



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

June 16, 2020

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

RE: Notice of Exempt Modification for AT&T - 800529
890 Evergreen Avenue, Hamden, CT 06518
Latitude: 41° 24' 23.9" / Longitude: -72° 54' 16.32"

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 85-foot mount on the existing 100-foot Silo Tower, located at 890 Evergreen Avenue in Hamden, CT. The tower is owned by Crown Castle and the property is owned by the Connecticut Agricultural Experiment Station. AT&T now intends to remove three (3) antennas, and remove and replace six (6) existing antennas with six (6) new antennas, reducing their total antenna inventory to nine (9) total antennas. The new antennas will be installed at the 85-ft level of the tower.

The facility was approved by the Town of Hamden Planning and Zoning Commission on September 25, 2001. A Certificate of Zoning Compliance was issued on March 5, 2002 without conditions.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Curt Leng, Mayor for the Town of Hamden, Daniel Kops, Town Planner, Crown Castle as the tower owner, and Connecticut Agricultural Experiment Station, 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.

The Foundation for a Wireless World.

CrownCastle.com

Melanie A. Bachman

Page 2

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

Sincerely,

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

Attachments

cc:

The Honorable Curt B. Leng, Mayor (*via email only to cleng@hamden.com*)
Town of Hamden
2750 Dixwell Avenue
Hamden, CT 06518

Daniel Kops, Town Planner (*via email only to dkops@hamden.com*)
Town of Hamden
2750 Dixwell Avenue
Hamden, CT 06518

Connecticut Agricultural Experiment Station (*via email only to michael.last@ct.gov*)
890 Evergreen Avenue
Hamden, CT 06518

Crown Castle, Tower Owner

From: [Zsamba, Anne Marie](#)
To: ["michael.last@ct.gov"](mailto:michael.last@ct.gov)
Subject: Notice of AT&T Exempt Modification - 890 Evergreen Avenue, Hamden - 800529
Date: Tuesday, June 16, 2020 11:34:00 AM
Attachments: [EM-AT&T-800529-CTL02039-890 EVERGREEN AVENUE HAMDEN_notice.pdf](#)

Dear Connecticut Agricultural Experiment Station:

Attached please find T-Mobile's exempt modification application that is being submitted to the Connecticut Siting Council, today June 16, 2020.

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

Best,
Anne Marie Zsamba

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

CROWN CASTLE
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
CrownCastle.com

From: [Zsamba, Anne Marie](#)
To: cleng@hamden.com
Subject: Notice of AT&T Exempt Modification - 890 Evergreen Avenue, Hamden - 800529
Date: Tuesday, June 16, 2020 11:33:00 AM
Attachments: [EM-AT&T-800529-CTL02039-890 EVERGREEN AVENUE HAMDEN_notice.pdf](#)

Dear Mayor Leng:

Attached please find T-Mobile's exempt modification application that is being submitted to the Connecticut Siting Council, today June 16, 2020.

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

Best,
Anne Marie Zsamba

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

CROWN CASTLE
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
CrownCastle.com

From: Zsamba, Anne Marie
To: dkops@hamden.com
Subject: Notice of AT&T Exempt Modification - 890 Evergreen Avenue, Hamden - 800529
Date: Tuesday, June 16, 2020 11:33:00 AM
Attachments: [EM-AT&T-800529-CTL02039-890 EVERGREEN AVENUE HAMDEN_notice.pdf](#)

Dear Town Planner Kops:

Attached please find T-Mobile's exempt modification application that is being submitted to the Connecticut Siting Council, today June 16, 2020.

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

Best,
Anne Marie Zsamba

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

CROWN CASTLE
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065
CrownCastle.com

Exhibit A

Original Facility Approval



TOWN OF HAMDEN

CONNECTICUT

BOND RELEASE RECOMMENDATION/ACTION

MEMO TO: Planning & Zoning Commission

FROM: Joseph J. Venditto, Zoning Enforcement Officer 

DATE: MARCH 7, 2002

RE: Bond Release

ADDRESS: 890 EVERGREEN AVE

PROJECT: SITE PLAN 00-1263

| TOTAL BOND AMOUNT: | Present Amt. | Recommendation Amt. to Retain |
|--------------------|--------------|-------------------------------|
| Site Work | 13,527. | 0 |
| Right of Way | 0. | 0 |
| Subtotal | 13,527. | 0 |
| Other 10% | 1,473. | 0 |
| TOTAL | 15,000. | 0 |

Bond total covers all items listed or not listed. Categories are for estimation purposes only.

Comments: ALL SITE WORK COMPLETE. BOND RELEASE CAN BE RECOMMENDED.

\$60.00
FEE

TOWN OF HAMDEN
APPLICATION FOR CERTIFICATE OF ZONING COMPLIANCE

Property Address 890 EVANGREEN DR Zoning District R-9
Property Owner CROWN CASTLE MANAGEMENT LLC Phone # (860) 657-1563
Property Owner Address 703 HARBOR AVE, GLOSTONBURY, CT 06037
Type of Zoning Permit: CONDOMINIUM SITING COUNCIL

I certify that the work required has been completed in accordance with approved plans except as noted on attached as-built drawing.

Applicant Signature [Signature] Date 2-26-02
Owner/Agent

PRINTED NAME WILLIAM W WATSON - 7th
ADDRESS 703 HARBOR AVE, GLOSTONBURY, CT 06037
TELEPHONE # (860) 657-1567 FAX # (860) 677-7078

Certificate # _____ Certificate of Zoning Compliance

Zoning Enforcement Officer Findings, based upon inspection of MARCH 5, 2002

Unconditional Meets all requirements
Conditional See list below

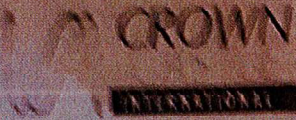
Following is a list of requirements determined from inspection which while not yet complete do not adversely affect use/occupancy of the premises and for which sufficient security is being held:

[Signature] Date 3/5/02
Zoning Enforcement Officer

This is not a Certificate of Occupancy under the Building Code

Rev. 02/16/01

RECEIVED
TOWN OF HAMDEN
FEB 26 2002
PLANNING AND
ZONING DEPT.
171ST TRKT BLDG



Crown Castle Atlantic LLC
Northeast Region
703 Hebron Avenue, 2nd Floor
Glastonbury, CT 06033

Tel 860 633.9369
Fax 860 633.7078
www.crowncastle.com

February 25, 2002

Mr. Joseph J. Venditto
Town of Hamden
2372 Whitney Avenue
Hamden, CT 06518

Re: Hamden Telecommunications Facility
CT Agricultural Station
Hamden, CT

Dear Mr. Venditto,

Please find enclosed two (2) stamped original as built drawings for the referenced Telecommunications facility.

Also enclosed is a copy of a letter dated January 11, 2002 from Mr. Roberts of URS Corporation the A&E firm of record for this project addressing the Bollard issue.

I am requesting that a Certificate of Zoning Compliance be issued for this project.

If you have any questions and/or need any additional information please do not hesitate to call. If I'm not in the office you can reach me on my cell phone (860) 306-0337.

Sincerely,
Crown Atlantic Company.LLC

William W. Watson
Project Manager

WWW:www

RECEIVED
TOWN OF HAMDEN
FEB 25 2002
PLANNING AND
ZONING DEPT.



TOWN CLERK
HAMDEN, CT

TOWN OF HAMDEN

CONNECTICUT

2001 OCT -3 P 12:00

REC'D AND FILED BY

Draft Minutes subject to Commission approval

MINUTES: ZONING SECTION, Planning & Zoning Commission, Town of Hamden, held a Public Hearing and Regular Meeting on Tuesday, September 25, 2001 and the following were reviewed:

Commissioners in Attendance:

Mr. Crocco
Mr. Del Vecchio
Mr. Sims
Mr. Cesare, (for Mr. Vegliante)
Ms. Woodward, (for Ms. Benevides)

Staff in Attendance:

Mr. O'Brien, Town Planner
Mr. Lee, Town Attorney
Ms. Raccio, Stenographer
Ms. Gaiolini, Clerk

Mr. Del Vecchio opened the Regular Meeting at 7:10 p.m. He introduced the Commission, and staff and gave an overview of the procedures for the evening.

A. Regular Meeting

1. Site Plan/WS 01-1308
72 Crest Way, Lot #12
Office/Storage
Robert Massaro, Applicant
Deadline: October 18, 2001

Bernard Wright, 71 Charnes Dr., East Haven, CT. Will answer any questions the Commission may have.

Mr. O'Brien stated this had been submitted several months back. There were questions from the Town Engineer, those questions have since been answered & incorporated on the map. Mr. Savarese's letter dated 9/20/01 states the plan is now satisfactory to his department. The comments from December 18th have been addressed. RWA comments dated 9/17/01. The comment on slope stabilization has already been discussed.

Mr. Del Vecchio said item #3 (stabilization) will be taken care of, it has already been discussed with the applicant. Mr. O'Brien noted the parking lot is not paved but crushed stone. Sometimes that is better with respect to drainage. Mr. Del Vecchio read the RWA letter. Mr. Wright said there are 3 dry wells to retain and also take any water coming down the slope. Also provided pipe from dry well to dry well so if 1 fills up it drains into next one. No heavy equipment to speak of. Mr. Crocco questioned location of parking and catch basins. 2 in the crushed stone part and 1 in the black top (the front is black top). Mr. Del Vecchio asked if Mr. Wright had reviewed the Town Planner's recommendations. Mr. Wright answered yes, noting the erosion and sediment control will be in place and iron pins set at a later date. As built site plan to Al Savarese. Will post bond after permit issued. Dumpster to the rear of the building. They don't need it because all they have is office space, but if required by the Town, they will provide. Mr. Crocco questioned the warehouse itself, above the office - you're not asking for storage on top? Mr. Wright answered, not right now. Mr. Crocco also asked Mr. O'Brien for clarification on the placing of corner pins & bond releases.

Mr. Sims motions to approve 01-1308 with the recommendations of the Town Planner:

- Parking location and handicapped parking to be approved by Town Planner
- Dumpster location to be approved by Town Planner
- Submit slope stabilization plan to Town Planner & Town Engineer
- Erosion sediment controls installed prior to beginning of construction
- RWA recommendations of letter dated 9/17/01 to be incorporated
- Iron pins to be set
- No outdoor storages
- Post bond prior to zoning permit

Mr. Cesare seconds. Unanimous. **APPROVED.**

B. Informational

Mr. Del Vecchio noted item B is informational. There is actually no action being taken on either of these 2 items. These are administrative bond releases. This Commission has voted and given the Town Planner the authority to release up to \$15,000.00. Both released per Roger O'Brien.

1. Site Plan 00-1263
800 Evergreen Ave./Lockwood Farms
Administrative Bond Release \$15,000.00
Requested by Crown Castle
2. Site Plan 01-1307
88 Mulberry Hill Rd.
Single Family Lot
Bond Release \$7,200.00
Requested by Joan Wagner

C. Approval of Minutes

1. Approve Minutes of June 26, 2001 Regular Meeting. (Mr. Sims, Mr. Crocco & Mr. Del Vecchio were present at that meeting and can vote). Mr. Crocco motions to approve as written. Mr. Sims seconds. **APPROVED.**

2. Approve Minutes of July 24, 2001 Regular Meeting. Mr. Sims motions to approve as written. Mr. Crocco seconds. **APPROVED.**

Ms. Woodward motions to adjourn. Mr. Cesare seconds. Closed at 7:30 p.m.

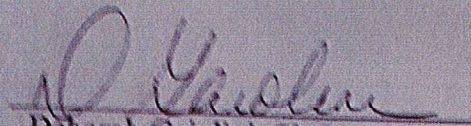
Submitted by: 
Deborah Gaiolini, Clerk

Exhibit B

Property Card



Town of Hamden, CT

Property Listing Report

Map Block Lot

2930-081-01-0000

Account

Property Information

| | |
|-------------------|----------------------------------------------|
| Property Location | 890 EVERGREEN AVE |
| Owner | CONN AGRICULURAL EXPT STATION |
| Co-Owner | |
| Mailing Address | 890 EVERGREEN AVE HAMDEN CT 06518 |
| Land Use | 4310 TEL REL TW M96 |
| Land Class | I |
| Zoning Code | R4 |
| Census Tract | 4 |
| Sub Lot | |
| Neighborhood | 110 |
| Acreage | 0 |
| Lot Setting/Desc | Suburban Above Street |
| Survey Map | |
| Utilities | All Public |
| Additional Info | |

Photo



Sketch



Primary Construction Details

| | |
|--------------------|-----------------------|
| Year Built | 0 |
| Stories | |
| Building Style | |
| Building Use | |
| Building Condition | |
| Floors | Concr-Finished |
| Total Rooms | |

| | |
|----------------|------------------|
| Bedrooms | |
| Full Bathrooms | 0 |
| Half Bathrooms | |
| Bath Style | |
| Kitchen Style | |
| Roof Style | Gable/Hip |
| Roof Cover | Asphalt |

| | |
|-------------------|-----------------------|
| Exterior Walls | Concr/Cinder |
| Interior Walls | Minim/Masonry |
| Heating Type | Hot Air-no Duc |
| Heating Fuel | Oil |
| AC Type | None |
| Gross Bldg Area | 3000 |
| Total Living Area | 1473 |



Town of Hamden, CT

Property Listing Report

Map Block Lot

2930-081-01-0000

Account

Valuation Summary (Assessed value = 70% of Appraised Value)

| Item | Appraised | Assessed |
|--------------|---------------|---------------|
| Buildings | 125600 | 87920 |
| Extras | 0 | 0 |
| Outbuildings | 0 | 0 |
| Land | 165000 | 105000 |
| Total | 290600 | 192920 |

Sub Areas

| Subarea Type | Gross Area (sq ft) | Living Area (sq ft) |
|-------------------|--------------------|---------------------|
| First Floor | 1473 | 1473 |
| Slab | 1527 | 0 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total Area | | 0 |

Outbuilding and Extra Items

| Type | Description |
|------|-------------|
| | |
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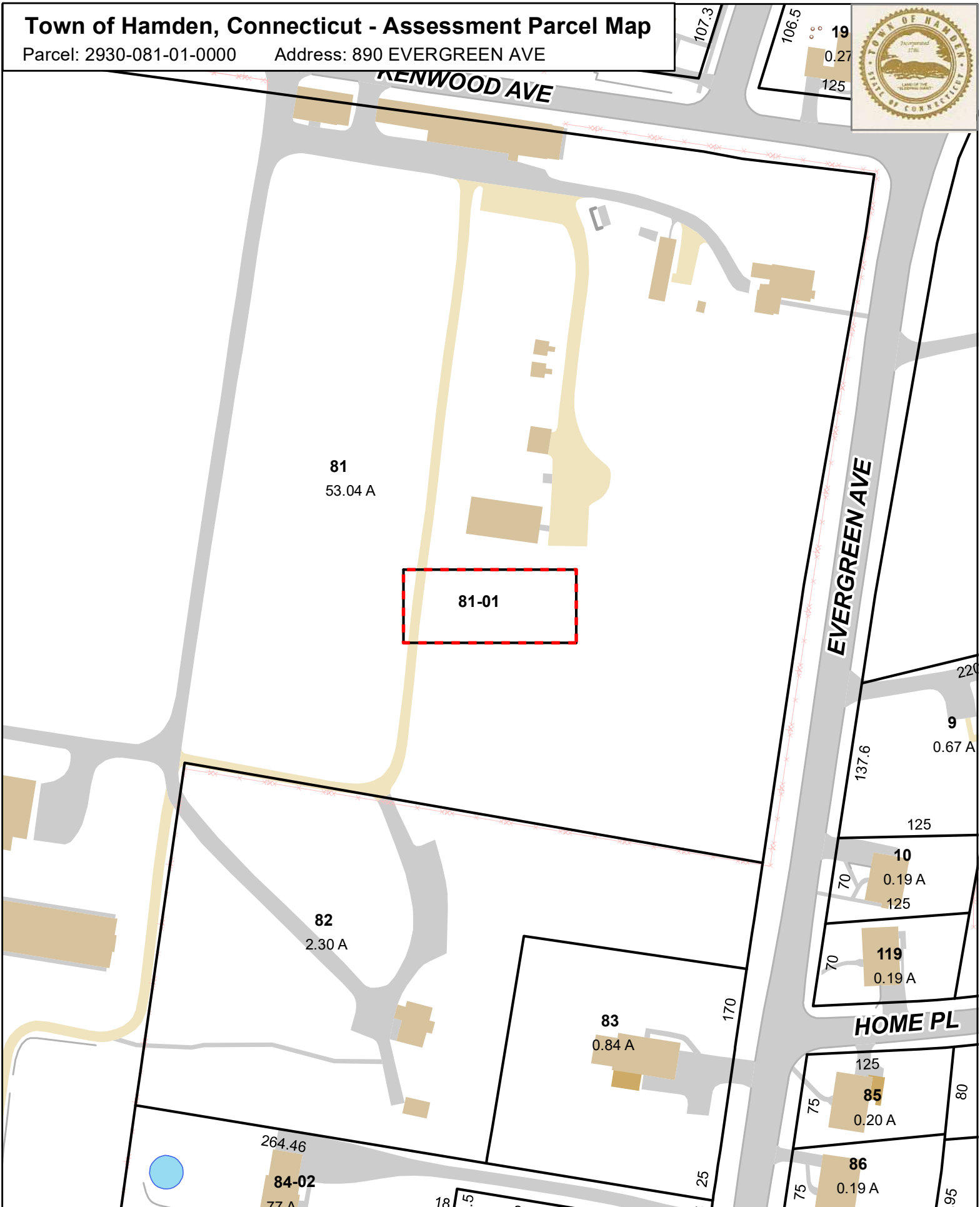
Sales History

| Owner of Record | Book/ Page | Sale Date | Sale Price |
|--------------------------------|------------|-----------|------------|
| CONN AGRICULTURAL EXPT STATION | 64/ 135 | 1/4/1911 | |

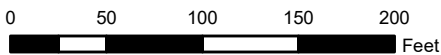
Town of Hamden, Connecticut - Assessment Parcel Map

Parcel: 2930-081-01-0000

Address: 890 EVERGREEN AVE



Approximate Scale: 1 inch = 100 feet



Map Produced: April 2019

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

Exhibit C

Construction Drawings



AT&T

AT&T SITE NUMBER:
AT&T SITE NAME:
AT&T FA CODE:
AT&T PACE NUMBER:
SITE TYPE:

27023
 CTL02039
 10035304
 MRCTB045053/MRCTB045119/
 MRCTB045015/MRCTB045139
 SELF-SUPPORT TOWER

BUSINESS UNIT #:
SITE ADDRESS:
COUNTY:
TOWER HEIGHT:

800529
 890 EVERGREEN AVE
 HAMDEN, CT 06518
 NEW HAVEN
 100'-0"

PROJECT: AT&T LTE 3C/4C/4TX4RX/5G NR

SITE INFORMATION

CROWN CASTLE USA INC.
 CT HAMDEN NORTH CAC
 890 EVERGREEN AVE
 HAMDEN, CT 06518
 NEW HAVEN
 EXISTING
 41.406719
 -72.964211
 NAD83
 OCCUPANCY CLASSIFICATION: U
 TYPE OF CONSTRUCTION: UB
 A.D.A. COMPLIANCE:
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
 TOWER OWNER:
 CROWN CASTLE DRIVE
 CANSASBURG, PA 15317
 CARRIER/APPLICANT:
 AT&T MOBILITY
 ONE AT&T WAY
 BEDMINSTER, NJ 07921
 APPLICATION ID:
 509313

DRAWING INDEX

| SHEET # | TITLE SHEET | SHEET DESCRIPTION |
|---------|------------------------|-------------------|
| T-1 | GENERAL NOTES | |
| G-1 | EQUIPMENT PLAN | |
| G-2 | TOWER ELEVATIONS | |
| G-3 | ANTENNA ORIENTATION | |
| G-4 | ANTENNA SCHEDULE | |
| G-5 | ANTENNA AND RRH SPECS. | |
| G-6 | ANTENNA AND RRH DETAIL | |
| G-7 | BUILDING DIAGRAM | |
| G-8 | GROUNDING DETAILS | |
| G-9 | | |
| G-10 | | |

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR I1617. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER OF ANY DISCREPANCIES OR OMISSIONS BEFORE PROCEEDING WITH THE WORKS 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 (6) KATHREIN 8064012L ANTENNAS
 • REMOVE (6) CCL D7M4B7919V612A TMAS
 • REMOVE (3) ERICSSON 4449 B5132RRHS
 • REMOVE (3) ERICSSON 4450 B56RRHS
 • INSTALL (3) CCLDM0638-RF-02A ANTENNAS
 • INSTALL (3) ERICSSON 4449 B5132RRHS
 • INSTALL (3) ERICSSON 4449 B5132RRHS
 • INSTALL (3) ERICSSON 4450 B56RRHS
 • INSTALL (1) ROSENBERGER LEONI HPL1686-04-XXX TUBER CABLE
 • INSTALL (1) ROSENBERGER LEONI HPL1686-04-XXX TUBER CABLE
 • INSTALL (3) ROSENBERGER LEONI WR-V66S1T-BRD DC CABLES
GROUND SCOPE OF WORK
 • REMOVE (1) 21961 DUPL EXTERS
 • INSTALL (1) B86639-7 ID16

DESIGN PACKAGE BASED
 REVISION: 1.00
 DATE: 5/26/20
 REVISION: 0
 ID: 509313

PROJECT TEAM

AKE FIRM
 B+T GROUP
 177 SOUTH BOULDER, SUITE 300
 TULSA, OK 74119
 MIKE GARRETT
 (918) 217-8574
 CROWN CASTLE
 USA INC. DISTRICT
 3200 HORIZON DRIVE, SUITE 150
 KING OF PRUSSIA, PA 19406
 CONTACTS:



AT&T SITE NUMBER:
 27023
BU #: 800529
CT HAMDEN NORTH CAC
 890 EVERGREEN AVE
 HAMDEN, CT 06518
 EXISTING 100'-0"
 SELF-SUPPORT TOWER

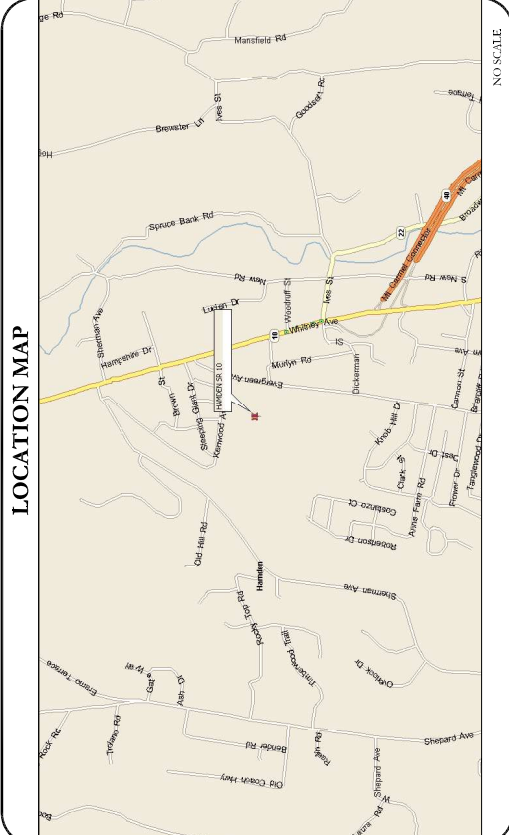
ISSUED FOR:

| REV | DATE | DESCRIPTION | DESIGNER |
|-----|---------|------------------------|----------|
| 0 | 3/7/20 | BASIC CONSTRUCTION RFP | WV |
| 1 | 6/15/20 | GEN CONSTRUCTION RFP | WV |
| 2 | 6/10/20 | GEN CONSTRUCTION RFP | WV |



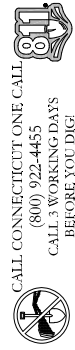
B&T ENGINEERING, INC.
 PE 0001564
 Expires: 2/10/21
 (THIS SEAL IS VALID FOR THE STATE OF CONNECTICUT UNLESS THERE ARE ACTING UNDER THE REGULATION OR A LICENSED PROFESSIONAL ENGINEER.)
 REGISTERED PROFESSIONAL ENGINEER

SHEET NUMBER:
T-1
REVISION:
2



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 CONSTRUCTED TO PERMIT WORK NOT ALLOWED BY THESE CODES.
CODE TYPE
 BUILDING: 2015 IBC
 MECHANICAL: 2015 IMC
 ELECTRICAL: 2017 NEC
REFERENCE DOCUMENTS:
 STRUCTURAL ANALYSIS: CPD ENGINEERING AND ARCHITECTURE PROFESSIONAL CORPORATION
 JUNE 3, 2020
 MOUNT ANALYSIS: TOWER ENGINEERING PROFESSIONALS
 JUNE 6, 2020



NOTE: BEFORE ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NCC AT (800) 788-3011 & CROWN CONSTRUCTION MANAGER.
 CALL CONNECTICUT ONE CALL (800) 922-4455
 CALL 3 WORKING DAYS BEFORE YOU DIG



ONE AT&T WAY
BEDMINSTER, NJ 07921



3300 HORIZON DRIVE, SUITE 150
KING OF PRUSSIA, PA 19406



1775 S. BOLLARD
TULSA, OK 74119
PH: (918) 587-4530
www.btggrp.com

AT&T SITE NUMBER:
27023

BU #: 800529
CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518
EXISTING 100'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

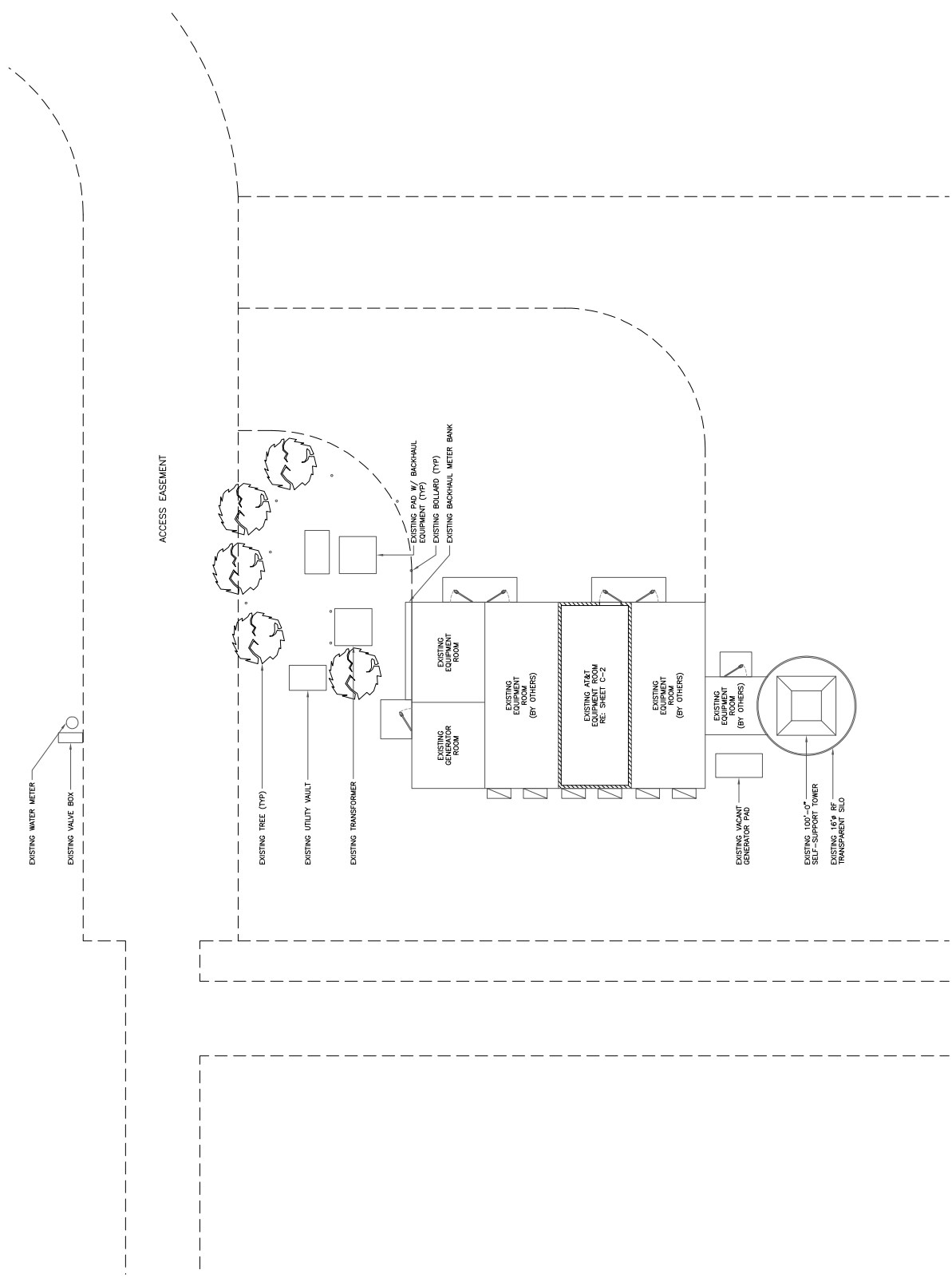
| REV | DATE | REVISED | DESCRIPTION | DESIGNER |
|-----|---------|---------|--------------|----------|
| 0 | 3/7/20 | REV | CONSTRUCTION | WVP |
| 1 | 6/10/20 | REV | CONSTRUCTION | WVP |
| 2 | 6/10/20 | REV | CONSTRUCTION | WVP |



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

THIS PLAN AND ALL INFORMATION CONTAINED HEREIN, UNLESS THEY ARE ACTING UNDER THE DIRECTION OR A LICENSED PROFESSIONAL ENGINEER, SHALL BE VOID AND INVALID.

SHEET NUMBER: C-1
REVISION: 2



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



ONE AT&T WAY
BEDMINSTER, NJ 07921



1300 HORIZON DRIVE, SUITE 150
KING OF PRUSSIA, PA 19406



1775 S. BOULDER
TULSA, OK 74119
PH: (918) 587-4530
www.btggrp.com

AT&T SITE NUMBER:
27023

BU #: 800529
CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518

EXISTING 100'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

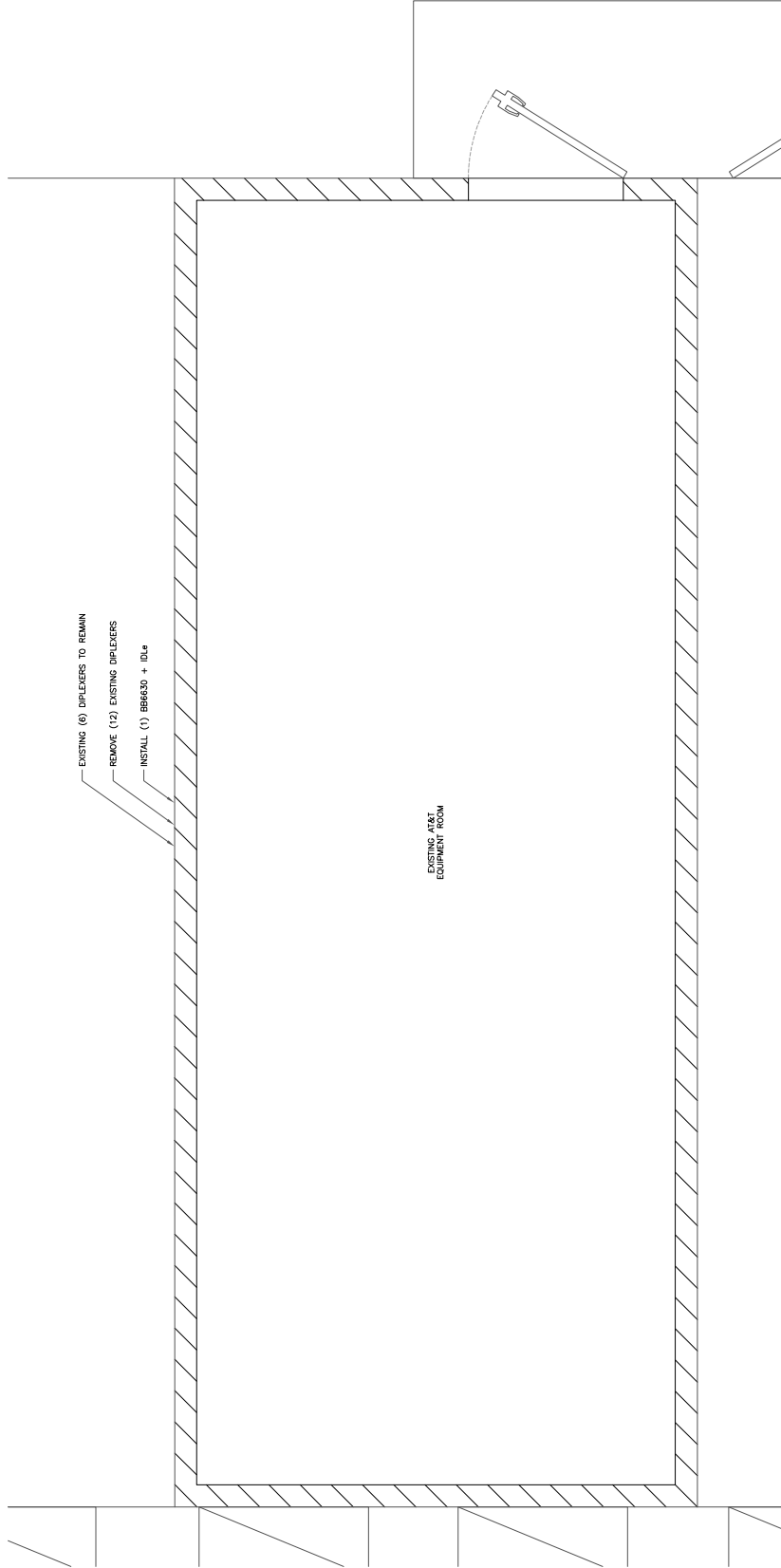
| REV | DATE | ISSUES | DESCRIPTION | DESIGNER |
|-----|---------|--------|------------------|----------|
| 0 | 3/7/20 | BSA | CONSTRUCTION RVP | |
| 1 | 6/1/20 | GEH | CONSTRUCTION RVP | |
| 2 | 6/10/20 | GEH | CONSTRUCTION RVP | |



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

THIS SHEET IS THE PROPERTY OF B&T ENGINEERING, INC.
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OR AUTHORITY OF A LICENSED PROFESSIONAL ENGINEER,
SURVEYOR OR ARCHITECT.

SHEET NUMBER: **C-2** REVISION: **2**



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



ONE AT&T WAY
BEDMINSTER, NJ 07921



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



177 S. BOULDER
TULSA, OK 74119
PH: (918) 587-4830
www.btggrp.com

AT&T SITE NUMBER:
27023

BU #: 800529
CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518
EXISTING 100'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

| REV | DATE | BY | DESCRIPTION | CHKD BY |
|-----|---------|-----|------------------|---------|
| 0 | 3/7/20 | BJL | CONSTRUCTION RVP | |
| 1 | 6/10/20 | GCH | CONSTRUCTION RVP | |
| 2 | 6/10/20 | GCH | CONSTRUCTION RVP | |



B&T ENGINEERING, INC.
PEC 0001564
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EXERCISES PROFESSIONAL ENGINEERING.

SHEET NUMBER: C-3
REVISION: 2

AT&T EQUIPMENT
ANTENNA CL. 85'-0"
MOUNT CL. 85'-0"

- TOP OF EXISTING SILO
ELEV. = 108'-0"
- EXISTING ANTENNAS
RAD CENTER 104'-0"
- TOP OF EXISTING TOWER
ELEV. = 100'-0"
- EXISTING ANTENNAS
RAD CENTER 98'-0"
- EXISTING AT&T ANTENNAS
RAD CENTER 85'-0"
- EXISTING ANTENNAS
RAD CENTER 75'-0"
- EXISTING ANTENNAS
RAD CENTER 65'-0"

- EXISTING AT&T EQUIPMENT
(3) ANTENNAS
(3) RRHS
(1) SURGE SUPPRESSOR
MOUNTED TO EXISTING MOUNTS
- NEW AT&T EQUIPMENT
(3) CD - GPASR-BURBA ANTENNAS
(3) CD - GPASR-BURBA ANTENNAS
(3) ERICSSON - 4415 830 RRHS
(3) ERICSSON - 4449 827/812 RRHS
(3) ERICSSON - 4449 827/812 RRHS
(1) BANGOR - DC2-48-80-24-80-EV SQUID
- EXISTING 100'-0" SELF-SUPPORT TOWER
- EXISTING AT&T FEEDLINES
(12) ANDREW - LPTZ-50A (7/8")
(2) ROSENBERG LEONI - WR-V88ST-BRD (3/4")
(1) ROSENBERG LEONI - FS-U88-034-00X (3/8")
- NEW AT&T FEEDLINES
(1) ROSENBERG LEONI - WS-V88ST-BRD (3/4")
(1) ROSENBERG LEONI - FS-U88-034-00X (3/8")
- EXISTING 16' RF TRANSPARENT SILO
- EXISTING AT&T EQUIPMENT ROOM
INSIDE EXISTING BUILDING

FINAL ELEVATION
SCALE: NOT TO SCALE

AT&T EQUIPMENT
ANTENNA CL. 85'-0"
MOUNT CL. 85'-0"

- TOP OF EXISTING SILO
ELEV. = 108'-0"
- EXISTING ANTENNAS
RAD CENTER 104'-0"
- TOP OF EXISTING TOWER
ELEV. = 100'-0"
- EXISTING ANTENNAS
RAD CENTER 98'-0"
- EXISTING AT&T ANTENNAS
RAD CENTER 85'-0"
- EXISTING ANTENNAS
RAD CENTER 75'-0"
- EXISTING ANTENNAS
RAD CENTER 65'-0"

- EXISTING AT&T EQUIPMENT
(6) ANTENNAS
(6) RRHS
(1) SURGE SUPPRESSOR
MOUNTED TO EXISTING MOUNTS
- EXISTING 100'-0" SELF-SUPPORT TOWER
- EXISTING AT&T FEEDLINES
(12) ANDREW - LPTZ-50A (7/8")
(2) ROSENBERG LEONI - WR-V88ST-BRD (3/4")
(1) ROSENBERG LEONI - FS-U88-034-00X (3/8")
- EXISTING 16' RF TRANSPARENT SILO
- EXISTING AT&T EQUIPMENT ROOM
INSIDE EXISTING BUILDING

EXISTING ELEVATION
SCALE: NOT TO SCALE



ONE AT&T WAY
BEDMINSTER, NJ 07921



3200 HORIZON DRIVE, SUITE 150
KING OF PRUSSIA, PA 19386



1775 S. BOKLEER
TULSA, OK 74119
PH: (918) 587-8330
www.bttgrp.com

AT&T SITE NUMBER:
27023

BU #: 800529
CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518
EXISTING 100'-0"
SELF-SUPPORT TOWER

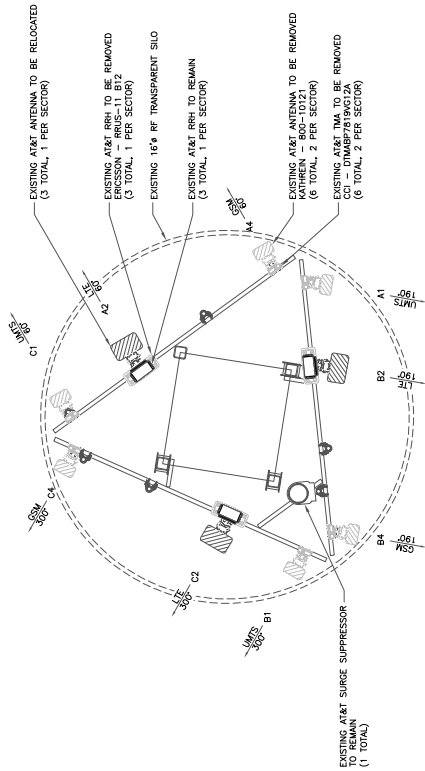
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|-----|---------|--------|--------------|----------|------|
| 0 | 3/7/20 | BSA | CONSTRUCTION | WVP | |
| 1 | 6/1/20 | GEH | CONSTRUCTION | WVP | |
| 2 | 6/10/20 | GEH | CONSTRUCTION | WVP | |



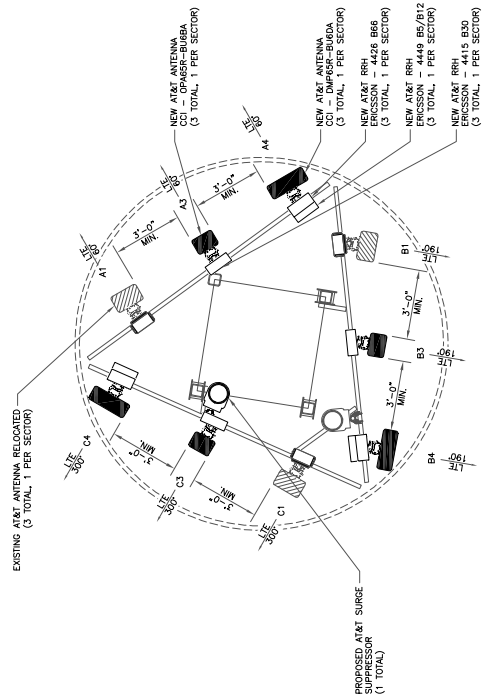
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PEC.0001564
Expires: 2/10/21

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SHEET NUMBER: REVISION
C-4 2



1 EXISTING ANTENNA LAYOUT
SCALE: NOT TO SCALE



2 FINAL ANTENNA LAYOUT
SCALE: NOT TO SCALE



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



1775 ROUTE 66
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PH: (918) 897-8500
www.btg.com

AT&T SITE NUMBER:
27023

BU #: 800529
CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518
EXISTING 100'-0"
SELF-SUPPORT TOWER

| REV | DATE | BY | DESCRIPTION | ISSUED FOR: |
|-----|--------|-----|------------------|--------------|
| 0 | 3/7/20 | BSE | CONSTRUCTION RFP | DESIGN |
| 1 | 6/1/20 | GEH | CONSTRUCTION RFP | CONSTRUCTION |
| 2 | 6/1/20 | GEH | CONSTRUCTION RFP | CONSTRUCTION |



6/10/20

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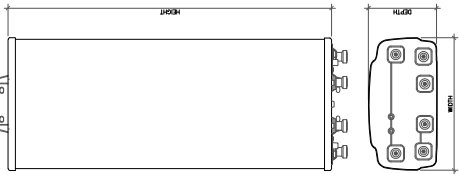
SHEET NUMBER: C-5
REVISION: 2

FINAL ANTENNA AND COAXIAL CABLE SCHEDULE

| POS. | TECH | STATUS | AZMUTH | ANTENNA TYPE | ANTENNA RAD CENTER | MECHANICAL DOWNHILL | ELECTRICAL DOWNHILL | MAIN COAX SIZE | MAIN COAX LENGTH | COAX QTY | TOWER QTY AND MODEL | RAYCAP | DC (TRAVELER-BRD) FIBER CABLES (B4-L5H-B054-XXXXXX) | RRH QTY ON TOWER | RRH ON GROUND | DIPLEXER ON TOWER | DIPLEXER ON GROUND | REF. CABLE | |
|---------------------|------|----------|--------|------------------------|--------------------|---------------------|---------------------|----------------|------------------|----------|---------------------|--------------------|-----------------------------------------------------|---------------------------------|---------------|-------------------|--------------------|------------|---|
| ALPHA SECTOR | | | | | | | | | | | | | | | | | | | |
| A1 | LTE | EXISTING | 60° | CCI HFA-65R-BU6A-H6 | 85'-0" | 0' | 6' 4" | 7/8" | 135'-0" | 2 | - | - | (1) FIBER (2) DC LINES | (1) RRUS-32 B2 | - | - | - | - | Y |
| A2 | - | - | - | - | - | - | - | - | - | - | - | DC6-48-60-18-8F | - | - | - | - | - | - | - |
| A3 | LTE | NEW | 60° | CCI OPA65R-BU6BA | 85'-0" | 0' | 3' | - | - | - | - | - | - | (1) 4415 B30 | - | - | - | - | Y |
| A4 | LTE | NEW | 60° | CCI DMP65R-BU6DA | 85'-0" | 0' | 2' 2" 4" 2" | - | - | - | - | - | - | (1) 4449 B5/B12 (1) 4426 B66 | - | - | - | - | Y |
| BETA SECTOR | | | | | | | | | | | | | | | | | | | |
| B1 | LTE | EXISTING | 190° | CCI HFA-65R-BU6A-H6 | 85'-0" | 0' | 0' 3" | 7/8" | 135'-0" | 2 | - | - | (1) FIBER (3) DC LINES | (1) RRUS-32 B2 | - | - | - | - | Y |
| B2 | - | - | - | - | - | - | - | - | - | - | - | DC9-48-60-24-8C-EV | - | - | - | - | - | - | - |
| B3 | LTE | NEW | 190° | CCI OPA65R-BU6BA | 85'-0" | 0' | 3' | - | - | - | - | - | - | (1) 4415 B30 | - | - | - | - | Y |
| B4 | LTE | NEW | 190° | CCI DMP65R-BU6DA | 85'-0" | 0' | 4' 4" 3" 4" | - | - | - | - | - | - | (1) 4449 B5/B12 (1) 4426 B66 | - | - | - | - | Y |
| GAMMA SECTOR | | | | | | | | | | | | | | | | | | | |
| C1 | LTE | EXISTING | 300° | CCI HFA-65R-BU6A-H6 | 85'-0" | 0' | 4' 2" | 7/8" | 135'-0" | 2 | - | - | - | (1) RRUS-32 B2 | - | - | - | - | Y |
| C2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C3 | LTE | NEW | 300° | CCI OPA65R-BU6BA | 85'-0" | 0' | 3' | - | - | - | - | - | - | (1) 4415 B30 | - | - | - | - | Y |
| C4 | LTE | NEW | 300° | CCI DMP65R-BU6DA | 85'-0" | 0' | 3' 3" 2" 3" | - | - | - | - | - | - | (1) 4449 B5/B12 (1) 4426 B66 | - | - | - | - | Y |

NOTE: BOLD DENOTES NEW EQUIPMENT

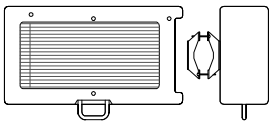
1 FINAL ANTENNA AND COAXIAL CABLE SCHEDULE
SCALE: NOT TO SCALE



| ANTENNA DIMENSIONS (INCHES) | | | | |
|-----------------------------|--------|-------|-------|----------|
| MODEL | HEIGHT | WIDTH | DEPTH | WEIGHT |
| DMP65R-BUGBA | 71.2" | 20.7" | 7.7" | 79.4 lbs |
| OPAS5R-BUGBA | 71.1" | 11.7" | 8.4" | 55.0 lbs |

1 ANTENNA DETAIL

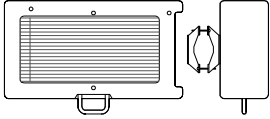
SCALE: NOT TO SCALE



ERICSSON - 4449 85/012
 WEIGHT (FULLY EQUIPPED): 71.0 LBS
 SIZE (HxWxD): 17.90x13.19x9.44 IN.

