.003	9.6	10.8
5	FF-H1	Y	-.003	-1.998e-5	10.8	12
6	SF2-H1	Y	-.0003301	-.007	0	1.2
7	SF2-H1	Y	-.007	-.008	1.2	2.4
8	SF2-H1	Y	-.008	-.007	2.4	3.6
9	SF2-H1	Y	-.007	-.004	3.6	4.8
10	SF2-H1	Y	-.004	-.0003301	4.8	6
11	GSI1	Y	-.0003062	-.003	0	.92
12	GSI1	Y	-.003	-.007	.92	1.841
13	GSI1	Y	-.007	-.008	1.841	2.761
14	GSI1	Y	-.008	-.005	2.761	3.682
15	GSI1	Y	-.005	-.0006099	3.682	4.602
16	SA1	Y	.0004076	.0004076	1.075	1.314
17	SA1	Y	.0004076	-.002	1.314	1.553
18	SA1	Y	-.002	-.007	1.553	1.792
19	FF-H1	Y	-.0003301	-.007	0	1.2
20	FF-H1	Y	-.007	-.008	1.2	2.4
21	FF-H1	Y	-.008	-.007	2.4	3.6
22	FF-H1	Y	-.007	-.004	3.6	4.8
23	FF-H1	Y	-.004	-.0003301	4.8	6

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
24	SF1-H1	Y	-1.998e-5	-.002	6	7.2
25	SF1-H1	Y	-.002	-.007	7.2	8.4
26	SF1-H1	Y	-.007	-.008	8.4	9.6
27	SF1-H1	Y	-.008	-.003	9.6	10.8
28	SF1-H1	Y	-.003	-1.998e-5	10.8	12
29	GSI2	Y	-.0003062	-.003	0	.92
30	GSI2	Y	-.003	-.007	.92	1.841
31	GSI2	Y	-.007	-.008	1.841	2.761
32	GSI2	Y	-.008	-.005	2.761	3.682
33	GSI2	Y	-.005	-.0006099	3.682	4.602
34	SA2	Y	.0004076	.0004076	1.075	1.314
35	SA2	Y	.0004076	-.002	1.314	1.553
36	SA2	Y	-.002	-.007	1.553	1.792
37	SF1-H1	Y	-.005	-.004	0	2
38	SF1-H1	Y	-.004	-.002	2	4
39	SF1-H1	Y	-.002	-.001	4	6
40	SF2-H1	Y	-.0001693	-.0009718	6	7.2
41	SF2-H1	Y	-.0009718	-.001	7.2	8.4
42	SF2-H1	Y	-.001	-.003	8.4	9.6
43	SF2-H1	Y	-.003	-.004	9.6	10.8
44	SF2-H1	Y	-.004	-.0004062	10.8	12
45	GSI3	Y	-.00032	-.002	0	.92
46	GSI3	Y	-.002	-.005	.92	1.841
47	GSI3	Y	-.005	-.006	1.841	2.761
48	GSI3	Y	-.006	-.004	2.761	3.682
49	GSI3	Y	-.004	-.003	3.682	4.602
50	I1	Y	-.0004147	-.007	0	.619
51	I1	Y	-.007	-.011	.619	1.237
52	I1	Y	-.011	-.01	1.237	1.856
53	I1	Y	-.01	-.007	1.856	2.474
54	I1	Y	-.007	-.005	2.474	3.093
55	I2	Y	-.002	-.005	0	.35
56	I2	Y	-.005	-.007	.35	.7
57	I2	Y	-.007	-.007	.7	1.05
58	I2	Y	-.007	-.004	1.05	1.4
59	I2	Y	-.004	-.002	1.4	1.75
60	SA3	Y	.0002505	-.0007514	1.075	1.433
61	SA3	Y	-.0007514	-.003	1.433	1.792

Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	FF2	GSI1	GSI4		Y	Two Way	-.012
2	GSI2	FF1	GSI5		Y	Two Way	-.012
3	GSI6	SF1-1	GSI3		Y	Two Way	-.012

Member Area Loads (BLC 18 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	FF2	GSI1	GSI4		Y	Two Way	-.007
2	GSI2	FF1	GSI5		Y	Two Way	-.007
3	GSI6	SF1-1	GSI3		Y	Two Way	-.007

Company : Tower Engineering Professionals
Designer : EBS
Job Number : TEP No. 25689.295247
Model Name : HRT 094 943225 (BU 806369)

Sept 4, 2019
4:24 PM
Checked By: NAM

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Che...	Loc[ft]	Dir	LC	phi*P...	phi*P...	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	SA1	HSS3X3X5	.560	0	42	.182	0	y	44	108.2...	121.7...	10.005	10.005	1...	H1-1b
2	MP-2	PIPE_2.0 Nomin...	.556	4.427	26	.108	4.427		26	14.622	33.848	1.997	1.997	1...	H1-1b
3	SA2	HSS3X3X5	.544	0	39	.206	0	y	39	108.2...	121.7...	10.005	10.005	1...	H1-1b
4	I2	C5X6.7	.512	1.75	30	.200	1.513	z	30	59.252	63.828	1.604	9.585	1...	H1-1b
5	FF-H1	C5X6.7	.501	6.875	45	.467	6.5	y	26	12.12	63.828	1.604	9.084	1...	H1-1b
6	SF1-H1	C5X6.7	.500	6.875	34	.365	6.625	y	21	12.12	63.828	1.604	9.321	1...	H1-1b
7	SA3	HSS3X3X5	.494	0	34	.166	0	y	34	108.2...	121.7...	10.005	10.005	1...	H1-1b
8	HRC-3	L2.5x2.5x4	.458	1.25	19	.082	0	y	19	35.672	37.485	1.083	2.467	2...	H2-1
9	GSI1	C5X6.7	.453	.692	23	.236	.692	y	42	52.301	63.828	1.604	9.585	1...	H1-1b
10	HRC-1	L2.5x2.5x4	.453	1.25	24	.081	0	y	25	35.672	37.485	1.083	2.467	2...	H2-1
11	MP-12	PIPE_2.0 Nomin...	.447	6.453	34	.041	2.516		41	14.622	33.848	1.997	1.997	2...	H1-1b
12	SF2-H1	C5X6.7	.415	6.875	29	.460	6.5	y	31	12.12	63.828	1.604	9.585	2...	H1-1b
13	MP-4	PIPE_2.0 Nomin...	.414	6.453	24	.039	6.453		23	14.622	33.848	1.997	1.997	2...	H1-1b
14	HRC-2	L2.5x2.5x4	.397	1.25	30	.069	0	y	30	35.672	37.485	1.083	2.467	2...	H2-1
15	GSI3	C5X6.7	.395	.692	29	.183	.692	y	47	52.301	63.828	1.604	9.585	2...	H1-1b
16	GSI2	C5X6.7	.389	.692	18	.191	.692	y	37	52.301	63.828	1.604	9.585	1...	H1-1b
17	MP-10	PIPE_2.0 Nomin...	.387	4.427	24	.068	4.427		27	14.622	33.848	1.997	1.997	1...	H1-1b
18	MP-6	PIPE_2.0 Nomin...	.380	4.427	18	.083	4.427		31	14.622	33.848	1.997	1.997	1...	H1-1b
19	MP-1	PIPE_2.0 Nomin...	.344	4.427	29	.041	4.427		29	14.622	33.848	1.997	1.997	2...	H1-1b
20	MP-8	PIPE_2.0 Nomin...	.341	6.453	29	.050	6.453		30	14.622	33.848	1.997	1.997	2...	H1-1b
21	MP-9	PIPE_2.0 Nomin...	.327	4.427	24	.056	4.427		22	14.622	33.848	1.997	1.997	1...	H1-1b
22	HR-3	PIPE_2.0 Nomin...	.305	3.208	39	.262	10.542		19	8.632	33.848	1.997	1.997	2...	H1-1b
23	HR-1	PIPE_2.0 Nomin...	.289	3.208	45	.266	10.542		25	8.632	33.848	1.997	1.997	2...	H1-1b
24	MP-5	PIPE_2.0 Nomin...	.281	4.427	18	.044	4.427		18	14.622	33.848	1.997	1.997	1...	H1-1b
25	HR-2	PIPE_2.0 Nomin...	.247	3.208	33	.231	10.542		30	8.632	33.848	1.997	1.997	2...	H1-1b
26	I1	C5X6.7	.162	0	21	.010	.612	y	38	55.325	63.828	1.604	9.585	1...	H1-1b
27	MP-3	PIPE_2.0 Nomin...	.143	3	22	.016	3		22	21.11	33.848	1.997	1.997	1...	H1-1b