2 RRH DETAIL

SCALE: NOT TO SCALE



ERICSSON - 4415 830
 WEIGHT (FULLY EQUIPPED): 42.9 LBS
 SIZE (HxWxD): 14.96x13.18x5.04 IN.

3 RRH DETAIL

SCALE: NOT TO SCALE



ONE AT&T WAY
 MEDMINSTER, NJ 07921



1300 HORIZON DRIVE, SUITE 150
 KING OF PRUSSIA, PA 19406



1775 S. BOULDER
 TULSA, OK 74119
 PH: (918) 807-4800
 www.btg.com

AT&T SITE NUMBER:
 27023

BU #: 800529
 CT HAMDEN NORTH
 CAC

890 EVERGREEN AVE
 HAMDEN, CT 06518

EXISTING 100'-0"
 SELF-SUPPORT TOWER

| ISSUED FOR: | | | |
|-------------|---------|------------------|----------|
| REV | DATE | DESCRIPTION | DESIGNER |
| 0 | 6/10/20 | REV CONSTRUCTION | WVP |
| 1 | 6/10/20 | GEN CONSTRUCTION | WVP |
| 2 | 6/10/20 | GEN CONSTRUCTION | WVP |



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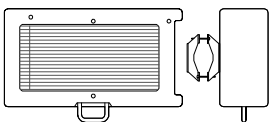
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SHEET NUMBER: C-6
 REVISION: 2

4 RRH DETAIL

SCALE: NOT TO SCALE

ERICSSON - 4426 846
 WEIGHT (FULLY EQUIPPED): 48.4 LBS
 SIZE (HxWxD): 14.96x13.19x3.80 IN.





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BEDMINSTER, NJ 07821



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AT&T SITE NUMBER:
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CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518
EXISTING 100'-0"
SELF-SUPPORT TOWER

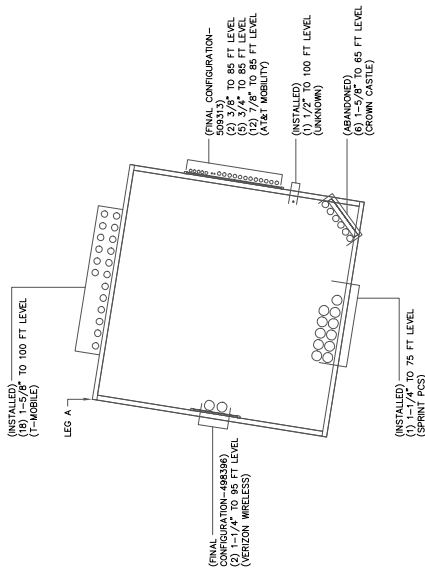
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| 0 | 3/7/20 | BSK | CONSTRUCTION RVP | | | |
| 1 | 6/10/20 | GEH | CONSTRUCTION RVP | | | |
| 2 | 6/10/20 | GEH | CONSTRUCTION RVP | | | |



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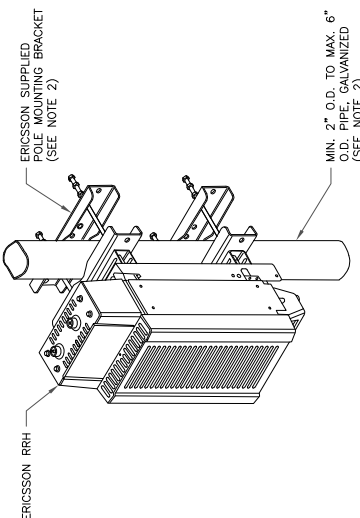
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SHEET NUMBER: C-7
REVISION: 2

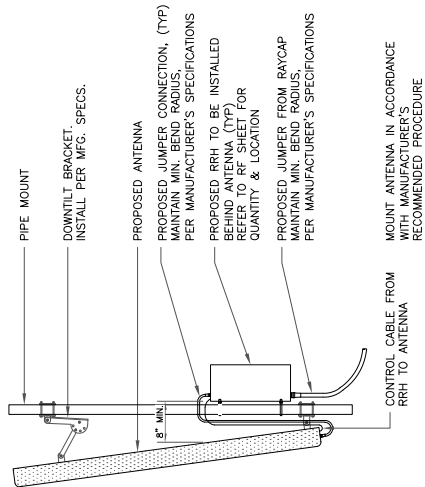


2 BASE LEVEL DRAWING
SCALE: NOT TO SCALE

- NOTES:
- ERICSSON VIA AT&T SUPPLIES RRH, RRH POLE-MOUNTING BRACKET. SUBCONTRACTOR SHALL SUPPLY POLE/PIPE AND INSTALL ALL MOUNTING HARDWARE INCLUDING ERICSSON RRH POLE-MOUNTING BRACKET. ERICSSON INSTALLS RRH AND MAKES CABLE TERMINATIONS.
 - FOR POLE DIAMETERS FROM 6" TO 15", ERICSSON CAN SUPPLY A PAIR OF POLE MOUNTING METAL BANDS WITH BOLTING WELDMENT.
 - NO PAINTING OF THE RRH OR SOLAR SHIELD IS ALLOWED



1 RRH MOUNTING DETAIL
SCALE: NOT TO SCALE



3 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE



ONE AT&T WAY
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AT&T SITE NUMBER:
27023

BU #: 800529
CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518
EXISTING 100'-0"
SELF-SUPPORT TOWER

ISSUED FOR:

| REV | DATE | ISSUES | DESCRIPTION | DESIGNER |
|-----|---------|--------|--------------|----------|
| 0 | 3/7/20 | BSA | CONSTRUCTION | WVP |
| 1 | 6/1/20 | GDH | CONSTRUCTION | WVP |
| 2 | 6/10/20 | GDH | CONSTRUCTION | WVP |

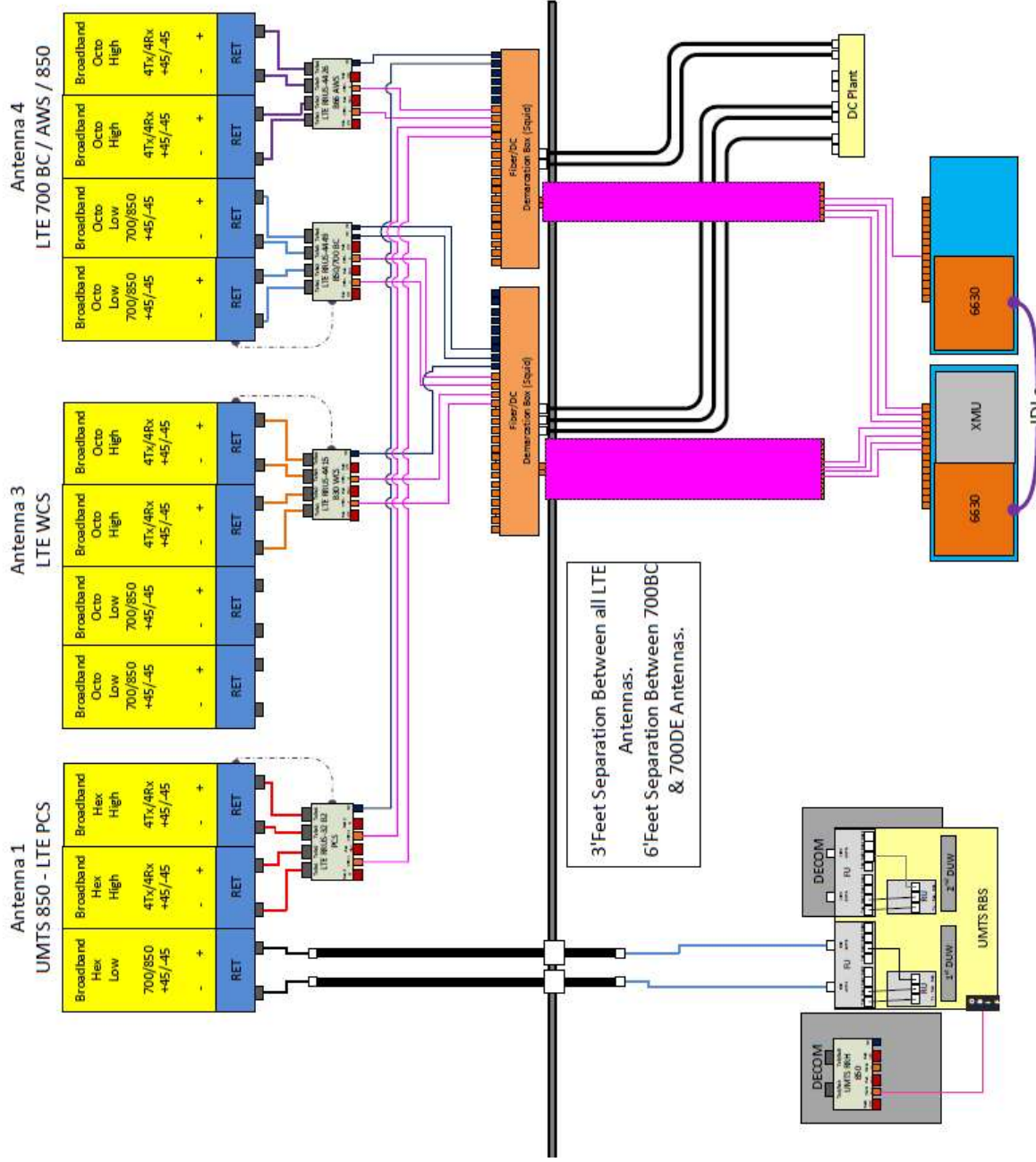


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SHEET NUMBER: C-8

REVISION: 2



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE



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BEDMINSTER, NJ 07921



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KING OF PRUSSIA, PA 19406



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AT&T SITE NUMBER:
27023

BU #: 800529
CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518
EXISTING 100'-0"
SELF-SUPPORT TOWER

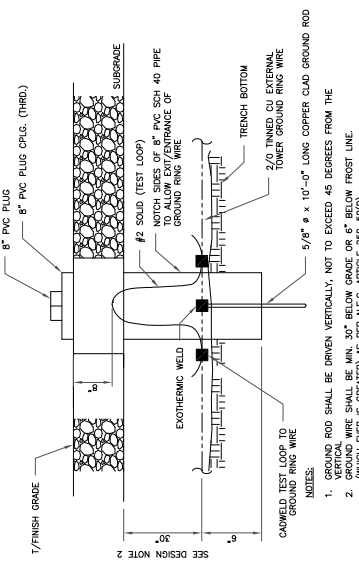
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|-----|---------|-----------------------|------------|
| 0 | 6/10/20 | BASE CONSTRUCTION RVP | ISSUED FOR |
| 1 | 6/10/20 | GEH CONSTRUCTION RVP | |
| 2 | 6/10/20 | GEH CONSTRUCTION RVP | |



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PEC 0001584
Expires: 2/10/21

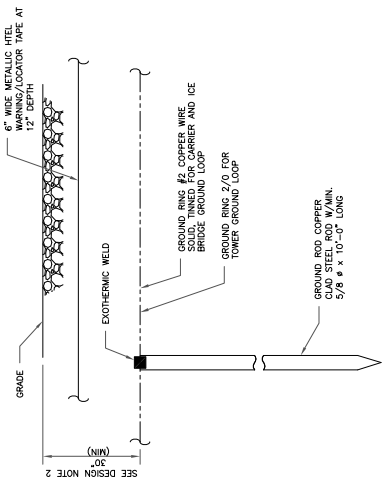
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SHEET NUMBER: **G-1** REVISION: **2**



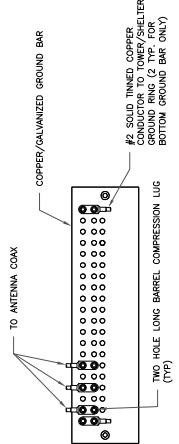
- NOTES:
- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.
 - GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(C)

3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



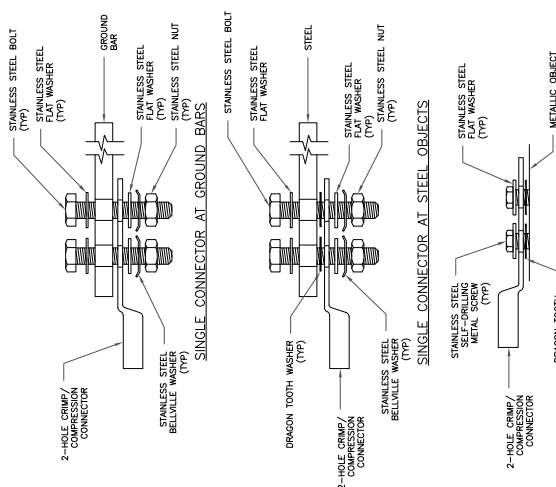
- NOTES:
- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL. VERTICAL WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(C)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

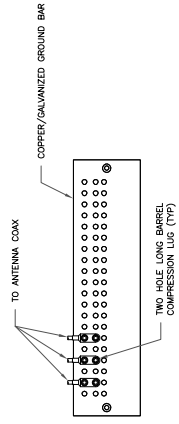


- NOTES:
- EXTERIOR ANTI-OXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 - GROUND BAR SHALL NOT BE ISOLATED FROM TOWER, MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 - GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

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

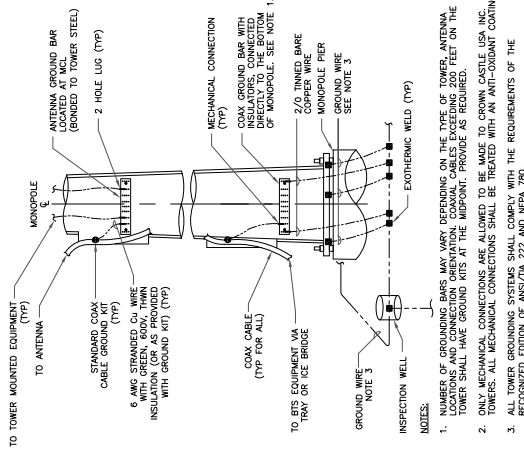


5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



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

1 ANTENNA GROUND BAR DETAIL
SCALE: NOT TO SCALE



- NOTES:
- NUMBERS 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.
 - 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.
 - ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOMMENDED EDITION OF ANSI/TIA 222 AND NFPA 780.

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



ONE AT&T WAY
BEDMINSTER, NJ 07921



3200 HORIZON DRIVE, SUITE 150
KING OF PRUSSIA, PA 19386



17775 BOKLEBER
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www.btggrp.com

AT&T SITE NUMBER:
27023

BU #: 800529
CT HAMDEN NORTH
CAC

890 EVERGREEN AVE
HAMDEN, CT 06518
EXISTING 100'-0"
SELF-SUPPORT TOWER

| REV | DATE | ISSUES | DESCRIPTION | DESIGNER |
|-----|---------|--------|--------------|----------|
| 0 | 3/7/20 | REV | CONSTRUCTION | WVP |
| 1 | 6/1/20 | REV | CONSTRUCTION | WVP |
| 2 | 6/10/20 | REV | CONSTRUCTION | WVP |

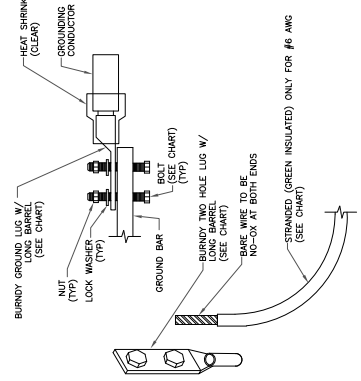


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SHEET NUMBER:
G-2
REVISION:
2

| WIRE SIZE | BURNDY LUG | BOLT SIZE |
|------------------------|------------|-----------------------|
| #6 AWG GREEN INSULATED | YAGC-ZTC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG SOLID TINNED | YAC-ZTC38 | 3/8" - 16 NC S 2 BOLT |
| #2 AWG STRANDED | YAZC-ZTC38 | 3/8" - 16 NC S 2 BOLT |
| #2/0 AWG STRANDED | YAGB-ZTC38 | 3/8" - 16 NC S 2 BOLT |
| #4/0 AWG STRANDED | YAGB-2N | 1/2" - 16 NC S 2 BOLT |

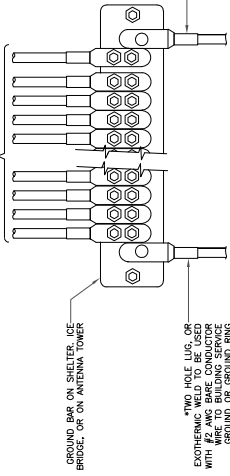


NOTES:

- ALL GROUND LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. THE LUGS MUST BE INSTALLED WITH THE CORRECT HARDWARE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

MECHANICAL LUG CONNECTION

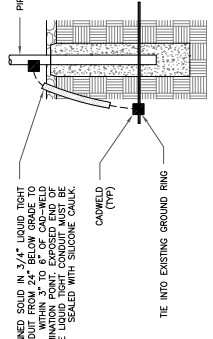
SCALE: NOT TO SCALE



- EXTERIOR WIRE TO BE TAPPED WITH #2 AWG BARE CONDUCTOR ATTACHED TO GROUND OR GROUND RING

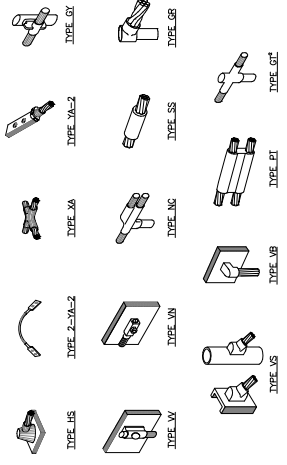
GROUNDWIRE INSTALLATION

SCALE: NOT TO SCALE



TRANSITIONING GROUND DETAIL

SCALE: NOT TO SCALE

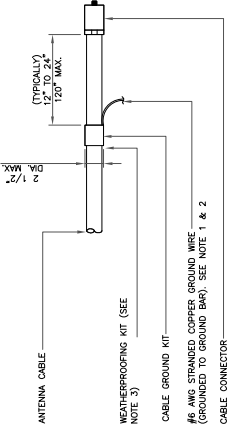


NOTES:

- ERCO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

CADWELD GROUNDING CONNECTIONS

SCALE: NOT TO SCALE

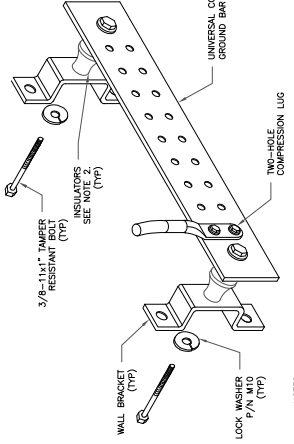


NOTES:

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

CABLE GROUND KIT CONNECTION

SCALE: NOT TO SCALE

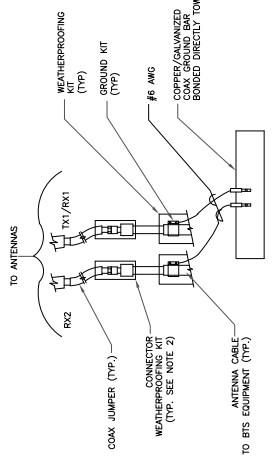


NOTES:

- DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE MOUNTING OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION. NO CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
- OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

GROUND BAR DETAIL

SCALE: NOT TO SCALE

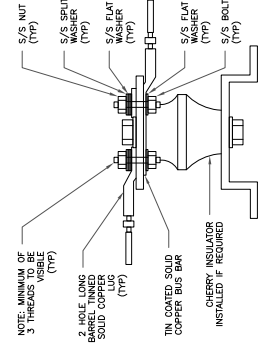


NOTES:

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

GROUND CABLE CONNECTION

SCALE: NOT TO SCALE



LUG DETAIL

SCALE: NOT TO SCALE

Exhibit D

Structural Analysis Report



GPD Engineering and Architecture
Professional Corporation

520 South Main Street Suite 2531
Akron, Ohio 44311
(216) 927-8663

Date: **June 3, 2020**

Rebecca Klein
Crown Castle
6325 Ardrey Kell Rd, Suite 600
Charlotte, NC 28277

Subject: Structural Analysis Report

Carrier Designation: **AT&T Mobility Co-Locate**
Carrier Site Number: CTL02039
Carrier Site Name: HAMDEN SR 10

Crown Castle Designation: **Crown Castle BU Number:** 800529
Crown Castle Site Name: CT HAMDEN NORTH CAC
Crown Castle JDE Job Number: 612854
Crown Castle Work Order Number: 1856531
Crown Castle Order Number: 523069 Rev. 0

Engineering Firm Designation: **GPD Project Number:** 2020777.800529.09

Site Data: **890 Evergreen Avenue, Hamden, New Haven County, CT 06518**
Latitude 41° 24' 23.9", Longitude -72° 54' 16.32"
100 Foot – Stealth Self Support Tower

Dear Rebecca Klein,

We are 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 – 49.5%**

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: Krisli Mocka

Respectfully submitted by:

Christopher J. Scheks
Connecticut # 0030026



6/3/2020

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1) INTRODUCTION

This tower is a 100 ft Self Support tower designed by Stealth Network Technologies Inc. in December of 2000.

2) ANALYSIS CRITERIA

| | |
|-----------------------------|-----------|
| TIA-222 Revision: | TIA-222-H |
| Risk Category: | II |
| Wind Speed: | 125 mph |
| Exposure Category: | C |
| Topographic Factor: | 1 |
| Ice Thickness: | 1.5 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) |
|---------------------|----------------------------|--------------------|----------------------|--------------------|----------------------|---------------------|
| 85.0 | 85.0 | 3 | CCI Antennas | HPA-65R-BUU-H6 | 6 | 7/8 |
| | | 3 | CCI Antennas | DMP65R-BU6D | | |
| | | 3 | CCI Antennas | OPA65R-BU6BA-K | | |
| | | 1 | Raycap | DC6-48-60-18-8F | | |
| | | 1 | Raycap | DC9-48-60-24-8C-EV | | |
| | | 3 | Ericsson | RRUS 32 B2 | | |
| | | 3 | Ericsson | RADIO 4415 B30 | | |
| | | 3 | Ericsson | RRUS 4426 B66 | | |
| | | 3 | Ericsson | RRUS 4449 B5/B12 | 5 | 3/4 |

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) |
|---------------------|----------------------------|--------------------|----------------------------|----------------------|----------------------|---------------------|
| 100.0 | 104.0 | 3 | Andrew | SBNHH-1D65A | 18 | 1-5/8 |
| | | 1 | Decibel | DB806-XC | | |
| | | 3 | Commscope | ATBT-Bottom-24V | | |
| | | 6 | RFS/Celwave | ATMAA1412D-1A20 | | |
| 95.0 | 98.0 | 3 | Samsung Telecommunications | RFV01U-D2A | 2 | 1-1/4 |
| | | 3 | Amphenol | BXA-70063-6CF-EDIN-X | | |
| | | 3 | Antel | BXA-80080/4CF | | |
| | 95.0 | 6 | Commscope | JAHH-65B-R3B | | |
| | | 3 | Alcatel Lucent | B25 RRH4X30-4R | | |
| | | 3 | Alcatel Lucent | B66A RRH4X45-4R | | |
| 75.0 | 75.0 | 2 | RFS Celwave | DB-T1-6Z-8AB-0Z | 11 | 1-1/4 |
| | | 2 | CSA Wireless | A-18A24N-U | | |
| 65.0 | 65.0 | 10 | Decibel | DB844H90E-XY | 6 | 1-5/8 |
| 65.0 | 65.0 | 3 | Kathrein | 742 213 | 6 | 1-5/8 |

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

| Document | Remarks | Reference | Source |
|----------------------------------------|---------------------------------------------------|-----------|----------|
| Geotechnical Reports | GPD Project #: 2016777.800529.04, dated 8/10/2016 | 6400183 | CCISITES |
| Tower Foundation Drawings/Design/Specs | Stealth Job #: 00-065, dated 12/5/2000 | 671923 | CCISITES |
| Tower Manufacturer Drawings | Stealth Job #: 00-065, dated 12/5/2000 | 605026 | CCISITES |
| Tower Structural Analysis Letter | GPD Project #: 2016777.800529.03, dated 6/17/2016 | 6316916 | CCISITES |
| Tower Structural Analysis | GPD Project #: 2020777.800529.08, dated 2/28/2020 | 8967183 | CCISITES |

3.1) Analysis Method

tnxTower (version 8.0.5.0) and RISA 3D (Version 17.0.2), commercially available analysis software packages, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following intent of the TIA-222 standard.

3.2) Assumptions

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

This analysis may be affected if any assumptions or items in Table 3 are not valid or have been made in error. GPD should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

| Section No. | Elevation (ft) | Component Type | Size | Critical Element | P (lb) | SF*P_allow (lb) | % Capacity | Pass / Fail |
|-------------|----------------|----------------|----------------|------------------|--------|-----------------|------------|-------------|
| L1 | 100 - 90 | Leg | HSS6x6x1/4 | M4 | 9.635 | 181.658 | 1.8% | Pass |
| | | Diagonal | 2L2x2x3/16x1/2 | M16 | 6.651 | 29.85 | 7.9% | Pass |
| | | Top Girt | C6x10.5 | M8 | 2.281 | 59.887 | 0.5% | Pass |
| L2 | 90 - 80 | Leg | HSS6x6x1/4 | M20 | 21.091 | 181.658 | 6.0% | Pass |
| | | Diagonal | 2L2x2x3/16x1/2 | M32 | 9.308 | 29.85 | 14.3% | Pass |
| | | Top Girt | C6x10.5 | M24 | 2.586 | 59.887 | 5.5% | Pass |
| L3 | 80 - 70 | Leg | HSS6x6x1/4 | M36 | 41.455 | 181.658 | 12.0% | Pass |
| | | Diagonal | 2L2x2x3/16x1/2 | M48 | 11.98 | 29.85 | 22.0% | Pass |
| | | Top Girt | C6x10.5 | M37 | 3.619 | 59.887 | 5.7% | Pass |
| L4 | 70 - 60 | Leg | HSS6x6x1/4 | M49 | 67.311 | 181.658 | 23.0% | Pass |
| | | Diagonal | 2L2x2x3/16x1/2 | M64 | 15.21 | 29.85 | 28.8% | Pass |
| | | Top Girt | C6x10.5 | M56 | 10.247 | 59.887 | 5.8% | Pass |
| T1 | 60 - 40 | Leg | HSS8x8x1/4 | M68 | 51.25 | 199.192 | 14.3% | Pass |
| | | Diagonal | 2L4x4x3/8x1/2 | M73 | 27.12 | 112.46 | 14.1% | Pass |
| | | Top Girt | W16x45 | M72 | 16.402 | 426.018 | 44.8% | Pass |

| Section No. | Elevation (ft) | Component Type | Size | Critical Element | P (lb) | SF*P_allow (lb) | % Capacity | Pass / Fail |
|-------------|----------------|----------------|---------------|------------------|--------|-----------------|---------------|-------------|
| T2 | 40 - 20 | Leg | HSS8x8x1/4 | M81 | 85.856 | 199.192 | 25.6% | Pass |
| | | Diagonal | 2L4x4x3/8x1/2 | M90 | 39.461 | 112.46 | 21.3% | Pass |
| | | Top Girt | W6x12 | M88 | 26.582 | 59.891 | 15.8% | Pass |
| T3 | 20 - 0 | Leg | HSS8x8x1/4 | M97 | 123.18 | 199.192 | 35.6% | Pass |
| | | Diagonal | 2L4x4x3/8x1/2 | M106 | 57.7 | 112.46 | 30.7% | Pass |
| | | Top Girt | W6x12 | M101 | 35.921 | 59.891 | 27.9% | Pass |
| | | | | | | | Summary | |
| | | | | | | | Leg (T3) | 35.6% Pass |
| | | | | | | | Diagonal (T3) | 30.7% Pass |
| | | | | | | | Top Girt (T1) | 44.8% Pass |
| | | | | | | | Bolt Checks | 49.5% Pass |
| | | | | | | | Rating = | 49.5% Pass |

Table 5 - Tower Component Stresses vs. Capacity – LC7

| Notes | Component | Elevation (ft) | % Capacity | Pass / Fail |
|-------|----------------------------------|----------------|------------|-------------|
| 1,2 | Anchor Rods | 0.0 | 11.5 | Pass |
| 1,2 | Base Foundation Reinforcement | 0.0 | 11.3 | Pass |
| 1,2 | Base Foundation Soil Interaction | 0.0 | 32.6 | Pass |

| | |
|-----------------------------------------------------|--------------|
| Structure Rating (max from all components) = | 49.5% |
|-----------------------------------------------------|--------------|

Notes:

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

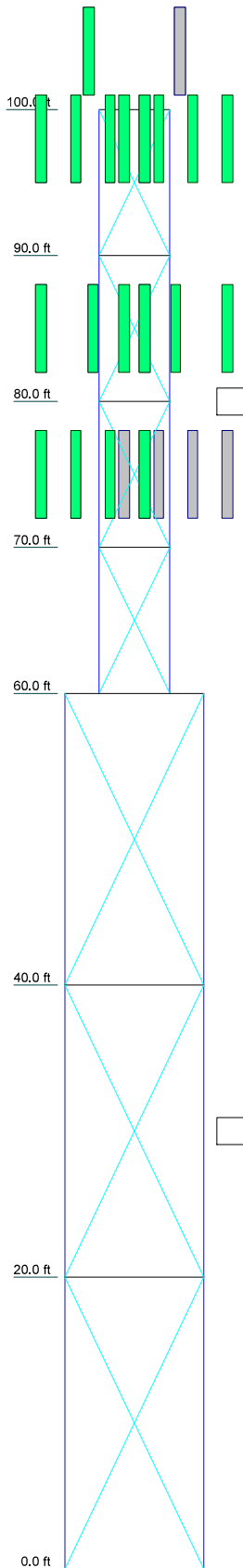
4.1) Recommendations

The existing tower and its foundation are sufficient for the proposed loading and do not require modifications.

APPENDIX A
TNXTOWER & RISA 3D OUTPUT

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 49.5%



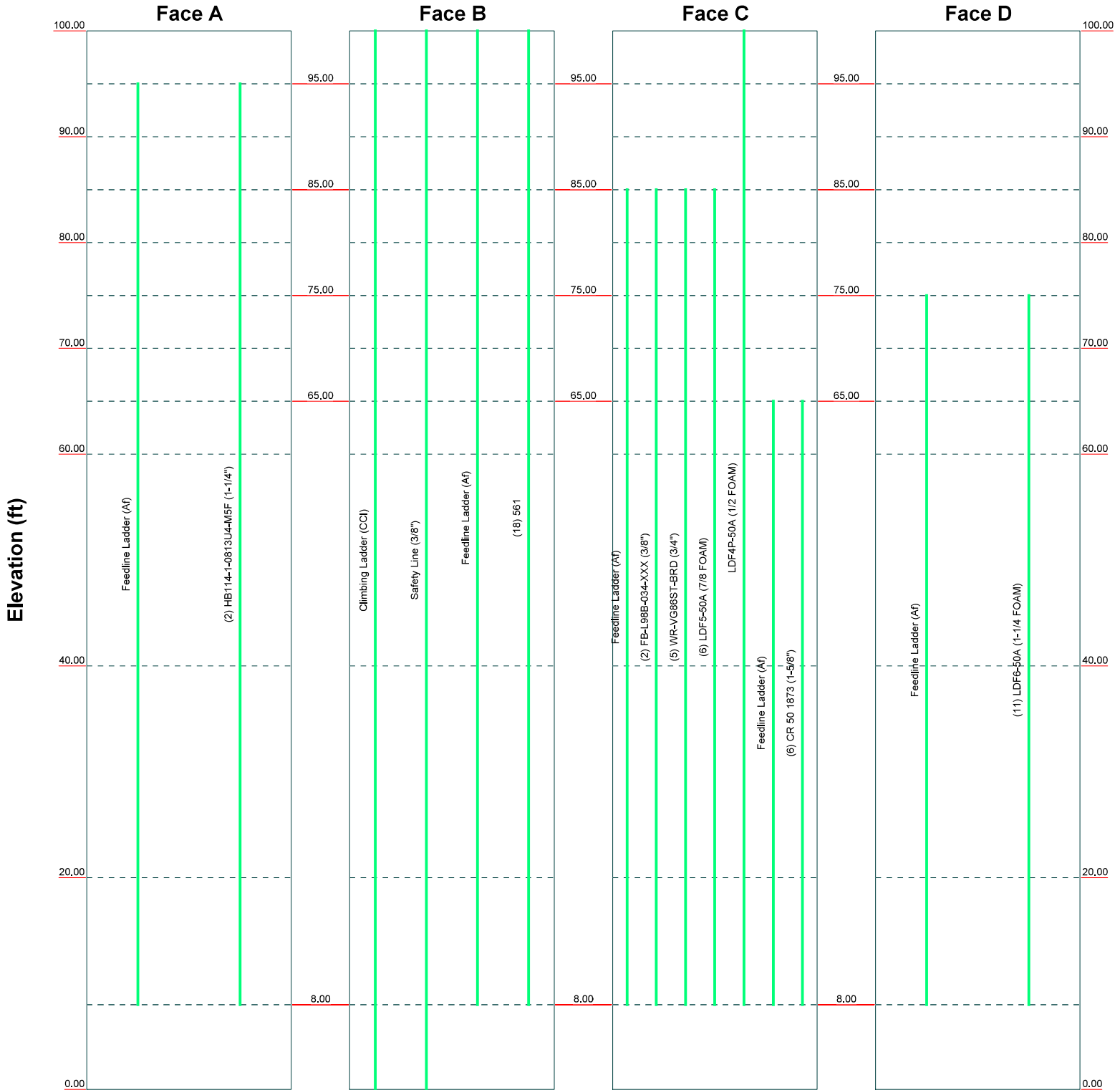
| | | | | | | |
|-----------------|---------------|----|----|----|----|--------|
| Section | T1 | L1 | L2 | L3 | L4 | 1346.8 |
| Legs | HSS8x8x1/4 | | | | | |
| Leg Grade | A500-46 | | | | | |
| Diagonals | 2L4x4x3/8x1/2 | | | | | |
| Diagonal Grade | A36 | | | | | |
| Top Girts | W6x12 | | | | | |
| Face Width (ft) | 9.52083 | | | | | |
| # Panels @ (ft) | 3 @ 20 | | | | | |
| Weight (lb) | 5841.2 | | | | | |
| | 7104.7 | | | | | |
| | 5841.2 | | | | | |
| | 1346.8 | | | | | |
| | 1346.8 | | | | | |
| | 1346.8 | | | | | |
| | 1346.8 | | | | | |

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------|------------|
| <p>GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (555) 555-1234 FAX: (555) 555-1235</p> | Job: BU #: 800529, CT HAMDEN NORTH CAC | | |
| | Project: 2020777.800529.09 | | |
| | Client: Crown Castle | Drawn by: KMocka | App'd: |
| | Code: TIA-222-H | Date: 06/01/20 | Scale: NTS |
| Path: T:\Crown\800529\09\5_Structural\00_Structure\00_Rev 0\03_Modeling\Tower\800529.dwg | | Dwg No. E-1 | |

Feed Line Distribution Chart

0' - 100'

— Round
 — Flat
 — App In Face
 — App Out Face
 — Truss Leg



| | | | |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------|------------|
| <p>GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (555) 555-1234 FAX: (555) 555-1235</p> | Job: BU #: 800529, CT HAMDEN NORTH CAC | | |
| | Project: 2020777.800529.09 | | |
| | Client: Crown Castle | Drawn by: KMocka | App'd: |
| | Code: TIA-222-H | Date: 06/01/20 | Scale: NTS |
| | Path: T:\Crown\800529\09\5_Structural\00_Structure\00_Rev 0\03_Modeling\Tower\800529.dwg | Dwg No. E-7 | |

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (555) 555-1234 FAX: (555) 555-1235 | Job BU #: 800529, CT HAMDEN NORTH CAC | Page 1 of 14 |
| | Project 2020777.800529.09 | Date 11:14:27 06/01/20 |
| | Client Crown Castle | Designed by KMocka |

Tower Input Data

The main tower is a 4x free standing tower with an overall height of 100.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 9.52 ft at the top and 9.52 ft at the base.

An index plate is provided at the 4 sided -tower connection.

There is a 4 sided latticed pole with a face width of 4.83 ft.

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

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Tower base elevation above sea level: 199.00 ft.

Basic wind speed of 125 mph.

Risk Category II.

Exposure Category C.

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

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.5000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in latticed pole member design is 1.05.

Tower analysis based on target reliabilities in accordance with Annex S.

Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.