28	MP-7	PIPE_2.0 Nomin...	.143	3	27	.016	3		27	21.11	33.848	1.997	1.997	1...	H1-1b
29	MP-11	PIPE_2.0 Nomin...	.123	3	25	.012	3		25	21.11	33.848	1.997	1.997	1.7	H1-1b
30	CT-A3	PL6x1	.054	.523	25	.028	.523	y	27	191.3...	194.4	4.05	24.3	1...	H1-1b
31	CT-B7	PL6x1	.053	0	34	.022	0	y	30	192.37	194.4	4.05	24.3	1...	H1-1b
32	CT-B3	PL6x1	.052	.523	30	.030	.523	y	32	191.3...	194.4	4.05	24.3	1...	H1-1b
33	CT-C3	PL6x1	.052	.523	19	.035	.523	y	22	191.3...	194.4	4.05	24.3	1...	H1-1b
34	CT-A7	PL6x1	.051	0	37	.026	0	y	25	192.37	194.4	4.05	24.3	1...	H1-1b
35	CT-B4	PL6x1	.044	0	33	.028	0	y	30	192.37	194.4	4.05	24.3	1...	H1-1b
36	CT-B8	PL6x1	.043	0	34	.023	0	y	22	192.37	194.4	4.05	24.3	1...	H1-1b
37	CT-C7	PL6x1	.042	0	48	.022	0	y	19	192.37	194.4	4.05	24.3	1...	H1-1b
38	CT-A4	PL6x1	.042	0	27	.032	0	y	25	192.37	194.4	4.05	24.3	1...	H1-1b
39	CT-A8	PL6x1	.041	0	37	.020	0	y	33	192.37	194.4	4.05	24.3	1...	H1-1b
40	CT-C4	PL6x1	.041	0	22	.026	0	y	20	192.37	194.4	4.05	24.3	1...	H1-1b
41	CT-C8	PL6x1	.035	0	33	.021	0	y	28	192.37	194.4	4.05	24.3	1...	H1-1b
42	CT-A9	PL6x1	.034	0	22	.023	0	y	18	192.37	194.4	4.05	24.3	1...	H1-1b
43	CT-B9	PL6x1	.033	0	19	.026	0	y	23	192.37	194.4	4.05	24.3	1...	H1-1b
44	CT-C9	PL6x1	.031	0	32	.023	0	y	28	192.37	194.4	4.05	24.3	1...	H1-1b
45	CT-A2	PL6x1	.030	.523	25	.026	.523	y	27	191.3...	194.4	4.05	24.3	1...	H1-1b
46	CT-C2	PL6x1	.028	.523	19	.033	.523	y	22	191.3...	194.4	4.05	24.3	1...	H1-1b
47	CT-B2	PL6x1	.028	.523	30	.028	.523	y	33	191.3...	194.4	4.05	24.3	1...	H1-1b
48	CT-A10	PL6x1	.026	0	22	.024	0	y	18	192.37	194.4	4.05	24.3	1...	H1-1b
49	CT-A5	PL6x1	.026	0	28	.028	0	y	26	192.37	194.4	4.05	24.3	1...	H1-1b
50	CT-B10	PL6x1	.026	0	19	.028	0	y	23	192.37	194.4	4.05	24.3	1...	H1-1b
51	CT-B6	PL6x1	.025	.523	30	.025	0	y	32	192.37	194.4	4.05	24.3	1...	H1-1b
52	CT-A6	PL6x1	.025	0	31	.027	0	y	24	192.37	194.4	4.05	24.3	1...	H1-1b
53	CT-C6	PL6x1	.024	.523	35	.022	0	y	21	192.37	194.4	4.05	24.3	1...	H1-1b
54	CT-B5	PL6x1	.024	.523	29	.025	0	y	31	192.37	194.4	4.05	24.3	1...	H1-1b
55	CT-C5	PL6x1	.023	.523	18	.022	0	y	21	192.3...	194.4	4.05	24.3	1...	H1-1b
56	CT-C10	PL6x1	.023	0	32	.024	0	y	29	192.37	194.4	4.05	24.3	1...	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Che...	Loc[ft]	Dir	LC	phi*P...	phi*P...	phi*Mn y...	phi*Mn z...	Cb	Eqn
57	CT-B1	PL6x1	.015	0	20	.026	.523	y	33	191.3...	194.4	4.05	24.3	1...	H1-1b
58	CT-C1	PL6x1	.014	0	21	.030	0	y	24	191.3...	194.4	4.05	24.3	1...	H1-1b
59	CT-A1	PL6x1	.013	0	26	.025	.523	y	27	191.3...	194.4	4.05	24.3	2...	H1-1b