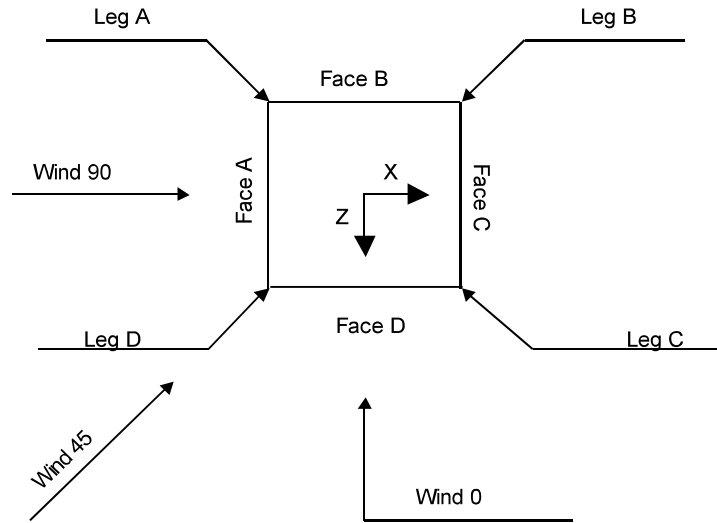
Stress ratio used in tower member design is 1.05.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression √ All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption |
| Poles | | |
| <ul style="list-style-type: none"> Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known | | |

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (555) 555-1234 FAX: (555) 555-1235 | Job BU #: 800529, CT HAMDEN NORTH CAC | Page 2 of 14 |
| | Project 2020777.800529.09 | Date 11:14:27 06/01/20 |
| | Client Crown Castle | Designed by KMocka |



Square Tower

4 Sided Latticed Pole Section Geometry

| Tower Section | Tower Elevation | Assembly Database | Description | Section Width | Number of Sections | Section Length |
|---------------|-----------------|-------------------|-------------|---------------|--------------------|----------------|
| | <i>ft</i> | | | <i>ft</i> | | <i>ft</i> |
| L1 | 100.00-90.00 | | | 4.83 | 1 | 10.00 |
| L2 | 90.00-80.00 | | | 4.83 | 1 | 10.00 |
| L3 | 80.00-70.00 | | | 4.83 | 1 | 10.00 |
| L4 | 70.00-60.00 | | | 4.83 | 1 | 10.00 |

4 Sided Latticed Pole Section Geometry (cont'd)

| Tower Section | Tower Elevation | Diagonal Spacing | Bracing Type | Has K Brace End Panels | Has Horizontals | Top Girt Offset | Bottom Girt Offset |
|---------------|-----------------|------------------|--------------|------------------------|-----------------|-----------------|--------------------|
| | <i>ft</i> | <i>ft</i> | | | | <i>in</i> | <i>in</i> |
| L1 | 100.00-90.00 | 10.00 | X Brace | No | Yes | 0.0000 | 0.0000 |
| L2 | 90.00-80.00 | 10.00 | X Brace | No | Yes | 0.0000 | 0.0000 |
| L3 | 80.00-70.00 | 10.00 | X Brace | No | Yes | 0.0000 | 0.0000 |
| L4 | 70.00-60.00 | 10.00 | X Brace | No | Yes | 0.0000 | 0.0000 |

4 Sided Latticed Pole Section Geometry (cont'd)

| | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (555) 555-1234 FAX: (555) 555-1235 | Job | BU #: 800529, CT HAMDEN NORTH CAC | Page | 4 of 14 |
| | Project | 2020777.800529.09 | Date | 11:14:27 06/01/20 |
| | Client | Crown Castle | Designed by | KMocka |

| Tower Elevation ft | Calc K Single Angles | Calc K Solid Rounds | K Factors ¹ | | | | | | | | | | |
|-----------------------|----------------------|---------------------|------------------------|---------------|---|---------------|---|--------------|-------|--------|-------------|-------------|---|
| | | | Legs | X Brace Diags | | K Brace Diags | | Single Diags | Girts | Horiz. | Sec. Horiz. | Inner Brace | |
| | | | | X | Y | X | Y | X | Y | X | Y | X | Y |
| 100.00-90.00 | | | | | | | | | | | | | |
| L2 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 90.00-80.00 | | | | | | | | | | | | | |
| L3 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80.00-70.00 | | | | | | | | | | | | | |
| L4 | Yes | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 70.00-60.00 | | | | | | | | | | | | | |

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

4 Sided Latticed Pole Section Geometry (cont'd)

| Tower Elevation ft | Leg | | Diagonal | | Top Girt | | Bottom Girt | | Mid Girt | | Long Horizontal | | Short Horizontal | |
|-----------------------|---------------------------|---|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|---------------------------|------|
| | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| L1 100.00-90.00 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| L2 90.00-80.00 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| L3 80.00-70.00 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |
| L4 70.00-60.00 | 0.0000 | 1 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 | 0.0000 | 0.75 |

4 Sided Latticed Pole Section Geometry (cont'd)

| Tower Elevation ft | Leg Connection Type | Leg | | Diagonal | | Top Girt | | Bottom Girt | | Mid Girt | | Long Horizontal | | Short Horizontal | |
|-----------------------|---------------------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|
| | | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. |
| L1 100.00-90.00 | Flange | 0.7500 | 0 | 0.8750 | 2 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| L2 90.00-80.00 | Flange | 0.7500 | 0 | 0.8750 | 2 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| L3 80.00-70.00 | Flange | 0.7500 | 0 | 0.8750 | 2 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |
| L4 70.00-60.00 | Flange | 0.8750 | 4 | 0.8750 | 2 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 | 0.6250 | 0 |

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|
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Tower Section Geometry

| Tower Section | Tower Elevation | Assembly Database | Description | Section Width | Number of Sections | Section Length |
|---------------|-----------------|-------------------|-------------|---------------|--------------------|----------------|
| | ft | | | ft | | ft |
| T1 | 60.00-40.00 | | | 9.52 | 1 | 20.00 |
| T2 | 40.00-20.00 | | | 9.52 | 1 | 20.00 |
| T3 | 20.00-0.00 | | | 9.52 | 1 | 20.00 |

Tower Section Geometry (cont'd)

| Tower Section | Tower Elevation | Diagonal Spacing | Bracing Type | Has K Brace End Panels | Has Horizontals | Top Girt Offset | Bottom Girt Offset |
|---------------|-----------------|------------------|--------------|------------------------|-----------------|-----------------|--------------------|
| | ft | ft | | | | in | in |
| T1 | 60.00-40.00 | 20.00 | X Brace | No | Yes | 0.0000 | 0.0000 |
| T2 | 40.00-20.00 | 20.00 | X Brace | No | Yes | 0.0000 | 0.0000 |
| T3 | 20.00-0.00 | 20.00 | X Brace | No | Yes | 0.0000 | 0.0000 |

Tower Section Geometry (cont'd)

| Tower Elevation | Leg Type | Leg Size | Leg Grade | Diagonal Type | Diagonal Size | Diagonal Grade |
|-----------------|----------|------------|------------------|--------------------|---------------|----------------|
| ft | | | | | | |
| T1 60.00-40.00 | Tube | HSS8x8x1/4 | A500-46 (46 ksi) | Double Equal Angle | 2L4x4x3/8x1/2 | A36 (36 ksi) |
| T2 40.00-20.00 | Tube | HSS8x8x1/4 | A500-46 (46 ksi) | Double Equal Angle | 2L4x4x3/8x1/2 | A36 (36 ksi) |
| T3 20.00-0.00 | Tube | HSS8x8x1/4 | A500-46 (46 ksi) | Double Equal Angle | 2L4x4x3/8x1/2 | A36 (36 ksi) |

Tower Section Geometry (cont'd)

| Tower Elevation | Top Girt Type | Top Girt Size | Top Girt Grade | Bottom Girt Type | Bottom Girt Size | Bottom Girt Grade |
|-----------------|---------------|---------------|----------------|------------------|------------------|-------------------|
| ft | | | | | | |
| T1 60.00-40.00 | Wide Flange | W16x45 | A36 (36 ksi) | Flat Bar | | A36 (36 ksi) |
| T2 40.00-20.00 | Wide Flange | W6x12 | A36 (36 ksi) | Flat Bar | | A36 (36 ksi) |
| T3 20.00-0.00 | Wide Flange | W6x12 | A36 (36 ksi) | Flat Bar | | A36 (36 ksi) |

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Tower Section Geometry (cont'd)

| Tower Elevation ft | Leg Connection Type | Leg | | Diagonal | | Top Girt | | Bottom Girt | | Mid Girt | | Long Horizontal | | Short Horizontal | |
|-----------------------|---------------------|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|
| | | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. | Bolt Size in | No. |
| T1 60.00-40.00 | Flange | 0.7500 A325N | 0 | 0.8750 A325N | 2 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 |
| T2 40.00-20.00 | Flange | 0.7500 A325N | 0 | 0.8750 A325N | 2 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 |
| T3 20.00-0.00 | Flange | 0.7500 A325N | 0 | 0.8750 A325N | 2 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 | 0.6250 A325N | 0 |

Feed Line/Linear Appurtenances - Entered As Area

| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft | Face Offset in | Lateral Offset (Frac FW) | # | C _A A _A ft ² /ft | Weight plf | |
|------------------------------|-------------|--------------|---------------------------------|--------------------|-----------------|-------------------|-----------------------------|----|------------------------------------------------------|---------------|-------|
| Climbing Ladder (CCI) | B | No | No | CaAa (Out Of Face) | 100.00 - 0.00 | 0.0000 | 0.45 | 1 | No | 0.00 | 4.81 |
| | | | | | | | | | Ice | 0.00 | 6.97 |
| | | | | | | | | | 1/2" | 0.00 | 9.48 |
| | | | | | | | | | Ice | 0.00 | 15.54 |
| | | | | | | | | | 1" Ice | | |
| Safety Line (3/8") | B | No | No | CaAa (Out Of Face) | 100.00 - 0.00 | 0.0000 | 0.45 | 1 | No | 0.00 | 0.22 |
| | | | | | | | | | Ice | 0.00 | 0.75 |
| | | | | | | | | | 1/2" | 0.00 | 1.28 |
| | | | | | | | | | Ice | 0.00 | 2.34 |
| | | | | | | | | | 1" Ice | | |
| Feedline Ladder (Af) | B | No | No | CaAa (Out Of Face) | 100.00 - 8.00 | 0.0000 | 0 | 1 | No | 0.00 | 8.40 |
| | | | | | | | | | Ice | 0.00 | 13.50 |
| | | | | | | | | | 1/2" | 0.00 | 18.60 |
| | | | | | | | | | Ice | 0.00 | 28.80 |
| | | | | | | | | | 1" Ice | | |
| 561 | B | No | No | CaAa (Out Of Face) | 100.00 - 8.00 | 0.0000 | 0 | 18 | No | 0.00 | 0.82 |
| | | | | | | | | | Ice | 0.00 | 2.33 |
| | | | | | | | | | 1/2" | 0.00 | 4.46 |
| | | | | | | | | | Ice | 0.00 | 10.54 |
| | | | | | | | | | 1" Ice | | |
| Feedline Ladder (Af) | A | No | No | CaAa (Out Of Face) | 95.00 - 8.00 | 0.0000 | 0 | 1 | No | 0.00 | 8.40 |
| | | | | | | | | | Ice | 0.00 | 13.50 |
| | | | | | | | | | 1/2" | 0.00 | 18.60 |
| | | | | | | | | | Ice | 0.00 | 28.80 |
| | | | | | | | | | 1" Ice | | |
| HB114-1-081 3U4-M5F (1-1/4") | A | No | No | CaAa (Out Of Face) | 95.00 - 8.00 | 0.0000 | 0 | 2 | No | 0.00 | 1.20 |
| | | | | | | | | | Ice | 0.00 | 2.45 |
| | | | | | | | | | 1/2" | 0.00 | 4.30 |
| | | | | | | | | | Ice | 0.00 | 9.85 |
| | | | | | | | | | 1" Ice | | |
| Feedline Ladder (Af) | C | No | No | CaAa (Out Of Face) | 85.00 - 8.00 | 0.0000 | 0 | 1 | No | 0.00 | 8.40 |
| | | | | | | | | | Ice | 0.00 | 13.50 |

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| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement ft | Face Offset in | Lateral Offset (Frac FW) | # | CAAA ft ² /ft | Weight plf |
|------------------------|-------------|--------------|---------------------------------|--------------------|---------------|----------------|--------------------------|----|--------------------------|------------|
| | | | | | | | | | 1/2" | 18.60 |
| | | | | | | | | | Ice | 28.80 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |
| FB-L98B-034-XXX (3/8") | C | No | No | CaAa (Out Of Face) | 85.00 - 8.00 | 0.0000 | 0 | 2 | No | 0.06 |
| | | | | | | | | | Ice | 0.60 |
| | | | | | | | | | 1/2" | 1.76 |
| | | | | | | | | | Ice | 5.91 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |
| WR-VG86ST-BRD (3/4") | C | No | No | CaAa (Out Of Face) | 85.00 - 8.00 | 0.0000 | 0 | 5 | No | 0.60 |
| | | | | | | | | | Ice | 1.39 |
| | | | | | | | | | 1/2" | 2.79 |
| | | | | | | | | | Ice | 7.43 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |
| LDF5-50A (7/8 FOAM) | C | No | No | CaAa (Out Of Face) | 85.00 - 8.00 | 0.0000 | 0 | 6 | No | 0.33 |
| | | | | | | | | | Ice | 1.30 |
| | | | | | | | | | 1/2" | 2.88 |
| | | | | | | | | | Ice | 7.88 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |
| LDF4P-50A (1/2 FOAM) | C | No | No | CaAa (Out Of Face) | 100.00 - 8.00 | 0.0000 | 0.3 | 1 | No | 0.15 |
| | | | | | | | | | Ice | 0.84 |
| | | | | | | | | | 1/2" | 2.14 |
| | | | | | | | | | Ice | 6.58 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |
| Feedline Ladder (Af) | C | No | No | CaAa (Out Of Face) | 65.00 - 8.00 | 0.0000 | 0.45 | 1 | No | 8.40 |
| | | | | | | | | | Ice | 13.50 |
| | | | | | | | | | 1/2" | 18.60 |
| | | | | | | | | | Ice | 28.80 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |
| CR 50 1873 (1-5/8") | C | No | No | CaAa (Out Of Face) | 65.00 - 8.00 | 0.0000 | 0.45 | 6 | No | 0.83 |
| | | | | | | | | | Ice | 2.34 |
| | | | | | | | | | 1/2" | 4.47 |
| | | | | | | | | | Ice | 10.55 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |
| Feedline Ladder (Af) | D | No | No | CaAa (Out Of Face) | 75.00 - 8.00 | 0.0000 | 0 | 1 | No | 8.40 |
| | | | | | | | | | Ice | 13.50 |
| | | | | | | | | | 1/2" | 18.60 |
| | | | | | | | | | Ice | 28.80 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |
| LDF6-50A (1-1/4 FOAM) | D | No | No | CaAa (Out Of Face) | 75.00 - 8.00 | 0.0000 | 0 | 11 | No | 0.66 |
| | | | | | | | | | Ice | 1.91 |
| | | | | | | | | | 1/2" | 3.78 |
| | | | | | | | | | Ice | 9.33 |
| | | | | | | | | | 1" Ice | |
| | | | | | | | | | 2" Ice | |

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Feed Line/Linear Appurtenances Section Areas

| Tower Section | Tower Elevation ft | Face | A _R ft ² | A _F ft ² | C _{AA} In Face ft ² | C _{AA} Out Face ft ² | Weight lb |
|---------------|-----------------------|------|-----------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------------|--------------|
| L1 | 100.00-90.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 54.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 281.90 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 1.50 |
| | | D | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| L2 | 90.00-80.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 108.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 281.90 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 68.97 |
| | | D | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| L3 | 80.00-70.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 108.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 281.90 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 136.44 |
| | | D | 0.000 | 0.000 | 0.000 | 0.000 | 78.30 |
| L4 | 70.00-60.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 108.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 281.90 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 203.34 |
| | | D | 0.000 | 0.000 | 0.000 | 0.000 | 156.60 |
| T1 | 60.00-40.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 216.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 563.80 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 540.48 |
| | | D | 0.000 | 0.000 | 0.000 | 0.000 | 313.20 |
| T2 | 40.00-20.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 216.00 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 563.80 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 540.48 |
| | | D | 0.000 | 0.000 | 0.000 | 0.000 | 313.20 |
| T3 | 20.00-0.00 | A | 0.000 | 0.000 | 0.000 | 0.000 | 129.60 |
| | | B | 0.000 | 0.000 | 0.000 | 0.000 | 378.52 |
| | | C | 0.000 | 0.000 | 0.000 | 0.000 | 324.29 |
| | | D | 0.000 | 0.000 | 0.000 | 0.000 | 187.92 |

Feed Line/Linear Appurtenances Section Areas - With Ice

| Tower Section | Tower Elevation ft | Face or Leg | Ice Thickness in | A _R ft ² | A _F ft ² | C _{AA} In Face ft ² | C _{AA} Out Face ft ² | Weight lb |
|---------------|-----------------------|-------------------|------------------------|-----------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------------|--------------|
| L1 | 100.00-90.00 | A | 1.417 | 0.000 | 0.000 | 0.000 | 0.000 | 180.45 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 1625.72 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 39.92 |
| | | D | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| L2 | 90.00-80.00 | A | 1.402 | 0.000 | 0.000 | 0.000 | 0.000 | 357.56 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 1605.83 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 450.00 |
| | | D | | 0.000 | 0.000 | 0.000 | 0.000 | 0.00 |
| L3 | 80.00-70.00 | A | 1.384 | 0.000 | 0.000 | 0.000 | 0.000 | 353.85 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 1583.72 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 847.52 |
| | | D | | 0.000 | 0.000 | 0.000 | 0.000 | 437.67 |
| L4 | 70.00-60.00 | A | 1.364 | 0.000 | 0.000 | 0.000 | 0.000 | 349.66 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 1558.78 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 1144.79 |
| | | D | | 0.000 | 0.000 | 0.000 | 0.000 | 861.30 |
| T1 | 60.00-40.00 | A | 1.329 | 0.000 | 0.000 | 0.000 | 0.000 | 684.28 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 3027.94 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 2827.25 |
| | | D | | 0.000 | 0.000 | 0.000 | 0.000 | 1672.19 |
| T2 | 40.00-20.00 | A | 1.263 | 0.000 | 0.000 | 0.000 | 656.09 | |

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| Tower Section | Tower Elevation ft | Face or Leg | Ice Thickness in | A _R ft ² | A _F ft ² | C _{AA} In Face ft ² | C _{AA} Out Face ft ² | Weight lb |
|---------------|-----------------------|-------------|---------------------|-----------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------------|--------------|
| T3 | 20.00-0.00 | B | 1.132 | 0.000 | 0.000 | 0.000 | 0.000 | 2860.04 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 2664.69 |
| | | D | | 0.000 | 0.000 | 0.000 | 0.000 | 1577.74 |
| | | A | | 0.000 | 0.000 | 0.000 | 0.000 | 360.08 |
| | | B | | 0.000 | 0.000 | 0.000 | 0.000 | 1609.64 |
| | | C | | 0.000 | 0.000 | 0.000 | 0.000 | 1405.20 |
| | | D | | 0.000 | 0.000 | 0.000 | 0.000 | 834.15 |

Feed Line Center of Pressure

| Section | Elevation ft | CP _X in | CP _Z in | CP _X Ice in | CP _Z Ice in |
|---------|-----------------|-----------------------|-----------------------|------------------------------|------------------------------|
| L1 | 100.00-90.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| L2 | 90.00-80.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| L3 | 80.00-70.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| L4 | 70.00-60.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| T1 | 60.00-40.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| T2 | 40.00-20.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| T3 | 20.00-0.00 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

Discrete Tower Loads

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert ft ft ft | Azimuth Adjustment ° | Placement ft | C _{AA} Front ft ² | C _{AA} Side ft ² | Weight lb | |
|---------------------------|-------------|-------------|-------------------------------------------------------|----------------------------|-----------------|---------------------------------------------|--------------------------------------------|--------------|--------|
| SBNHH-1D65A w/ Mount Pipe | A | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 61.30 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 115.03 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 175.35 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 318.84 |
| SBNHH-1D65A w/ Mount Pipe | B | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 61.30 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 115.03 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 175.35 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 318.84 |
| SBNHH-1D65A w/ Mount Pipe | D | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 61.30 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 115.03 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 175.35 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 318.84 |
| DB806-XC | B | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 21.00 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 29.93 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 42.71 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 80.38 |
| ATBT-BOTTOM-24V | A | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 2.87 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 4.02 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 5.94 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 12.91 |
| ATBT-BOTTOM-24V | B | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 2.87 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 4.02 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 5.94 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 12.91 |
| ATBT-BOTTOM-24V | D | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 2.87 |
| | | | | | | | | | |

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| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} Front | C _{AA} Side | Weight |
|------------------------------------|-------------|--------------------|----------|--------|--------------------|-----------|-----------------------|----------------------|--------|
| | | | Horz | Vert | | | | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | lb |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 4.02 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 5.94 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 12.91 |
| (2) ATMAA1412D-1A20 | A | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 13.00 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 20.62 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 30.11 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 55.52 |
| (2) ATMAA1412D-1A20 | B | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 13.00 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 20.62 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 30.11 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 55.52 |
| (2) ATMAA1412D-1A20 | D | From Leg | 1.00 | 0.0000 | 100.00 | No Ice | 0.00 | 0.00 | 13.00 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 20.62 |
| | | | 4.00 | | | 1" Ice | 0.00 | 0.00 | 30.11 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 55.52 |
| BXA-80080/4CF w/ Mount Pipe | A | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 39.85 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 89.34 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 145.14 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 279.30 |
| BXA-80080/4CF w/ Mount Pipe | C | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 39.85 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 89.34 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 145.14 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 279.30 |
| BXA-80080/4CF w/ Mount Pipe | D | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 39.85 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 89.34 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 145.14 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 279.30 |
| (2) JAHH-65B-R3B w/ Mount Pipe | A | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 86.15 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 162.72 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 247.46 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 445.07 |
| (2) JAHH-65B-R3B w/ Mount Pipe | C | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 86.15 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 162.72 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 247.46 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 445.07 |
| (2) JAHH-65B-R3B w/ Mount Pipe | D | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 86.15 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 162.72 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 247.46 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 445.07 |
| BXA-70063-6CF-EDIN-X w/ Mount Pipe | A | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 42.25 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 103.01 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 171.49 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 335.23 |
| BXA-70063-6CF-EDIN-X w/ Mount Pipe | C | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 42.25 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 103.01 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 171.49 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 335.23 |
| BXA-70063-6CF-EDIN-X w/ Mount Pipe | D | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 42.25 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 103.01 |
| | | | 3.00 | | | 1" Ice | 0.00 | 0.00 | 171.49 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 335.23 |
| B25 RRH4x30-4R | A | From Centroid-Le g | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 51.00 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 68.46 |
| | | | 0.00 | | | 1" Ice | 0.00 | 0.00 | 88.75 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 138.59 |
| B25 RRH4x30-4R | C | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 51.00 |
| | | | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 68.46 |

| | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (555) 555-1234 FAX: (555) 555-1235 | Job | BU #: 800529, CT HAMDEN NORTH CAC | Page | 12 of 14 |
| | Project | 2020777.800529.09 | Date | 11:14:27 06/01/20 |
| | Client | Crown Castle | Designed by | KMocka |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} Front | C _{AA} Side | Weight |
|------------------------------|-------------|------------------|----------|---------|--------------------|-----------|-----------------------|----------------------|--------|
| | | | Horz | Lateral | | | | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | lb |
| | | g | 0.00 | | | 1" Ice | 0.00 | 0.00 | 88.75 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 138.59 |
| B25 RRH4x30-4R | D | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 51.00 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 68.46 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 88.75 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 138.59 |
| RFV01U-D2A | A | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 73.00 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 89.43 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 108.53 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 155.50 |
| RFV01U-D2A | C | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 73.00 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 89.43 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 108.53 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 155.50 |
| RFV01U-D2A | D | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 73.00 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 89.43 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 108.53 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 155.50 |
| DB-T1-6Z-8AB-0Z | A | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 44.00 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 80.13 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 120.22 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 213.04 |
| DB-T1-6Z-8AB-0Z | C | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 44.00 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 80.13 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 120.22 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 213.04 |
| B66A RRH4X45-4R | A | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 56.80 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 76.92 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 100.15 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 156.66 |
| B66A RRH4X45-4R | C | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 56.80 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 76.92 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 100.15 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 156.66 |
| B66A RRH4X45-4R | D | From Centroid-Le | 4.00 | 0.0000 | 95.00 | No Ice | 0.00 | 0.00 | 56.80 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 76.92 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 100.15 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 156.66 |
| HPA-65R-BUU-H6 w/ Mount Pipe | A | From Centroid-Le | 4.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 76.55 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 158.03 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 247.79 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 455.80 |
| HPA-65R-BUU-H6 w/ Mount Pipe | C | From Centroid-Le | 4.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 76.55 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 158.03 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 247.79 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 455.80 |
| HPA-65R-BUU-H6 w/ Mount Pipe | D | From Centroid-Le | 4.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 76.55 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 158.03 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 247.79 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 455.80 |
| OPA65R-BU6BA-K w/ Mount Pipe | A | From Centroid-Le | 4.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 55.00 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 107.49 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 166.08 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 302.36 |
| OPA65R-BU6BA-K w/ Mount Pipe | C | From Centroid-Le | 4.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 55.00 |
| | | g | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 107.49 |
| | | | | | | 1" Ice | 0.00 | 0.00 | 166.08 |

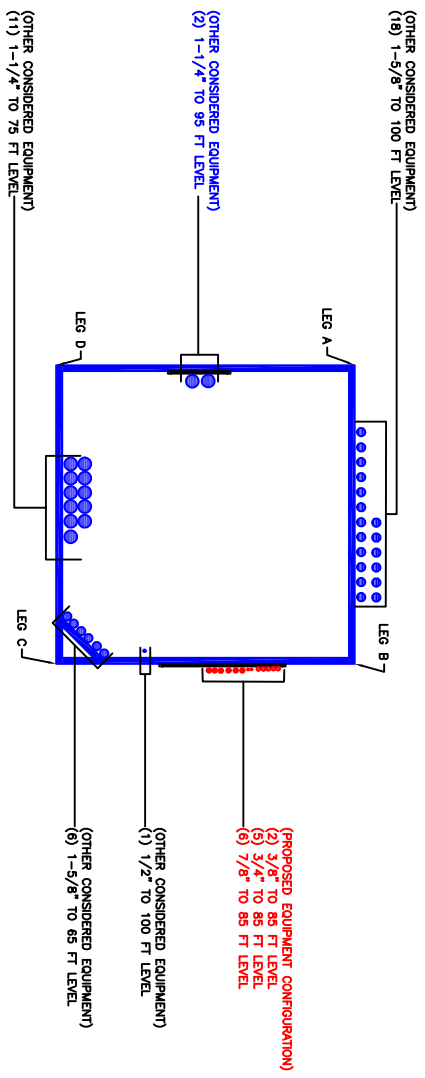
| | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (555) 555-1234 FAX: (555) 555-1235 | Job | BU #: 800529, CT HAMDEN NORTH CAC | Page | 13 of 14 |
| | Project | 2020777.800529.09 | Date | 11:14:27 06/01/20 |
| | Client | Crown Castle | Designed by | KMocka |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} Front | C _{AA} Side | Weight |
|------------------------------|-------------|--------------------|----------|--------|--------------------|-----------|-----------------------|----------------------|--------|
| | | | Horz | Vert | | | | | |
| | | | ft | ft | ° | ft | ft ² | ft ² | lb |
| OPA65R-BU6BA-K w/ Mount Pipe | D | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 302.36 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 55.00 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 107.49 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 166.08 |
| DMP65R-BU6D w/ Mount Pipe | A | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 302.36 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 104.71 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 196.98 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 297.77 |
| DMP65R-BU6D w/ Mount Pipe | C | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 528.51 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 104.71 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 196.98 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 297.77 |
| DMP65R-BU6D w/ Mount Pipe | D | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 528.51 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 104.71 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 196.98 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 297.77 |
| RRUS 32 B2 | A | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 528.51 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 52.90 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 73.96 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 98.21 |
| RRUS 32 B2 | C | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 157.06 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 52.90 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 73.96 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 98.21 |
| RRUS 32 B2 | D | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 157.06 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 52.90 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 73.96 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 98.21 |
| RADIO 4415 B30 | A | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 157.06 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 42.90 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 54.99 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 69.43 |
| RADIO 4415 B30 | C | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 106.12 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 42.90 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 54.99 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 69.43 |
| RADIO 4415 B30 | D | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 106.12 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 42.90 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 54.99 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 69.43 |
| RRUS 4449 B5/B12 | A | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 106.12 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 71.00 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 89.51 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 110.84 |
| RRUS 4449 B5/B12 | C | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 162.74 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 71.00 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 89.51 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 110.84 |
| RRUS 4449 B5/B12 | D | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 162.74 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 71.00 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 89.51 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 110.84 |
| RRUS 4426 B66 | A | From Centroid-Le g | 4.00 | 0.0000 | 85.00 | 2" Ice | 0.00 | 0.00 | 162.74 |
| | | | 0.00 | 0.0000 | | No Ice | 0.00 | 0.00 | 48.40 |
| | | | 0.00 | 0.0000 | | 1/2" Ice | 0.00 | 0.00 | 61.22 |
| | | | 0.00 | 0.0000 | | 1" Ice | 0.00 | 0.00 | 76.43 |
| | | | | | | 2" Ice | 0.00 | 0.00 | 114.82 |

| | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------|--------------------|-------------------|
| tnxTower GPD 520 South Main Street Suite 2531 Akron, Ohio 44311 Phone: (555) 555-1234 FAX: (555) 555-1235 | Job | BU #: 800529, CT HAMDEN NORTH CAC | Page | 14 of 14 |
| | Project | 2020777.800529.09 | Date | 11:14:27 06/01/20 |
| | Client | Crown Castle | Designed by | KMocka |

| Description | Face or Leg | Offset Type | Offsets: | | Azimuth Adjustment | Placement | C _{AA} Front | C _{AA} Side | Weight | |
|----------------------------------------|-------------|--------------------|----------|------|--------------------|-----------|-----------------------|----------------------|--------|--------|
| | | | Horz | Vert | | | | | | |
| | | | Lateral | | ° | ft | ft ² | ft ² | lb | |
| RRUS 4426 B66 | C | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 48.40 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 61.22 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 76.43 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 114.82 |
| RRUS 4426 B66 | D | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 48.40 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 61.22 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 76.43 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 114.82 |
| DC6-48-60-18-8F Surge Suppression Unit | A | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 18.90 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 36.62 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 56.82 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 105.34 |
| DC9-48-60-24-8C-EV | D | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 85.00 | No Ice | 0.00 | 0.00 | 26.20 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 63.27 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 104.42 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 199.74 |
| A-18A24N-U w/ Mount pipe | A | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 75.00 | No Ice | 0.00 | 0.00 | 43.55 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 88.76 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 139.53 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 261.39 |
| A-18A24N-U w/ Mount pipe | D | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 75.00 | No Ice | 0.00 | 0.00 | 43.55 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 88.76 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 139.53 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 261.39 |
| (3) DB844H90E-XY w/ Mount Pipe | A | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 75.00 | No Ice | 0.00 | 0.00 | 43.20 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 90.60 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 144.32 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 274.74 |
| (4) DB844H90E-XY w/ Mount Pipe | B | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 75.00 | No Ice | 0.00 | 0.00 | 43.20 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 90.60 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 144.32 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 274.74 |
| (3) DB844H90E-XY w/ Mount Pipe | D | From Centroid-Le g | 4.00 | 0.00 | 0.0000 | 75.00 | No Ice | 0.00 | 0.00 | 43.20 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 90.60 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 144.32 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 274.74 |
| 742 213 w/ Mount Pipe | A | From Leg | 1.00 | 0.00 | 0.0000 | 65.00 | No Ice | 0.00 | 0.00 | 51.20 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 97.45 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 151.50 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 287.00 |
| 742 213 w/ Mount Pipe | C | From Leg | 1.00 | 0.00 | 0.0000 | 65.00 | No Ice | 0.00 | 0.00 | 51.20 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 97.45 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 151.50 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 287.00 |
| 742 213 w/ Mount Pipe | D | From Leg | 1.00 | 0.00 | 0.0000 | 65.00 | No Ice | 0.00 | 0.00 | 51.20 |
| | | | 0.00 | 0.00 | | | 1/2" Ice | 0.00 | 0.00 | 97.45 |
| | | | 0.00 | 0.00 | | | 1" Ice | 0.00 | 0.00 | 151.50 |
| | | | 0.00 | 0.00 | | | 2" Ice | 0.00 | 0.00 | 287.00 |

APPENDIX B
BASE LEVEL DRAWING



(PROPOSED EQUIPMENT CONFIGURATION)
 (2) 3/8" TO 85 FT LEVEL
 (3) 3/4" TO 85 FT LEVEL
 (6) 7/8" TO 85 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
 (1) 1/2" TO 100 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
 (6) 1-5/8" TO 85 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
 (11) 1-1/4" TO 75 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
 (18) 1-5/8" TO 100 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
 (2) 1-1/4" TO 95 FT LEVEL

| | | |
|-----------|--------------------------------|-----|
| 28/8/2015 | UPDATED PER WORK ORDER 1127105 | SAT |
| 14/04/16 | UPDATED PER WORK ORDER 1231635 | ALU |
| 02/01/16 | UPDATED PER WORK ORDER 1507897 | SMM |
| 16/02/16 | UPDATED PER WORK ORDER 1527135 | EAW |
| 21/03/19 | UPDATED PER WORK ORDER 1700115 | CLM |
| 02/07/19 | UPDATED PER WORK ORDER 1765329 | DM |
| 28/09/19 | UPDATED PER WORK ORDER 1794694 | WJT |
| 27/02/20 | UPDATED PER WORK ORDER 1832795 | NK |
| 29/05/20 | UPDATED PER WORK ORDER 1858825 | LR |

APPENDIX C
ADDITIONAL CALCULATIONS



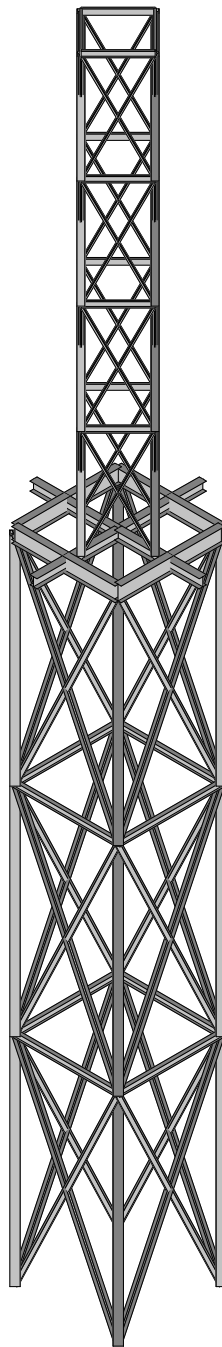
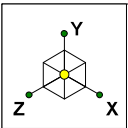
| Structure Information | |
|---------------------------------------------|--------------|
| Structure Type: | Self Support |
| Structure Height: | 108 ft |
| G _h (Mount Gust Effect Factor) = | 1.00 |
| Risk Category: | II |

| Code Specifications | |
|----------------------------------|--------------------|
| IBC Edition: | 2015 |
| TIA/EIA Code: | H |
| Ultimate Wind Speed (No Ice) = | 125 mph (3-s gust) |
| Ultimate Wind Speed (With Ice) = | 50 mph (3-s gust) |
| Ice Thickness | 1.5 in |
| Exposure Category | C |
| Tower Base Elevation (AMSL) | 199 ft |

| Topographic Inputs | |
|----------------------|-----|
| Topographic Feature: | N/A |

| Mount Components | Section Sets | | | | | | User's Wind Multiplier | No Ice | | Ice Output | |
|---------------------|--------------|-------------|---------------------------------|-----------------|-----------------------------------------------|------------------------------------|------------------------|---------------------------|----------------|---------------------------------------------|----------------------------------------------|
| | Member Type | Length (in) | Side (Longest seeing wind) (in) | Other Side (in) | Calculated D _c for ice weight (in) | D _c for ice weight (in) | | Area Type (Round or Flat) | K _a | Normal Wind Pressure (lb/ft ²)* | Normal Ice Wind Force (lb/ft ²)* |
| Top Cap | Pipe | 96,000 | 192 | 192 | 192,000 | 192,000 | Round | 0.90 | 28.85 | 3.29 | 397.88 |
| Tower from 90'-100' | Pipe | 120,000 | 192 | 192 | 192,000 | 192,000 | Round | 0.90 | 28.34 | 3.23 | 394.50 |
| Tower from 80'-90' | Pipe | 120,000 | 192 | 192 | 192,000 | 192,000 | Round | 0.90 | 27.69 | 3.15 | 390.10 |
| Tower from 70'-80' | Pipe | 120,000 | 192 | 192 | 192,000 | 192,000 | Round | 0.90 | 26.97 | 3.07 | 385.20 |
| Tower from 60'-70' | Pipe | 120,000 | 192 | 192 | 192,000 | 192,000 | Round | 0.90 | 26.17 | 2.98 | 379.69 |
| Tower from 40'-60' | Pipe | 240,000 | 192 | 192 | 192,000 | 192,000 | Round | 0.90 | 24.76 | 2.82 | 369.77 |
| Tower from 20'-40' | Pipe | 240,000 | 192 | 192 | 192,000 | 192,000 | Round | 0.90 | 22.23 | 2.53 | 351.22 |
| Tower from 0'-20' | Pipe | 240 | 192 | 192 | 192,000 | 192,000 | Round | 0.90 | 19.24 | 2.18 | 314.43 |

*All forces are unfactored.



Envelope Only Solution

| | | |
|-------------------|-----------------------------------|--------------------------|
| GPD | BU #: 800529, CT HAMDEN NORTH CAC | SK - 1 |
| KM | | June 1, 2020 at 11:10 AM |
| 2020777.800529.09 | | 800529.09.rt3 |

(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? | No |
| Max Iterations for Wall Stiffness | 3 |
| Gravity Acceleration (ft/sec^2) | 32.2 |
| Wall Mesh Size (in) | 24 |
| Eigensolution Convergence Tol. (1.E-) | 4 |
| Vertical Axis | Y |
| Global Member Orientation Plane | XZ |
| Static Solver | Sparse Accelerated |
| Dynamic Solver | Standard Solver |

| | |
|------------------------|----------------------------|
| Hot Rolled Steel Code | AISC 15th(360-16): LRFD |
| Adjust Stiffness? | Yes(Iterative) |
| RISACONNECTION CODE | AISC 14th(360-10): ASD |
| Cold Formed Steel Code | None |
| Wood Code | None |
| Wood Temperature | < 100F |
| Concrete Code | None |
| Masonry Code | ACI 530-13: ASD |
| Aluminum Code | AA ADM1-10: ASD - Building |
| Stainless Steel Code | AISC 14th(360-10): ASD |
| Adjust Stiffness? | Yes(Iterative) |

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

(Global) Model Settings, Continued

| | |
|-----------------------------|-------------|
| Seismic Code | ASCE 7-10 |
| Seismic Base Elevation (ft) | Not Entered |
| Add Base Weight? | Yes |
| Ct X | .02 |
| Ct Z | .02 |
| T X (sec) | Not Entered |
| T Z (sec) | Not Entered |
| R X | 3 |
| R Z | 3 |
| Ct Exp. X | .75 |
| Ct Exp. Z | .75 |
| SD1 | 1 |
| SDS | 1 |
| S1 | 1 |
| TL (sec) | 5 |
| Risk Cat | I or II |
| Drift Cat | Other |
| Om Z | 1 |
| Om X | 1 |
| Cd Z | 1 |
| Cd X | 1 |
| Rho Z | 1 |
| Rho X | 1 |

Hot Rolled Steel Properties

| | Label | E [ksi] | G [ksi] | Nu | Therm (\... | Density[k/ft^3] | Yield[ksi] | Ry | Fu[ksi] | Rt |
|---|---------|---------|---------|-------|-------------|-----------------|------------|-----|---------|-----|
| 1 | A500-46 | 29000 | 11200 | .2946 | .65 | .49 | 46 | 1.2 | 58 | 1.1 |
| 2 | A36 | 29000 | 11200 | .2946 | .65 | .49 | 36 | 1.5 | 58 | 1.2 |
| 3 | A992-50 | 29000 | 11200 | .295 | .65 | .49 | 50 | 1.5 | 65 | 1.2 |

Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design Rul...A [in2] | Iyy [i... lzz [i... J [in4] |
|----|--------------------|----------------|--------|-------------|----------|----------------------|-----------------------------|
| 1 | TWR LEG L1 | HSS6x6x1/4 | Column | None | A500-46 | Typical 5.24 | 28.6 28.6 45.6 |
| 2 | TWR TOP GIRT L1 | C6X10.5 | Beam | None | A36 | Typical 3.07 | .86 15.1 .128 |
| 3 | TWR DIAG L1 | 2L2x2x3/16x1/2 | Column | None | A36 | Typical 1.4297 | 1.5042 .5448 .0168 |
| 4 | TWR LEG L2 | HSS6x6x1/4 | Column | None | A500-46 | Typical 5.24 | 28.6 28.6 45.6 |
| 5 | TWR TOP GIRT L2 | C6X10.5 | Beam | None | A36 | Typical 3.07 | .86 15.1 .128 |
| 6 | TWR DIAG L2 | 2L2x2x3/16x1/2 | Column | None | A36 | Typical 1.4297 | 1.5042 .5448 .0168 |
| 7 | TWR LEG L3 | HSS6x6x1/4 | Column | None | A500-46 | Typical 5.24 | 28.6 28.6 45.6 |
| 8 | TWR TOP GIRT L3 | C6X10.5 | Beam | None | A36 | Typical 3.07 | .86 15.1 .128 |
| 9 | TWR DIAG L3 | 2L2x2x3/16x1/2 | Column | None | A36 | Typical 1.4297 | 1.5042 .5448 .0168 |
| 10 | TWR LEG L4 | HSS6x6x1/4 | Column | None | A500-46 | Typical 5.24 | 28.6 28.6 45.6 |
| 11 | TWR TOP GIRT L4 | C6X10.5 | Beam | None | A36 | Typical 3.07 | .86 15.1 .128 |
| 12 | TWR DIAG L4 | 2L2x2x3/16x1/2 | Column | None | A36 | Typical 1.4297 | 1.5042 .5448 .0168 |
| 13 | TWR LEG T1 | HSS8x8x1/4 | Column | None | A500-46 | Typical 7.1 | 70.7 70.7 111 |
| 14 | TWR TOP GIRT T1 | W16X45 | Beam | None | A992-50 | Typical 13.3 | 32.8 586 1.11 |
| 15 | TWR_INNER_BRACE_T1 | W10X33 | Beam | None | A992-50 | Typical 9.71 | 36.6 171 .583 |
| 16 | TWR DIAG T1 | 2L4x4x3/8x1/2 | Column | None | A36 | Typical 5.7188 | 19.73 .87172 2.681 |
| 17 | TWR LEG T2 | HSS8x8x1/4 | Column | None | A500-46 | Typical 7.1 | 70.7 70.7 111 |
| 18 | TWR TOP GIRT T2 | W6X12 | Beam | None | A992-50 | Typical 3.55 | 2.99 22.1 .0903 |



Hot Rolled Steel Section Sets (Continued)

| | Label | Shape | Type | Design List | Material | Design Rul... | A [in2] | Iyy [i... | Izz [i... | J [in4] |
|----|-----------------|---------------|--------|-------------|----------|---------------|---------|-----------|-----------|---------|
| 19 | TWR DIAG T2 | 2L4x4x3/8x1/2 | Column | None | A36 | Typical | 5.7188 | 19.73... | 8.7172 | .2681 |
| 20 | TWR LEG T3 | HSS8x8x1/4 | Column | None | A500-46 | Typical | 7.1 | 70.7 | 70.7 | 111 |
| 21 | TWR TOP GIRT T3 | W6X12 | Beam | None | A992-50 | Typical | 3.55 | 2.99 | 22.1 | .0903 |
| 22 | TWR DIAG T3 | 2L4x4x3/8x1/2 | Column | None | A36 | Typical | 5.7188 | 19.73... | 8.7172 | .2681 |