APPENDIX D

ADDITIONAL CALCULATIONS

TOWER ENGINEERING PROFESSIONALS

HRT 094 943225 (BU 806369)

TEP No.	25689.295247	
Analysis By:	EBS	9/4/2019
Checked By:	NAM	9/4/2019

Moment Bolt Group - Bolt Connection

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

Connection Inputs:

Bolt Size:	0.750	in
# Bolts:	3	
Plate Width:	N/A	in
Plate Height:	N/A	in
Bolt H Gap:	9.0	in
Bolt V Gap:	0.0	in
Plate T:	N/A	in
Slip Member Ø:	N/A	in
Bolt Grade:	A325N	

Capacities:

Bolt Capacity=	11.8%	PASS

Bolt Properties:

Fy_{bolt}:	92.0	ksi
Fu_{bolt}:	120.0	ksi
r:	4.5	in
J:	60.8	in^4/in^2
A_{bolt}:	0.4	in^2
$A_{bolt,\ Net\ Tensile}$:	0.3	in^2
Pretension:	28.1	kips

AT&T TARP Mount Program Spec Sheet

Site: NW Hartford (CT5131)

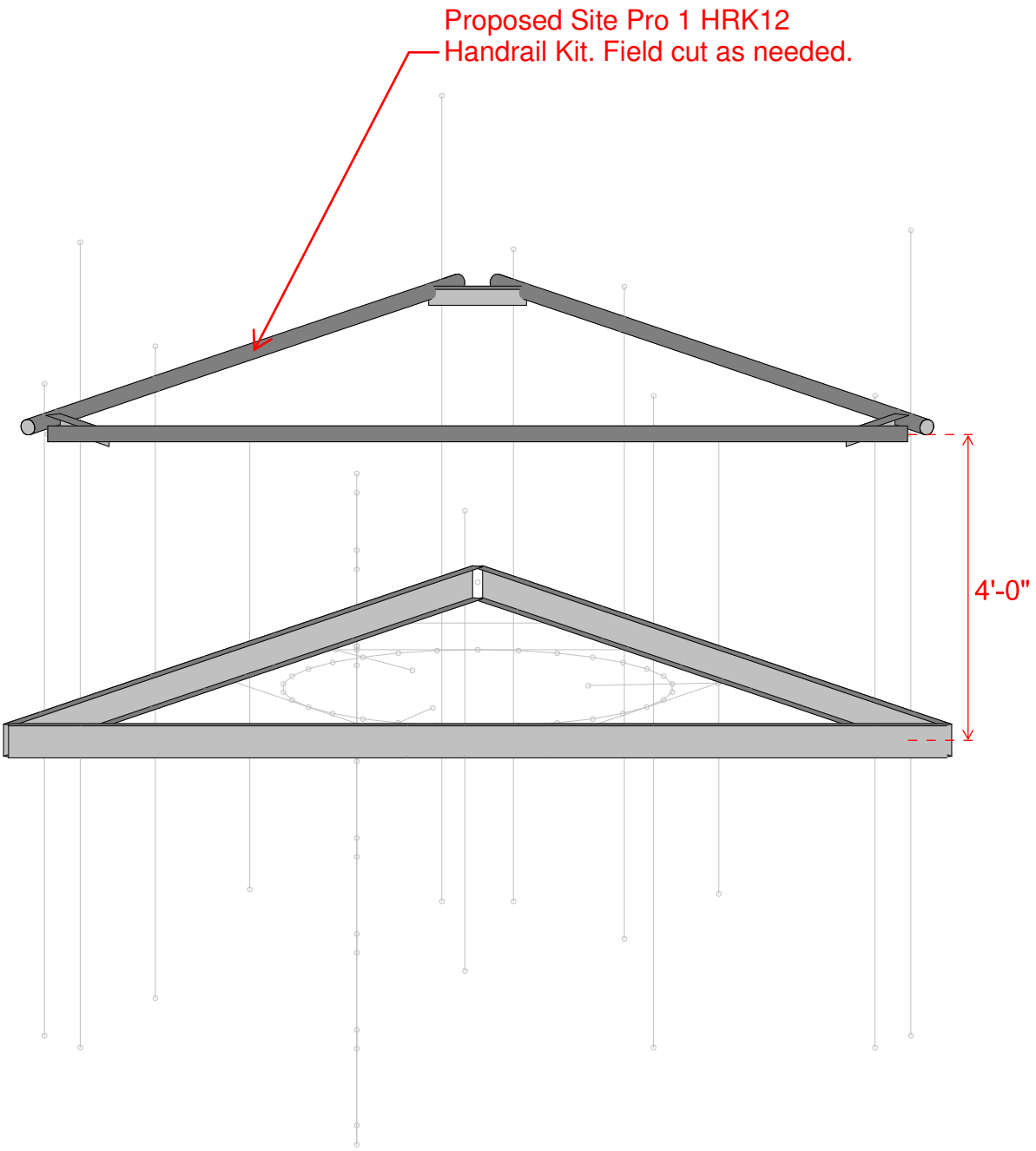
TARP Mount Specification

Basic Wind Speed (MPH)	Radial Ice (in.)	Height (ft.)	Exposure Category	Class	Topo Category	Number of Loaded Mount Pipes / Sector	Allowable[1] EPA / Pipe (ft^2)	Allowable[1] Weight / Pipe (lbf)
117.0	***1.50***	***117.0***	***B***	***II***	***1***	***3***	***14.3***	***192.3***