Member Primary Data

| | Label | I Joint | J Joint | K Joint | Rotate(de... | Section/Shape | Type | Design ... | Material | Design Rul... |
|----|-------|---------|---------|---------|--------------|---------------|--------|------------|----------|---------------|
| 1 | M9 | N2 | N3 | | | TWR DIAG L1 | Column | None | A36 | Typical |
| 2 | M10 | N4 | N1 | | | TWR DIAG L1 | Column | None | A36 | Typical |
| 3 | M11 | N4 | N5 | | | TWR DIAG L1 | Column | None | A36 | Typical |
| 4 | M12 | N6 | N3 | | | TWR DIAG L1 | Column | None | A36 | Typical |
| 5 | M13 | N6 | N7 | | | TWR DIAG L1 | Column | None | A36 | Typical |
| 6 | M14 | N8 | N5 | | | TWR DIAG L1 | Column | None | A36 | Typical |
| 7 | M15 | N8 | N1 | | | TWR DIAG L1 | Column | None | A36 | Typical |
| 8 | M16 | N2 | N7 | | | TWR DIAG L1 | Column | None | A36 | Typical |
| 9 | M25 | N13 | N4 | | | TWR DIAG L2 | Column | None | A36 | Typical |
| 10 | M26 | N14 | N2 | | | TWR DIAG L2 | Column | None | A36 | Typical |
| 11 | M27 | N14 | N6 | | | TWR DIAG L2 | Column | None | A36 | Typical |
| 12 | M28 | N15 | N4 | | | TWR DIAG L2 | Column | None | A36 | Typical |
| 13 | M29 | N15 | N8 | | | TWR DIAG L2 | Column | None | A36 | Typical |
| 14 | M30 | N16 | N6 | | | TWR DIAG L2 | Column | None | A36 | Typical |
| 15 | M31 | N16 | N2 | | | TWR DIAG L2 | Column | None | A36 | Typical |
| 16 | M32 | N13 | N8 | | | TWR DIAG L2 | Column | None | A36 | Typical |
| 17 | M41 | N21 | N14 | | | TWR DIAG L3 | Column | None | A36 | Typical |
| 18 | M42 | N22 | N13 | | | TWR DIAG L3 | Column | None | A36 | Typical |
| 19 | M43 | N22 | N15 | | | TWR DIAG L3 | Column | None | A36 | Typical |
| 20 | M44 | N23 | N14 | | | TWR DIAG L3 | Column | None | A36 | Typical |
| 21 | M45 | N23 | N16 | | | TWR DIAG L3 | Column | None | A36 | Typical |
| 22 | M46 | N24 | N15 | | | TWR DIAG L3 | Column | None | A36 | Typical |
| 23 | M47 | N24 | N13 | | | TWR DIAG L3 | Column | None | A36 | Typical |
| 24 | M48 | N21 | N16 | | | TWR DIAG L3 | Column | None | A36 | Typical |
| 25 | M57 | N29 | N22 | | | TWR DIAG L4 | Column | None | A36 | Typical |
| 26 | M58 | N30 | N21 | | | TWR DIAG L4 | Column | None | A36 | Typical |
| 27 | M59 | N30 | N23 | | | TWR DIAG L4 | Column | None | A36 | Typical |
| 28 | M60 | N31 | N22 | | | TWR DIAG L4 | Column | None | A36 | Typical |
| 29 | M61 | N31 | N24 | | | TWR DIAG L4 | Column | None | A36 | Typical |
| 30 | M62 | N32 | N23 | | | TWR DIAG L4 | Column | None | A36 | Typical |
| 31 | M63 | N32 | N21 | | | TWR DIAG L4 | Column | None | A36 | Typical |
| 32 | M64 | N29 | N24 | | | TWR DIAG L4 | Column | None | A36 | Typical |
| 33 | M73 | N38 | N39 | | | TWR DIAG T1 | Column | None | A36 | Typical |
| 34 | M74 | N40 | N37 | | | TWR DIAG T1 | Column | None | A36 | Typical |
| 35 | M75 | N40 | N41 | | | TWR DIAG T1 | Column | None | A36 | Typical |
| 36 | M76 | N42 | N39 | | | TWR DIAG T1 | Column | None | A36 | Typical |
| 37 | M77 | N42 | N43 | | | TWR DIAG T1 | Column | None | A36 | Typical |
| 38 | M78 | N44 | N41 | | | TWR DIAG T1 | Column | None | A36 | Typical |
| 39 | M79 | N44 | N37 | | | TWR DIAG T1 | Column | None | A36 | Typical |
| 40 | M80 | N38 | N43 | | | TWR DIAG T1 | Column | None | A36 | Typical |
| 41 | M89 | N49 | N40 | | | TWR DIAG T2 | Column | None | A36 | Typical |
| 42 | M90 | N50 | N38 | | 360 | TWR DIAG T2 | Column | None | A36 | Typical |
| 43 | M91 | N50 | N42 | | | TWR DIAG T2 | Column | None | A36 | Typical |



Company : GPD
 Designer : KM
 Job Number : 2020777.800529.09
 Model Name : BU #: 800529, CT HAMDEN NORTH CAC

June 3, 2020
 4:15 PM
 Checked By: _____

Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(de...) | Section/Shape | Type | Design ... | Material | Design Rul... |
|----|-------|---------|---------|---------|---------------|-----------------|--------|------------|----------|---------------|
| 44 | M92 | N51 | N40 | | 360 | TWR DIAG T2 | Column | None | A36 | Typical |
| 45 | M93 | N51 | N44 | | | TWR DIAG T2 | Column | None | A36 | Typical |
| 46 | M94 | N52 | N42 | | 360 | TWR DIAG T2 | Column | None | A36 | Typical |
| 47 | M95 | N52 | N38 | | | TWR DIAG T2 | Column | None | A36 | Typical |
| 48 | M96 | N49 | N44 | | 360 | TWR DIAG T2 | Column | None | A36 | Typical |
| 49 | M105 | N57 | N50 | | | TWR DIAG T3 | Column | None | A36 | Typical |
| 50 | M106 | N58 | N49 | | | TWR DIAG T3 | Column | None | A36 | Typical |
| 51 | M107 | N58 | N51 | | | TWR DIAG T3 | Column | None | A36 | Typical |
| 52 | M108 | N59 | N50 | | | TWR DIAG T3 | Column | None | A36 | Typical |
| 53 | M109 | N59 | N52 | | | TWR DIAG T3 | Column | None | A36 | Typical |
| 54 | M110 | N60 | N51 | | | TWR DIAG T3 | Column | None | A36 | Typical |
| 55 | M111 | N60 | N49 | | | TWR DIAG T3 | Column | None | A36 | Typical |
| 56 | M112 | N57 | N52 | | | TWR DIAG T3 | Column | None | A36 | Typical |
| 57 | M1 | N2 | N1 | | 45 | TWR LEG L1 | Column | None | A500-46 | Typical |
| 58 | M2 | N4 | N3 | | 135 | TWR LEG L1 | Column | None | A500-46 | Typical |
| 59 | M3 | N6 | N5 | | 225 | TWR LEG L1 | Column | None | A500-46 | Typical |
| 60 | M4 | N8 | N7 | | 315 | TWR LEG L1 | Column | None | A500-46 | Typical |
| 61 | M17 | N13 | N2 | | 45 | TWR LEG L2 | Column | None | A500-46 | Typical |
| 62 | M18 | N14 | N4 | | 135 | TWR LEG L2 | Column | None | A500-46 | Typical |
| 63 | M19 | N15 | N6 | | 225 | TWR LEG L2 | Column | None | A500-46 | Typical |
| 64 | M20 | N16 | N8 | | 315 | TWR LEG L2 | Column | None | A500-46 | Typical |
| 65 | M33 | N21 | N13 | | 45 | TWR LEG L3 | Column | None | A500-46 | Typical |
| 66 | M34 | N22 | N14 | | 135 | TWR LEG L3 | Column | None | A500-46 | Typical |
| 67 | M35 | N23 | N15 | | 225 | TWR LEG L3 | Column | None | A500-46 | Typical |
| 68 | M36 | N24 | N16 | | 315 | TWR LEG L3 | Column | None | A500-46 | Typical |
| 69 | M49 | N29 | N21 | | 45 | TWR LEG L4 | Column | None | A500-46 | Typical |
| 70 | M50 | N30 | N22 | | 135 | TWR LEG L4 | Column | None | A500-46 | Typical |
| 71 | M51 | N31 | N23 | | 225 | TWR LEG L4 | Column | None | A500-46 | Typical |
| 72 | M52 | N32 | N24 | | 315 | TWR LEG L4 | Column | None | A500-46 | Typical |
| 73 | M65 | N38 | N37 | | 45 | TWR LEG T1 | Column | None | A500-46 | Typical |
| 74 | M66 | N40 | N39 | | 135 | TWR LEG T1 | Column | None | A500-46 | Typical |
| 75 | M67 | N42 | N41 | | 225 | TWR LEG T1 | Column | None | A500-46 | Typical |
| 76 | M68 | N44 | N43 | | 315 | TWR LEG T1 | Column | None | A500-46 | Typical |
| 77 | M81 | N49 | N38 | | 45 | TWR LEG T2 | Column | None | A500-46 | Typical |
| 78 | M82 | N50 | N40 | | 135 | TWR LEG T2 | Column | None | A500-46 | Typical |
| 79 | M83 | N51 | N42 | | 225 | TWR LEG T2 | Column | None | A500-46 | Typical |
| 80 | M84 | N52 | N44 | | 315 | TWR LEG T2 | Column | None | A500-46 | Typical |
| 81 | M97 | N57 | N49 | | 45 | TWR LEG T3 | Column | None | A500-46 | Typical |
| 82 | M98 | N58 | N50 | | 135 | TWR LEG T3 | Column | None | A500-46 | Typical |
| 83 | M99 | N59 | N51 | | 225 | TWR LEG T3 | Column | None | A500-46 | Typical |
| 84 | M100 | N60 | N52 | | 315 | TWR LEG T3 | Column | None | A500-46 | Typical |
| 85 | M5 | N1 | N3 | | 180 | TWR_TOP_GIRT_L1 | Beam | None | A36 | Typical |
| 86 | M6 | N3 | N5 | | 180 | TWR_TOP_GIRT_L1 | Beam | None | A36 | Typical |
| 87 | M7 | N5 | N7 | | 180 | TWR_TOP_GIRT_L1 | Beam | None | A36 | Typical |
| 88 | M8 | N7 | N1 | | 180 | TWR_TOP_GIRT_L1 | Beam | None | A36 | Typical |
| 89 | M21 | N2 | N4 | | 180 | TWR_TOP_GIRT_L2 | Beam | None | A36 | Typical |
| 90 | M22 | N4 | N6 | | 180 | TWR_TOP_GIRT_L2 | Beam | None | A36 | Typical |
| 91 | M23 | N6 | N8 | | 180 | TWR_TOP_GIRT_L2 | Beam | None | A36 | Typical |
| 92 | M24 | N8 | N2 | | 180 | TWR_TOP_GIRT_L2 | Beam | None | A36 | Typical |
| 93 | M37 | N13 | N14 | | 180 | TWR_TOP_GIRT_L3 | Beam | None | A36 | Typical |
| 94 | M38 | N14 | N15 | | 180 | TWR_TOP_GIRT_L3 | Beam | None | A36 | Typical |
| 95 | M39 | N15 | N16 | | 180 | TWR_TOP_GIRT_L3 | Beam | None | A36 | Typical |



Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(de...) | Section/Shape | Type | Design ... | Material | Design Rul... |
|-----|-------|---------|---------|---------|---------------|-------------------|------|------------|----------|---------------|
| 96 | M40 | N16 | N13 | | 180 | TWR_TOP_GIRT_L3 | Beam | None | A36 | Typical |
| 97 | M53 | N21 | N22 | | 180 | TWR_TOP_GIRT_L4 | Beam | None | A36 | Typical |
| 98 | M54 | N22 | N23 | | 180 | TWR_TOP_GIRT_L4 | Beam | None | A36 | Typical |
| 99 | M55 | N23 | N24 | | 180 | TWR_TOP_GIRT_L4 | Beam | None | A36 | Typical |
| 100 | M56 | N24 | N21 | | 180 | TWR_TOP_GIRT_L4 | Beam | None | A36 | Typical |
| 101 | M69 | N37 | N39 | | | TWR_TOP_GIRT_T1 | Beam | None | A992-50 | Typical |
| 102 | M70 | N39 | N41 | | | TWR_TOP_GIRT_T1 | Beam | None | A992-50 | Typical |
| 103 | M71 | N41 | N43 | | | TWR_TOP_GIRT_T1 | Beam | None | A992-50 | Typical |
| 104 | M72 | N43 | N37 | | | TWR_TOP_GIRT_T1 | Beam | None | A992-50 | Typical |
| 105 | M85 | N38 | N40 | | 359.9999 | TWR_TOP_GIRT_T2 | Beam | None | A992-50 | Typical |
| 106 | M86 | N40 | N42 | | 359.9999 | TWR_TOP_GIRT_T2 | Beam | None | A992-50 | Typical |
| 107 | M87 | N42 | N44 | | 359.9999 | TWR_TOP_GIRT_T2 | Beam | None | A992-50 | Typical |
| 108 | M88 | N44 | N38 | | 359.9999 | TWR_TOP_GIRT_T2 | Beam | None | A992-50 | Typical |
| 109 | M101 | N49 | N50 | | | TWR_TOP_GIRT_T3 | Beam | None | A992-50 | Typical |
| 110 | M102 | N50 | N51 | | | TWR_TOP_GIRT_T3 | Beam | None | A992-50 | Typical |
| 111 | M103 | N51 | N52 | | | TWR_TOP_GIRT_T3 | Beam | None | A992-50 | Typical |
| 112 | M104 | N52 | N49 | | | TWR_TOP_GIRT_T3 | Beam | None | A992-50 | Typical |
| 113 | M113 | N67 | N65 | | | TWR_INNER_BRAC... | Beam | None | A992-50 | Typical |
| 114 | M114 | N65 | N69 | | | TWR_INNER_BRAC... | Beam | None | A992-50 | Typical |
| 115 | M115 | N66 | N65 | | | TWR_INNER_BRAC... | Beam | None | A992-50 | Typical |
| 116 | M116 | N65 | N68 | | | TWR_INNER_BRAC... | Beam | None | A992-50 | Typical |

Member Advanced Data

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Ratio Opti... | Analysi... | Inactive | Seismic Desi... |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|--------------------|------------|----------|-----------------|
| 1 | M9 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 2 | M10 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 3 | M11 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 4 | M12 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 5 | M13 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 6 | M14 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 7 | M15 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 8 | M16 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 9 | M25 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 10 | M26 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 11 | M27 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 12 | M28 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 13 | M29 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 14 | M30 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 15 | M31 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 16 | M32 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 17 | M41 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 18 | M42 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 19 | M43 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 20 | M44 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 21 | M45 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 22 | M46 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 23 | M47 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 24 | M48 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 25 | M57 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 26 | M58 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |



Company : GPD
 Designer : KM
 Job Number : 2020777.800529.09
 Model Name : BU #: 800529, CT HAMDEN NORTH CAC

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Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Ratio Opti... | Analysi... | Inactive | Seismic Desi... |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|--------------------|------------|----------|-----------------|
| 27 | M59 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 28 | M60 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 29 | M61 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 30 | M62 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 31 | M63 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 32 | M64 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 33 | M73 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 34 | M74 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 35 | M75 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 36 | M76 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 37 | M77 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 38 | M78 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 39 | M79 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 40 | M80 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 41 | M89 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 42 | M90 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 43 | M91 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 44 | M92 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 45 | M93 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 46 | M94 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 47 | M95 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 48 | M96 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 49 | M105 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 50 | M106 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 51 | M107 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 52 | M108 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 53 | M109 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 54 | M110 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 55 | M111 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 56 | M112 | BenPIN | BenPIN | | | | Yes | ** NA ** | | | None |
| 57 | M1 | | | | | | Yes | ** NA ** | | | None |
| 58 | M2 | | | | | | Yes | ** NA ** | | | None |
| 59 | M3 | | | | | | Yes | ** NA ** | | | None |
| 60 | M4 | | | | | | Yes | ** NA ** | | | None |
| 61 | M17 | | | | | | Yes | ** NA ** | | | None |
| 62 | M18 | | | | | | Yes | ** NA ** | | | None |
| 63 | M19 | | | | | | Yes | ** NA ** | | | None |
| 64 | M20 | | | | | | Yes | ** NA ** | | | None |
| 65 | M33 | | | | | | Yes | ** NA ** | | | None |
| 66 | M34 | | | | | | Yes | ** NA ** | | | None |
| 67 | M35 | | | | | | Yes | ** NA ** | | | None |
| 68 | M36 | | | | | | Yes | ** NA ** | | | None |
| 69 | M49 | BenPIN | | | | | Yes | ** NA ** | | | None |
| 70 | M50 | BenPIN | | | | | Yes | ** NA ** | | | None |
| 71 | M51 | BenPIN | | | | | Yes | ** NA ** | | | None |
| 72 | M52 | BenPIN | | | | | Yes | ** NA ** | | | None |
| 73 | M65 | | | | | | Yes | ** NA ** | | | None |
| 74 | M66 | | | | | | Yes | ** NA ** | | | None |
| 75 | M67 | | | | | | Yes | ** NA ** | | | None |
| 76 | M68 | | | | | | Yes | ** NA ** | | | None |
| 77 | M81 | | | | | | Yes | ** NA ** | | | None |
| 78 | M82 | | | | | | Yes | ** NA ** | | | None |



Member Advanced Data (Continued)

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Ratio Opti... | Analsi... | Inactive | Seismic Desi... |
|-----|-------|-----------|-----------|--------------|--------------|----------|----------|--------------------|-----------|----------|-----------------|
| 79 | M83 | | | | | | Yes | ** NA ** | | | None |
| 80 | M84 | | | | | | Yes | ** NA ** | | | None |
| 81 | M97 | | | | | | Yes | ** NA ** | | | None |
| 82 | M98 | | | | | | Yes | ** NA ** | | | None |
| 83 | M99 | | | | | | Yes | ** NA ** | | | None |
| 84 | M100 | | | | | | Yes | ** NA ** | | | None |
| 85 | M5 | BenPIN | BenPIN | | | | Yes | | | | None |
| 86 | M6 | BenPIN | BenPIN | | | | Yes | | | | None |
| 87 | M7 | BenPIN | BenPIN | | | | Yes | | | | None |
| 88 | M8 | BenPIN | BenPIN | | | | Yes | | | | None |
| 89 | M21 | BenPIN | BenPIN | | | | Yes | | | | None |
| 90 | M22 | BenPIN | BenPIN | | | | Yes | | | | None |
| 91 | M23 | BenPIN | BenPIN | | | | Yes | | | | None |
| 92 | M24 | BenPIN | BenPIN | | | | Yes | | | | None |
| 93 | M37 | BenPIN | BenPIN | | | | Yes | | | | None |
| 94 | M38 | BenPIN | BenPIN | | | | Yes | | | | None |
| 95 | M39 | BenPIN | BenPIN | | | | Yes | | | | None |
| 96 | M40 | BenPIN | BenPIN | | | | Yes | | | | None |
| 97 | M53 | BenPIN | BenPIN | | | | Yes | | | | None |
| 98 | M54 | BenPIN | BenPIN | | | | Yes | | | | None |
| 99 | M55 | BenPIN | BenPIN | | | | Yes | | | | None |
| 100 | M56 | BenPIN | BenPIN | | | | Yes | | | | None |
| 101 | M69 | BenPIN | BenPIN | | | | Yes | | | | None |
| 102 | M70 | BenPIN | BenPIN | | | | Yes | | | | None |
| 103 | M71 | BenPIN | BenPIN | | | | Yes | | | | None |
| 104 | M72 | BenPIN | BenPIN | | | | Yes | | | | None |
| 105 | M85 | BenPIN | BenPIN | | | | Yes | | | | None |
| 106 | M86 | BenPIN | BenPIN | | | | Yes | | | | None |
| 107 | M87 | BenPIN | BenPIN | | | | Yes | | | | None |
| 108 | M88 | BenPIN | BenPIN | | | | Yes | | | | None |
| 109 | M101 | BenPIN | BenPIN | | | | Yes | | | | None |
| 110 | M102 | BenPIN | BenPIN | | | | Yes | | | | None |
| 111 | M103 | BenPIN | BenPIN | | | | Yes | | | | None |
| 112 | M104 | BenPIN | BenPIN | | | | Yes | | | | None |
| 113 | M113 | BenPIN | | | | | Yes | | | | None |
| 114 | M114 | | BenPIN | | | | Yes | | | | None |
| 115 | M115 | BenPIN | | | | | Yes | | | | None |
| 116 | M116 | | BenPIN | | | | Yes | | | | None |

Hot Rolled Steel Design Parameters

| | Label | Shape | Length[ft] | Lbyy[ft] | Lbzz[ft] | Lcomp to.. | Lcomp bo.. | L-torq... | Kyy | Kzz | Cb | Func... |
|---|-------|-------------|------------|----------|----------|------------|------------|-----------|-----|-----|----|---------|
| 1 | M9 | TWR DIAG L1 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 2 | M10 | TWR DIAG L1 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 3 | M11 | TWR DIAG L1 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 4 | M12 | TWR DIAG L1 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 5 | M13 | TWR DIAG L1 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 6 | M14 | TWR DIAG L1 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 7 | M15 | TWR DIAG L1 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 8 | M16 | TWR DIAG L1 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 9 | M25 | TWR DIAG L2 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |



Company : GPD
 Designer : KM
 Job Number : 2020777.800529.09
 Model Name : BU #: 800529, CT HAMDEN NORTH CAC

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Hot Rolled Steel Design Parameters (Continued)

| | Label | Shape | Length[ft] | Lbyy[ft] | Lbzz[ft] | Lcomp to.. | Lcomp bo.. | L-torq... | Kyy | Kzz | Cb | Func... |
|----|-------|-------------|------------|----------|----------|------------|------------|-----------|------|-----|----|---------|
| 10 | M26 | TWR DIAG L2 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 11 | M27 | TWR DIAG L2 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 12 | M28 | TWR DIAG L2 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 13 | M29 | TWR DIAG L2 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 14 | M30 | TWR DIAG L2 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 15 | M31 | TWR DIAG L2 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 16 | M32 | TWR DIAG L2 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 17 | M41 | TWR DIAG L3 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 18 | M42 | TWR DIAG L3 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 19 | M43 | TWR DIAG L3 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 20 | M44 | TWR DIAG L3 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 21 | M45 | TWR DIAG L3 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 22 | M46 | TWR DIAG L3 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 23 | M47 | TWR DIAG L3 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 24 | M48 | TWR DIAG L3 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 25 | M57 | TWR DIAG L4 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 26 | M58 | TWR DIAG L4 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 27 | M59 | TWR DIAG L4 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 28 | M60 | TWR DIAG L4 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 29 | M61 | TWR DIAG L4 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 30 | M62 | TWR DIAG L4 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 31 | M63 | TWR DIAG L4 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 32 | M64 | TWR DIAG L4 | 11.1068 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.3 | 1 | | Lateral |
| 33 | M73 | TWR DIAG T1 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 34 | M74 | TWR DIAG T1 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 35 | M75 | TWR DIAG T1 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 36 | M76 | TWR DIAG T1 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 37 | M77 | TWR DIAG T1 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 38 | M78 | TWR DIAG T1 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 39 | M79 | TWR DIAG T1 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 40 | M80 | TWR DIAG T1 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 41 | M89 | TWR DIAG T2 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 42 | M90 | TWR DIAG T2 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 43 | M91 | TWR DIAG T2 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 44 | M92 | TWR DIAG T2 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 45 | M93 | TWR DIAG T2 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 46 | M94 | TWR DIAG T2 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 47 | M95 | TWR DIAG T2 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 48 | M96 | TWR DIAG T2 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 49 | M105 | TWR DIAG T3 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 50 | M106 | TWR DIAG T3 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 51 | M107 | TWR DIAG T3 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 52 | M108 | TWR DIAG T3 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 53 | M109 | TWR DIAG T3 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 54 | M110 | TWR DIAG T3 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 55 | M111 | TWR DIAG T3 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 56 | M112 | TWR DIAG T3 | 22.1505 | 10.02 | 10.02 | 10.02 | 10.02 | 10.02 | 1.25 | 1 | | Lateral |
| 57 | M1 | TWR LEG L1 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 58 | M2 | TWR LEG L1 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 59 | M3 | TWR LEG L1 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 60 | M4 | TWR LEG L1 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 61 | M17 | TWR LEG L2 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |



Company : GPD
 Designer : KM
 Job Number : 2020777.800529.09
 Model Name : BU #: 800529, CT HAMDEN NORTH CAC

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 Checked By: _____

Hot Rolled Steel Design Parameters (Continued)

| | Label | Shape | Length[ft] | Lbyy[ft] | Lbzz[ft] | Lcomp to.. | Lcomp bo.. | L-torq... | Kyy | Kzz | Cb | Func... |
|-----|-------|--------------------|------------|----------|----------|------------|------------|-----------|-----|-----|----|---------|
| 62 | M18 | TWR LEG L2 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 63 | M19 | TWR LEG L2 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 64 | M20 | TWR LEG L2 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 65 | M33 | TWR LEG L3 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 66 | M34 | TWR LEG L3 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 67 | M35 | TWR LEG L3 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 68 | M36 | TWR LEG L3 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 69 | M49 | TWR LEG L4 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 70 | M50 | TWR LEG L4 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 71 | M51 | TWR LEG L4 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 72 | M52 | TWR LEG L4 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1 | | Lateral |
| 73 | M65 | TWR LEG T1 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 74 | M66 | TWR LEG T1 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 75 | M67 | TWR LEG T1 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 76 | M68 | TWR LEG T1 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 77 | M81 | TWR LEG T2 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 78 | M82 | TWR LEG T2 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 79 | M83 | TWR LEG T2 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 80 | M84 | TWR LEG T2 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 81 | M97 | TWR LEG T3 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 82 | M98 | TWR LEG T3 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 83 | M99 | TWR LEG T3 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 84 | M100 | TWR LEG T3 | 20 | 20 | 20 | 20 | 20 | 20 | 1 | 1 | | Lateral |
| 85 | M5 | TWR TOP GIRT L1 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 86 | M6 | TWR TOP GIRT L1 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 87 | M7 | TWR TOP GIRT L1 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 88 | M8 | TWR TOP GIRT L1 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 89 | M21 | TWR TOP GIRT L2 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 90 | M22 | TWR TOP GIRT L2 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 91 | M23 | TWR TOP GIRT L2 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 92 | M24 | TWR TOP GIRT L2 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 93 | M37 | TWR TOP GIRT L3 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 94 | M38 | TWR TOP GIRT L3 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 95 | M39 | TWR TOP GIRT L3 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 96 | M40 | TWR TOP GIRT L3 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 97 | M53 | TWR TOP GIRT L4 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 98 | M54 | TWR TOP GIRT L4 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 99 | M55 | TWR TOP GIRT L4 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 100 | M56 | TWR TOP GIRT L4 | 4.8333 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 1 | 1 | | Lateral |
| 101 | M69 | TWR TOP GIRT T1 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 102 | M70 | TWR TOP GIRT T1 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 103 | M71 | TWR TOP GIRT T1 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 104 | M72 | TWR TOP GIRT T1 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 105 | M85 | TWR TOP GIRT T2 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 106 | M86 | TWR TOP GIRT T2 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 107 | M87 | TWR TOP GIRT T2 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 108 | M88 | TWR TOP GIRT T2 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 109 | M101 | TWR TOP GIRT T3 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 110 | M102 | TWR TOP GIRT T3 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 111 | M103 | TWR TOP GIRT T3 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 112 | M104 | TWR TOP GIRT T3 | 9.5208 | 8.85 | 8.85 | 8.85 | 8.85 | 8.85 | 1 | 1 | | Lateral |
| 113 | M113 | TWR_INNER_BRACE_T1 | 7.8125 | 7.813 | 7.813 | 7.813 | 7.813 | 7.813 | 2.1 | 2.1 | | Lateral |



Hot Rolled Steel Design Parameters (Continued)

| | Label | Shape | Length[ft] | Lby[ft] | Lbzz[ft] | Lcomp to... | Lcomp bo... | L-torq... | Kyy | Kzz | Cb | Func... |
|-----|-------|--------------------|------------|---------|----------|-------------|-------------|-----------|-----|-----|----|---------|
| 114 | M114 | TWR_INNER_BRACE_T1 | 7.8125 | 7.813 | 7.813 | 7.813 | 7.813 | 7.813 | 2.1 | 2.1 | | Lateral |
| 115 | M115 | TWR_INNER_BRACE_T1 | 7.8125 | 7.813 | 7.813 | 7.813 | 7.813 | 7.813 | 2.1 | 2.1 | | Lateral |
| 116 | M116 | TWR_INNER_BRACE_T1 | 7.8125 | 7.813 | 7.813 | 7.813 | 7.813 | 7.813 | 2.1 | 2.1 | | Lateral |

Basic Load Cases

| | BLC Description | Category | X Gra... | Y Gravity | Z Grav... | Joint | Point | Distrib... | Area(Mem... | Surface(Plate/Wall) |
|----|-----------------------------|----------|----------|-----------|-----------|-------|-------|------------|-------------|---------------------|
| 1 | Dead | DL | | -1 | | 56 | 244 | 60 | 4 | |
| 2 | No Ice Wind 0° | None | | | | 64 | | | | |
| 3 | No Ice Wind 45° | None | | | | 128 | | | | |
| 4 | No Ice Wind 90° | None | | | | | | | | |
| 5 | No Ice Wind 135° | None | | | | | | | | |
| 6 | No Ice Wind 180° | None | | | | | | | | |
| 7 | No Ice Wind 225° | None | | | | | | | | |
| 8 | No Ice Wind 270° | None | | | | | | | | |
| 9 | No Ice Wind 315° | None | | | | | | | | |
| 10 | Ice Weight | IL | | | | 56 | 244 | 172 | | |
| 11 | Ice Wind 0° | None | | | | 64 | | | | |
| 12 | Ice Wind 45° | None | | | | 128 | | | | |
| 13 | Ice Wind 90° | None | | | | | | | | |
| 14 | Ice Wind 135° | None | | | | | | | | |
| 15 | Ice Wind 180° | None | | | | | | | | |
| 16 | Ice Wind 225° | None | | | | | | | | |
| 17 | Ice Wind 270° | None | | | | | | | | |
| 18 | Ice Wind 315° | None | | | | | | | | |
| 19 | Live | LL | | | | | | | 4 | |
| 20 | Roof Live | RLL | | | | | | | | |
| 21 | Snow | SL | | | | | | | | |
| 22 | BLC 1 Transient Area Loads | None | | | | | | 96 | | |
| 23 | BLC 19 Transient Area Loads | None | | | | | | 96 | | |

Load Combinations

| | Description | Solve | PDe... | SR... | BLC Factor | BLC Fa... | B...Fa... | B...Fa... | B...Fa... | B...Fa... | B...Fa... | B...Fa... | B...Fa... | B...Fa... | B...Fa... | B...Fa... |
|----|------------------------------------|-------|--------|-------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | 1.4 DL | Yes | Y | | DL | 1.4 | | | | | | | | | | |
| 2 | 1.2 DL + 1.6 LL + 0.5 RLL | Yes | Y | | DL | 1.2 | LL | 1.6 | R... | .5 | | | | | | |
| 3 | 1.2 DL + 1.6 LL + 0.5 SL + 0.2 Ice | Yes | Y | | DL | 1.2 | LL | 1.6 | SL | .5 | | IL | .2 | | | |
| 4 | 1.2 DL + 1 LL + 1.6 RLL | Yes | Y | | DL | 1.2 | LL | 1 | R... | 1.6 | | | | | | |
| 5 | 1.2 DL + 1 LL + 1.6 SL | Yes | Y | | DL | 1.2 | LL | 1 | SL | 1.6 | | | | | | |
| 6 | 1.2 DL + 1.6 RLL + 0.5 W @ 0° | Yes | Y | | DL | 1.2 | | | R... | 1.6 | 2 | .5 | | | | |
| 7 | 1.2 DL + 1.6 SL + 0.5 W @ 0° | Yes | Y | | DL | 1.2 | | | SL | 1.6 | 2 | .5 | | | | |
| 8 | 1.2 DL + 1 LL + 0.5 RLL + 1 W ... | Yes | Y | | DL | 1.2 | LL | 1 | R... | .5 | 2 | 1 | | | | |
| 9 | 1.2 DL + 1 LL + 0.5 SL + 1 W @... | Yes | Y | | DL | 1.2 | LL | 1 | SL | .5 | 2 | 1 | | | | |
| 10 | 0.9 DL + 1 W @ 0° | Yes | Y | | DL | .9 | | | | | 2 | 1 | | | | |
| 11 | 1.2 DL + 1.6 RLL + 0.5 W @ 45° | Yes | Y | | DL | 1.2 | | | R... | 1.6 | 3 | .5 | | | | |
| 12 | 1.2 DL + 1.6 SL + 0.5 W @ 45° | Yes | Y | | DL | 1.2 | | | SL | 1.6 | 3 | .5 | | | | |
| 13 | 1.2 DL + 1 LL + 0.5 RLL + 1 W ... | Yes | Y | | DL | 1.2 | LL | 1 | R... | .5 | 3 | 1 | | | | |
| 14 | 1.2 DL + 1 LL + 0.5 SL + 1 W @... | Yes | Y | | DL | 1.2 | LL | 1 | SL | .5 | 3 | 1 | | | | |
| 15 | 0.9 DL + 1 W @ 45° | Yes | Y | | DL | .9 | | | | | 3 | 1 | | | | |
| 16 | 1.2 DL + 1.6 RLL + 0.5 W @ 90° | Yes | Y | | DL | 1.2 | | | R... | 1.6 | 4 | .5 | | | | |
| 17 | 1.2 DL + 1.6 SL + 0.5 W @ 90° | Yes | Y | | DL | 1.2 | | | SL | 1.6 | 4 | .5 | | | | |



Load Combinations (Continued)

| | Description | Solve | PDe | SR | BLC Factor | BLC Fa | B...B... | Fa...B... | Fa...B... | Fa...B... | Fa...B... | Fa...B... | Fa...B... | Fa...B... | Fa...B... | Fa...B... | Fa...B... |
|----|-------------------------------------|-------|-----|----|------------|--------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 18 | 1.2 DL + 1 LL + 0.5 RLL + 1 W ... | Yes | Y | | DL 1.2 | LL 1 | R... | .5 | 4 | 1 | | | | | | | |
| 19 | 1.2 DL + 1 LL + 0.5 SL + 1 W @... | Yes | Y | | DL 1.2 | LL 1 | SL | .5 | 4 | 1 | | | | | | | |
| 20 | 0.9 DL + 1 W @ 90° | Yes | Y | | DL .9 | | | | 4 | 1 | | | | | | | |
| 21 | 1.2 DL + 1.6 RLL + 0.5 W @ 135° | Yes | Y | | DL 1.2 | | R.. | 1.6 | 5 | .5 | | | | | | | |
| 22 | 1.2 DL + 1.6 SL + 0.5 W @ 135° | Yes | Y | | DL 1.2 | | SL | 1.6 | 5 | .5 | | | | | | | |
| 23 | 1.2 DL + 1 LL + 0.5 RLL + 1 W ... | Yes | Y | | DL 1.2 | LL 1 | R.. | .5 | 5 | 1 | | | | | | | |
| 24 | 1.2 DL + 1 LL + 0.5 SL + 1 W @... | Yes | Y | | DL 1.2 | LL 1 | SL | .5 | 5 | 1 | | | | | | | |
| 25 | 0.9 DL + 1 W @ 135° | Yes | Y | | DL .9 | | | | 5 | 1 | | | | | | | |
| 26 | 1.2 DL + 1.6 RLL + 0.5 W @ 180° | Yes | Y | | DL 1.2 | | R.. | 1.6 | 6 | .5 | | | | | | | |
| 27 | 1.2 DL + 1.6 SL + 0.5 W @ 180° | Yes | Y | | DL 1.2 | | SL | 1.6 | 6 | .5 | | | | | | | |
| 28 | 1.2 DL + 1 LL + 0.5 RLL + 1 W ... | Yes | Y | | DL 1.2 | LL 1 | R.. | .5 | 6 | 1 | | | | | | | |
| 29 | 1.2 DL + 1 LL + 0.5 SL + 1 W @... | Yes | Y | | DL 1.2 | LL 1 | SL | .5 | 6 | 1 | | | | | | | |
| 30 | 0.9 DL + 1 W @ 180° | Yes | Y | | DL .9 | | | | 6 | 1 | | | | | | | |
| 31 | 1.2 DL + 1.6 RLL + 0.5 W @ 225° | Yes | Y | | DL 1.2 | | R.. | 1.6 | 7 | .5 | | | | | | | |
| 32 | 1.2 DL + 1.6 SL + 0.5 W @ 225° | Yes | Y | | DL 1.2 | | SL | 1.6 | 7 | .5 | | | | | | | |
| 33 | 1.2 DL + 1 LL + 0.5 RLL + 1 W ... | Yes | Y | | DL 1.2 | LL 1 | R.. | .5 | 7 | 1 | | | | | | | |
| 34 | 1.2 DL + 1 LL + 0.5 SL + 1 W @... | Yes | Y | | DL 1.2 | LL 1 | SL | .5 | 7 | 1 | | | | | | | |
| 35 | 0.9 DL + 1 W @ 225° | Yes | Y | | DL .9 | | | | 7 | 1 | | | | | | | |
| 36 | 1.2 DL + 1.6 RLL + 0.5 W @ 270° | Yes | Y | | DL 1.2 | | R.. | 1.6 | 8 | .5 | | | | | | | |
| 37 | 1.2 DL + 1.6 SL + 0.5 W @ 270° | Yes | Y | | DL 1.2 | | SL | 1.6 | 8 | .5 | | | | | | | |
| 38 | 1.2 DL + 1 LL + 0.5 RLL + 1 W ... | Yes | Y | | DL 1.2 | LL 1 | R.. | .5 | 8 | 1 | | | | | | | |
| 39 | 1.2 DL + 1 LL + 0.5 SL + 1 W @... | Yes | Y | | DL 1.2 | LL 1 | SL | .5 | 8 | 1 | | | | | | | |
| 40 | 0.9 DL + 1 W @ 270° | Yes | Y | | DL .9 | | | | 8 | 1 | | | | | | | |
| 41 | 1.2 DL + 1.6 RLL + 0.5 W @ 315° | Yes | Y | | DL 1.2 | | R.. | 1.6 | 9 | .5 | | | | | | | |
| 42 | 1.2 DL + 1.6 SL + 0.5 W @ 315° | Yes | Y | | DL 1.2 | | SL | 1.6 | 9 | .5 | | | | | | | |
| 43 | 1.2 DL + 1 LL + 0.5 RLL + 1 W ... | Yes | Y | | DL 1.2 | LL 1 | R.. | .5 | 9 | 1 | | | | | | | |
| 44 | 1.2 DL + 1 LL + 0.5 SL + 1 W @... | Yes | Y | | DL 1.2 | LL 1 | SL | .5 | 9 | 1 | | | | | | | |
| 45 | 0.9 DL + 1 W @ 315° | Yes | Y | | DL .9 | | | | 9 | 1 | | | | | | | |
| 46 | 1.2 DL + 1 Ice + 0.5 SL + 1 Ice ... | Yes | Y | | DL 1.2 | IL 1 | SL | .5 | 11 | 1 | | 1 | | | | | |
| 47 | 0.9 DL + 1 Ice + 1 Ice W @ 0° +... | Yes | Y | | DL .9 | IL 1 | | | 11 | 1 | | 1 | | | | | |
| 48 | 1.2 DL + 1 Ice + 0.5 SL + 1 Ice ... | Yes | Y | | DL 1.2 | IL 1 | SL | .5 | 12 | 1 | | 1 | | | | | |
| 49 | 0.9 DL + 1 Ice + 1 Ice W @ 45° ... | Yes | Y | | DL .9 | IL 1 | | | 12 | 1 | | 1 | | | | | |
| 50 | 1.2 DL + 1 Ice + 0.5 SL + 1 Ice ... | Yes | Y | | DL 1.2 | IL 1 | SL | .5 | 13 | 1 | | 1 | | | | | |
| 51 | 0.9 DL + 1 Ice + 1 Ice W @ 90° ... | Yes | Y | | DL .9 | IL 1 | | | 13 | 1 | | 1 | | | | | |
| 52 | 1.2 DL + 1 Ice + 0.5 SL + 1 Ice ... | Yes | Y | | DL 1.2 | IL 1 | SL | .5 | 14 | 1 | | 1 | | | | | |
| 53 | 0.9 DL + 1 Ice + 1 Ice W @ 135°... | Yes | Y | | DL .9 | IL 1 | | | 14 | 1 | | 1 | | | | | |
| 54 | 1.2 DL + 1 Ice + 0.5 SL + 1 Ice ... | Yes | Y | | DL 1.2 | IL 1 | SL | .5 | 15 | 1 | | 1 | | | | | |
| 55 | 0.9 DL + 1 Ice + 1 Ice W @ 180°... | Yes | Y | | DL .9 | IL 1 | | | 15 | 1 | | 1 | | | | | |
| 56 | 1.2 DL + 1 Ice + 0.5 SL + 1 Ice ... | Yes | Y | | DL 1.2 | IL 1 | SL | .5 | 16 | 1 | | 1 | | | | | |
| 57 | 0.9 DL + 1 Ice + 1 Ice W @ 225°... | Yes | Y | | DL .9 | IL 1 | | | 16 | 1 | | 1 | | | | | |
| 58 | 1.2 DL + 1 Ice + 0.5 SL + 1 Ice ... | Yes | Y | | DL 1.2 | IL 1 | SL | .5 | 17 | 1 | | 1 | | | | | |
| 59 | 0.9 DL + 1 Ice + 1 Ice W @ 270°... | Yes | Y | | DL .9 | IL 1 | | | 17 | 1 | | 1 | | | | | |
| 60 | 1.2 DL + 1 Ice + 0.5 SL + 1 Ice ... | Yes | Y | | DL 1.2 | IL 1 | SL | .5 | 18 | 1 | | 1 | | | | | |
| 61 | 0.9 DL + 1 Ice + 1 Ice W @ 315°... | Yes | Y | | DL .9 | IL 1 | | | 18 | 1 | | 1 | | | | | |

Envelope Joint Reactions

| | Joint | | X [k] | LC | Y [k] | LC | Z [k] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|---|-------|-----|--------|----|---------|----|--------|----|-----------|----|-----------|----|-----------|----|
| 1 | N57 | max | 5.514 | 14 | 26.952 | 48 | 11.524 | 10 | 0 | 61 | 0 | 45 | 0 | 61 |
| 2 | | min | -6.346 | 10 | -81.028 | 10 | -2.964 | 50 | 0 | 1 | 0 | 13 | 0 | 1 |
| 3 | N58 | max | -1.137 | 45 | 142.984 | 14 | -1.187 | 45 | 0 | 61 | 0 | 15 | 0 | 61 |



Company : GPD
 Designer : KM
 Job Number : 2020777.800529.09
 Model Name : BU #: 800529, CT HAMDEN NORTH CAC

June 3, 2020
 4:15 PM
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Envelope Joint Reactions (Continued)

| Joint | | X [k] | LC | Y [k] | LC | Z [k] | LC | MX [k-ft] | LC | MY [k-ft] | LC | MZ [k-ft] | LC |
|-------|---------|-------------|----|---------|----|---------|----|-----------|----|-----------|----|-----------|----|
| 4 | | min -15.843 | 13 | 9.957 | 20 | -15.906 | 13 | 0 | 1 | 0 | 8 | 0 | 1 |
| 5 | N59 | max 2.506 | 15 | 105.578 | 9 | 14.47 | 9 | 0 | 61 | 0 | 14 | 0 | 61 |
| 6 | | min -9.095 | 8 | 9.789 | 20 | 1.187 | 20 | 0 | 1 | 0 | 20 | 0 | 1 |
| 7 | N60 | max 3.209 | 60 | 24.597 | 60 | 2.964 | 60 | 0 | 61 | 0 | 9 | 0 | 61 |
| 8 | | min -13.14 | 15 | -118.77 | 15 | -13.19 | 15 | 0 | 1 | 0 | 20 | 0 | 1 |
| 9 | Totals: | max 0 | 61 | 114.667 | 60 | 0 | 61 | | | | | | |
| 10 | | min -29.647 | 8 | 37.717 | 10 | -20.964 | 13 | | | | | | |

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

| Member | Shape | Code Check | Loc[ft] | LC | Shear | Loc..Dir | LC | phi* | phi* | phi* | phi* | Cb | Eqn | | |
|--------|-------|----------------|---------|--------|-------|----------|--------|------|------|--------|--------|--------|--------|---|---------|
| 1 | M70 | W16X45 | .494 | 4.76 | 9 | .144 | 9.5... | y | 9 | 425.. | 598.. | 54.... | 273.. | 1 | H1-1b |
| 2 | M69 | W16X45 | .423 | 4.76 | 14 | .111 | 0 | y | 14 | 425.. | 598.. | 54.... | 273.. | 1 | H1-1b |
| 3 | M115 | W10X33 | .419 | 4.395 | 9 | .522 | 3.0... | y | 9 | 205.. | 436.. | 52.5 | 142.. | 1 | H1-1b |
| 4 | M98 | HSS8x8x 1/4 | .392 | 20 | 14 | .000 | 0 | y | 15 | 199.. | 293.. | 66.... | 66.... | 1 | H1-1a |
| 5 | M72 | W16X45 | .391 | 4.76 | 10 | .100 | 4.76 | y | 10 | 425.. | 598.. | 54.... | 273.. | 1 | H1-1b |
| 6 | M107 | 2L4x4x3/8x1/2 | .338 | 5.999 | 14 | .002 | 11.... | y | 46 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1a |
| 7 | M106 | 2L4x4x3/8x1/2 | .337 | 5.999 | 14 | .002 | 11.... | y | 60 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1a |
| 8 | M113 | W10X33 | .329 | 4.395 | 14 | .403 | 3.0... | y | 14 | 205.. | 436.. | 52.5 | 142.. | 1 | H1-1b |
| 9 | M116 | W10X33 | .319 | 3.418 | 10 | .394 | 3.4... | y | 10 | 205.. | 436.. | 52.5 | 142.. | 1 | H1-1b |
| 10 | M61 | 2L2x2x3/16x1/2 | .318 | 5.553 | 14 | .004 | 5.5... | y | 10 | 29.... | 46.... | 2.8... | 1.64 | 1 | H1-1a |
| 11 | M108 | 2L4x4x3/8x1/2 | .317 | 11.075 | 9 | .002 | 11.... | y | 48 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1a |
| 12 | M71 | W16X45 | .317 | 4.76 | 15 | .068 | 4.76 | y | 15 | 425.. | 598.. | 54.... | 273.. | 1 | H1-1b |
| 13 | M58 | 2L2x2x3/16x1/2 | .316 | 5.553 | 14 | .003 | 0 | y | 9 | 29.... | 46.... | 2.8... | 1.64 | 1 | H1-1a |
| 14 | M104 | W6X12 | .308 | 4.76 | 10 | .003 | 9.5... | y | 48 | 59.... | 159.. | 8.7 | 22.... | 1 | H1-1a |
| 15 | M59 | 2L2x2x3/16x1/2 | .300 | 5.553 | 9 | .005 | 0 | y | 14 | 29.... | 46.... | 2.8... | 1.64 | 1 | H1-1a |
| 16 | M99 | HSS8x8x 1/4 | .294 | 20 | 9 | .001 | 0 | z | 14 | 199.. | 293.. | 66.... | 66.... | 1 | H1-1a |
| 17 | M82 | HSS8x8x 1/4 | .282 | 0 | 14 | .000 | 0 | z | 9 | 199.. | 293.. | 66.... | 66.... | 1 | H1-1a |
| 18 | M50 | HSS6x6x 1/4 | .254 | 10 | 9 | .001 | 0 | y | 14 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1a |
| 19 | M42 | 2L2x2x3/16x1/2 | .243 | 2.777 | 9 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1a |
| 20 | M43 | 2L2x2x3/16x1/2 | .242 | 2.777 | 9 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1a |
| 21 | M91 | 2L4x4x3/8x1/2 | .235 | 5.538 | 14 | .002 | 11.... | y | 46 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1a |
| 22 | M90 | 2L4x4x3/8x1/2 | .235 | 5.538 | 14 | .002 | 11.... | y | 48 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1a |
| 23 | M100 | HSS8x8x 1/4 | .233 | 20 | 15 | .000 | 0 | y | 14 | 199.. | 293.. | 66.... | 66.... | 1 | H1-1a |
| 24 | M45 | 2L2x2x3/16x1/2 | .230 | 2.892 | 14 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.64 | 1 | H1-1a |
| 25 | M114 | W10X33 | .222 | 3.418 | 15 | .273 | 3.4... | y | 15 | 205.. | 436.. | 52.5 | 142.. | 1 | H1-1b |
| 26 | M83 | HSS8x8x 1/4 | .216 | 0 | 9 | .000 | 0 | z | 14 | 199.. | 293.. | 66.... | 66.... | 1 | H1-1a |
| 27 | M103 | W6X12 | .210 | 4.76 | 15 | .003 | 9.5... | y | 46 | 59.... | 159.. | 8.7 | 22.... | 1 | H1-1a |
| 28 | M92 | 2L4x4x3/8x1/2 | .185 | 0 | 9 | .002 | 11.... | y | 48 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1... |
| 29 | M109 | 2L4x4x3/8x1/2 | .181 | 0 | 9 | .002 | 11.... | y | 60 | 112.. | 185.. | 20.... | 13.... | 1 | H1-1... |
| 30 | M51 | HSS6x6x 1/4 | .177 | 0 | 14 | .001 | 0 | z | 14 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |
| 31 | M88 | W6X12 | .174 | 0 | 10 | .003 | 9.5... | y | 48 | 59.... | 159.. | 8.7 | 22.... | 1 | H1-1... |
| 32 | M64 | 2L2x2x3/16x1/2 | .160 | 0 | 9 | .004 | 5.5... | y | 15 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1... |
| 33 | M66 | HSS8x8x 1/4 | .158 | 0 | 14 | .000 | 0 | y | 14 | 199.. | 293.. | 66.... | 66.... | 1 | H1-1... |
| 34 | M26 | 2L2x2x3/16x1/2 | .158 | 0 | 14 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1... |
| 35 | M29 | 2L2x2x3/16x1/2 | .157 | 0 | 14 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1... |
| 36 | M75 | 2L4x4x3/8x1/2 | .155 | 0 | 14 | .002 | 11.... | y | 46 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1... |
| 37 | M74 | 2L4x4x3/8x1/2 | .155 | 0 | 14 | .002 | 11.... | y | 60 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1... |
| 38 | M27 | 2L2x2x3/16x1/2 | .148 | 0 | 9 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1... |
| 39 | M93 | 2L4x4x3/8x1/2 | .148 | 0 | 9 | .002 | 11.... | y | 48 | 112.. | 185.. | 20.... | 13.... | 1 | H1-1... |
| 40 | M34 | HSS6x6x 1/4 | .132 | 0 | 9 | .001 | 0 | y | 10 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |



Company : GPD
 Designer : KM
 Job Number : 2020777.800529.09
 Model Name : BU #: 800529, CT HAMDEN NORTH CAC

June 3, 2020
 4:15 PM
 Checked By: _____

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

| Member | Shape | Code Check | Loc[ft] | LC | Shear | Loc | Dir | LC | phi* | phi* | phi* | phi* | Cb | Eqn |
|--------|-------|----------------|---------|--------|-------|------|--------|----|------|--------|--------|--------|-------|-----------|
| 41 | M44 | 2L2x2x3/16x1/2 | .125 | 0 | 14 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 42 | M105 | 2L4x4x3/8x1/2 | .122 | 0 | 14 | .002 | 11... | y | 48 | 112... | 185... | 20... | 11... | 1 H1-1... |
| 43 | M67 | HSS8x8x 1/4 | .119 | 0 | 9 | .000 | 0 | z | 14 | 199... | 293... | 66... | 66... | 1 H1-1... |
| 44 | M76 | 2L4x4x3/8x1/2 | .117 | 0 | 9 | .002 | 11... | y | 48 | 112... | 185... | 20... | 11... | 1 H1-1... |
| 45 | M77 | 2L4x4x3/8x1/2 | .117 | 0 | 9 | .002 | 11... | y | 60 | 112... | 185... | 20... | 11... | 1 H1-1... |
| 46 | M60 | 2L2x2x3/16x1/2 | .116 | 0 | 14 | .005 | 0 | y | 14 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 47 | M87 | W6X12 | .116 | 0 | 15 | .003 | 9.5... | y | 46 | 59... | 159... | 8.7 | 22... | 1 H1-1... |
| 48 | M111 | 2L4x4x3/8x1/2 | .109 | 11.075 | 15 | .002 | 11... | y | 48 | 112... | 185... | 20... | 11... | 1 H1-1b |
| 49 | M110 | 2L4x4x3/8x1/2 | .108 | 11.075 | 15 | .002 | 11... | y | 46 | 112... | 185... | 20... | 11... | 1 H1-1b |
| 50 | M62 | 2L2x2x3/16x1/2 | .107 | 5.553 | 10 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1b |
| 51 | M63 | 2L2x2x3/16x1/2 | .107 | 5.553 | 10 | .004 | 5.5... | y | 15 | 29... | 46... | 2.8... | 1.47 | 1 H1-1b |
| 52 | M57 | 2L2x2x3/16x1/2 | .105 | 5.553 | 15 | .005 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1b |
| 53 | M52 | HSS6x6x 1/4 | .104 | 10 | 10 | .001 | 0 | y | 14 | 181... | 216... | 38... | 38... | 1 H1-1b |
| 54 | M35 | HSS6x6x 1/4 | .100 | 0 | 14 | .001 | 0 | z | 14 | 181... | 216... | 38... | 38... | 1 H1-1... |
| 55 | M48 | 2L2x2x3/16x1/2 | .095 | 0 | 9 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 56 | M97 | HSS8x8x 1/4 | .094 | 20 | 10 | .001 | 0 | z | 14 | 199... | 293... | 66... | 66... | 1 H1-1b |
| 57 | M13 | 2L2x2x3/16x1/2 | .087 | 0 | 14 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 58 | M10 | 2L2x2x3/16x1/2 | .087 | 0 | 14 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 59 | M112 | 2L4x4x3/8x1/2 | .086 | 11.075 | 10 | .002 | 11... | y | 46 | 112... | 185... | 20... | 11... | 1 H1-1b |
| 60 | M84 | HSS8x8x 1/4 | .085 | 0 | 15 | .000 | 0 | y | 14 | 199... | 293... | 66... | 66... | 1 H1-1b |
| 61 | M32 | 2L2x2x3/16x1/2 | .084 | 0 | 9 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 62 | M102 | W6X12 | .080 | 4.76 | 9 | .003 | 9.5... | y | 48 | 59... | 159... | 8.7 | 22... | 1 H1-1b |
| 63 | M95 | 2L4x4x3/8x1/2 | .077 | 11.075 | 15 | .002 | 11... | y | 48 | 112... | 185... | 20... | 11... | 1 H1-1b |
| 64 | M94 | 2L4x4x3/8x1/2 | .077 | 11.075 | 15 | .002 | 11... | y | 48 | 112... | 185... | 20... | 11... | 1 H1-1b |
| 65 | M46 | 2L2x2x3/16x1/2 | .076 | 5.553 | 10 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1b |
| 66 | M47 | 2L2x2x3/16x1/2 | .076 | 5.553 | 10 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1b |
| 67 | M41 | 2L2x2x3/16x1/2 | .073 | 5.553 | 15 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1b |
| 68 | M49 | HSS6x6x 1/4 | .072 | 10 | 15 | .001 | 0 | z | 14 | 181... | 216... | 38... | 38... | 1 H1-1b |
| 69 | M11 | 2L2x2x3/16x1/2 | .072 | 0 | 9 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 70 | M81 | HSS8x8x 1/4 | .067 | 0 | 10 | .000 | 0 | z | 14 | 199... | 293... | 66... | 66... | 1 H1-1b |
| 71 | M18 | HSS6x6x 1/4 | .066 | 0 | 9 | .000 | 0 | y | 14 | 181... | 216... | 38... | 38... | 1 H1-1... |
| 72 | M55 | C6X10.5 | .064 | 2.417 | 3 | .019 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 73 | M36 | HSS6x6x 1/4 | .063 | 0 | 10 | .001 | 0 | y | 9 | 181... | 216... | 38... | 38... | 1 H1-1b |
| 74 | M39 | C6X10.5 | .063 | 2.417 | 3 | .019 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 75 | M28 | 2L2x2x3/16x1/2 | .062 | 0 | 14 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 76 | M89 | 2L4x4x3/8x1/2 | .062 | 0 | 48 | .002 | 11... | y | 48 | 112... | 185... | 20... | 11... | 1 H1-1... |
| 77 | M101 | W6X12 | .061 | 4.76 | 14 | .003 | 9.5... | y | 46 | 59... | 159... | 8.7 | 22... | 1 H1-1b |
| 78 | M23 | C6X10.5 | .061 | 2.417 | 3 | .019 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 79 | M54 | C6X10.5 | .060 | 2.417 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 80 | M56 | C6X10.5 | .059 | 2.467 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 81 | M38 | C6X10.5 | .058 | 2.417 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 82 | M40 | C6X10.5 | .058 | 2.467 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 83 | M96 | 2L4x4x3/8x1/2 | .057 | 11.075 | 10 | .002 | 11... | y | 46 | 112... | 185... | 20... | 11... | 1 H1-1b |
| 84 | M22 | C6X10.5 | .057 | 2.417 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 85 | M53 | C6X10.5 | .056 | 2.417 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 86 | M24 | C6X10.5 | .056 | 2.467 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 87 | M16 | 2L2x2x3/16x1/2 | .055 | 0 | 9 | .003 | 5.5... | y | 9 | 29... | 46... | 2.8... | 1.47 | 1 H1-1... |
| 88 | M37 | C6X10.5 | .055 | 2.417 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 89 | M79 | 2L4x4x3/8x1/2 | .053 | 11.075 | 14 | .002 | 11... | y | 48 | 112... | 185... | 20... | 11... | 1 H1-1b |
| 90 | M78 | 2L4x4x3/8x1/2 | .053 | 11.075 | 14 | .002 | 11... | y | 46 | 112... | 185... | 20... | 11... | 1 H1-1b |
| 91 | M21 | C6X10.5 | .053 | 2.417 | 3 | .017 | 4.8... | y | 3 | 59... | 99... | 2.4... | 15... | 1 H1-1b |
| 92 | M86 | W6X12 | .052 | 4.76 | 9 | .003 | 9.5... | y | 48 | 59... | 159... | 8.7 | 22... | 1 H1-1b |



Company : GPD
 Designer : KM
 Job Number : 2020777.800529.09
 Model Name : BU #: 800529, CT HAMDEN NORTH CAC

June 3, 2020
 4:15 PM
 Checked By: _____

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

| Member | Shape | Code Check | Loc[ft] | LC | Shear | Loc | Dir | LC | phi* | phi* | phi* | phi* | Cb | Eqn | |
|--------|-------|----------------|---------|-------|-------|------|--------|----|------|--------|--------|--------|--------|-----|---------|
| 93 | M25 | 2L2x2x3/16x1/2 | .052 | 5.553 | 14 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1b |
| 94 | M30 | 2L2x2x3/16x1/2 | .052 | 5.553 | 14 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1b |
| 95 | M19 | HSS6x6x 1/4 | .050 | 0 | 14 | .000 | 0 | z | 9 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |
| 96 | M31 | 2L2x2x3/16x1/2 | .049 | 5.553 | 10 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1b |
| 97 | M73 | 2L4x4x3/8x1/2 | .046 | 0 | 48 | .002 | 11.... | y | 46 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1... |
| 98 | M68 | HSS8x8x 1/4 | .045 | 0 | 15 | .000 | 0 | y | 15 | 199.. | 293.. | 66.... | 66.... | 1 | H1-1b |
| 99 | M33 | HSS6x6x 1/4 | .043 | 0 | 15 | .001 | 0 | z | 14 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1b |
| 100 | M80 | 2L4x4x3/8x1/2 | .043 | 0 | 60 | .002 | 11.... | y | 46 | 112.. | 185.. | 20.... | 11.... | 1 | H1-1... |
| 101 | M65 | HSS8x8x 1/4 | .042 | 0 | 60 | .000 | 0 | z | 14 | 199.. | 293.. | 66.... | 66.... | 1 | H1-1... |
| 102 | M85 | W6X12 | .041 | 4.76 | 14 | .003 | 9.5... | y | 46 | 59.... | 159.. | 8.7 | 22.... | 1 | H1-1b |
| 103 | M9 | 2L2x2x3/16x1/2 | .033 | 5.553 | 14 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1b |
| 104 | M14 | 2L2x2x3/16x1/2 | .032 | 5.553 | 14 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1b |
| 105 | M20 | HSS6x6x 1/4 | .029 | 0 | 60 | .000 | 0 | y | 14 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |
| 106 | M17 | HSS6x6x 1/4 | .028 | 4.896 | 46 | .000 | 0 | y | 9 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |
| 107 | M15 | 2L2x2x3/16x1/2 | .028 | 5.553 | 9 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1b |
| 108 | M12 | 2L2x2x3/16x1/2 | .025 | 5.553 | 48 | .003 | 5.5... | y | 9 | 29.... | 46.... | 2.8... | 1.47 | 1 | H1-1b |
| 109 | M2 | HSS6x6x 1/4 | .020 | 0 | 9 | .000 | 0 | z | 15 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |
| 110 | M4 | HSS6x6x 1/4 | .017 | 0 | 60 | .000 | 0 | z | 15 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |
| 111 | M3 | HSS6x6x 1/4 | .017 | 0 | 48 | .000 | 0 | z | 9 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |
| 112 | M1 | HSS6x6x 1/4 | .015 | 4.896 | 46 | .000 | 0 | z | 9 | 181.. | 216.. | 38.... | 38.... | 1 | H1-1... |
| 113 | M7 | C6X10.5 | .006 | 2.417 | 60 | .002 | 4.8... | y | 48 | 59.... | 99.... | 2.4... | 15.... | 1 | H1-1b |
| 114 | M6 | C6X10.5 | .006 | 2.417 | 48 | .002 | 4.8... | y | 48 | 59.... | 99.... | 2.4... | 15.... | 1 | H1-1b |
| 115 | M8 | C6X10.5 | .006 | 2.417 | 60 | .002 | 4.8... | y | 46 | 59.... | 99.... | 2.4... | 15.... | 1 | H1-1b |
| 116 | M5 | C6X10.5 | .006 | 2.417 | 46 | .002 | 4.8... | y | 46 | 59.... | 99.... | 2.4... | 15.... | 1 | H1-1b |

Bolt Checks

| Section # | Elevation | Component Type | Bolt Grade | Bolt Size (in) | # of Bolts | Maximum Load (k) | Maximum Load per Bolt (k) | Allowable Load per Bolt (k) | Ratio | Allowable Ratio | % Capacity | Criteria |
|-----------|-----------|----------------|------------|----------------|------------|------------------|---------------------------|-----------------------------|-------|-----------------|------------------|----------|
| L1 | 100 | Diagonal | A325N | 0.875 | 2 | 2,609 | 1,304 | 15,588 | 0.084 | 1.000 | 8.0% | 1.05 |
| L2 | 90 | Diagonal | A325N | 0.875 | 2 | 4,702 | 2,351 | 15,588 | 0.151 | 1.000 | 14.4% | 1.05 |
| L3 | 80 | Diagonal | A325N | 0.875 | 2 | 7,08 | 3.54 | 15,588 | 0.227 | 1.000 | 21.6% | 1.05 |
| L4 | 70 | Leg | A325N | 0.875 | 4 | 43,191 | 21,596 | 41,556 | 0.520 | 1.000 | 49.5% | 1.05 |
| | | Diagonal | A325N | 0.875 | 2 | 8,94 | 4.47 | 15,588 | 0.287 | 1.000 | 27.3% | 1.05 |
| T1 | 60 | Diagonal | A325N | 0.875 | 2 | 17,422 | 8,711 | 41,372 | 0.211 | 1.000 | 20.1% | 1.05 |
| T2 | 40 | Top Girt | A325N | 0.875 | 2 | 14,357 | 7,178 | 24,354 | 0.295 | 1.000 | 28.1% | 1.05 |
| | | Diagonal | A325N | 0.875 | 2 | 25,111 | 12,556 | 41,372 | 0.303 | 1.000 | 28.9% | 1.05 |
| T3 | 20 | Top Girt | A325N | 0.875 | 2 | 23,188 | 11,594 | 24,354 | 0.476 | 1.000 | 45.3% | 1.05 |
| | | Diagonal | A325N | 0.875 | 2 | 36,48 | 18,24 | 41,372 | 0.441 | 1.000 | 42.0% | 1.05 |
| | | | | | | | | | | | Maximum Capacity | 49.5% |

CClplate

| Project Information | |
|---------------------|---------------------|
| BU # | 800529 |
| Site Name | CT HAMDEN NORTH CAC |
| Order # | 523069 Rev. 0 |

| Tower Information | |
|-------------------|--------------|
| Tower Type | Self Support |
| TIA-222 Rev | H |

Apply TIA-222-H Section 15.5

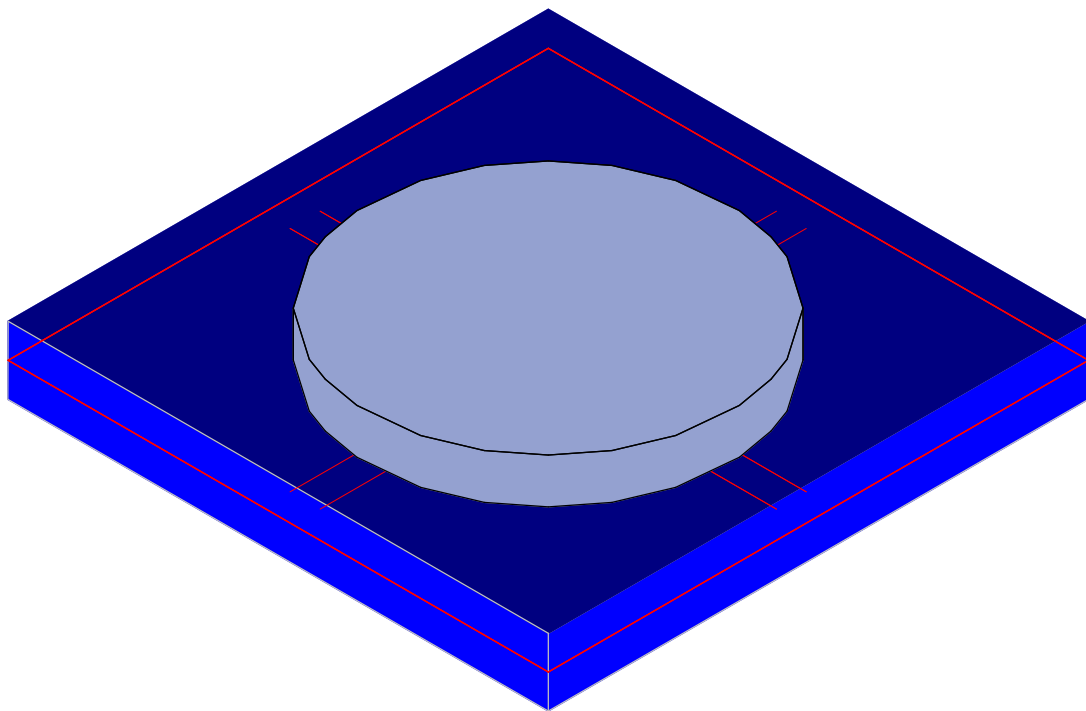
| Applied Loads | | |
|---------------|-------|--------|
| | Comp. | Uplift |
| Axial (k) | 0.00 | 118.77 |
| Shear (k) | 22.45 | 18.62 |

| Anchor Rod Data | |
|------------------------|-------------|
| Quantity: | 8 |
| Diameter (in): | 1.25 |
| <u>Material Grade:</u> | A36 |
| Grout Considered: | Yes |
| l_{ar} (in): | 0 |
| Eta Factor, η : | |
| Thread Type: | N-Included |
| Configuration: | Symmetrical |

Fy=36 ksi Fu=58 ksi
Not Considered, $l_{ar} \leq 1(d)$

| Anchor Rod Results | |
|----------------------------------|-------|
| Axial, P_u (kips) | 14.85 |
| Shear, V_u (kips) | 2.33 |
| Moment, M_u (kip-in) | - |
| Axial Cap., ϕP_n (kips) | 42.15 |
| Shear Cap., ϕV_n (kips) | 26.69 |
| Moment Cap., ϕM_n (kip-in) | - |
| Stress Rating | 12.5% |

Pass



| | | |
|-------------------|---------------------|-------------------------|
| GPD | CT HAMDEN NORTH CAC | SK - 1 |
| KM | | June 3, 2020 at 4:37 PM |
| 2020777.800529.09 | | 800529.fnd |

(Global) Model Settings

| | |
|----------------------------------------|------------------------|
| Display Sections for Member Calcs | 5 |
| Max Internal Sections for Member Calcs | 100 |
| Mesh Size (in) | 24 |
| Max Iterations | 10 |
| Merge Tolerance (in) | .12 |
| Solver | Sparse Accelerated |
| Coefficient of Friction | .3 |
| | |
| No. of Shear Regions | 4 |
| Shear Region Spacing Increment (in) | 4 |
| Min 1 Bar Dia Spacing for Beams? | No |
| Optimize footings for OTM / Sliding? | No |
| Parame Beta Factor | .65 |
| Pile Safety Factor | 3 |
| Concrete Stress Block | Rectangular |
| Concrete Rebar Set | ASTM A615 |
| Concrete Code | ACI 318-14 |
| HR Steel Pile Code | AISC 14th(360-10): ASD |
| Wood Pile Code | AWC NDS-18: ASD |

Concrete Properties

| | Label | E [ksi] | G [ksi] | Nu | Therm (\1E... | Density[k/ft... | f'c[ksi] | Lambda | Flex Steel[... | Shear Stee... |
|---|------------|---------|---------|-----|---------------|-----------------|----------|--------|----------------|---------------|
| 1 | Conc3000NW | 3156 | 1372 | .15 | .6 | .145 | 3 | 1 | 60 | 60 |
| 2 | Conc3500NW | 3409 | 1482 | .15 | .6 | .145 | 3.5 | 1 | 60 | 60 |
| 3 | Conc4000NW | 3644 | 1584 | .15 | .6 | .145 | 4 | 1 | 60 | 60 |
| 4 | Conc3000LW | 2085 | 907 | .15 | .6 | .11 | 3 | .75 | 60 | 60 |
| 5 | Conc3500LW | 2252 | 979 | .15 | .6 | .11 | 3.5 | .75 | 60 | 60 |
| 6 | Conc4000LW | 2408 | 1047 | .15 | .6 | .11 | 4 | .75 | 60 | 60 |

Slab Rebar Parameters

| | Label | Top Bar | Bottom Bar | Max Top Bar S... | Min Top Bar S... | Max Bot Bar S... | Min Bot Bar S... | Spacing In... | Rebar Options |
|---|----------|---------|------------|------------------|------------------|------------------|------------------|---------------|----------------------|
| 1 | Circular | #6 | #3 | 9 | 9 | 999 | 999 | 2 | Force Top and Bottom |
| 2 | Square | #5 | #8 | 9 | 9 | 9 | 9 | 2 | Force Top and Bottom |

Soil Definitions

| | Label | Subgrade Modulus [k/ft^3] | Allowable Bearing[ksf] | Depth Properties | Default? |
|---|---------|---------------------------|------------------------|------------------|----------|
| 1 | Default | 259.2 | 4.5 | None | Yes |

Slabs

| | Label | Thickness [in] | Material | Local Axis Angle [d... | Analysis Offset [in] | Passive Pressure [k... | Soil Overb... |
|---|-------|----------------|------------|------------------------|----------------------|------------------------|---------------|
| 1 | S2 | 36 | Conc3000NW | 0 | 0 | 0 | 0 |

Pedestal Properties

| | Label | Type | Shape | Height[in] | e/BL | ex[in] | ez[in] | BLx[ft] | BLz[ft] |
|---|-----------|----------|------------|------------|-----------|--------|--------|---------|---------|
| 1 | Footing 1 | Pedestal | CRECT12X12 | 24 | Use ex,ez | 0 | 0 | 0 | 0 |



Company : GPD
 Designer : KM
 Job Number : 2020777.800529.09
 Model Name : CT HAMDEN NORTH CAC

June 3, 2020
 4:36 PM
 Checked By: _____

Load Combinations

| Label | So.. | Se.. | A... | SF | Cat... | Fac... | Cat... | Fac... | Cat... | Fac... | Cat... | Fac... | Cat... | Fac... | Cat... | Fac... | Cat... | Fac... | Cat... | Fac... |
|-------|--------------|------|------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 1.4 DL | Yes | | | DL | 1 | OL1 | 1 | | | | | | | | | | | | |
| 2 | 1.2 DL + ... | Yes | | | DL | 1 | OL2 | 1 | | | | | | | | | | | | |
| 3 | 1.2 DL + ... | Yes | | | DL | 1 | OL3 | 1 | | | | | | | | | | | | |
| 4 | 1.2 DL + ... | Yes | | | DL | 1 | OL4 | 1 | | | | | | | | | | | | |
| 5 | 1.2 DL + ... | Yes | | | DL | 1 | OL5 | 1 | | | | | | | | | | | | |
| 6 | 1.2 DL + ... | Yes | | | DL | 1 | OL6 | 1 | | | | | | | | | | | | |
| 7 | 1 DL + 1 ... | Yes | Yes | | DL | 1 | OL8 | 1 | | | | | | | | | | | | |
| 8 | 1 DL + 1 ... | Yes | Yes | | DL | 1 | OL9 | 1 | | | | | | | | | | | | |

Design Strips

| | Label | Rebar | Angle from Pl... | No. of Design Cuts | Design Rule |
|---|-------|-------|------------------|--------------------|-------------|
| 1 | DS4 | | 90 | 50 | Square |
| 2 | DS2 | | 0 | 50 | Square |
| 3 | DS3 | | 90 | 50 | Square |

Envelope Slab Soil Pressures

| Label | UC | LC | Soil Pressure[ksf] | Allowable Bearing[ksf] | Point |
|-------|----|----|--------------------|------------------------|-------|
| 1 | S2 | 7 | 1.538 | 4.5 | N34 |

Slab Overturning Safety Factors

| LC | Slab | Angle[deg] | Mo-xx[k-ft] | Ms-xx[k-ft] | Mo-zz[k-ft] | Ms-zz[k-ft] | Ms-xx/Mo-xx | Ms-zz/Mo-zz | |
|----|------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| 1 | 7 | S2 | 0 | 654.439 | 3706.416 | 772.624 | 3706.416 | 5.663 | 4.797 |
| 2 | 8 | S2 | 0 | 0 | 3706.416 | 0 | 3706.416 | 9.999+ | 9.999+ |

Strip Reinforcing

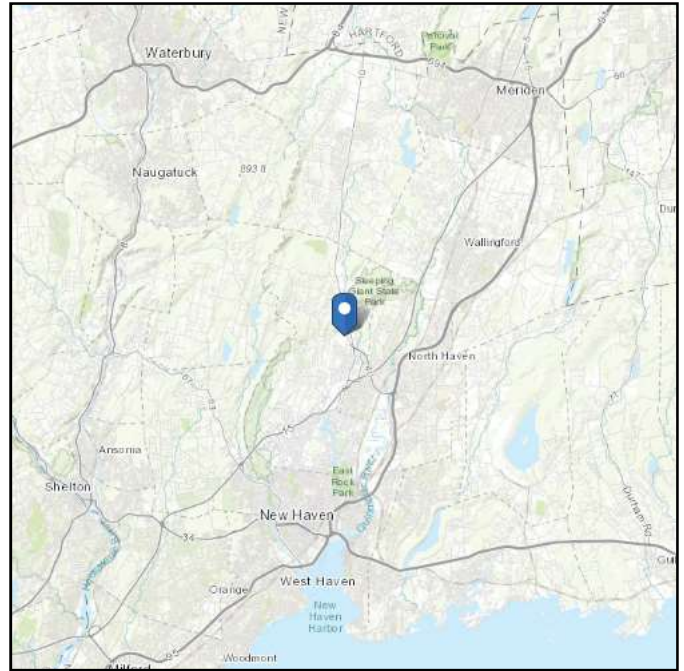
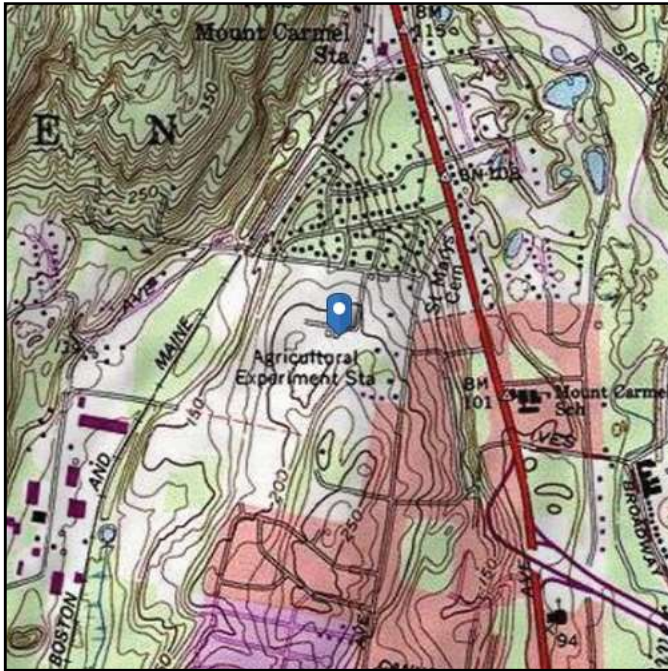
| Label | UC Top | LC | Top Bars | Governin... | UC Bot | LC | Bot Bars/... | Governin... | UC Shear | LC | Governin... | |
|-------|--------|------|----------|-------------|---------|------|--------------|-------------|----------|------|-------------|---------|
| 1 | DS4 | .062 | 3 | #5@9in | DS4-X37 | .088 | 3 | #8@9in | DS4-X17 | .093 | 3 | DS4-X29 |
| 2 | DS2 | .116 | 2 | #5@9in | DS2-X17 | .109 | 2 | #8@9in | DS2-X34 | .119 | 2 | DS2-X25 |
| 3 | DS3 | .062 | 3 | #5@9in | DS3-X37 | .088 | 3 | #8@9in | DS3-X17 | .093 | 3 | DS3-X29 |

ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 205.84 ft (NAVD 88)
Latitude: 41.406639
Longitude: -72.904533

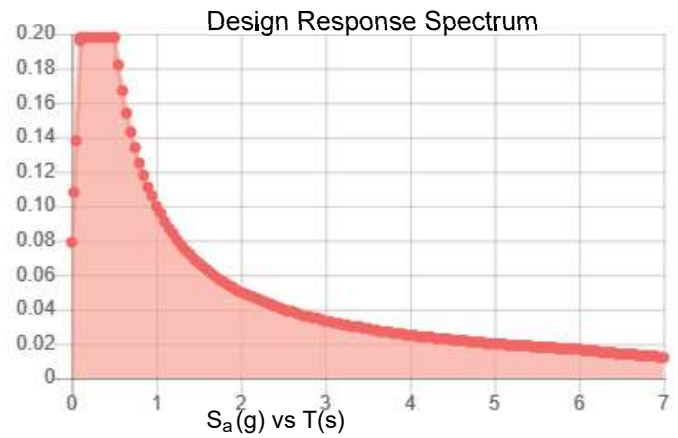
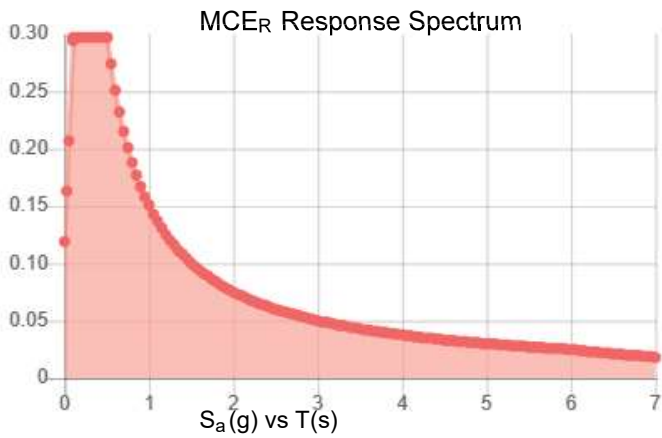


Site Soil Class: D - Stiff Soil

Results:

| | | | |
|------------|-------|--------------------|-------|
| S_s : | 0.185 | S_{DS} : | 0.198 |
| S_1 : | 0.063 | S_{D1} : | 0.1 |
| F_a : | 1.6 | T_L : | 6 |
| F_v : | 2.4 | PGA : | 0.096 |
| S_{MS} : | 0.297 | PGA _M : | 0.154 |
| S_{M1} : | 0.151 | F _{PGA} : | 1.6 |
| | | I_e : | 1 |

Seismic Design Category B



Data Accessed:

Fri Jul 12 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: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

Date Accessed: Fri Jul 12 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.

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

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Exhibit E

Mount Analysis

June 5, 2020

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



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

Subject: **Mount Analysis**

Carrier Designation: **AT&T Mobility Reconfiguration**
Client Site Number: CTL02039
Client Site Name: Hamden SR 10

Crown Castle Designation: **Crown Castle BU Number:** 800529
Crown Castle Site Name: CT HAMDEN NORTH CAC
Crown Castle JDE Job Number: 612854
Crown Castle Order Number: 523069 Rev. 0

Engineering Firm Designation: **TEP Project Number:** 217211.419084

Site Data: **890 Evergreen Avenue, Hamden, New Haven County, CT 06518**
Latitude 41° 24' 23.90", Longitude -72° 54' 16.32"

Structure Information: **Tower Height & Type:** 100.0± ft Self-Supporting Tower
Mount Elevation: 85.0 ft
Mount Width & Type: 16.0 ft Platform Mount

Dear Darcy Tarr,

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

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

Platform Mount

Sufficient Capacity

The analysis has been performed in accordance with the 2018 International Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Nicholas P. Danyluk / SEB

Respectfully submitted by:

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



Electronic Copy

06/05/2020

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1) INTRODUCTION

The mount is an existing 16.0-ft Platform Mount.

2) ANALYSIS CRITERIA

| | |
|-----------------------------------------|-----------|
| Building Code: | 2018 IBC |
| TIA-222 Revision: | TIA-222-H |
| Risk Category: | II |
| Ultimate Wind Speed: | 119 mph |
| Exposure Category: | C |
| Topographic Category at Base: | 1.0 |
| Topographic Category at Mount: | 1.0 |
| Ice Thickness: | 1.0 in |
| Wind Speed with Ice: | 50 mph |
| Seismic Design Category: | B |
| Seismic S_s: | 0.202 |
| Seismic S_1: | 0.054 |
| Live Loading Wind Speed: | 30 mph |
| Live Loading at Mid/End-Points: | 250 lb |
| Man Live Loading at Mount Pipes: | 500 lb |

Table 1 - Proposed Equipment Configuration

| Mount Centerline (ft) | Antenna Centerline (ft) | Number of Antennas | Antenna Manufacturer | Antenna Model | Mount / Modification Details |
|-----------------------|-------------------------|--------------------|----------------------|--------------------|------------------------------|
| 85.0 | 85.0 | 3 | CCI Antennas | DMP65R-BU6D | Platform Mount |
| | | 3 | CCI Antennas | HPA-65R-BUU-H6-K | |
| | | 3 | CCI Antennas | OPA65R-BU6BA-K | |
| | | 3 | Ericsson | Radio 4415 B30 | |
| | | 3 | Ericsson | RRUS 32 B2 | |
| | | 3 | Ericsson | RRUS 4426 B66 | |
| | | 3 | Ericsson | RRUS 4449 B5/B12 | |
| | | 1 | Raycap | DC6-48-60-18-8F | |
| | | 1 | Raycap | DC9-48-60-24-8C-EV | |

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

| Document | Remarks | Reference | Source |
|-------------------------|---------------------------------------|---------------------|-----------|
| Previous Mount Analysis | Tower Engineering Professionals, Inc. | 8982871 | CCI sites |
| Mount Mapping | Nexius | 8497211 | CCI sites |
| Loading Application | AT&T Mobility | Order 523069 Rev. 0 | CCI sites |

3.1) Analysis Method

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

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

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Tower Mount Analysis (Revision C)*.

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

3.2) Assumptions

- 1) The mount was built in accordance with the manufacturer's specifications.
- 2) The mount has been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, mounts and other appurtenances are as specified in Table 1. All mount components have been assumed to be in sufficient condition to carry their full design capacity for this analysis. Refer to the issued mapping for any structural and/or maintenance issues found during our site visit if applicable.
- 4) All mount components are in sufficient condition to carry their full design capacity.
- 5) All material grades used for this analysis, unless verified by mount manufacturer design, were assumed per AISC Table 2-4, 15th Edition. See RISA-3D output for confirmation on grades used in this analysis.