Note:
1) This allowable value is an average of the loaded mount pipes per sector

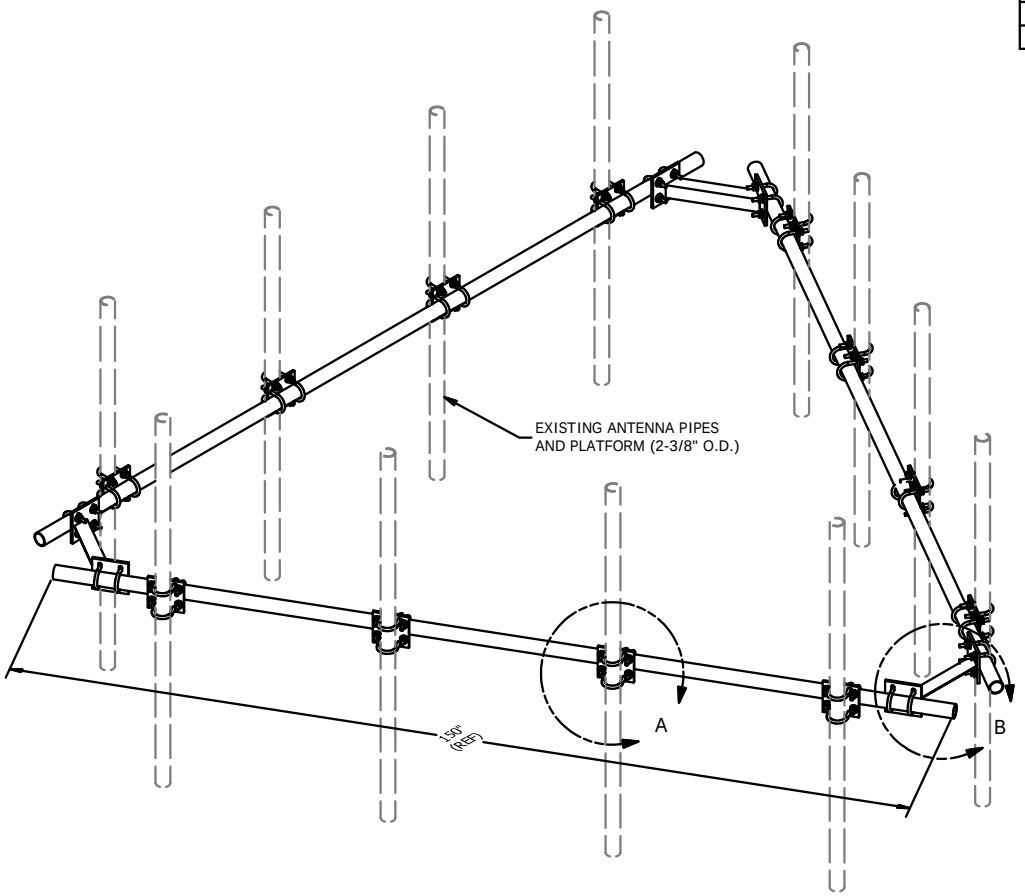
APPENDIX E

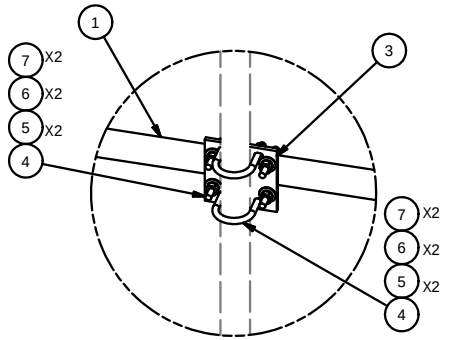
SUPPLEMENTAL DRAWINGS



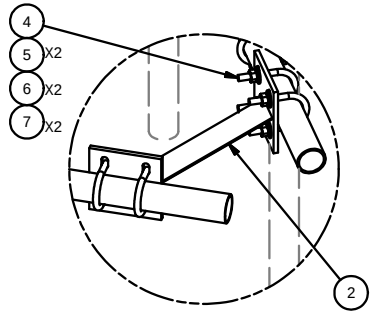
Tower Engineering Profes...	HRT 094 943225 (BU 806369)	SK - 4
EBS		Sept 4, 2019 at 4:43 PM
TEP No. 25689.295247		Mount Rev H.r3d

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2150	2-3/8" OD X 150" SCH 40 GALVANIZED PIPE	150 in	48.06	144.17
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	12	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"		3.71	44.50
4	120	G12FW	1/2" HDG USS FLATWASHER		0.03	4.08
5	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.73	43.90
6	120	G12LW	1/2" HDG LOCKWASHER		0.01	1.67
7	120	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	8.58
					TOTAL WT. #	261.72





DETAIL A



DETAIL B

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	REPLACED HCP WITH X-AHCP		CEK	7/10/2014

REVISION HISTORY

TOLERANCE NOTES

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

DESCRIPTION
HANDRAIL KIT
FOR 12'-6" FACE

SITE PRO 1
A valmont COMPANY

Engineering Support Team:
1-888-753-7446

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

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	KC8 5/30/2012		HRK12

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	BMC 7/14/2014	HRK12

Exhibit F

Power Density/RF Emissions Report

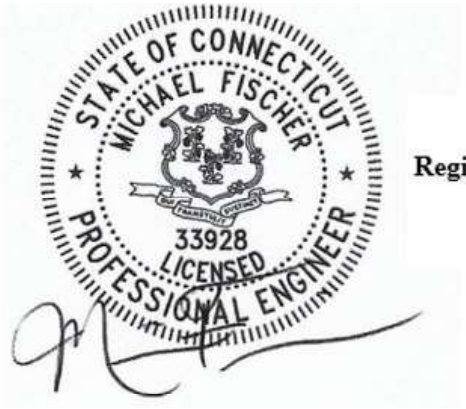
RF EMISSIONS COMPLIANCE REPORT

Crown Castle on behalf of AT&T Mobility, LLC

Crown Castle Site Name: HRT 094 943225
Crown Castle Site BU: 806369
AT&T Mobility, LLC Site FA #: 10071191
439-455 HOMESTEAD AVENUE
HARTFORD, CT
10/7/2019

Report Status:

AT&T Mobility, LLC Is Compliant



Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2020

Signed 07 October 2019

Prepared By:

Site Safe, LLC

8618 Westwood Center Drive
Suite 315

Vienna, VA 22182

Voice: 703-276-1100
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Engineering Statement in Re:
Electromagnetic Energy Analysis
Crown Castle
HARTFORD, CT

My signature on the cover of this document indicates:

That I am registered as a Professional Engineer in the jurisdiction indicated; and

That I have extensive professional experience in the wireless communications engineering industry; and

That I am an employee of Site Safe, LLC in Vienna, Virginia; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission ("the FCC" and "the FCC Rules") both in general and specifically as they apply to the FCC's Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That the technical information serving as the basis for this report was supplied by Crown Castle (see attached Site Summary and Carrier documents) and that AT&T Mobility, LLC's installation involves communications equipment, antennas and associated technical equipment at a location referred to as "HRT 094 943225" ("the site"); and

That AT&T Mobility, LLC proposes to operate at the site with transmit antennas listed in the carrier summary and with a maximum effective radiated power as specified by AT&T Mobility, LLC and shown on the worksheet and that worst-case 100% duty cycle has been assumed; and