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

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Low Profile Platform Mount)

| Notes | Component | Critical Member | Mount Centerline (ft) | % Capacity | Pass / Fail |
|-------|--------------------|-----------------|-----------------------|------------|-------------|
| 1 | Face Horizontals | M23 | 85.0 | 14.9 | Pass |
| 1 | Support Horizontal | SF3-TH | 85.0 | 5.2 | Pass |
| 1 | Mount Pipes | MP-11 | 85.0 | 1.5 | Pass |

| | |
|-----------------------------------------------------|--------------|
| Structure Rating (max from all components) = | 14.9% |
|-----------------------------------------------------|--------------|

Notes:

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

Table 4 - Tieback Connection Data Table

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

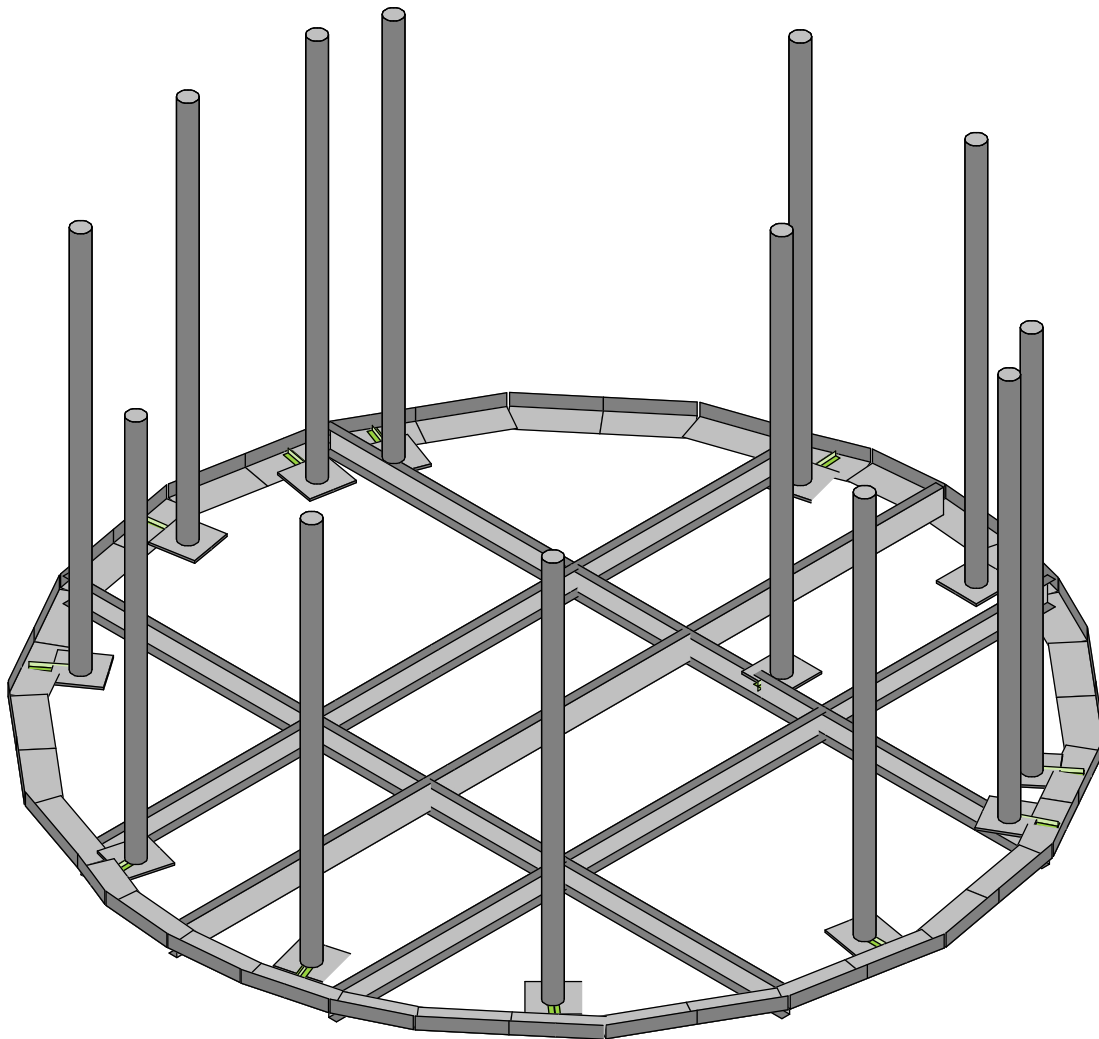
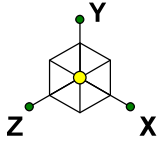
Notes:

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

4.1) Recommendations

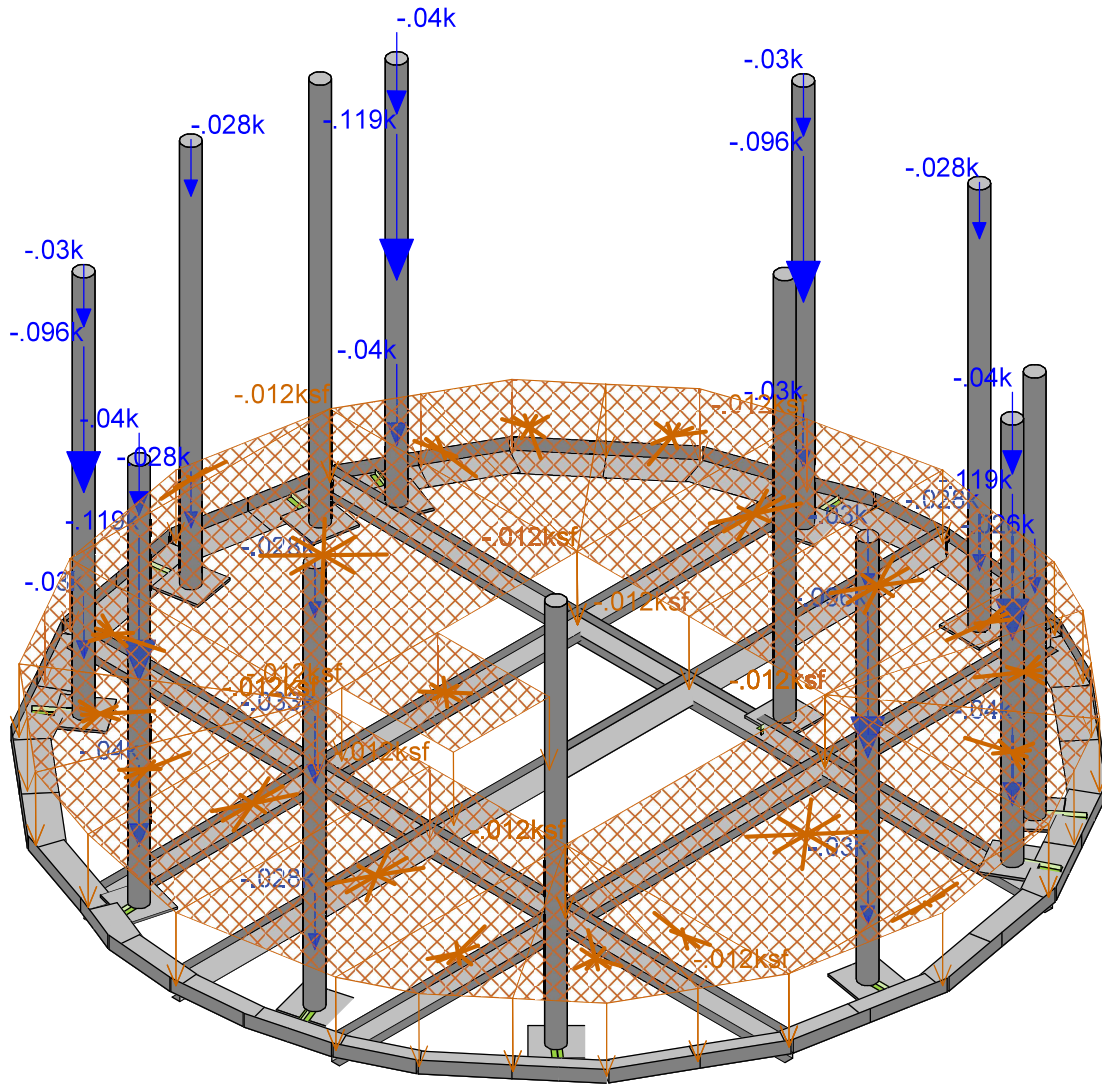
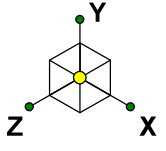
- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The mount and its connection have sufficient capacity to carry the proposed loading configuration. No modifications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

APPENDIX A
WIRE FRAME AND RENDERED MODELS



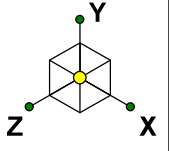
Envelope Only Solution

| | | |
|-----------------------------|-------------------|-------------------------|
| Tower Engineering Profes... | CCI BU No. 800529 | SK - 1 |
| NPD | | June 5, 2020 at 1:35 PM |
| TEP No. 217211.419084 | | Mount Rev H.r3d |

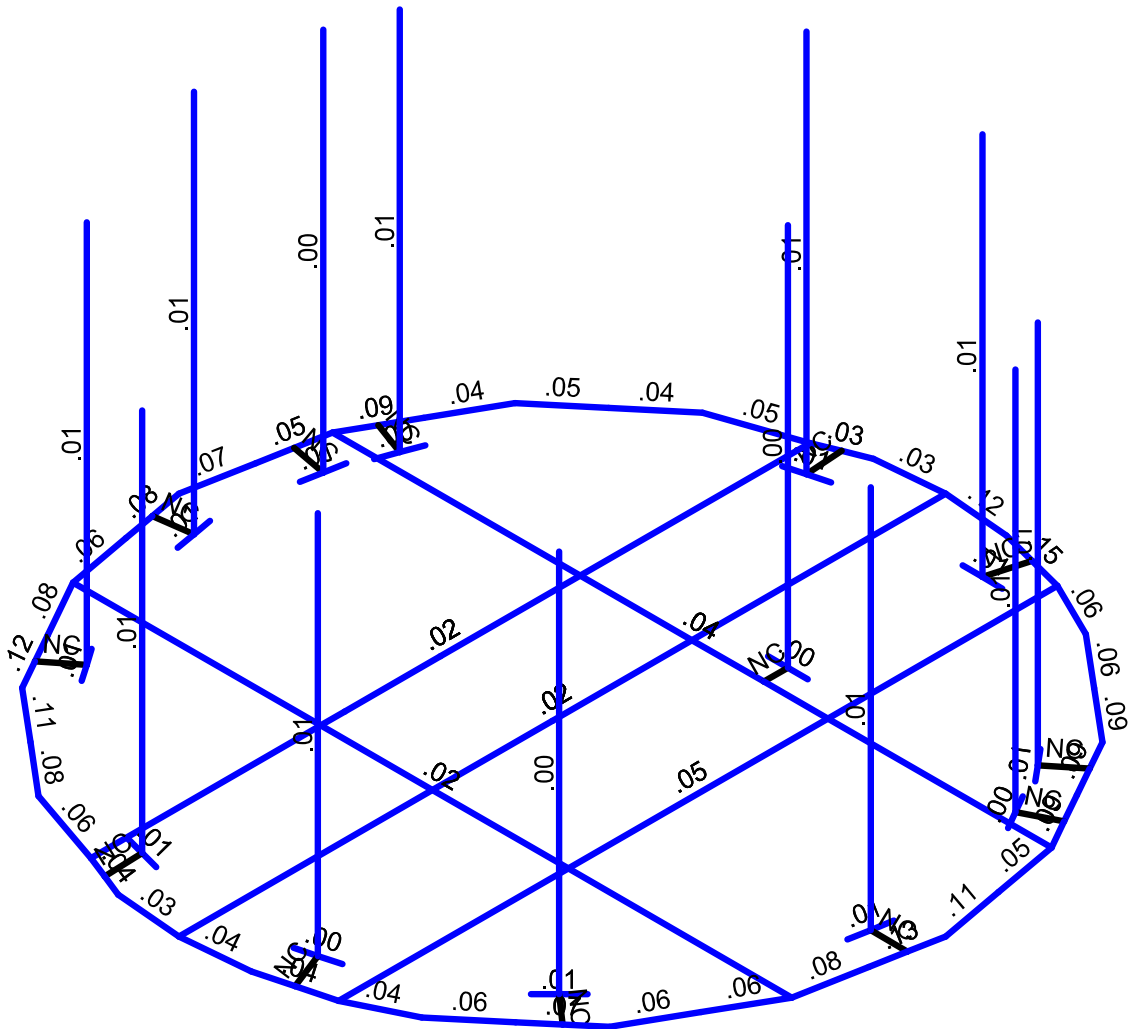


Loads: BLC 1, Dead
Envelope Only Solution

| | | |
|-----------------------------|-------------------|-------------------------|
| Tower Engineering Profes... | CCI BU No. 800529 | SK - 2 |
| NPD | | June 5, 2020 at 1:35 PM |
| TEP No. 217211.419084 | | Mount Rev H.r3d |

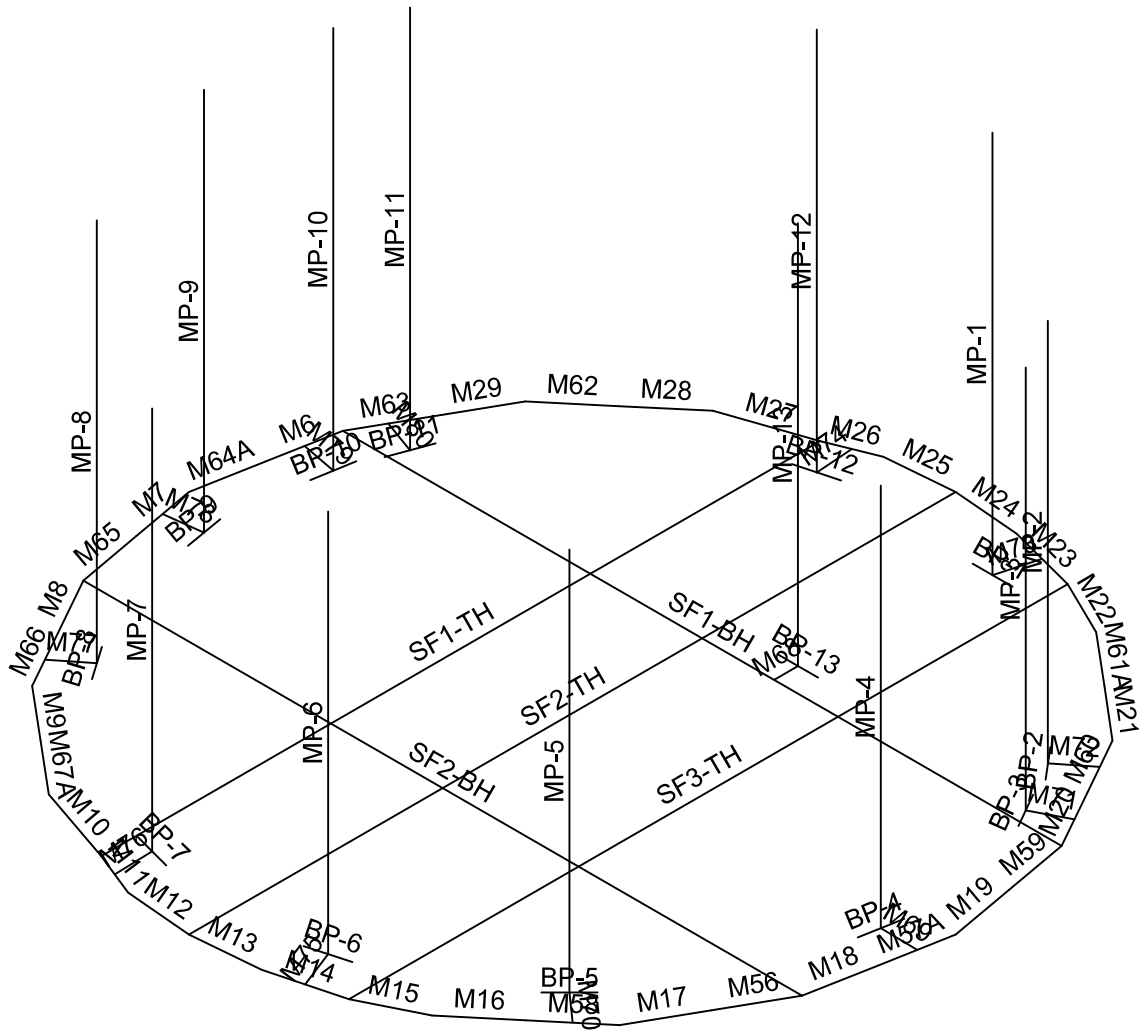
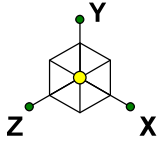


| Code Check (Env) | |
|--------------------|---------|
| Black | No Calc |
| Red | > 1.0 |
| Magenta | .90-1.0 |
| Green | .75-.90 |
| Cyan | .50-.75 |
| Blue | 0.-.50 |



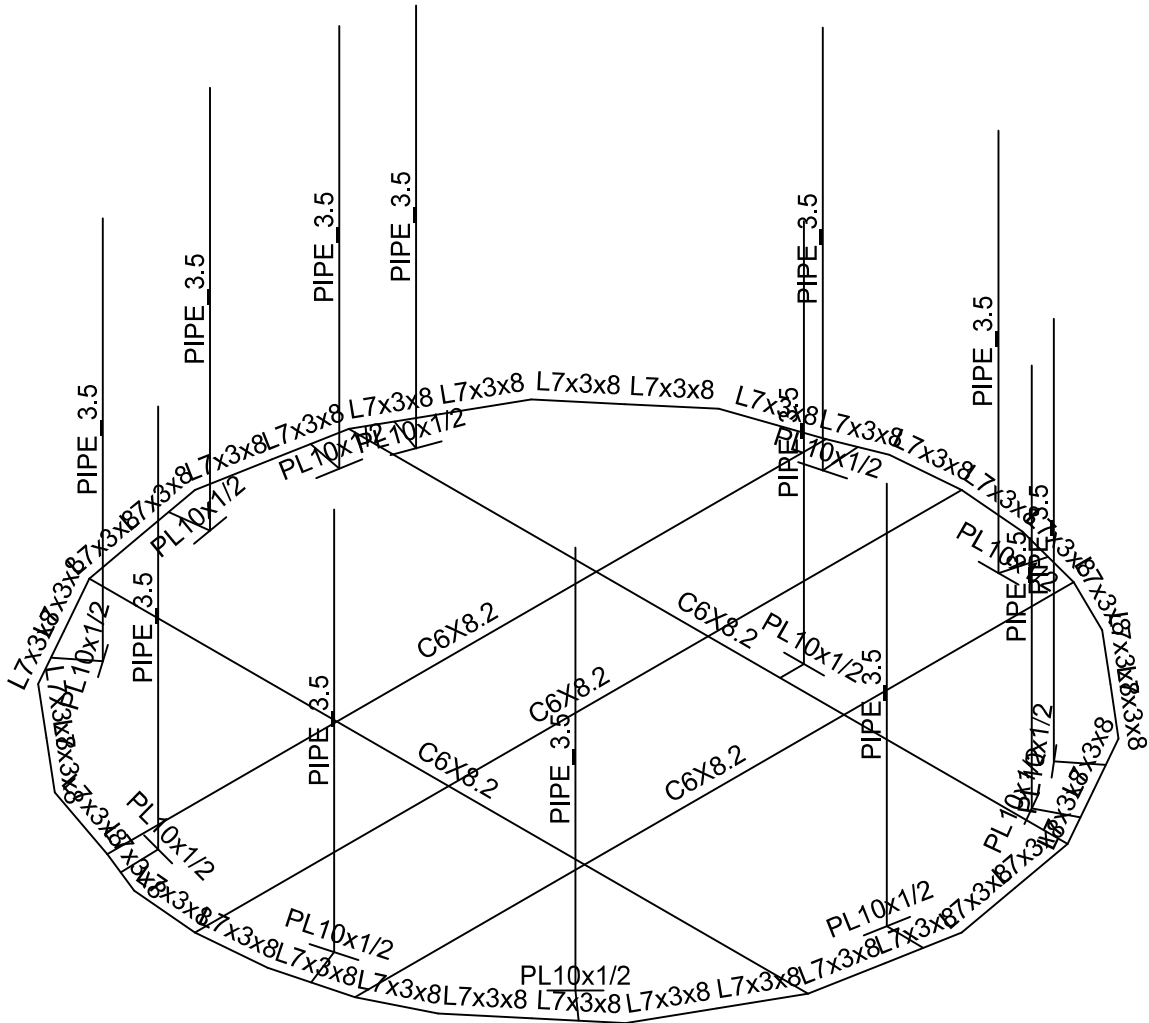
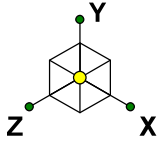
Member Code Checks Displayed (Enveloped)
Envelope Only Solution

| | | |
|-----------------------------|-------------------|-------------------------|
| Tower Engineering Profes... | CCI BU No. 800529 | SK - 3 |
| NPD | | June 5, 2020 at 1:51 PM |
| TEP No. 217211.419084 | | Mount Rev H.r3d |



Envelope Only Solution

| | | |
|-----------------------------|-------------------|-------------------------|
| Tower Engineering Profes... | CCI BU No. 800529 | SK - 4 |
| NPD | | June 5, 2020 at 1:37 PM |
| TEP No. 217211.419084 | | Mount Rev H.r3d |



Envelope Only Solution

| | | |
|-----------------------------|-------------------|-------------------------|
| Tower Engineering Profes... | | SK - 5 |
| NPD | CCI BU No. 800529 | June 5, 2020 at 1:38 PM |
| TEP No. 217211.419084 | | Mount Rev H.r3d |

APPENDIX B
SOFTWARE INPUT CALCULATIONS



| | | |
|-----------------|----------------------|----------|
| Code Revisions: | TIA-222-H | IBC 2018 |
| Tower Type: | 4 Sided Self-Support | |

Wind Inputs:

| | | |
|---------------------|-------|--------|
| Ult. Wind Velocity: | 119.0 | mph |
| Live Load Velocity: | 30.0 | mph |
| Ice Wind Velocity: | 50.0 | mph |
| Base Ice Thickness: | 1.00 | inches |
| Mount Centerline: | 85.0 | ft |
| Antenna Centerline: | 85.0 | ft |
| Exposure Category: | C | |
| Topo Category: | 1 | |
| Risk Category: | II | |
| Ground Elevation: | 206 | ft |

Wind Calculations:

| | | |
|-------------------|-------|-------------------------|
| K_{zt} : | 1.000 | Section 2.6.6 |
| K_d : | 0.950 | |
| $K_{z-Mount}$: | 1.223 | Section 2.6.5.2 |
| $K_{z-Antenna}$: | 1.223 | Section 2.6.5.2 |
| K_{iz} : | 1.099 | Section 2.6.10 |
| Ice Thickness: | 0.934 | inches - Section 2.6.10 |
| $K_{es-wind}$: | 0.95 | Annex S (Table S-1) |
| K_{es-ice} : | 0.85 | Annex S (Table S-1) |

| Without Ice - (psf) | | With Ice - (psf) | |
|-------------------------|-------|-------------------------|------|
| $(q_z G_h)_{Mount}$: | 39.72 | $(q_z G_h)_{Mount}$: | 7.38 |
| $(q_z G_h)_{Antenna}$: | 39.72 | $(q_z G_h)_{Antenna}$: | 7.38 |



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

| MFR | Model | Height (in) | Width (in) | Depth (in) | Wt. (lbs) | Azimuth° | Qty | Shape | Member Label | Location #1 (ft.%) | Location #2 (ft.%) | Location #3 (ft.%) |
|--------------|--------------------|-------------|------------|------------|-----------|----------|-----|-------|--------------|--------------------|--------------------|--------------------|
| CCI Antennas | HPA-65R-BUU-H6-K | 72.30 | 14.40 | 7.30 | 60.50 | 150.00 | 1 | Flat | MP-4 | 1.00 | 7.00 | |
| Ericsson | RRUS 32 B2 | 27.20 | 12.05 | 7.00 | 52.90 | 120.00 | 1 | Flat | MP-4 | 4.00 | | |
| Ericsson | Radio 4415 B30 | 14.96 | 13.18 | 5.04 | 42.90 | 120.00 | 1 | Flat | MP-4 | 4.00 | | |
| CCI Antennas | OPA65R-BU6BA-K | 71.10 | 11.70 | 8.40 | 55.00 | 180.00 | 1 | Flat | MP-6 | 1.00 | 7.00 | |
| CCI Antennas | DIMP65R-BU6D | 71.20 | 20.70 | 7.70 | 79.40 | 210.00 | 1 | Flat | MP-7 | 1.00 | 7.00 | |
| Ericsson | RRUS 4449 B5/B12 | 17.90 | 13.19 | 9.44 | 71.00 | 210.00 | 1 | Flat | MP-7 | 4.00 | | |
| Ericsson | RRUS 4426 B66 | 14.96 | 13.19 | 5.80 | 48.40 | 210.00 | 1 | Flat | MP-7 | 4.00 | | |
| CCI Antennas | HPA-65R-BUU-H6-K | 72.30 | 14.40 | 7.30 | 60.50 | 150.00 | 1 | Flat | MP-8 | 1.00 | 7.00 | |
| Ericsson | RRUS 32 B2 | 27.20 | 12.05 | 7.00 | 52.90 | 120.00 | 1 | Flat | MP-8 | 4.00 | | |
| Ericsson | Radio 4415 B30 | 14.96 | 13.18 | 5.04 | 42.90 | 120.00 | 1 | Flat | MP-8 | 4.00 | | |
| CCI Antennas | OPA65R-BU6BA-K | 71.10 | 11.70 | 8.40 | 55.00 | 180.00 | 1 | Flat | MP-9 | 1.00 | 7.00 | |
| CCI Antennas | DIMP65R-BU6D | 71.20 | 20.70 | 7.70 | 79.40 | 210.00 | 1 | Flat | MP-11 | 1.00 | 7.00 | |
| Ericsson | RRUS 4449 B5/B12 | 17.90 | 13.19 | 9.44 | 71.00 | 210.00 | 1 | Flat | MP-11 | 4.00 | | |
| Ericsson | RRUS 4426 B66 | 14.96 | 13.19 | 5.80 | 48.40 | 210.00 | 1 | Flat | MP-11 | 4.00 | | |
| CCI Antennas | HPA-65R-BUU-H6-K | 72.30 | 14.40 | 7.30 | 60.50 | 150.00 | 1 | Flat | MP-12 | 1.00 | 7.00 | |
| Ericsson | RRUS 32 B2 | 27.20 | 12.05 | 7.00 | 52.90 | 120.00 | 1 | Flat | MP-12 | 4.00 | | |
| Ericsson | Radio 4415 B30 | 14.96 | 13.18 | 5.04 | 42.90 | 120.00 | 1 | Flat | MP-12 | 4.00 | | |
| CCI Antennas | OPA65R-BU6BA-K | 71.10 | 11.70 | 8.40 | 55.00 | 180.00 | 1 | Flat | MP-1 | 1.00 | 7.00 | |
| CCI Antennas | DIMP65R-BU6D | 71.20 | 20.70 | 7.70 | 79.40 | 210.00 | 1 | Flat | MP-3 | 1.00 | 7.00 | |
| Ericsson | RRUS 4449 B5/B12 | 17.90 | 13.19 | 9.44 | 71.00 | 210.00 | 1 | Flat | MP-3 | 4.00 | | |
| Ericsson | RRUS 4426 B66 | 14.96 | 13.19 | 5.80 | 48.40 | 210.00 | 1 | Flat | MP-3 | 4.00 | | |
| Raycap | DC6-48-60-18-8F | 31.25 | 11.00 | 11.00 | 32.80 | 0.00 | 1 | Round | MP-6 | 4.00 | | |
| Raycap | DC9-48-60-24-8C-EV | 31.41 | 10.24 | 18.28 | 26.20 | 0.00 | 1 | Flat | MP-2 | 4.00 | | |



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

| Member Name | Wind Proj. (in) | Length (in) | Shape | θ (°) | Perimeter (in) |
|-------------|-----------------|-------------|-------|--------|----------------|
| SF3-TH | 6.000 | 180.00 | Flat | 90.00 | 15.80 |
| SF1-TH | 6.000 | 180.00 | Flat | 90.00 | 15.80 |
| SF2-TH | 6.000 | 192.00 | Flat | 90.00 | 15.80 |
| SF2-BH | 6.000 | 180.00 | Flat | 0.00 | 15.80 |
| SF1-BH | 6.000 | 180.00 | Flat | 0.00 | 15.80 |
| M6 | 3.000 | 16.52 | Flat | 79.54 | 20.00 |
| M7 | 3.000 | 16.52 | Flat | -79.54 | 20.00 |
| M8 | 3.000 | 16.76 | Flat | -60.60 | 20.00 |
| M9 | 3.000 | 16.67 | Flat | -40.00 | 20.00 |
| M10 | 3.000 | 21.14 | Flat | -18.94 | 20.00 |
| M11 | 3.000 | 12.21 | Flat | -21.84 | 20.00 |
| M12 | 3.000 | 16.73 | Flat | -5.00 | 20.00 |
| M13 | 3.000 | 16.73 | Flat | 5.00 | 20.00 |
| M14 | 3.000 | 17.91 | Flat | 14.69 | 20.00 |
| M15 | 3.000 | 15.59 | Flat | 26.11 | 20.00 |
| M16 | 3.000 | 16.67 | Flat | 40.00 | 20.00 |
| M17 | 3.000 | 16.76 | Flat | 60.60 | 20.00 |
| M18 | 3.000 | 16.52 | Flat | 79.54 | 20.00 |
| M19 | 3.000 | 16.52 | Flat | -79.54 | 20.00 |
| M20 | 3.000 | 16.76 | Flat | -60.60 | 20.00 |
| M21 | 3.000 | 16.67 | Flat | -40.00 | 20.00 |
| M22 | 3.000 | 15.59 | Flat | -26.11 | 20.00 |
| M23 | 3.000 | 17.91 | Flat | -14.69 | 20.00 |
| M24 | 3.000 | 16.73 | Flat | -5.00 | 20.00 |
| M25 | 3.000 | 16.73 | Flat | 5.00 | 20.00 |
| M26 | 3.000 | 12.21 | Flat | 21.84 | 20.00 |
| M27 | 3.000 | 21.14 | Flat | 18.94 | 20.00 |
| M28 | 3.000 | 16.67 | Flat | 40.00 | 20.00 |
| M29 | 3.000 | 16.76 | Flat | 60.60 | 20.00 |
| MP-5 | 4.000 | 96.00 | Round | | 12.57 |
| MP-6 | 4.000 | 96.00 | Round | | 12.57 |
| MP-7 | 4.000 | 96.00 | Round | | 12.57 |
| MP-8 | 4.000 | 96.00 | Round | | 12.57 |
| MP-9 | 4.000 | 96.00 | Round | | 12.57 |
| MP-10 | 4.000 | 96.00 | Round | | 12.57 |
| MP-11 | 4.000 | 96.00 | Round | | 12.57 |
| MP-13 | 4.000 | 96.00 | Round | | 12.57 |
| MP-12 | 4.000 | 96.00 | Round | | 12.57 |

| | | | | | |
|-------|-------|-------|-------|--------|-------|
| MP-1 | 4.000 | 96.00 | Round | | 12.57 |
| MP-2 | 4.000 | 96.00 | Round | | 12.57 |
| MP-3 | 4.000 | 96.00 | Round | | 12.57 |
| MP-4 | 4.000 | 96.00 | Round | | 12.57 |
| BP-1 | 0.500 | 10.00 | Flat | 0.00 | 21.00 |
| BP-12 | 0.500 | 10.00 | Flat | 15.00 | 21.00 |
| BP-11 | 0.500 | 10.00 | Flat | 70.00 | 21.00 |
| BP-10 | 0.500 | 10.00 | Flat | 80.00 | 21.00 |
| BP-9 | 0.500 | 10.00 | Flat | -80.00 | 21.00 |
| BP-8 | 0.500 | 10.00 | Flat | -55.00 | 21.00 |
| BP-7 | 0.500 | 10.00 | Flat | -15.00 | 21.00 |
| BP-6 | 0.500 | 10.00 | Flat | 15.00 | 21.00 |
| BP-5 | 0.500 | 10.00 | Flat | 45.00 | 21.00 |
| BP-4 | 0.500 | 10.00 | Flat | 80.00 | 21.00 |
| BP-3 | 0.500 | 10.00 | Flat | -60.00 | 21.00 |
| BP-2 | 0.500 | 10.00 | Flat | -50.00 | 21.00 |
| M56 | 3.000 | 16.76 | Flat | 60.60 | 20.00 |
| M57A | 3.000 | 16.52 | Flat | 79.54 | 20.00 |
| M58 | 3.000 | 16.67 | Flat | 40.00 | 20.00 |
| M59 | 3.000 | 16.52 | Flat | -79.54 | 20.00 |
| M60 | 3.000 | 16.76 | Flat | -60.60 | 20.00 |
| M61A | 3.000 | 16.67 | Flat | -40.00 | 20.00 |
| M62 | 3.000 | 16.67 | Flat | 40.00 | 20.00 |
| M63 | 3.000 | 16.76 | Flat | 60.60 | 20.00 |
| M64A | 3.000 | 16.52 | Flat | 79.54 | 20.00 |
| M65 | 3.000 | 16.52 | Flat | -79.54 | 20.00 |
| M66 | 3.000 | 16.76 | Flat | -60.60 | 20.00 |
| M67A | 3.000 | 16.67 | Flat | -40.00 | 20.00 |
| BP-13 | 0.500 | 10.00 | Flat | 45.00 | 21.00 |

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 |
| Eigen-solution 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 |
| RISAC Connection Code | None |
| Cold Formed Steel Code | None |
| Wood Code | None |
| Wood Temperature | < 100F |
| Concrete Code | None |
| Masonry Code | None |
| Aluminum Code | None - Building |
| Stainless Steel Code | None |

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



(Global) Model Settings. Continued

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

Hot Rolled Steel Properties

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

Cold Formed Steel Properties

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

Hot Rolled Steel Section Sets

| Label | Shape | Type | Design List | Material | A [in ²] | Iy [in ⁴] | Iz [in ⁴] | J [in ⁴] |
|-------|------------------|-----------|-------------|-----------|----------------------|-----------------------|-----------------------|----------------------|
| 1 | Mount Pipe | PIPE 3.5 | None | A53-B-35 | 2.5 | 4.52 | 4.52 | 9.04 |
| 2 | Support Horiz... | C6X8.2 | None | A36 Gr.36 | 2.39 | .687 | -.13 | .074 |
| 3 | Edge Support | L7X3x8 | None | A36 Gr.36 | 4.75 | 2.796 | 24.046 | .37 |
| 4 | MP Base Pla... | PL 10x1/2 | None | A36 Gr.36 | 5 | .104 | 41.667 | .404 |

Cold Formed Steel Section Sets

| Label | Shape | Type | Design List | Material | A [in ²] | Iy [in ⁴] | Iz [in ⁴] | J [in ⁴] |
|-------|-------|---------------|-------------|------------|----------------------|-----------------------|-----------------------|----------------------|
| 1 | CFT4 | I:5CUI.25X... | Beam | A570 Gr.33 | Typical | .131 | .022 | 5.4e-5 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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Material Takeoff

| Material | Size | Pieces | Length[m] | Weight[kg] |
|----------|------------------|--------|-----------|------------|
| 1 | General | | | |
| 2 | RIGID | 13 | 9.9 | 0 |
| 3 | Total General | 13 | 9.9 | 0 |
| 4 | | | | |
| 5 | Hot Rolled Steel | | | |
| 6 | A36 Gr.36 | 5 | 76 | 618 |
| 7 | A36 Gr.36 | 36 | 50 | 309 |
| 8 | A36 Gr.36 | 13 | 10.8 | 184 |
| 9 | A53-B-35 | 13 | 10.4 | 885 |
| 10 | Total HR Steel | 67 | 240.9 | 2,496 |

Joint Boundary Conditions

| Joint Label | X [k/in] | Y [k/in] | Z [k/in] | X Rot. [k-t/rad] | Y Rot. [k-t/rad] | Z Rot. [k-t/rad] |
|-------------|----------|----------|----------|------------------|------------------|------------------|
| 1 | N4 | Reaction | Reaction | | | |
| 2 | N5 | Reaction | Reaction | | | |
| 3 | N26 | Reaction | Reaction | | | |
| 4 | N27 | Reaction | Reaction | | | |
| 5 | N28 | Reaction | Reaction | | | |
| 6 | N29 | Reaction | Reaction | | | |
| 7 | N30 | Reaction | Reaction | | | |
| 8 | N31 | Reaction | Reaction | | | |
| 9 | N32 | Reaction | Reaction | | | |
| 10 | N33 | Reaction | Reaction | | | |
| 11 | N34 | Reaction | Reaction | | | |
| 12 | N35 | Reaction | Reaction | | | |
| 13 | N36 | Reaction | Reaction | | | |
| 14 | N37 | Reaction | Reaction | | | |

Member Primary Data

| Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material |
|-------|---------|---------|---------|-------------|----------------|------|-------------|-----------|
| 1 | SF3-TH | N28 | N26 | | Support Horiz. | None | None | A36 Gr.36 |
| 2 | SF1-TH | N29 | N27 | | Support Horiz. | None | None | A36 Gr.36 |
| 3 | SF2-TH | N5 | N4 | | Support Horiz. | None | None | A36 Gr.36 |
| 4 | SF2-BH | N32 | N30 | | Support Horiz. | None | None | A36 Gr.36 |
| 5 | SF1-BH | N31 | N33 | | Support Horiz. | None | None | A36 Gr.36 |
| 6 | M6 | N33 | N90 | 180 | Edge Support | None | None | A36 Gr.36 |
| 7 | M7 | N7 | N91A | 270 | Edge Support | None | None | A36 Gr.36 |
| 8 | M8 | N32 | N92A | 270 | Edge Support | None | None | A36 Gr.36 |
| 9 | M9 | N11 | N93 | 270 | Edge Support | None | None | A36 Gr.36 |
| 10 | M10 | N13 | N29 | 270 | Edge Support | None | None | A36 Gr.36 |
| 11 | M11 | N29 | N15 | 270 | Edge Support | None | None | A36 Gr.36 |
| 12 | M12 | N15 | N4 | 270 | Edge Support | None | None | A36 Gr.36 |
| 13 | M13 | N4 | N17 | 270 | Edge Support | None | None | A36 Gr.36 |
| 14 | M14 | N17 | N28 | 270 | Edge Support | None | None | A36 Gr.36 |
| 15 | M15 | N28 | N19 | 270 | Edge Support | None | None | A36 Gr.36 |
| 16 | M16 | N19 | N84 | 270 | Edge Support | None | None | A36 Gr.36 |
| 17 | M17 | N21 | N82A | 270 | Edge Support | None | None | A36 Gr.36 |
| 18 | M18 | N30 | N85A | 270 | Edge Support | None | None | A36 Gr.36 |
| 19 | M19 | N6 | N85A | 270 | Edge Support | None | None | A36 Gr.36 |
| 20 | M20 | N31 | N86A | 270 | Edge Support | None | None | A36 Gr.36 |
| 21 | M21 | N10 | N87 | 270 | Edge Support | None | None | A36 Gr.36 |
| 22 | M22 | N12 | N26 | 270 | Edge Support | None | None | A36 Gr.36 |
| 23 | M23 | N26 | N14 | 270 | Edge Support | None | None | A36 Gr.36 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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Member Primary Data (Continued)

| Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material |
|-------|---------|---------|---------|-------------|---------------|------|-------------|-----------|
| 24 | M24 | N14 | N5 | 270 | Edge Support | None | None | A36 Gr.36 |
| 25 | M25 | N5 | N16 | 270 | Edge Support | None | None | A36 Gr.36 |
| 26 | M26 | N16 | N27 | 270 | Edge Support | None | None | A36 Gr.36 |
| 27 | M27 | N27 | N18 | 270 | Edge Support | None | None | A36 Gr.36 |
| 28 | M28 | N18 | N88 | 270 | Edge Support | None | None | A36 Gr.36 |
| 29 | M29 | N20 | N89 | 270 | Edge Support | None | None | A36 Gr.36 |
| 30 | MP-5 | N56 | N59A | | Mount Pipe | None | None | A53-B-35 |
| 31 | MP-6 | N53 | N52 | | Mount Pipe | None | None | A53-B-35 |
| 32 | MP-7 | N50 | N51 | | Mount Pipe | None | None | A53-B-35 |
| 33 | MP-8 | N46 | N50A | | Mount Pipe | None | None | A53-B-35 |
| 34 | MP-9 | N43 | N49 | | Mount Pipe | None | None | A53-B-35 |
| 35 | MP-10 | N41 | N48 | | Mount Pipe | None | None | A53-B-35 |
| 36 | MP-11 | N40 | N47 | | Mount Pipe | None | None | A53-B-35 |
| 37 | MP-13 | N45 | N47 | | Mount Pipe | None | None | A53-B-35 |
| 38 | MP-12 | N35A | N49A | | Mount Pipe | None | None | A53-B-35 |
| 39 | MP-1 | N32A | N45A | | Mount Pipe | None | None | A53-B-35 |
| 40 | MP-2 | N64 | N56A | | Mount Pipe | None | None | A53-B-35 |
| 41 | MP-3 | N63 | N55 | | Mount Pipe | None | None | A53-B-35 |
| 42 | MP-4 | N60 | N54 | | Mount Pipe | None | None | A53-B-35 |
| 43 | BP-1 | N58 | N59 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 44 | BP-12 | N67 | N68 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 45 | BP-11 | N82 | N83 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 46 | BP-10 | N85 | N86 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 47 | BP-9 | N91 | N92 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 48 | BP-8 | N100 | N101 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 49 | BP-7 | N112 | N113 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 50 | BP-6 | N121 | N122 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 51 | BP-5 | N130 | N131 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 52 | BP-4 | N142 | N143 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 53 | BP-3 | N151A | N152 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 54 | BP-2 | N154 | N155 | 90 | MP Base Plate | None | None | A36 Gr.36 |
| 55 | M56 | N82A | N30 | 270 | Edge Support | None | None | A36 Gr.36 |
| 56 | M57A | N83A | N6 | 270 | Edge Support | None | None | A36 Gr.36 |
| 57 | M58 | N84 | N21 | 270 | Edge Support | None | None | A36 Gr.36 |
| 58 | M59 | N85A | N31 | 270 | Edge Support | None | None | A36 Gr.36 |
| 59 | M60 | N86A | N10 | 270 | Edge Support | None | None | A36 Gr.36 |
| 60 | M61A | N87 | N12 | 270 | Edge Support | None | None | A36 Gr.36 |
| 61 | M62 | N88 | N20 | 270 | Edge Support | None | None | A36 Gr.36 |
| 62 | M63 | N89 | N33 | 270 | Edge Support | None | None | A36 Gr.36 |
| 63 | M64A | N90 | N7 | 270 | Edge Support | None | None | A36 Gr.36 |
| 64 | M65 | N91A | N32 | 270 | Edge Support | None | None | A36 Gr.36 |
| 65 | M66 | N92A | N11 | 270 | Edge Support | None | None | A36 Gr.36 |
| 66 | M67A | N93 | N13 | 270 | Edge Support | None | None | A36 Gr.36 |
| 67 | M68 | N95 | N45 | | RIGID | None | None | RIGID |
| 68 | M69 | N96 | N60 | | RIGID | None | None | RIGID |
| 69 | M70 | N56 | N99A | | RIGID | None | None | RIGID |
| 70 | M71 | N63 | N98A | | RIGID | None | None | RIGID |
| 71 | M72 | N64 | N97 | | RIGID | None | None | RIGID |
| 72 | M73 | N32A | N100A | | RIGID | None | None | RIGID |
| 73 | M74 | N35A | N101A | | RIGID | None | None | RIGID |
| 74 | M75 | N53 | N107 | | RIGID | None | None | RIGID |
| 75 | M76 | N50 | N106 | | RIGID | None | None | RIGID |
| 76 | M77 | N46 | N105 | | RIGID | None | None | RIGID |
| 77 | M78 | N43 | N104 | | RIGID | None | None | RIGID |
| 78 | M79 | N41 | N103 | | RIGID | None | None | RIGID |
| 79 | M80 | N40 | N102 | | RIGID | None | None | RIGID |
| 80 | BP-13 | N107B | N107A | 90 | MP Base Plate | None | None | A36 Gr.36 |



Hot Rolled Steel Design Parameters (Continued)

| Label | Stage | Length(ft) | Lbzz(ft) | Lbzz(ft) | Lcomp_top(ft) | Lcomp_bot(ft) | L_torq... | Kyy | Kzz | Cb | Function |
|-------|-------|--------------|----------|----------|---------------|---------------|-----------|-----|-----|----|----------|
| 29 | M/29 | Edge Support | 1.397 | | | | | .65 | .65 | | Lateral |
| 30 | MP-5 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 31 | MP-6 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 32 | MP-7 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 33 | MP-8 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 34 | MP-9 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 35 | MP-10 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 36 | MP-11 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 37 | MP-12 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 38 | MP-13 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 39 | MP-1 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 40 | MP-2 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 41 | MP-3 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 42 | MP-4 | Mount Pipe | 8 | Segment | | | | 2.1 | 2.1 | | Lateral |
| 43 | BP-1 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 44 | BP-12 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 45 | BP-11 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 46 | BP-10 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 47 | BP-9 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 48 | BP-8 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 49 | BP-7 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 50 | BP-6 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 51 | BP-5 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 52 | BP-4 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 53 | BP-3 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 54 | BP-2 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |
| 55 | M/56 | Edge Support | 1.377 | | | | | .65 | .65 | | Lateral |
| 56 | M/57A | Edge Support | 1.377 | | | | | .65 | .65 | | Lateral |
| 57 | M/58 | Edge Support | 1.389 | | | | | .65 | .65 | | Lateral |
| 58 | M/59 | Edge Support | 1.377 | | | | | .65 | .65 | | Lateral |
| 59 | M/60 | Edge Support | 1.397 | | | | | .65 | .65 | | Lateral |
| 60 | M/61A | Edge Support | 1.389 | | | | | .65 | .65 | | Lateral |
| 61 | M/62 | Edge Support | 1.389 | | | | | .65 | .65 | | Lateral |
| 62 | M/63 | Edge Support | 1.397 | | | | | .65 | .65 | | Lateral |
| 63 | M/64A | Edge Support | 1.377 | | | | | .65 | .65 | | Lateral |
| 64 | M/65 | Edge Support | 1.377 | | | | | .65 | .65 | | Lateral |
| 65 | M/66 | Edge Support | 1.397 | | | | | .65 | .65 | | Lateral |
| 66 | M/67A | Edge Support | 1.389 | | | | | .65 | .65 | | Lateral |
| 67 | BP-13 | MP Base Pl. | .833 | | | | | .65 | .65 | | Lateral |

Cold Formed Steel Design Parameters

| Label | Shape | Length... | Lbzz(ft) | Lbzz(ft) | Lcomp_top... | Lcomp_bot... | Kyy | Kzz | Om-y/Om-zz | Cb | R | y_sway/z_sway |
|----------------------|-------|-----------|----------|----------|--------------|--------------|-----|-----|------------|----|---|---------------|
| No Data to Print ... | | | | | | | | | | | | |

Basic Load Cases

| BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... Surface/P... |
|-----------------|-------------------|-----------|-----------|-----------|-------|-------|-------------------------------------|
| 1 | Dead | None | | | | 32 | 21 |
| 2 | 0 Wind - No Ice | -1 | | | | 32 | 67 |
| 3 | 30 Wind - No Ice | | | | | 64 | 134 |
| 4 | 45 Wind - No Ice | | | | | 64 | 134 |
| 5 | 60 Wind - No Ice | | | | | 64 | 134 |
| 6 | 90 Wind - No Ice | | | | | 32 | 67 |
| 7 | 120 Wind - No Ice | | | | | 64 | 134 |
| 8 | 135 Wind - No Ice | | | | | 64 | 134 |



Basic Load Cases (Continued)

| BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... Surface/P... |
|-----------------|-------------------------|-----------|-----------|-----------|-------|-------|-------------------------------------|
| 9 | 150 Wind - No Ice | None | | | | 64 | 134 |
| 10 | 180 Wind - No Ice | None | | | | 32 | 67 |
| 11 | 210 Wind - No Ice | None | | | | 64 | 134 |
| 12 | 225 Wind - No Ice | None | | | | 64 | 134 |
| 13 | 240 Wind - No Ice | None | | | | 64 | 134 |
| 14 | 270 Wind - No Ice | None | | | | 32 | 67 |
| 15 | 300 Wind - No Ice | None | | | | 64 | 134 |
| 16 | 315 Wind - No Ice | None | | | | 64 | 134 |
| 17 | 330 Wind - No Ice | None | | | | 64 | 134 |
| 18 | Ice Weight | None | | | | 32 | 67 |
| 19 | 0 Wind - Ice | None | | | | 32 | 67 |
| 20 | 30 Wind - Ice | None | | | | 64 | 134 |
| 21 | 45 Wind - Ice | None | | | | 64 | 134 |
| 22 | 60 Wind - Ice | None | | | | 64 | 134 |
| 23 | 90 Wind - Ice | None | | | | 32 | 67 |
| 24 | 120 Wind - Ice | None | | | | 64 | 134 |
| 25 | 135 Wind - Ice | None | | | | 64 | 134 |
| 26 | 150 Wind - Ice | None | | | | 64 | 134 |
| 27 | 180 Wind - Ice | None | | | | 32 | 67 |
| 28 | 210 Wind - Ice | None | | | | 64 | 134 |
| 29 | 225 Wind - Ice | None | | | | 64 | 134 |
| 30 | 240 Wind - Ice | None | | | | 64 | 134 |
| 31 | 270 Wind - Ice | None | | | | 32 | 67 |
| 32 | 300 Wind - Ice | None | | | | 64 | 134 |
| 33 | 315 Wind - Ice | None | | | | 64 | 134 |
| 34 | 330 Wind - Ice | None | | | | 64 | 134 |
| 35 | Lm | None | | | 1 | | |
| 36 | Lv | None | | | 1 | | |
| 37 | Seismic Load X | ELX | | | | 32 | |
| 38 | Seismic Load Z | ELZ | -1 | | | 32 | |
| 39 | BLC 1 Transient Area... | None | | | | | 304 |

Load Combinations

| Description | Sol. | FD. | SR. | BLC Fact... | BLC Fact... | BLC Fact... | BLC Fact... | BLC Fact... | BLC Fact... | BLC Fact... |
|-------------|-------------|-----|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 1,4D | Yes | Y | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 0.9D+1.0... | Yes | Y | 1 | 9 | 2 | 1 | | | |
| 3 | 0.9D+1.0... | Yes | Y | 1 | 9 | 3 | 1 | | | |
| 4 | 0.9D+1.0... | Yes | Y | 1 | 9 | 4 | 1 | | | |
| 5 | 0.9D+1.0... | Yes | Y | 1 | 9 | 5 | 1 | | | |
| 6 | 0.9D+1.0... | Yes | Y | 1 | 9 | 6 | 1 | | | |
| 7 | 0.9D+1.0... | Yes | Y | 1 | 9 | 7 | 1 | | | |
| 8 | 0.9D+1.0... | Yes | Y | 1 | 9 | 8 | 1 | | | |
| 9 | 0.9D+1.0... | Yes | Y | 1 | 9 | 9 | 1 | | | |
| 10 | 0.9D+1.0... | Yes | Y | 1 | 9 | 10 | 1 | | | |
| 11 | 0.9D+1.0... | Yes | Y | 1 | 9 | 11 | 1 | | | |
| 12 | 0.9D+1.0... | Yes | Y | 1 | 9 | 12 | 1 | | | |
| 13 | 0.9D+1.0... | Yes | Y | 1 | 9 | 13 | 1 | | | |
| 14 | 0.9D+1.0... | Yes | Y | 1 | 9 | 14 | 1 | | | |
| 15 | 0.9D+1.0... | Yes | Y | 1 | 9 | 15 | 1 | | | |
| 16 | 0.9D+1.0... | Yes | Y | 1 | 9 | 16 | 1 | | | |
| 17 | 0.9D+1.0... | Yes | Y | 1 | 9 | 17 | 1 | | | |
| 18 | 1.2D+1.0... | Yes | Y | 1 | 12 | 3 | 1 | | | |
| 19 | 1.2D+1.0... | Yes | Y | 1 | 12 | 3 | 1 | | | |
| 20 | 1.2D+1.0... | Yes | Y | 1 | 12 | 4 | 1 | | | |
| 21 | 1.2D+1.0... | Yes | Y | 1 | 12 | 5 | 1 | | | |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
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 Checked By: SEB

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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 23 | MP-2 | -0.26 | 4 |
| 24 | MP-4 | -0.03 | 7 |
| 25 | MP-6 | -0.28 | 7 |
| 26 | MP-7 | -0.4 | 7 |
| 27 | MP-8 | -0.3 | 7 |
| 28 | MP-9 | -0.28 | 7 |
| 29 | MP-11 | -0.4 | 7 |
| 30 | MP-12 | -0.3 | 7 |
| 31 | MP-1 | -0.28 | 7 |
| 32 | MP-3 | -0.4 | 7 |

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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | 0 | 1 |
| 2 | MP-4 | 0 | 4 |
| 3 | MP-4 | 0 | 4 |
| 4 | MP-6 | 0 | 1 |
| 5 | MP-7 | 0 | 1 |
| 6 | MP-7 | 0 | 4 |
| 7 | MP-7 | 0 | 4 |
| 8 | MP-8 | 0 | 1 |
| 9 | MP-8 | 0 | 4 |
| 10 | MP-8 | 0 | 4 |
| 11 | MP-9 | 0 | 1 |
| 12 | MP-11 | 0 | 1 |
| 13 | MP-11 | 0 | 4 |
| 14 | MP-11 | 0 | 4 |
| 15 | MP-12 | 0 | 1 |
| 16 | MP-12 | 0 | 4 |
| 17 | MP-12 | 0 | 4 |
| 18 | MP-1 | 0 | 1 |
| 19 | MP-3 | 0 | 1 |
| 20 | MP-3 | 0 | 4 |
| 21 | MP-3 | 0 | 4 |
| 22 | MP-6 | 0 | 4 |
| 23 | MP-2 | 0 | 4 |
| 24 | MP-4 | 0 | 7 |
| 25 | MP-6 | 0 | 7 |
| 26 | MP-7 | 0 | 7 |
| 27 | MP-8 | 0 | 7 |
| 28 | MP-9 | 0 | 7 |
| 29 | MP-11 | 0 | 7 |
| 30 | MP-12 | 0 | 7 |
| 31 | MP-1 | 0 | 7 |
| 32 | MP-3 | 0 | 7 |

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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | 0 | 1 |
| 2 | MP-4 | 0 | 4 |
| 3 | MP-4 | 0 | 4 |
| 4 | MP-6 | 0 | 1 |
| 5 | MP-7 | 0 | 1 |
| 6 | MP-7 | 0 | 4 |
| 7 | MP-7 | 0 | 4 |
| 8 | MP-8 | 0 | 1 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 9 | MP-8 | 0 | 4 |
| 10 | MP-8 | 0 | 4 |
| 11 | MP-9 | 0 | 1 |
| 12 | MP-11 | 0 | 1 |
| 13 | MP-11 | 0 | 4 |
| 14 | MP-11 | 0 | 4 |
| 15 | MP-12 | 0 | 1 |
| 16 | MP-12 | 0 | 4 |
| 17 | MP-12 | 0 | 4 |
| 18 | MP-1 | 0 | 1 |
| 19 | MP-3 | 0 | 1 |
| 20 | MP-3 | 0 | 4 |
| 21 | MP-3 | 0 | 4 |
| 22 | MP-6 | 0 | 4 |
| 23 | MP-2 | 0 | 4 |
| 24 | MP-4 | 0 | 7 |
| 25 | MP-6 | 0 | 7 |
| 26 | MP-7 | 0 | 7 |
| 27 | MP-8 | 0 | 7 |
| 28 | MP-9 | 0 | 7 |
| 29 | MP-11 | 0 | 7 |
| 30 | MP-12 | 0 | 7 |
| 31 | MP-1 | 0 | 7 |
| 32 | MP-3 | 0 | 7 |
| 33 | MP-4 | 0 | 1 |
| 34 | MP-4 | 0 | 4 |
| 35 | MP-4 | 0 | 4 |
| 36 | MP-6 | 0 | 1 |
| 37 | MP-7 | 0 | 1 |
| 38 | MP-7 | 0 | 4 |
| 39 | MP-7 | 0 | 4 |
| 40 | MP-8 | 0 | 1 |
| 41 | MP-8 | 0 | 4 |
| 42 | MP-8 | 0 | 4 |
| 43 | MP-9 | 0 | 1 |
| 44 | MP-11 | 0 | 1 |
| 45 | MP-11 | 0 | 4 |
| 46 | MP-11 | 0 | 4 |
| 47 | MP-12 | 0 | 1 |
| 48 | MP-12 | 0 | 4 |
| 49 | MP-12 | 0 | 4 |
| 50 | MP-1 | 0 | 1 |
| 51 | MP-3 | 0 | 1 |
| 52 | MP-3 | 0 | 4 |
| 53 | MP-3 | 0 | 4 |
| 54 | MP-6 | 0 | 4 |
| 55 | MP-2 | 0 | 4 |
| 56 | MP-4 | 0 | 7 |
| 57 | MP-6 | 0 | 7 |
| 58 | MP-7 | 0 | 7 |
| 59 | MP-8 | 0 | 7 |
| 60 | MP-9 | 0 | 7 |
| 61 | MP-11 | 0 | 7 |
| 62 | MP-12 | 0 | 7 |
| 63 | MP-1 | 0 | 7 |
| 64 | MP-3 | 0 | 7 |



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

| | Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | X | 0 | 1 |
| 2 | MP-4 | X | 0 | 4 |
| 3 | MP-4 | X | 0 | 4 |
| 4 | MP-6 | X | 0 | 1 |
| 5 | MP-7 | X | 0 | 1 |
| 6 | MP-7 | X | 0 | 4 |
| 7 | MP-7 | X | 0 | 4 |
| 8 | MP-8 | X | 0 | 1 |
| 9 | MP-8 | X | 0 | 4 |
| 10 | MP-8 | X | 0 | 4 |
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-6 | X | 0 | 4 |
| 22 | MP-6 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |
| 33 | MP-4 | X | 0 | 7 |
| 34 | MP-4 | Z | 0 | 4 |
| 35 | MP-4 | Z | 0 | 4 |
| 36 | MP-6 | Z | 0 | 1 |
| 37 | MP-7 | Z | 0 | 1 |
| 38 | MP-7 | Z | 0 | 4 |
| 39 | MP-7 | Z | 0 | 4 |
| 40 | MP-8 | Z | 0 | 1 |
| 41 | MP-8 | Z | 0 | 4 |
| 42 | MP-8 | Z | 0 | 4 |
| 43 | MP-9 | Z | 0 | 1 |
| 44 | MP-11 | Z | 0 | 1 |
| 45 | MP-11 | Z | 0 | 4 |
| 46 | MP-11 | Z | 0 | 4 |
| 47 | MP-12 | Z | 0 | 1 |
| 48 | MP-12 | Z | 0 | 4 |
| 49 | MP-12 | Z | 0 | 4 |
| 50 | MP-1 | Z | 0 | 1 |
| 51 | MP-3 | Z | 0 | 1 |
| 52 | MP-3 | Z | 0 | 4 |
| 53 | MP-3 | Z | 0 | 4 |
| 54 | MP-6 | Z | 0 | 4 |
| 55 | MP-2 | Z | 0 | 4 |
| 56 | MP-4 | Z | 0 | 7 |
| 57 | MP-6 | Z | 0 | 7 |



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

| | Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-7 | Z | 0 | 7 |
| 59 | MP-8 | Z | 0 | 7 |
| 60 | MP-9 | Z | 0 | 7 |
| 61 | MP-11 | Z | 0 | 7 |
| 62 | MP-12 | Z | 0 | 7 |
| 63 | MP-1 | Z | 0 | 7 |
| 64 | MP-3 | Z | 0 | 7 |

| | Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | X | 0 | 1 |
| 2 | MP-4 | X | 0 | 4 |
| 3 | MP-4 | X | 0 | 4 |
| 4 | MP-6 | X | 0 | 1 |
| 5 | MP-7 | X | 0 | 1 |
| 6 | MP-7 | X | 0 | 4 |
| 7 | MP-7 | X | 0 | 4 |
| 8 | MP-8 | X | 0 | 1 |
| 9 | MP-8 | X | 0 | 4 |
| 10 | MP-8 | X | 0 | 4 |
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-3 | X | 0 | 4 |
| 22 | MP-6 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |
| 33 | MP-4 | Z | 0 | 1 |
| 34 | MP-4 | Z | 0 | 4 |
| 35 | MP-4 | Z | 0 | 4 |
| 36 | MP-6 | Z | 0 | 1 |
| 37 | MP-7 | Z | 0 | 1 |
| 38 | MP-7 | Z | 0 | 4 |
| 39 | MP-7 | Z | 0 | 4 |
| 40 | MP-8 | Z | 0 | 1 |
| 41 | MP-8 | Z | 0 | 4 |
| 42 | MP-8 | Z | 0 | 4 |
| 43 | MP-9 | Z | 0 | 1 |
| 44 | MP-11 | Z | 0 | 1 |
| 45 | MP-11 | Z | 0 | 4 |
| 46 | MP-11 | Z | 0 | 4 |



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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|--------------|-----------|-------------------|----------------|
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 7 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|--------------|-----------|-------------------|----------------|
| 1 | Z | 0 | 1 |
| 2 | Z | 0 | 4 |
| 3 | Z | 0 | 4 |
| 4 | Z | 0 | 1 |
| 5 | Z | 0 | 1 |
| 6 | Z | 0 | 4 |
| 7 | Z | 0 | 4 |
| 8 | Z | 0 | 4 |
| 9 | Z | 0 | 4 |
| 10 | Z | 0 | 4 |
| 11 | Z | 0 | 1 |
| 12 | Z | 0 | 1 |
| 13 | Z | 0 | 4 |
| 14 | Z | 0 | 4 |
| 15 | Z | 0 | 1 |
| 16 | Z | 0 | 4 |
| 17 | Z | 0 | 4 |
| 18 | Z | 0 | 1 |
| 19 | Z | 0 | 1 |
| 20 | Z | 0 | 4 |
| 21 | Z | 0 | 4 |
| 22 | Z | 0 | 4 |
| 23 | Z | 0 | 4 |
| 24 | Z | 0 | 7 |
| 25 | Z | 0 | 7 |
| 26 | Z | 0 | 7 |
| 27 | Z | 0 | 7 |
| 28 | Z | 0 | 7 |
| 29 | Z | 0 | 7 |
| 30 | Z | 0 | 7 |
| 31 | Z | 0 | 7 |
| 32 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|--------------|-----------|-------------------|----------------|
| MP-12 | Z | 0 | 1 |
| MP-12 | Z | 0 | 4 |
| MP-12 | Z | 0 | 4 |
| MP-1 | Z | 0 | 1 |
| MP-3 | Z | 0 | 4 |
| MP-3 | Z | 0 | 4 |
| MP-3 | Z | 0 | 4 |
| MP-2 | Z | 0 | 4 |
| MP-4 | Z | 0 | 7 |
| MP-6 | Z | 0 | 7 |
| MP-7 | Z | 0 | 7 |
| MP-8 | Z | 0 | 7 |
| MP-9 | Z | 0 | 7 |
| MP-11 | Z | 0 | 7 |
| MP-11 | Z | 0 | 7 |
| MP-12 | Z | 0 | 7 |
| MP-1 | Z | 0 | 7 |
| MP-3 | Z | 0 | 7 |



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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 4 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | Z | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 4 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 4 |
| 48 | Z | 0 | 1 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 4 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 4 |
| 57 | Z | 0 | 7 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 4 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | X | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 4 |
| 16 | X | 0 | 1 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 4 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | X | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |



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

| | Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|----|--------------|-----------|-------------------|----------------|
| 36 | MP-6 | Z | 0 | 1 |
| 37 | MP-7 | Z | 0 | 1 |
| 38 | MP-7 | Z | 0 | 4 |
| 39 | MP-7 | Z | 0 | 4 |
| 40 | MP-8 | Z | 0 | 1 |
| 41 | MP-8 | Z | 0 | 4 |
| 42 | MP-8 | Z | 0 | 4 |
| 43 | MP-9 | Z | 0 | 1 |
| 44 | MP-11 | Z | 0 | 1 |
| 45 | MP-11 | Z | 0 | 4 |
| 46 | MP-11 | Z | 0 | 4 |
| 47 | MP-12 | Z | 0 | 4 |
| 48 | MP-12 | Z | 0 | 4 |
| 49 | MP-12 | Z | 0 | 4 |
| 50 | MP-1 | Z | 0 | 1 |
| 51 | MP-3 | Z | 0 | 1 |
| 52 | MP-3 | Z | 0 | 4 |
| 53 | MP-3 | Z | 0 | 4 |
| 54 | MP-6 | Z | 0 | 4 |
| 55 | MP-2 | Z | 0 | 4 |
| 56 | MP-4 | Z | 0 | 7 |
| 57 | MP-6 | Z | 0 | 7 |
| 58 | MP-7 | Z | 0 | 7 |
| 59 | MP-8 | Z | 0 | 7 |
| 60 | MP-9 | Z | 0 | 7 |
| 61 | MP-11 | Z | 0 | 7 |
| 62 | MP-12 | Z | 0 | 7 |
| 63 | MP-1 | Z | 0 | 7 |
| 64 | MP-3 | Z | 0 | 7 |

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

| | Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | X | 0 | 1 |
| 2 | MP-4 | X | 0 | 4 |
| 3 | MP-4 | X | 0 | 4 |
| 4 | MP-6 | X | 0 | 1 |
| 5 | MP-7 | X | 0 | 1 |
| 6 | MP-7 | X | 0 | 4 |
| 7 | MP-7 | X | 0 | 4 |
| 8 | MP-8 | X | 0 | 1 |
| 9 | MP-8 | X | 0 | 4 |
| 10 | MP-8 | X | 0 | 4 |
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-3 | X | 0 | 4 |
| 22 | MP-2 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |



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

| | Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|----|--------------|-----------|-------------------|----------------|
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |

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

| | Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | X | 0 | 1 |
| 2 | MP-4 | X | 0 | 4 |
| 3 | MP-4 | X | 0 | 4 |
| 4 | MP-6 | X | 0 | 1 |
| 5 | MP-7 | X | 0 | 1 |
| 6 | MP-7 | X | 0 | 4 |
| 7 | MP-7 | X | 0 | 4 |
| 8 | MP-8 | X | 0 | 1 |
| 9 | MP-8 | X | 0 | 4 |
| 10 | MP-8 | X | 0 | 4 |
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-3 | X | 0 | 4 |
| 22 | MP-6 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |
| 33 | MP-4 | Z | 0 | 1 |
| 34 | MP-4 | Z | 0 | 4 |
| 35 | MP-4 | Z | 0 | 4 |
| 36 | MP-6 | Z | 0 | 1 |
| 37 | MP-7 | Z | 0 | 1 |
| 38 | MP-7 | Z | 0 | 4 |
| 39 | MP-7 | Z | 0 | 4 |
| 40 | MP-8 | Z | 0 | 1 |
| 41 | MP-8 | Z | 0 | 4 |
| 42 | MP-8 | Z | 0 | 4 |
| 43 | MP-9 | Z | 0 | 1 |
| 44 | MP-11 | Z | 0 | 1 |
| 45 | MP-11 | Z | 0 | 4 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 4 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | Z | 0 | 1 |
| 34 | Z | 0 | 4 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 4 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | X | 0 | 7 |
| 34 | X | 0 | 4 |
| 35 | X | 0 | 4 |
| 36 | X | 0 | 4 |
| 37 | X | 0 | 1 |
| 38 | X | 0 | 4 |
| 39 | X | 0 | 4 |
| 40 | X | 0 | 1 |
| 41 | X | 0 | 4 |
| 42 | X | 0 | 4 |
| 43 | X | 0 | 1 |
| 44 | X | 0 | 1 |
| 45 | X | 0 | 4 |
| 46 | X | 0 | 4 |
| 47 | X | 0 | 1 |
| 48 | X | 0 | 4 |
| 49 | X | 0 | 4 |
| 50 | X | 0 | 1 |
| 51 | X | 0 | 4 |
| 52 | X | 0 | 4 |
| 53 | X | 0 | 4 |
| 54 | X | 0 | 4 |
| 55 | X | 0 | 4 |
| 56 | X | 0 | 7 |
| 57 | X | 0 | 7 |
| 58 | X | 0 | 7 |
| 59 | X | 0 | 7 |
| 60 | X | 0 | 7 |
| 61 | X | 0 | 7 |
| 62 | X | 0 | 7 |
| 63 | X | 0 | 7 |
| 64 | X | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | Z | 0 | 1 |
| 2 | Z | 0 | 4 |
| 3 | Z | 0 | 4 |
| 4 | Z | 0 | 1 |
| 5 | Z | 0 | 4 |
| 6 | Z | 0 | 4 |
| 7 | Z | 0 | 4 |
| 8 | Z | 0 | 4 |
| 9 | Z | 0 | 4 |
| 10 | Z | 0 | 4 |
| 11 | Z | 0 | 1 |
| 12 | Z | 0 | 1 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 13 | Z | 0 | 4 |
| 14 | Z | 0 | 4 |
| 15 | Z | 0 | 1 |
| 16 | Z | 0 | 4 |
| 17 | Z | 0 | 4 |
| 18 | Z | 0 | 1 |
| 19 | Z | 0 | 1 |
| 20 | Z | 0 | 4 |
| 21 | Z | 0 | 4 |
| 22 | Z | 0 | 4 |
| 23 | Z | 0 | 4 |
| 24 | Z | 0 | 7 |
| 25 | Z | 0 | 7 |
| 26 | Z | 0 | 7 |
| 27 | Z | 0 | 7 |
| 28 | Z | 0 | 7 |
| 29 | Z | 0 | 7 |
| 30 | Z | 0 | 7 |
| 31 | Z | 0 | 7 |
| 32 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | Z | 0 | 1 |



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

| Member Label | Direction | Magnitude[k-k-ft] | Location[ft-%] |
|--------------|-----------|-------------------|----------------|
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude[k-k-ft] | Location[ft-%] |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |



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

| Member Label | Direction | Magnitude[k-k-ft] | Location[ft-%] |
|--------------|-----------|-------------------|----------------|
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | Z | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude[k-k-ft] | Location[ft-%] |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |



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

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) |
|--------------|-----------|-------------------|----------------|
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | Z | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

Member Point Loads (BLC 18 : Ice Weight)

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) |
|--------------|-----------|-------------------|----------------|
| MP-1 | X | 0 | 1 |
| MP-2 | X | 0 | 4 |
| MP-3 | X | 0 | 4 |
| MP-4 | X | 0 | 4 |
| MP-5 | X | 0 | 1 |
| MP-6 | X | 0 | 1 |
| MP-7 | X | 0 | 4 |
| MP-8 | X | 0 | 4 |
| MP-9 | X | 0 | 4 |
| MP-10 | X | 0 | 4 |
| MP-11 | X | 0 | 1 |
| MP-12 | X | 0 | 4 |
| MP-13 | X | 0 | 4 |
| MP-14 | X | 0 | 4 |
| MP-15 | X | 0 | 1 |
| MP-16 | X | 0 | 4 |
| MP-17 | X | 0 | 4 |
| MP-18 | X | 0 | 4 |
| MP-19 | X | 0 | 1 |
| MP-20 | X | 0 | 4 |
| MP-21 | X | 0 | 4 |



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

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) |
|--------------|-----------|-------------------|----------------|
| 1 | Y | 0 | 1 |
| 2 | Y | 0 | 4 |
| 3 | Y | 0 | 4 |
| 4 | Y | 0 | 1 |
| 5 | Y | 0 | 1 |
| 6 | Y | 0 | 4 |
| 7 | Y | 0 | 4 |
| 8 | Y | 0 | 4 |
| 9 | Y | 0 | 4 |
| 10 | Y | 0 | 4 |
| 11 | Y | 0 | 1 |
| 12 | Y | 0 | 1 |
| 13 | Y | 0 | 4 |
| 14 | Y | 0 | 4 |
| 15 | Y | 0 | 1 |
| 16 | Y | 0 | 4 |
| 17 | Y | 0 | 4 |
| 18 | Y | 0 | 1 |
| 19 | Y | 0 | 1 |
| 20 | Y | 0 | 4 |
| 21 | Y | 0 | 4 |
| 22 | Y | 0 | 4 |
| 23 | Y | 0 | 4 |
| 24 | Y | 0 | 7 |
| 25 | Y | 0 | 7 |
| 26 | Y | 0 | 7 |
| 27 | Y | 0 | 7 |
| 28 | Y | 0 | 7 |
| 29 | Y | 0 | 7 |
| 30 | Y | 0 | 7 |
| 31 | Y | 0 | 7 |
| 32 | Y | 0 | 7 |

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

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 4 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |



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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|--------------|-----------|-------------------|----------------|
| 22 | MP-6 | 0 | 4 |
| 23 | MP-2 | 0 | 4 |
| 24 | MP-4 | 0 | 7 |
| 25 | MP-6 | 0 | 7 |
| 26 | MP-7 | 0 | 7 |
| 27 | MP-8 | 0 | 7 |
| 28 | MP-9 | 0 | 7 |
| 29 | MP-11 | 0 | 7 |
| 30 | MP-12 | 0 | 7 |
| 31 | MP-1 | 0 | 7 |
| 32 | MP-3 | 0 | 7 |

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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | 0 | 1 |
| 2 | MP-4 | 0 | 4 |
| 3 | MP-4 | 0 | 4 |
| 4 | MP-6 | 0 | 1 |
| 5 | MP-7 | 0 | 1 |
| 6 | MP-7 | 0 | 4 |
| 7 | MP-7 | 0 | 4 |
| 8 | MP-8 | 0 | 1 |
| 9 | MP-8 | 0 | 4 |
| 10 | MP-8 | 0 | 4 |
| 11 | MP-9 | 0 | 1 |
| 12 | MP-11 | 0 | 1 |
| 13 | MP-11 | 0 | 4 |
| 14 | MP-11 | 0 | 4 |
| 15 | MP-12 | 0 | 1 |
| 16 | MP-12 | 0 | 4 |
| 17 | MP-12 | 0 | 4 |
| 18 | MP-1 | 0 | 1 |
| 19 | MP-3 | 0 | 1 |
| 20 | MP-3 | 0 | 4 |
| 21 | MP-3 | 0 | 4 |
| 22 | MP-6 | 0 | 4 |
| 23 | MP-2 | 0 | 4 |
| 24 | MP-4 | 0 | 7 |
| 25 | MP-6 | 0 | 7 |
| 26 | MP-7 | 0 | 7 |
| 27 | MP-8 | 0 | 7 |
| 28 | MP-9 | 0 | 7 |
| 29 | MP-11 | 0 | 7 |
| 30 | MP-12 | 0 | 7 |
| 31 | MP-1 | 0 | 7 |
| 32 | MP-3 | 0 | 7 |
| 33 | MP-4 | 0 | 1 |
| 34 | MP-4 | 0 | 4 |
| 35 | MP-4 | 0 | 4 |
| 36 | MP-6 | 0 | 1 |
| 37 | MP-7 | 0 | 1 |
| 38 | MP-7 | 0 | 4 |
| 39 | MP-7 | 0 | 4 |
| 40 | MP-8 | 0 | 1 |
| 41 | MP-8 | 0 | 4 |
| 42 | MP-8 | 0 | 4 |



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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|--------------|-----------|-------------------|----------------|
| 43 | MP-9 | 0 | 1 |
| 44 | MP-11 | 0 | 1 |
| 45 | MP-11 | 0 | 4 |
| 46 | MP-11 | 0 | 4 |
| 47 | MP-12 | 0 | 1 |
| 48 | MP-12 | 0 | 4 |
| 49 | MP-12 | 0 | 4 |
| 50 | MP-1 | 0 | 1 |
| 51 | MP-3 | 0 | 1 |
| 52 | MP-3 | 0 | 4 |
| 53 | MP-3 | 0 | 4 |
| 54 | MP-6 | 0 | 4 |
| 55 | MP-2 | 0 | 4 |
| 56 | MP-4 | 0 | 7 |
| 57 | MP-6 | 0 | 7 |
| 58 | MP-7 | 0 | 7 |
| 59 | MP-8 | 0 | 7 |
| 60 | MP-9 | 0 | 7 |
| 61 | MP-11 | 0 | 7 |
| 62 | MP-12 | 0 | 7 |
| 63 | MP-1 | 0 | 7 |
| 64 | MP-3 | 0 | 7 |

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

| Member Label | Direction | Magnitude(k-k-ft) | Location(ft-%) |
|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | 0 | 1 |
| 2 | MP-4 | 0 | 4 |
| 3 | MP-4 | 0 | 4 |
| 4 | MP-6 | 0 | 1 |
| 5 | MP-7 | 0 | 1 |
| 6 | MP-7 | 0 | 4 |
| 7 | MP-7 | 0 | 4 |
| 8 | MP-8 | 0 | 1 |
| 9 | MP-8 | 0 | 4 |
| 10 | MP-8 | 0 | 4 |
| 11 | MP-9 | 0 | 1 |
| 12 | MP-11 | 0 | 1 |
| 13 | MP-11 | 0 | 4 |
| 14 | MP-11 | 0 | 4 |
| 15 | MP-12 | 0 | 1 |
| 16 | MP-12 | 0 | 4 |
| 17 | MP-12 | 0 | 4 |
| 18 | MP-1 | 0 | 1 |
| 19 | MP-3 | 0 | 1 |
| 20 | MP-3 | 0 | 4 |
| 21 | MP-3 | 0 | 4 |
| 22 | MP-6 | 0 | 4 |
| 23 | MP-2 | 0 | 4 |
| 24 | MP-4 | 0 | 7 |
| 25 | MP-6 | 0 | 7 |
| 26 | MP-7 | 0 | 7 |
| 27 | MP-8 | 0 | 7 |
| 28 | MP-9 | 0 | 7 |
| 29 | MP-11 | 0 | 7 |
| 30 | MP-12 | 0 | 7 |
| 31 | MP-1 | 0 | 7 |



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

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) |
|--------------|-----------|-------------------|----------------|
| 32 | X | 0 | 7 |
| 33 | Z | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 4 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |



Company : Tower Engineering Professionals
 Designer : NPD
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Member Point Loads (BLC-22 : 60 Wind - Ice) (Continued)

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) |
|--------------|-----------|-------------------|----------------|
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | Z | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 4 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k,k-ft) | Location(ft,%) |
|--------------|-----------|-------------------|----------------|
| 1 | Z | 0 | 1 |
| 2 | Z | 0 | 4 |
| 3 | Z | 0 | 4 |
| 4 | Z | 0 | 1 |
| 5 | Z | 0 | 1 |
| 6 | Z | 0 | 4 |
| 7 | Z | 0 | 4 |
| 8 | Z | 0 | 1 |
| 9 | Z | 0 | 4 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
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Member Point Loads (BLC-23 : 90 Wind - Ice) (Continued)

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.-%) |
|--------------|-----------|-------------------|-----------------|
| 10 | Z | 0 | 4 |
| 11 | Z | 0 | 1 |
| 12 | Z | 0 | 1 |
| 13 | Z | 0 | 4 |
| 14 | Z | 0 | 4 |
| 15 | Z | 0 | 1 |
| 16 | Z | 0 | 4 |
| 17 | Z | 0 | 4 |
| 18 | Z | 0 | 1 |
| 19 | Z | 0 | 1 |
| 20 | Z | 0 | 4 |
| 21 | Z | 0 | 4 |
| 22 | Z | 0 | 4 |
| 23 | Z | 0 | 4 |
| 24 | Z | 0 | 7 |
| 25 | Z | 0 | 7 |
| 26 | Z | 0 | 7 |
| 27 | Z | 0 | 7 |
| 28 | Z | 0 | 7 |
| 29 | Z | 0 | 7 |
| 30 | Z | 0 | 7 |
| 31 | Z | 0 | 7 |
| 32 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.-%) |
|--------------|-----------|-------------------|-----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.-%) |
|--------------|-----------|-------------------|-----------------|
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | X | 0 | 1 |
| 34 | X | 0 | 4 |
| 35 | X | 0 | 4 |
| 36 | X | 0 | 1 |
| 37 | X | 0 | 1 |
| 38 | X | 0 | 4 |
| 39 | X | 0 | 4 |
| 40 | X | 0 | 1 |
| 41 | X | 0 | 4 |
| 42 | X | 0 | 4 |
| 43 | X | 0 | 1 |
| 44 | X | 0 | 1 |
| 45 | X | 0 | 4 |
| 46 | X | 0 | 4 |
| 47 | X | 0 | 1 |
| 48 | X | 0 | 4 |
| 49 | X | 0 | 4 |
| 50 | X | 0 | 1 |
| 51 | X | 0 | 1 |
| 52 | X | 0 | 4 |
| 53 | X | 0 | 4 |
| 54 | X | 0 | 4 |
| 55 | X | 0 | 4 |
| 56 | X | 0 | 7 |
| 57 | X | 0 | 7 |
| 58 | X | 0 | 7 |
| 59 | X | 0 | 7 |
| 60 | X | 0 | 7 |
| 61 | X | 0 | 7 |
| 62 | X | 0 | 7 |
| 63 | X | 0 | 7 |
| 64 | X | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.-%) |
|--------------|-----------|-------------------|-----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |



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

| Member Label | Direction | Magnitude[kk-ft] | Location[ft-%] |
|--------------|-----------|------------------|----------------|
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | X | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 4 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude[kk-ft] | Location[ft-%] |
|--------------|-----------|------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |



Company : Tower Engineering Professionals
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Member Point Loads (BLC-26 : 150 Wind - Ice) (Continued)

| Member Label | Direction | Magnitude[kk-ft] | Location[ft-%] |
|--------------|-----------|------------------|----------------|
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | Z | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 4 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 1 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 4 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |



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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | X | 0 | 1 |
| 34 | X | 0 | 4 |
| 35 | X | 0 | 4 |
| 36 | X | 0 | 1 |
| 37 | X | 0 | 1 |
| 38 | X | 0 | 4 |
| 39 | X | 0 | 4 |
| 40 | X | 0 | 4 |
| 41 | X | 0 | 4 |
| 42 | X | 0 | 4 |
| 43 | X | 0 | 1 |
| 44 | X | 0 | 1 |
| 45 | X | 0 | 4 |
| 46 | X | 0 | 4 |
| 47 | X | 0 | 1 |
| 48 | X | 0 | 4 |
| 49 | X | 0 | 4 |
| 50 | X | 0 | 1 |
| 51 | X | 0 | 1 |
| 52 | X | 0 | 4 |
| 53 | X | 0 | 4 |
| 54 | X | 0 | 4 |
| 55 | X | 0 | 4 |
| 56 | X | 0 | 7 |
| 57 | X | 0 | 7 |
| 58 | X | 0 | 7 |
| 59 | X | 0 | 7 |
| 60 | X | 0 | 7 |
| 61 | X | 0 | 7 |
| 62 | X | 0 | 7 |
| 63 | X | 0 | 7 |
| 64 | X | 0 | 7 |

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

| Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|--------------|-----------|-------------------|----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |



Company : Tower Engineering Professionals
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Member Point Loads (BLC 29 : 225 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude(kk-ft) | Location(ft-%) |
|----|--------------|-----------|------------------|----------------|
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-3 | X | 0 | 4 |
| 22 | MP-6 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |
| 33 | MP-4 | Z | 0 | 1 |
| 34 | MP-4 | Z | 0 | 4 |
| 35 | MP-4 | Z | 0 | 4 |
| 36 | MP-6 | Z | 0 | 1 |
| 37 | MP-7 | Z | 0 | 1 |
| 38 | MP-7 | Z | 0 | 4 |
| 39 | MP-7 | Z | 0 | 4 |
| 40 | MP-8 | Z | 0 | 1 |
| 41 | MP-8 | Z | 0 | 4 |
| 42 | MP-8 | Z | 0 | 4 |
| 43 | MP-9 | Z | 0 | 1 |
| 44 | MP-11 | Z | 0 | 1 |
| 45 | MP-11 | Z | 0 | 4 |
| 46 | MP-11 | Z | 0 | 4 |
| 47 | MP-12 | Z | 0 | 1 |
| 48 | MP-12 | Z | 0 | 4 |
| 49 | MP-12 | Z | 0 | 4 |
| 50 | MP-1 | Z | 0 | 1 |
| 51 | MP-3 | Z | 0 | 1 |
| 52 | MP-3 | Z | 0 | 4 |
| 53 | MP-3 | Z | 0 | 4 |
| 54 | MP-6 | Z | 0 | 4 |
| 55 | MP-2 | Z | 0 | 4 |
| 56 | MP-4 | Z | 0 | 7 |
| 57 | MP-6 | Z | 0 | 7 |
| 58 | MP-7 | Z | 0 | 7 |
| 59 | MP-8 | Z | 0 | 7 |
| 60 | MP-9 | Z | 0 | 7 |
| 61 | MP-11 | Z | 0 | 7 |
| 62 | MP-12 | Z | 0 | 7 |
| 63 | MP-1 | Z | 0 | 7 |
| 64 | MP-3 | Z | 0 | 7 |