That in addition to the emitters specified in the worksheet, there are additional collocated point-to-point microwave facilities on this structure, and the antennas used are highly directional and oriented at angles at or just below the horizontal, and that the energy present at ground level is typically so low as to be considered insignificant and has not been included in this analysis (a list of microwave antennas is included); and

That this analysis has been performed with the assumption that the ground immediately surrounding the tower is primarily flat or falling; and

That at this time, the FCC requires that certain licensees address specific levels of radio frequency energy to which workers or members of the public might possibly be exposed (at §1.1307(b) of the FCC Rules); and

That such consideration of possible exposure of humans to radio frequency energy must utilize the standards set by the FCC, which is the federal agency having jurisdiction over communications facilities; and

That the FCC rules define two tiers of permissible exposure guidelines: 1) "uncontrolled environments," which defines situations in which persons may not be aware of (the "general public"), or may not be able to control their exposure to a transmission facility; and 2) "controlled environments," which defines situations in which persons are aware of their potential for exposure (industry personnel); and

That this statement specifically addresses the uncontrolled environment (which is more conservative than the controlled environment) and the limit set forth in the FCC rules for licensees of AT&T Mobility, LLC's operating frequencies as shown on the attached antenna worksheet; and

That when applying the uncontrolled environment standards, the predicted Maximum Power Density at two meters above ground level from the proposed AT&T Mobility, LLC operation is no more than 2.592% of the maximum permissible exposure limits in any accessible area on the ground; and

That it is understood per FCC Guidelines and OET 65 Appendix A, that regardless of the existent radio frequency environment, only those licensees whose contributions exceed 5% of the exposure limit pertinent to their operation(s) bear any responsibility for bringing any non-compliant area(s) into compliance; and

That when applying the uncontrolled environment standards, the cumulative predicted energy density from the proposed operation is no more than 8.368% of the maximum in any accessible area up to two meters above the ground per OET 65; and

That the calculations provided in this report are based on data provided by the client and antenna pattern data supplied by the antenna manufacturer, in accordance with FCC guidelines listed in OET 65. Horizontal and vertical antenna patterns are combined for modeling purposes to accurately reflect the energy two meters above ground level where on-axis energy refers to maximum energy two meters above the ground along the azimuth of the antenna and where area energy refers to the maximum energy anywhere two meters above the ground regardless of the antenna azimuth, accounting for cumulative energy from multiple antennas for the carrier(s) and frequency range(s) indicated; and

That the Occupational Safety and Health Administration has policies in place which address worker safety in and around communications sites, thus individual companies will be responsible for their employees' training regarding radio frequency safety; and

In summary, it is stated here that the proposed operation at the site will not result in exposure of the public to excessive levels of radio frequency energy as defined in the FCC Rules and Regulations, specifically 47 CFR 1.1307(b), and that AT&T Mobility, LLC's proposed operation is completely compliant.

Finally, it is stated that access to the tower should be restricted to communication industry professionals and approved contractor personnel trained in radio frequency safety and that this instant analysis addresses exposure levels at two meters above ground level and does not address exposure levels on the tower or in the immediate proximity of the antennas.

Crown Castle
HRT 094 943225
Site Summary

Carrier	Area Maximum Percentage MPE
AT&T Mobility, LLC	0.247 %
AT&T Mobility, LLC	0.325 %
AT&T Mobility, LLC	0.166 %
AT&T Mobility, LLC	0.119 %
AT&T Mobility, LLC (Proposed)	0.839 %
AT&T Mobility, LLC (Proposed)	0.413 %
AT&T Mobility, LLC (Proposed)	0.483 %
Clearwire	0.619 %
Sprint	0.231 %
Sprint	0.424 %
Sprint	0.424 %
Sprint	0.168 %
Sprint	0.168 %
T-Mobile	0.257 %
T-Mobile	0.483 %
T-Mobile	0.408 %
T-Mobile	1.166 %
Verizon Wireless	0.41 %
Verizon Wireless	0.238 %
Verizon Wireless	0.253 %
Verizon Wireless	0.527 %
Composite Site MPE:	8.368 %

AT&T Mobility, LLC
HRT 094 943225
Carrier Summary

Frequency:	2300	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	2.47027	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.24703	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
CCI Antennas	TPA-65R-LCUUUU-H8	120	30	2729	0.897416	0.089742	1.993666	0.199367
Quintel	QS66512-3	120	150	3199	1.313176	0.131318	2.42941	0.242941
Quintel	QS66512-3	120	270	3199	1.313176	0.131318	2.42941	0.242941

AT&T Mobility, LLC
HRT 094 943225
Carrier Summary

Frequency:	1900	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	3.24661	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.32466	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
CCI Antennas	TPA-65R-LCUUUU-H8	120	30	3892	1.371239	0.137124	3.145942	0.314594
Quintel	QS66512-3	120	150	3883	1.147809	0.114781	2.883295	0.288329
Quintel	QS66512-3	120	270	3883	1.147809	0.114781	2.883295	0.288329

AT&T Mobility, LLC
HRT 094 943225
Carrier Summary

Frequency:	737	MHz
Maximum Permissible Exposure (MPE):	491.33	µW/cm^2
Maximum power density at ground level:	0.81798	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.16648	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
CCI Antennas	TPA-65R-LCUUUU-H8	120	30	1362	0.564522	0.114896	0.590658	0.120215
Quintel	QS66512-3	120	150	800	0.421329	0.085752	0.763577	0.155409
Quintel	QS66512-3	120	270	800	0.421329	0.085752	0.763577	0.155409

AT&T Mobility, LLC
HRT 094 943225
Carrier Summary

Frequency:	850	MHz
Maximum Permissible Exposure (MPE):	566.67	µW/cm^2
Maximum power density at ground level:	0.67341	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.11884	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
Powerwave	7770	120	30	547	0.374405	0.066072	0.57751	0.101913
Powerwave	7770	120	150	547	0.374405	0.066072	0.57751	0.101913
Powerwave	7770	120	270	547	0.374405	0.066072	0.57751	0.101913

AT&T Mobility, LLC (Proposed)
HRT 094 943225
Carrier Summary

Frequency:	2100	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	8.38975	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.83897	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
CCI Antennas	DMP65R-BU8D	120	30	5250	7.461042	0.746104	8.288695	0.82887
CCI Antennas	DMP65R-BU6D	120	150	4788	6.060851	0.606085	7.733051	0.773305
CCI Antennas	DMP65R-BU6D	120	270	4788	6.060851	0.606085	7.733051	0.773305

AT&T Mobility, LLC (Proposed)
HRT 094 943225
Carrier Summary

Frequency:	850	MHz
Maximum Permissible Exposure (MPE):	566.67	µW/cm^2
Maximum power density at ground level:	2.33781	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.41256	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
CCI Antennas	DMP65R-BU8D	120	30	2885	1.119789	0.19761	2.138778	0.377431
CCI Antennas	DMP65R-BU6D	120	150	2239	1.232293	0.217463	2.260462	0.398905
CCI Antennas	DMP65R-BU6D	120	270	2239	1.232293	0.217463	2.260462	0.398905

AT&T Mobility, LLC (Proposed)
HRT 094 943225
Carrier Summary

Frequency:	763	MHz
Maximum Permissible Exposure (MPE):	508.67	µW/cm^2
Maximum power density at ground level:	2.4572	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.48307	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
CCI Antennas	DMP65R-BU8D	120	30	2692	1.109451	0.21811	2.046594	0.402345
CCI Antennas	DMP65R-BU6D	120	150	2400	1.333048	0.262067	1.718167	0.337778
CCI Antennas	DMP65R-BU6D	120	270	2400	1.333048	0.262067	1.718167	0.337778

Clearwire
HRT 094 943225
Carrier Summary

Frequency:	2500	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	6.18928	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.61893	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
ARGUS	LLPX310R	105	30	1542	1.114774	0.111477	2.063092	0.206309
ARGUS	LLPX310R	105	30	1542	1.114774	0.111477	2.063092	0.206309
ARGUS	LLPX310R	105	30	1542	1.114774	0.111477	2.063092	0.206309

Sprint
HRT 094 943225
Carrier Summary

Frequency:	2500	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	2.31033	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.23103	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
Nokia	AAHC	105	15	2542	1.587493	0.158749	1.9803	0.19803
Nokia	AAHC	105	110	2542	1.587493	0.158749	1.9803	0.19803
Nokia	AAHC	105	230	2542	1.587493	0.158749	1.9803	0.19803

Sprint
HRT 094 943225
Carrier Summary

Frequency:	1990	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	4.23862	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.42386	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
RFS	APXVSPP18-C-A20	105	15	3804	1.302383	0.130238	3.217129	0.321713
RFS	APXVSPP18-C-A20	105	110	3804	1.302383	0.130238	3.217129	0.321713
RFS	APXVSPP18-C-A20	105	230	3804	1.302383	0.130238	3.217129	0.321713

Sprint
HRT 094 943225
Carrier Summary

Frequency:	1900	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	4.23862	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.42386	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
RFS	APXVSPP18-C-A20	105	15	3804	1.302383	0.130238	3.217129	0.321713
RFS	APXVSPP18-C-A20	105	110	3804	1.302383	0.130238	3.217129	0.321713
RFS	APXVSPP18-C-A20	105	230	3804	1.302383	0.130238	3.217129	0.321713

Sprint
HRT 094 943225
Carrier Summary

Frequency:	866	MHz
Maximum Permissible Exposure (MPE):	577.33	µW/cm^2
Maximum power density at ground level:	0.96793	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.16766	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
RFS	APXVSPP18-C-A20	105	15	1084	0.722217	0.125095	0.736763	0.127615
RFS	APXVSPP18-C-A20	105	110	1084	0.722217	0.125095	0.736763	0.127615
RFS	APXVSPP18-C-A20	105	230	1084	0.722217	0.125095	0.736763	0.127615

Sprint
HRT 094 943225
Carrier Summary

Frequency:	862	MHz
Maximum Permissible Exposure (MPE):	574.67	µW/cm^2
Maximum power density at ground level:	0.96793	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.16843	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
RFS	APXVSPP18-C-A20	105	15	1084	0.722217	0.125676	0.736763	0.128207
RFS	APXVSPP18-C-A20	105	110	1084	0.722217	0.125676	0.736763	0.128207
RFS	APXVSPP18-C-A20	105	230	1084	0.722217	0.125676	0.736763	0.128207

T-Mobile
HRT 094 943225
Carrier Summary

Frequency:	1900	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	2.56619	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.25662	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
Ericsson	AIR 32 B2A B66AA	128	30	4626	1.374932	0.137493	1.583438	0.158344
Ericsson	AIR 32 B2A B66AA	128	130	4626	1.374932	0.137493	1.583438	0.158344
Ericsson	AIR 32 B2A B66AA	128	270	4626	1.374932	0.137493	1.583438	0.158344

T-Mobile
HRT 094 943225
Carrier Summary

Frequency:	700	MHz
Maximum Permissible Exposure (MPE):	466.67	µW/cm^2
Maximum power density at ground level:	2.25232	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.48264	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
RFS	APXVAARR24_43-U-NA20	128	30	3484	1.384467	0.296671	1.452587	0.311269
RFS	APXVAARR24_43-U-NA20	128	130	3484	1.384467	0.296671	1.452587	0.311269
RFS	APXVAARR24_43-U-NA20	128	270	3484	1.384467	0.296671	1.452587	0.311269

T-Mobile
HRT 094 943225
Carrier Summary

Frequency:	600	MHz
Maximum Permissible Exposure (MPE):	400	µW/cm^2
Maximum power density at ground level:	1.63029	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.40757	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
RFS	APXVAARR24_43-U-NA20	128	30	2501	1.071027	0.267757	1.089419	0.272355
RFS	APXVAARR24_43-U-NA20	128	130	2501	1.071027	0.267757	1.089419	0.272355
RFS	APXVAARR24_43-U-NA20	128	270	2501	1.071027	0.267757	1.089419	0.272355

T-Mobile
HRT 094 943225
Carrier Summary

Frequency:	2100	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	11.65803	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	1.1658	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
Ericsson	AIR 3246	128	30	6168	1.833239	0.183324	2.111248	0.211125
Ericsson	AIR 32 B2A B66AA	128	30	4626	5.9723	0.59723	5.9723	0.59723
Ericsson	AIR 3246	128	130	6168	1.833239	0.183324	2.111248	0.211125
Ericsson	AIR 32 B2A B66AA	128	130	4626	5.9723	0.59723	5.9723	0.59723
Ericsson	AIR 3246	128	270	6168	1.833239	0.183324	2.111248	0.211125
Ericsson	AIR 32 B2A B66AA	128	270	4626	5.9723	0.59723	5.9723	0.59723

Verizon Wireless
HRT 094 943225
Carrier Summary

Frequency:	751	MHz
Maximum Permissible Exposure (MPE):	500.67	µW/cm^2
Maximum power density at ground level:	2.05176	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.40981	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
CSS	X7C-FRO-660-V	140	90	5422	1.999511	0.39937	2.044424	0.40834
CSS	X7C-FRO-660-V	140	210	5422	1.999511	0.39937	2.044424	0.40834
CSS	X7C-FRO-660-V	140	330	5422	1.999511	0.39937	2.044424	0.40834

Verizon Wireless
HRT 094 943225
Carrier Summary

Frequency:	2100	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	2.37755	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.23775	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
Antel	BXA-171063-8CF-EDIN-2	140	90	5422	2.200598	0.22006	2.340835	0.234084
Antel	BXA-171063-8CF-EDIN-2	140	210	5422	2.200598	0.22006	2.340835	0.234084
Antel	BXA-171063-8CF-EDIN-2	140	330	5422	2.200598	0.22006	2.340835	0.234084

Verizon Wireless
HRT 094 943225
Carrier Summary

Frequency:	1900	MHz
Maximum Permissible Exposure (MPE):	1000	µW/cm^2
Maximum power density at ground level:	2.53288	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.25329	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
Antel	BXA-171063-8CF-EDIN-2	140	30	4945	2.034848	0.203485	2.470774	0.247077
Antel	BXA-171063-8CF-EDIN-2	140	150	4945	2.034848	0.203485	2.470774	0.247077
Antel	BXA-171063-8CF-EDIN-2	140	265	4945	2.034848	0.203485	2.470774	0.247077

Verizon Wireless
HRT 094 943225
Carrier Summary

Frequency:	850	MHz
Maximum Permissible Exposure (MPE):	566.67	µW/cm^2
Maximum power density at ground level:	2.98705	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0.52713	%

					On Axis		Area	
Antenna Make	**Model**	**Height (feet)**	**Orientation (degrees true)**	**ERP (Watts)**	**Max Power Density (µW/cm^2)**	**Percent of MPE**	**Max Power Density (µW/cm^2)**	**Percent of MPE**
Antel	BXA-80063-4BF	140	30	3192	2.235787	0.394551	2.915818	0.514556
Antel	BXA-80063-4BF	140	150	3192	2.235787	0.394551	2.915818	0.514556
Antel	BXA-80063-4BF	140	265	3192	2.235787	0.394551	2.915818	0.514556

HRT 094 943225
Composite Microwave Antenna Summary

Carrier	Antenna Make/Model	Height (feet)
Clearwire	Andrew VHLP2.5-11	107
Clearwire	Andrew VHLP2-180	107