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

| | Member Label | Direction | Magnitude(kk-ft) | Location(ft-%) |
|----|--------------|-----------|------------------|----------------|
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-3 | X | 0 | 4 |
| 22 | MP-6 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |
| 33 | MP-4 | Z | 0 | 1 |
| 34 | MP-4 | Z | 0 | 4 |
| 35 | MP-4 | Z | 0 | 4 |
| 36 | MP-6 | Z | 0 | 1 |
| 37 | MP-7 | Z | 0 | 1 |
| 38 | MP-7 | Z | 0 | 4 |
| 39 | MP-7 | Z | 0 | 4 |
| 40 | MP-8 | Z | 0 | 1 |
| 41 | MP-8 | Z | 0 | 4 |
| 42 | MP-8 | Z | 0 | 4 |
| 43 | MP-9 | Z | 0 | 1 |
| 44 | MP-11 | Z | 0 | 1 |
| 45 | MP-11 | Z | 0 | 4 |
| 46 | MP-11 | Z | 0 | 4 |
| 47 | MP-12 | Z | 0 | 1 |
| 48 | MP-12 | Z | 0 | 4 |
| 49 | MP-12 | Z | 0 | 4 |
| 50 | MP-1 | Z | 0 | 1 |
| 51 | MP-3 | Z | 0 | 1 |
| 52 | MP-3 | Z | 0 | 4 |
| 53 | MP-3 | Z | 0 | 4 |
| 54 | MP-6 | Z | 0 | 4 |
| 55 | MP-2 | Z | 0 | 4 |
| 56 | MP-4 | Z | 0 | 7 |
| 57 | MP-6 | Z | 0 | 7 |
| 58 | MP-7 | Z | 0 | 7 |
| 59 | MP-8 | Z | 0 | 7 |
| 60 | MP-9 | Z | 0 | 7 |
| 61 | MP-11 | Z | 0 | 7 |
| 62 | MP-12 | Z | 0 | 7 |
| 63 | MP-1 | Z | 0 | 7 |
| 64 | MP-3 | Z | 0 | 7 |

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Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
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Member Point Loads (BLC 30 : 240 Wind - Ice) (Continued)

| | Member Label | Direction | Magnitude(kk-ft) | Location(ft-%) |
|----|--------------|-----------|------------------|----------------|
| 1 | MP-4 | X | 0 | 1 |
| 2 | MP-4 | X | 0 | 4 |
| 3 | MP-4 | X | 0 | 4 |
| 4 | MP-6 | X | 0 | 1 |
| 5 | MP-7 | X | 0 | 1 |
| 6 | MP-7 | X | 0 | 4 |
| 7 | MP-7 | X | 0 | 4 |
| 8 | MP-8 | X | 0 | 1 |
| 9 | MP-8 | X | 0 | 4 |
| 10 | MP-8 | X | 0 | 4 |
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-3 | X | 0 | 4 |
| 22 | MP-6 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |
| 33 | MP-4 | Z | 0 | 1 |
| 34 | MP-4 | Z | 0 | 4 |
| 35 | MP-4 | Z | 0 | 4 |
| 36 | MP-6 | Z | 0 | 1 |
| 37 | MP-7 | Z | 0 | 1 |
| 38 | MP-7 | Z | 0 | 4 |
| 39 | MP-7 | Z | 0 | 4 |
| 40 | MP-8 | Z | 0 | 1 |
| 41 | MP-8 | Z | 0 | 4 |
| 42 | MP-8 | Z | 0 | 4 |
| 43 | MP-9 | Z | 0 | 1 |
| 44 | MP-11 | Z | 0 | 1 |
| 45 | MP-11 | Z | 0 | 4 |
| 46 | MP-11 | Z | 0 | 4 |
| 47 | MP-12 | Z | 0 | 1 |
| 48 | MP-12 | Z | 0 | 4 |
| 49 | MP-12 | Z | 0 | 4 |
| 50 | MP-1 | Z | 0 | 1 |
| 51 | MP-3 | Z | 0 | 1 |
| 52 | MP-3 | Z | 0 | 4 |
| 53 | MP-3 | Z | 0 | 4 |
| 54 | MP-6 | Z | 0 | 4 |
| 55 | MP-2 | Z | 0 | 4 |
| 56 | MP-4 | Z | 0 | 7 |
| 57 | MP-6 | Z | 0 | 7 |
| 58 | MP-7 | Z | 0 | 7 |
| 59 | MP-8 | Z | 0 | 7 |
| 60 | MP-9 | Z | 0 | 7 |
| 61 | MP-11 | Z | 0 | 7 |
| 62 | MP-12 | Z | 0 | 7 |
| 63 | MP-1 | Z | 0 | 7 |
| 64 | MP-3 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.-%] |
|--------------|-----------|-------------------|-----------------|
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.-%] |
|--------------|-----------|-------------------|-----------------|
| 1 | Z | 0 | 1 |
| 2 | Z | 0 | 4 |
| 3 | Z | 0 | 4 |
| 4 | Z | 0 | 1 |
| 5 | Z | 0 | 1 |
| 6 | Z | 0 | 4 |
| 7 | Z | 0 | 4 |
| 8 | Z | 0 | 1 |
| 9 | Z | 0 | 4 |
| 10 | Z | 0 | 4 |
| 11 | Z | 0 | 1 |
| 12 | Z | 0 | 1 |
| 13 | Z | 0 | 4 |
| 14 | Z | 0 | 4 |
| 15 | Z | 0 | 1 |
| 16 | Z | 0 | 4 |
| 17 | Z | 0 | 4 |
| 18 | Z | 0 | 1 |
| 19 | Z | 0 | 1 |
| 20 | Z | 0 | 4 |
| 21 | Z | 0 | 4 |
| 22 | Z | 0 | 4 |
| 23 | Z | 0 | 4 |
| 24 | Z | 0 | 7 |
| 25 | Z | 0 | 7 |
| 26 | Z | 0 | 7 |
| 27 | Z | 0 | 7 |
| 28 | Z | 0 | 7 |
| 29 | Z | 0 | 7 |
| 30 | Z | 0 | 7 |
| 31 | Z | 0 | 7 |
| 32 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.-%] |
|--------------|-----------|-------------------|-----------------|
| 1 | X | 0 | 1 |
| 2 | X | 0 | 4 |
| 3 | X | 0 | 4 |
| 4 | X | 0 | 1 |
| 5 | X | 0 | 1 |
| 6 | X | 0 | 4 |
| 7 | X | 0 | 4 |
| 8 | X | 0 | 1 |
| 9 | X | 0 | 4 |
| 10 | X | 0 | 4 |
| 11 | X | 0 | 1 |

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

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.-%] |
|--------------|-----------|-------------------|-----------------|
| 12 | X | 0 | 1 |
| 13 | X | 0 | 4 |
| 14 | X | 0 | 4 |
| 15 | X | 0 | 1 |
| 16 | X | 0 | 4 |
| 17 | X | 0 | 4 |
| 18 | X | 0 | 1 |
| 19 | X | 0 | 1 |
| 20 | X | 0 | 4 |
| 21 | X | 0 | 4 |
| 22 | X | 0 | 4 |
| 23 | X | 0 | 4 |
| 24 | X | 0 | 7 |
| 25 | X | 0 | 7 |
| 26 | X | 0 | 7 |
| 27 | X | 0 | 7 |
| 28 | X | 0 | 7 |
| 29 | X | 0 | 7 |
| 30 | X | 0 | 7 |
| 31 | X | 0 | 7 |
| 32 | X | 0 | 7 |
| 33 | X | 0 | 1 |
| 34 | Z | 0 | 4 |
| 35 | Z | 0 | 4 |
| 36 | Z | 0 | 1 |
| 37 | Z | 0 | 1 |
| 38 | Z | 0 | 4 |
| 39 | Z | 0 | 4 |
| 40 | Z | 0 | 1 |
| 41 | Z | 0 | 4 |
| 42 | Z | 0 | 4 |
| 43 | Z | 0 | 1 |
| 44 | Z | 0 | 1 |
| 45 | Z | 0 | 4 |
| 46 | Z | 0 | 4 |
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

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

| Member Label | Direction | Magnitude[k.k-ft] | Location[ft.-%] |
|--------------|-----------|-------------------|-----------------|
| 1 | Z | 0 | 1 |
| 2 | Z | 0 | 4 |
| 3 | Z | 0 | 4 |
| 4 | Z | 0 | 1 |
| 5 | Z | 0 | 1 |
| 6 | Z | 0 | 4 |
| 7 | Z | 0 | 4 |
| 8 | Z | 0 | 1 |
| 9 | Z | 0 | 4 |
| 10 | Z | 0 | 4 |
| 11 | Z | 0 | 1 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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

| | Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | X | 0 | 1 |
| 2 | MP-4 | X | 0 | 4 |
| 3 | MP-4 | X | 0 | 4 |
| 4 | MP-6 | X | 0 | 1 |
| 5 | MP-7 | X | 0 | 1 |
| 6 | MP-7 | X | 0 | 4 |
| 7 | MP-7 | X | 0 | 4 |
| 8 | MP-8 | X | 0 | 1 |
| 9 | MP-8 | X | 0 | 4 |
| 10 | MP-8 | X | 0 | 4 |
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-3 | X | 0 | 4 |
| 22 | MP-6 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |
| 33 | MP-4 | X | 0 | 7 |
| 34 | MP-4 | X | 0 | 4 |
| 35 | MP-4 | X | 0 | 4 |
| 36 | MP-6 | X | 0 | 1 |
| 37 | MP-7 | X | 0 | 1 |
| 38 | MP-7 | X | 0 | 4 |
| 39 | MP-7 | X | 0 | 4 |
| 40 | MP-8 | X | 0 | 1 |
| 41 | MP-8 | X | 0 | 4 |
| 42 | MP-8 | X | 0 | 4 |
| 43 | MP-9 | X | 0 | 1 |
| 44 | MP-11 | X | 0 | 1 |
| 45 | MP-11 | X | 0 | 4 |
| 46 | MP-11 | X | 0 | 4 |
| 47 | MP-12 | X | 0 | 1 |
| 48 | MP-12 | X | 0 | 4 |
| 49 | MP-12 | X | 0 | 4 |
| 50 | MP-1 | X | 0 | 1 |
| 51 | MP-3 | X | 0 | 1 |
| 52 | MP-3 | X | 0 | 4 |
| 53 | MP-3 | X | 0 | 4 |
| 54 | MP-6 | X | 0 | 4 |
| 55 | MP-2 | X | 0 | 4 |
| 56 | MP-4 | X | 0 | 7 |
| 57 | MP-6 | X | 0 | 7 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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

| | Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|----|--------------|-----------|-------------------|----------------|
| 58 | MP-7 | Z | 0 | 7 |
| 59 | MP-8 | Z | 0 | 7 |
| 60 | MP-9 | Z | 0 | 7 |
| 61 | MP-11 | Z | 0 | 7 |
| 62 | MP-12 | Z | 0 | 7 |
| 63 | MP-1 | Z | 0 | 7 |
| 64 | MP-3 | Z | 0 | 7 |

| | Member Label | Direction | Magnitude(k.k-ft) | Location(ft.%) |
|----|--------------|-----------|-------------------|----------------|
| 1 | MP-4 | X | 0 | 1 |
| 2 | MP-4 | X | 0 | 4 |
| 3 | MP-4 | X | 0 | 4 |
| 4 | MP-6 | X | 0 | 1 |
| 5 | MP-7 | X | 0 | 1 |
| 6 | MP-7 | X | 0 | 4 |
| 7 | MP-7 | X | 0 | 4 |
| 8 | MP-8 | X | 0 | 1 |
| 9 | MP-8 | X | 0 | 4 |
| 10 | MP-8 | X | 0 | 4 |
| 11 | MP-9 | X | 0 | 1 |
| 12 | MP-11 | X | 0 | 1 |
| 13 | MP-11 | X | 0 | 4 |
| 14 | MP-11 | X | 0 | 4 |
| 15 | MP-12 | X | 0 | 1 |
| 16 | MP-12 | X | 0 | 4 |
| 17 | MP-12 | X | 0 | 4 |
| 18 | MP-1 | X | 0 | 1 |
| 19 | MP-3 | X | 0 | 1 |
| 20 | MP-3 | X | 0 | 4 |
| 21 | MP-3 | X | 0 | 4 |
| 22 | MP-6 | X | 0 | 4 |
| 23 | MP-2 | X | 0 | 4 |
| 24 | MP-4 | X | 0 | 7 |
| 25 | MP-6 | X | 0 | 7 |
| 26 | MP-7 | X | 0 | 7 |
| 27 | MP-8 | X | 0 | 7 |
| 28 | MP-9 | X | 0 | 7 |
| 29 | MP-11 | X | 0 | 7 |
| 30 | MP-12 | X | 0 | 7 |
| 31 | MP-1 | X | 0 | 7 |
| 32 | MP-3 | X | 0 | 7 |
| 33 | MP-4 | X | 0 | 1 |
| 34 | MP-4 | X | 0 | 4 |
| 35 | MP-4 | X | 0 | 4 |
| 36 | MP-6 | X | 0 | 1 |
| 37 | MP-7 | X | 0 | 1 |
| 38 | MP-7 | X | 0 | 4 |
| 39 | MP-7 | X | 0 | 4 |
| 40 | MP-8 | X | 0 | 1 |
| 41 | MP-8 | X | 0 | 4 |
| 42 | MP-8 | X | 0 | 4 |
| 43 | MP-9 | X | 0 | 1 |
| 44 | MP-11 | X | 0 | 1 |
| 45 | MP-11 | X | 0 | 4 |
| 46 | MP-11 | X | 0 | 4 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

| Member Label | Direction | Magnitude(k-ft) | Location(ft.%) |
|--------------|-----------|-----------------|----------------|
| 47 | Z | 0 | 1 |
| 48 | Z | 0 | 4 |
| 49 | Z | 0 | 4 |
| 50 | Z | 0 | 1 |
| 51 | Z | 0 | 1 |
| 52 | Z | 0 | 4 |
| 53 | Z | 0 | 4 |
| 54 | Z | 0 | 4 |
| 55 | Z | 0 | 4 |
| 56 | Z | 0 | 7 |
| 57 | Z | 0 | 7 |
| 58 | Z | 0 | 7 |
| 59 | Z | 0 | 7 |
| 60 | Z | 0 | 7 |
| 61 | Z | 0 | 7 |
| 62 | Z | 0 | 7 |
| 63 | Z | 0 | 7 |
| 64 | Z | 0 | 7 |

Member Point Loads (BLC 37 : Seismic Load X)

| Member Label | Direction | Magnitude(k-ft) | Location(ft.%) |
|--------------|-----------|-----------------|----------------|
| 1 | X | -0.03 | 1 |
| 2 | X | -0.53 | 4 |
| 3 | X | -0.43 | 4 |
| 4 | X | -0.28 | 1 |
| 5 | X | -0.04 | 1 |
| 6 | X | -0.71 | 4 |
| 7 | X | -0.48 | 4 |
| 8 | X | -0.03 | 1 |
| 9 | X | -0.53 | 4 |
| 10 | X | -0.43 | 4 |
| 11 | X | -0.28 | 1 |
| 12 | X | -0.04 | 1 |
| 13 | X | -0.71 | 4 |
| 14 | X | -0.48 | 4 |
| 15 | X | -0.03 | 1 |
| 16 | X | -0.53 | 4 |
| 17 | X | -0.43 | 4 |
| 18 | X | -0.28 | 1 |
| 19 | X | -0.04 | 1 |
| 20 | X | -0.71 | 4 |
| 21 | X | -0.48 | 4 |
| 22 | X | -0.03 | 1 |
| 23 | X | -0.53 | 4 |
| 24 | X | -0.43 | 4 |
| 25 | X | -0.28 | 1 |
| 26 | X | -0.04 | 1 |
| 27 | X | -0.71 | 4 |
| 28 | X | -0.48 | 4 |
| 29 | X | -0.03 | 1 |
| 30 | X | -0.53 | 4 |
| 31 | X | -0.43 | 4 |
| 32 | X | -0.28 | 1 |

Member Point Loads (BLC 38 : Seismic Load Z)

| Member Label | Direction | Magnitude(k-ft) | Location(ft.%) |
|--------------|-----------|-----------------|----------------|
| MP-12 | Z | 0 | 1 |
| MP-12 | Z | 0 | 4 |
| MP-1 | Z | 0 | 1 |
| MP-3 | Z | 0 | 1 |
| MP-3 | Z | 0 | 4 |
| MP-3 | Z | 0 | 4 |
| MP-2 | Z | 0 | 4 |
| MP-4 | Z | 0 | 7 |
| MP-6 | Z | 0 | 7 |
| MP-7 | Z | 0 | 7 |
| MP-8 | Z | 0 | 7 |
| MP-9 | Z | 0 | 7 |
| MP-11 | Z | 0 | 7 |
| MP-12 | Z | 0 | 7 |
| MP-1 | Z | 0 | 7 |
| MP-3 | Z | 0 | 7 |



Company : Tower Engineering Professionals
 Designer : NPD
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 Model Name : COI BU No. 800529

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

| Member Label | Direction | Magnitude(k-ft) | Location(ft.%) |
|--------------|-----------|-----------------|----------------|
| 1 | Z | -0.03 | 1 |
| 2 | Z | -0.53 | 4 |
| 3 | Z | -0.43 | 4 |
| 4 | Z | -0.28 | 1 |
| 5 | Z | -0.04 | 1 |
| 6 | Z | -0.71 | 4 |
| 7 | Z | -0.48 | 4 |
| 8 | Z | -0.03 | 1 |
| 9 | Z | -0.53 | 4 |
| 10 | Z | -0.43 | 4 |
| 11 | Z | -0.28 | 1 |
| 12 | Z | -0.04 | 1 |
| 13 | Z | -0.71 | 4 |
| 14 | Z | -0.48 | 4 |
| 15 | Z | -0.03 | 1 |
| 16 | Z | -0.53 | 4 |
| 17 | Z | -0.43 | 4 |
| 18 | Z | -0.28 | 1 |
| 19 | Z | -0.04 | 1 |
| 20 | Z | -0.71 | 4 |
| 21 | Z | -0.48 | 4 |
| 22 | Z | -0.03 | 1 |
| 23 | Z | -0.53 | 4 |
| 24 | Z | -0.43 | 4 |
| 25 | Z | -0.28 | 1 |
| 26 | Z | -0.04 | 1 |
| 27 | Z | -0.71 | 4 |
| 28 | Z | -0.48 | 4 |
| 29 | Z | -0.03 | 1 |
| 30 | Z | -0.53 | 4 |
| 31 | Z | -0.43 | 4 |
| 32 | Z | -0.28 | 1 |

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 | X | 0 | 0 | 0 | %100 |
| 2 | X | 0 | 0 | 0 | %100 |
| 3 | X | 0 | 0 | 0 | %100 |
| 4 | X | 0 | 0 | 0 | %100 |
| 5 | X | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| M21 | X | 0 | 0 | 0 | %100 |
| M22 | X | 0 | 0 | 0 | %100 |
| M23 | X | 0 | 0 | 0 | %100 |
| M24 | X | 0 | 0 | 0 | %100 |
| M25 | X | 0 | 0 | 0 | %100 |
| M26 | X | 0 | 0 | 0 | %100 |
| M27 | X | 0 | 0 | 0 | %100 |
| M28 | X | 0 | 0 | 0 | %100 |
| M29 | X | 0 | 0 | 0 | %100 |
| M30 | X | 0 | 0 | 0 | %100 |
| M31 | X | 0 | 0 | 0 | %100 |
| M32 | X | 0 | 0 | 0 | %100 |
| M33 | X | 0 | 0 | 0 | %100 |
| M34 | X | 0 | 0 | 0 | %100 |
| M35 | X | 0 | 0 | 0 | %100 |
| M36 | X | 0 | 0 | 0 | %100 |
| M37 | X | 0 | 0 | 0 | %100 |
| M38 | X | 0 | 0 | 0 | %100 |
| M39 | X | 0 | 0 | 0 | %100 |
| M40 | X | 0 | 0 | 0 | %100 |
| M41 | X | 0 | 0 | 0 | %100 |
| M42 | X | 0 | 0 | 0 | %100 |
| M43 | X | 0 | 0 | 0 | %100 |
| M44 | X | 0 | 0 | 0 | %100 |
| M45 | X | 0 | 0 | 0 | %100 |
| M46 | X | 0 | 0 | 0 | %100 |
| M47 | X | 0 | 0 | 0 | %100 |
| M48 | X | 0 | 0 | 0 | %100 |
| M49 | X | 0 | 0 | 0 | %100 |
| M50 | X | 0 | 0 | 0 | %100 |
| M51 | X | 0 | 0 | 0 | %100 |
| M52 | X | 0 | 0 | 0 | %100 |
| M53 | X | 0 | 0 | 0 | %100 |
| M54 | X | 0 | 0 | 0 | %100 |
| M55 | X | 0 | 0 | 0 | %100 |
| M56 | X | 0 | 0 | 0 | %100 |
| M57 | X | 0 | 0 | 0 | %100 |
| M58 | X | 0 | 0 | 0 | %100 |
| M59 | X | 0 | 0 | 0 | %100 |
| M60 | X | 0 | 0 | 0 | %100 |
| M61 | X | 0 | 0 | 0 | %100 |
| M62 | X | 0 | 0 | 0 | %100 |
| M63 | X | 0 | 0 | 0 | %100 |
| M64 | X | 0 | 0 | 0 | %100 |
| M65 | X | 0 | 0 | 0 | %100 |
| M66 | X | 0 | 0 | 0 | %100 |
| M67 | X | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | X | 0 | 0 | 0 | %100 |
| 2 | X | 0 | 0 | 0 | %100 |
| 3 | X | 0 | 0 | 0 | %100 |
| 4 | X | 0 | 0 | 0 | %100 |
| 5 | X | 0 | 0 | 0 | %100 |
| 6 | X | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| M7 | X | 0 | 0 | 0 | %100 |
| M8 | X | 0 | 0 | 0 | %100 |
| M9 | X | 0 | 0 | 0 | %100 |
| M10 | X | 0 | 0 | 0 | %100 |
| M11 | X | 0 | 0 | 0 | %100 |
| M12 | X | 0 | 0 | 0 | %100 |
| M13 | X | 0 | 0 | 0 | %100 |
| M14 | X | 0 | 0 | 0 | %100 |
| M15 | X | 0 | 0 | 0 | %100 |
| M16 | X | 0 | 0 | 0 | %100 |
| M17 | X | 0 | 0 | 0 | %100 |
| M18 | X | 0 | 0 | 0 | %100 |
| M19 | X | 0 | 0 | 0 | %100 |
| M20 | X | 0 | 0 | 0 | %100 |
| M21 | X | 0 | 0 | 0 | %100 |
| M22 | X | 0 | 0 | 0 | %100 |
| M23 | X | 0 | 0 | 0 | %100 |
| M24 | X | 0 | 0 | 0 | %100 |
| M25 | X | 0 | 0 | 0 | %100 |
| M26 | X | 0 | 0 | 0 | %100 |
| M27 | X | 0 | 0 | 0 | %100 |
| M28 | X | 0 | 0 | 0 | %100 |
| M29 | X | 0 | 0 | 0 | %100 |
| M30 | X | 0 | 0 | 0 | %100 |
| M31 | X | 0 | 0 | 0 | %100 |
| M32 | X | 0 | 0 | 0 | %100 |
| M33 | X | 0 | 0 | 0 | %100 |
| M34 | X | 0 | 0 | 0 | %100 |
| M35 | X | 0 | 0 | 0 | %100 |
| M36 | X | 0 | 0 | 0 | %100 |
| M37 | X | 0 | 0 | 0 | %100 |
| M38 | X | 0 | 0 | 0 | %100 |
| M39 | X | 0 | 0 | 0 | %100 |
| M40 | X | 0 | 0 | 0 | %100 |
| M41 | X | 0 | 0 | 0 | %100 |
| M42 | X | 0 | 0 | 0 | %100 |
| M43 | X | 0 | 0 | 0 | %100 |
| M44 | X | 0 | 0 | 0 | %100 |
| M45 | X | 0 | 0 | 0 | %100 |
| M46 | X | 0 | 0 | 0 | %100 |
| M47 | X | 0 | 0 | 0 | %100 |
| M48 | X | 0 | 0 | 0 | %100 |
| M49 | X | 0 | 0 | 0 | %100 |
| M50 | X | 0 | 0 | 0 | %100 |
| M51 | X | 0 | 0 | 0 | %100 |
| M52 | X | 0 | 0 | 0 | %100 |
| M53 | X | 0 | 0 | 0 | %100 |
| M54 | X | 0 | 0 | 0 | %100 |
| M55 | X | 0 | 0 | 0 | %100 |
| M56 | X | 0 | 0 | 0 | %100 |
| M57 | X | 0 | 0 | 0 | %100 |
| M58 | X | 0 | 0 | 0 | %100 |
| M59 | X | 0 | 0 | 0 | %100 |
| M60 | X | 0 | 0 | 0 | %100 |
| M61 | X | 0 | 0 | 0 | %100 |
| M62 | X | 0 | 0 | 0 | %100 |
| M63 | X | 0 | 0 | 0 | %100 |
| M64 | X | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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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.%) |
|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-12 | Z | 0 | 0 | %100 |
| 105 | MP-1 | Z | 0 | 0 | %100 |
| 106 | MP-2 | Z | 0 | 0 | %100 |
| 107 | MP-3 | Z | 0 | 0 | %100 |
| 108 | MP-4 | Z | 0 | 0 | %100 |
| 109 | BP-1 | Z | 0 | 0 | %100 |
| 110 | BP-2 | Z | 0 | 0 | %100 |
| 111 | BP-11 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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.%) |
|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 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 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |
| 5 | SF1-BH | X | 0 | 0 | %100 |
| 6 | M6 | X | 0 | 0 | %100 |
| 7 | M7 | X | 0 | 0 | %100 |
| 8 | M8 | X | 0 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M10 | X | 0 | 0 | %100 |
| 11 | M11 | X | 0 | 0 | %100 |
| 12 | M12 | X | 0 | 0 | %100 |
| 13 | M13 | X | 0 | 0 | %100 |
| 14 | M14 | X | 0 | 0 | %100 |
| 15 | M15 | X | 0 | 0 | %100 |
| 16 | M16 | X | 0 | 0 | %100 |
| 17 | M17 | X | 0 | 0 | %100 |
| 18 | M18 | X | 0 | 0 | %100 |
| 19 | M19 | X | 0 | 0 | %100 |
| 20 | M20 | X | 0 | 0 | %100 |
| 21 | M21 | X | 0 | 0 | %100 |
| 22 | M22 | X | 0 | 0 | %100 |
| 23 | M23 | X | 0 | 0 | %100 |
| 24 | M24 | X | 0 | 0 | %100 |
| 25 | M25 | X | 0 | 0 | %100 |
| 26 | M26 | X | 0 | 0 | %100 |
| 27 | M27 | X | 0 | 0 | %100 |
| 28 | M28 | X | 0 | 0 | %100 |
| 29 | M29 | X | 0 | 0 | %100 |
| 30 | MP-5 | X | 0 | 0 | %100 |
| 31 | MP-6 | X | 0 | 0 | %100 |
| 32 | MP-7 | X | 0 | 0 | %100 |
| 33 | MP-8 | X | 0 | 0 | %100 |
| 34 | MP-9 | X | 0 | 0 | %100 |
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-11 | X | 0 | 0 | %100 |
| 38 | MP-12 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |
| 5 | SF1-BH | X | 0 | 0 | %100 |
| 6 | M6 | X | 0 | 0 | %100 |
| 7 | M7 | X | 0 | 0 | %100 |
| 8 | M8 | X | 0 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M10 | X | 0 | 0 | %100 |
| 11 | M11 | X | 0 | 0 | %100 |
| 12 | M12 | X | 0 | 0 | %100 |
| 13 | M13 | X | 0 | 0 | %100 |
| 14 | M14 | X | 0 | 0 | %100 |
| 15 | M15 | X | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 16 | M16 | X | 0 | 0 | %100 |
| 17 | M17 | X | 0 | 0 | %100 |
| 18 | M18 | X | 0 | 0 | %100 |
| 19 | M19 | X | 0 | 0 | %100 |
| 20 | M20 | X | 0 | 0 | %100 |
| 21 | M21 | X | 0 | 0 | %100 |
| 22 | M22 | X | 0 | 0 | %100 |
| 23 | M23 | X | 0 | 0 | %100 |
| 24 | M24 | X | 0 | 0 | %100 |
| 25 | M25 | X | 0 | 0 | %100 |
| 26 | M26 | X | 0 | 0 | %100 |
| 27 | M27 | X | 0 | 0 | %100 |
| 28 | M28 | X | 0 | 0 | %100 |
| 29 | M29 | X | 0 | 0 | %100 |
| 30 | MP-5 | X | 0 | 0 | %100 |
| 31 | MP-6 | X | 0 | 0 | %100 |
| 32 | MP-7 | X | 0 | 0 | %100 |
| 33 | MP-8 | X | 0 | 0 | %100 |
| 34 | MP-9 | X | 0 | 0 | %100 |
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-13 | X | 0 | 0 | %100 |
| 38 | MP-12 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 73 | M16 | Z | 0 | 0 | %100 |
| 74 | M17 | Z | 0 | 0 | %100 |
| 75 | M18 | Z | 0 | 0 | %100 |
| 76 | M19 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 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.%) |
|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 0 | 0 | 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 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 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.%) |
|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 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 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-13 | X | 0 | 0 | %100 |
| 38 | MP-12 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |
| 5 | SF1-BH | X | 0 | 0 | %100 |
| 6 | M6 | X | 0 | 0 | %100 |
| 7 | M7 | X | 0 | 0 | %100 |
| 8 | M8 | X | 0 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M10 | X | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft) | End Magnitude(k/ft) | Start Location(ft.) | End Location(ft.) | % |
|--------------|-----------|-----------------------|---------------------|---------------------|-------------------|------|
| 11 | MT1 | 0 | 0 | 0 | 0 | %100 |
| 12 | MT2 | 0 | 0 | 0 | 0 | %100 |
| 13 | MT3 | 0 | 0 | 0 | 0 | %100 |
| 14 | MT4 | 0 | 0 | 0 | 0 | %100 |
| 15 | MT5 | 0 | 0 | 0 | 0 | %100 |
| 16 | MT6 | 0 | 0 | 0 | 0 | %100 |
| 17 | MT7 | 0 | 0 | 0 | 0 | %100 |
| 18 | MT8 | 0 | 0 | 0 | 0 | %100 |
| 19 | MT9 | 0 | 0 | 0 | 0 | %100 |
| 20 | MT0 | 0 | 0 | 0 | 0 | %100 |
| 21 | MT1 | 0 | 0 | 0 | 0 | %100 |
| 22 | MT2 | 0 | 0 | 0 | 0 | %100 |
| 23 | MT3 | 0 | 0 | 0 | 0 | %100 |
| 24 | MT4 | 0 | 0 | 0 | 0 | %100 |
| 25 | MT5 | 0 | 0 | 0 | 0 | %100 |
| 26 | MT6 | 0 | 0 | 0 | 0 | %100 |
| 27 | MT7 | 0 | 0 | 0 | 0 | %100 |
| 28 | MT8 | 0 | 0 | 0 | 0 | %100 |
| 29 | MT9 | 0 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | 0 | %100 |
| 37 | MP-12 | 0 | 0 | 0 | 0 | %100 |
| 38 | MP-13 | 0 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | 0 | %100 |
| 44 | BP-2 | 0 | 0 | 0 | 0 | %100 |
| 45 | BP-3 | 0 | 0 | 0 | 0 | %100 |
| 46 | BP-4 | 0 | 0 | 0 | 0 | %100 |
| 47 | BP-5 | 0 | 0 | 0 | 0 | %100 |
| 48 | BP-6 | 0 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | 0 | %100 |
| 50 | BP-8 | 0 | 0 | 0 | 0 | %100 |
| 51 | BP-9 | 0 | 0 | 0 | 0 | %100 |
| 52 | BP-10 | 0 | 0 | 0 | 0 | %100 |
| 53 | BP-11 | 0 | 0 | 0 | 0 | %100 |
| 54 | BP-12 | 0 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft) | End Magnitude(k/ft) | Start Location(ft.) | End Location(ft.) | % |
|--------------|-----------|-----------------------|---------------------|---------------------|-------------------|------|
| 68 | SF3-TH | 0 | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | 0 | %100 |
| 72 | SF1-BH | 0 | 0 | 0 | 0 | %100 |
| 73 | M6 | 0 | 0 | 0 | 0 | %100 |
| 74 | M7 | 0 | 0 | 0 | 0 | %100 |
| 75 | M8 | 0 | 0 | 0 | 0 | %100 |
| 76 | M9 | 0 | 0 | 0 | 0 | %100 |
| 77 | M10 | 0 | 0 | 0 | 0 | %100 |
| 78 | M11 | 0 | 0 | 0 | 0 | %100 |
| 79 | M12 | 0 | 0 | 0 | 0 | %100 |
| 80 | M13 | 0 | 0 | 0 | 0 | %100 |
| 81 | M14 | 0 | 0 | 0 | 0 | %100 |
| 82 | M15 | 0 | 0 | 0 | 0 | %100 |
| 83 | M16 | 0 | 0 | 0 | 0 | %100 |
| 84 | M17 | 0 | 0 | 0 | 0 | %100 |
| 85 | M18 | 0 | 0 | 0 | 0 | %100 |
| 86 | M19 | 0 | 0 | 0 | 0 | %100 |
| 87 | M20 | 0 | 0 | 0 | 0 | %100 |
| 88 | M21 | 0 | 0 | 0 | 0 | %100 |
| 89 | M22 | 0 | 0 | 0 | 0 | %100 |
| 90 | M23 | 0 | 0 | 0 | 0 | %100 |
| 91 | M24 | 0 | 0 | 0 | 0 | %100 |
| 92 | M25 | 0 | 0 | 0 | 0 | %100 |
| 93 | M26 | 0 | 0 | 0 | 0 | %100 |
| 94 | M27 | 0 | 0 | 0 | 0 | %100 |
| 95 | M28 | 0 | 0 | 0 | 0 | %100 |
| 96 | M29 | 0 | 0 | 0 | 0 | %100 |
| 97 | MP-5 | 0 | 0 | 0 | 0 | %100 |
| 98 | MP-6 | 0 | 0 | 0 | 0 | %100 |
| 99 | MP-7 | 0 | 0 | 0 | 0 | %100 |
| 100 | MP-8 | 0 | 0 | 0 | 0 | %100 |
| 101 | MP-9 | 0 | 0 | 0 | 0 | %100 |
| 102 | MP-10 | 0 | 0 | 0 | 0 | %100 |
| 103 | MP-11 | 0 | 0 | 0 | 0 | %100 |
| 104 | MP-12 | 0 | 0 | 0 | 0 | %100 |
| 105 | MP-13 | 0 | 0 | 0 | 0 | %100 |
| 106 | MP-1 | 0 | 0 | 0 | 0 | %100 |
| 107 | MP-2 | 0 | 0 | 0 | 0 | %100 |
| 108 | MP-3 | 0 | 0 | 0 | 0 | %100 |
| 109 | MP-4 | 0 | 0 | 0 | 0 | %100 |
| 110 | BP-1 | 0 | 0 | 0 | 0 | %100 |
| 111 | BP-2 | 0 | 0 | 0 | 0 | %100 |
| 112 | BP-3 | 0 | 0 | 0 | 0 | %100 |
| 113 | BP-4 | 0 | 0 | 0 | 0 | %100 |
| 114 | BP-5 | 0 | 0 | 0 | 0 | %100 |
| 115 | BP-6 | 0 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | 0 | %100 |
| 117 | BP-8 | 0 | 0 | 0 | 0 | %100 |
| 118 | BP-9 | 0 | 0 | 0 | 0 | %100 |
| 119 | BP-10 | 0 | 0 | 0 | 0 | %100 |
| 120 | BP-11 | 0 | 0 | 0 | 0 | %100 |
| 121 | BP-12 | 0 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft) | End Magnitude(k/ft) | Start Location(ft.) | End Location(ft.) | % |
|--------------|-----------|-----------------------|---------------------|---------------------|-------------------|------|
| M59 | Z | 0 | 0 | 0 | 0 | %100 |
| M60 | Z | 0 | 0 | 0 | 0 | %100 |
| M61A | Z | 0 | 0 | 0 | 0 | %100 |
| M62 | Z | 0 | 0 | 0 | 0 | %100 |
| M63 | Z | 0 | 0 | 0 | 0 | %100 |
| M64A | Z | 0 | 0 | 0 | 0 | %100 |
| M65 | Z | 0 | 0 | 0 | 0 | %100 |
| M66 | Z | 0 | 0 | 0 | 0 | %100 |
| M67A | Z | 0 | 0 | 0 | 0 | %100 |
| BP-13 | Z | 0 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft) | End Magnitude(k/ft) | Start Location(ft.) | End Location(ft.) | % |
|--------------|-----------|-----------------------|---------------------|---------------------|-------------------|------|
| SF3-TH | X | 0 | 0 | 0 | 0 | %100 |
| SF1-TH | X | 0 | 0 | 0 | 0 | %100 |
| SF2-TH | X | 0 | 0 | 0 | 0 | %100 |
| SF2-BH | X | 0 | 0 | 0 | 0 | %100 |
| SF1-LB | X | 0 | 0 | 0 | 0 | %100 |
| M6 | X | 0 | 0 | 0 | 0 | %100 |
| M7 | X | 0 | 0 | 0 | 0 | %100 |
| M8 | X | 0 | 0 | 0 | 0 | %100 |
| M9 | X | 0 | 0 | 0 | 0 | %100 |
| M10 | X | 0 | 0 | 0 | 0 | %100 |
| M11 | X | 0 | 0 | 0 | 0 | %100 |
| M12 | X | 0 | 0 | 0 | 0 | %100 |
| M13 | X | 0 | 0 | 0 | 0 | %100 |
| M14 | X | 0 | 0 | 0 | 0 | %100 |
| M15 | X | 0 | 0 | 0 | 0 | %100 |
| M16 | X | 0 | 0 | 0 | 0 | %100 |
| M17 | X | 0 | 0 | 0 | 0 | %100 |
| M18 | X | 0 | 0 | 0 | 0 | %100 |
| M19 | X | 0 | 0 | 0 | 0 | %100 |
| M20 | X | 0 | 0 | 0 | 0 | %100 |
| M21 | X | 0 | 0 | 0 | 0 | %100 |
| M22 | X | 0 | 0 | 0 | 0 | %100 |
| M23 | X | 0 | 0 | 0 | 0 | %100 |
| M24 | X | 0 | 0 | 0 | 0 | %100 |
| M25 | X | 0 | 0 | 0 | 0 | %100 |
| M26 | X | 0 | 0 | 0 | 0 | %100 |
| M27 | X | 0 | 0 | 0 | 0 | %100 |
| M28 | X | 0 | 0 | 0 | 0 | %100 |
| M29 | X | 0 | 0 | 0 | 0 | %100 |
| MP-5 | X | 0 | 0 | 0 | 0 | %100 |
| MP-6 | X | 0 | 0 | 0 | 0 | %100 |
| MP-7 | X | 0 | 0 | 0 | 0 | %100 |
| MP-8 | X | 0 | 0 | 0 | 0 | %100 |
| MP-9 | X | 0 | 0 | 0 | 0 | %100 |
| MP-10 | X | 0 | 0 | 0 | 0 | %100 |
| MP-11 | X | 0 | 0 | 0 | 0 | %100 |
| MP-13 | X | 0 | 0 | 0 | 0 | %100 |
| MP-12 | X | 0 | 0 | 0 | 0 | %100 |
| MP-1 | X | 0 | 0 | 0 | 0 | %100 |
| MP-2 | X | 0 | 0 | 0 | 0 | %100 |
| MP-3 | X | 0 | 0 | 0 | 0 | %100 |
| MP-4 | X | 0 | 0 | 0 | 0 | %100 |
| BP-1 | X | 0 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft) | End Magnitude(k/ft) | Start Location(ft.) | End Location(ft.) | % |
|--------------|-----------|-----------------------|---------------------|---------------------|-------------------|------|
| BP-12 | X | 0 | 0 | 0 | 0 | %100 |
| BP-11 | X | 0 | 0 | 0 | 0 | %100 |
| BP-10 | X | 0 | 0 | 0 | 0 | %100 |
| BP-9 | X | 0 | 0 | 0 | 0 | %100 |
| BP-8 | X | 0 | 0 | 0 | 0 | %100 |
| BP-7 | X | 0 | 0 | 0 | 0 | %100 |
| BP-6 | X | 0 | 0 | 0 | 0 | %100 |
| BP-5 | X | 0 | 0 | 0 | 0 | %100 |
| BP-4 | X | 0 | 0 | 0 | 0 | %100 |
| BP-3 | X | 0 | 0 | 0 | 0 | %100 |
| BP-2 | X | 0 | 0 | 0 | 0 | %100 |
| M56 | X | 0 | 0 | 0 | 0 | %100 |
| M57A | X | 0 | 0 | 0 | 0 | %100 |
| M58 | X | 0 | 0 | 0 | 0 | %100 |
| M59 | X | 0 | 0 | 0 | 0 | %100 |
| M60 | X | 0 | 0 | 0 | 0 | %100 |
| M61A | X | 0 | 0 | 0 | 0 | %100 |
| M62 | X | 0 | 0 | 0 | 0 | %100 |
| M63 | X | 0 | 0 | 0 | 0 | %100 |
| M64A | X | 0 | 0 | 0 | 0 | %100 |
| M65 | X | 0 | 0 | 0 | 0 | %100 |
| M66 | X | 0 | 0 | 0 | 0 | %100 |
| M67A | X | 0 | 0 | 0 | 0 | %100 |
| BP-13 | X | 0 | 0 | 0 | 0 | %100 |
| SF3-TH | Z | 0 | 0 | 0 | 0 | %100 |
| SF1-TH | Z | 0 | 0 | 0 | 0 | %100 |
| SF2-TH | Z | 0 | 0 | 0 | 0 | %100 |
| SF2-BH | Z | 0 | 0 | 0 | 0 | %100 |
| SF1-LB | Z | 0 | 0 | 0 | 0 | %100 |
| M6 | Z | 0 | 0 | 0 | 0 | %100 |
| M7 | Z | 0 | 0 | 0 | 0 | %100 |
| M8 | Z | 0 | 0 | 0 | 0 | %100 |
| M9 | Z | 0 | 0 | 0 | 0 | %100 |
| M10 | Z | 0 | 0 | 0 | 0 | %100 |
| M11 | Z | 0 | 0 | 0 | 0 | %100 |
| M12 | Z | 0 | 0 | 0 | 0 | %100 |
| M13 | Z | 0 | 0 | 0 | 0 | %100 |
| M14 | Z | 0 | 0 | 0 | 0 | %100 |
| M15 | Z | 0 | 0 | 0 | 0 | %100 |
| M16 | Z | 0 | 0 | 0 | 0 | %100 |
| M17 | Z | 0 | 0 | 0 | 0 | %100 |
| M18 | Z | 0 | 0 | 0 | 0 | %100 |
| M19 | Z | 0 | 0 | 0 | 0 | %100 |
| M20 | Z | 0 | 0 | 0 | 0 | %100 |
| M21 | Z | 0 | 0 | 0 | 0 | %100 |
| M22 | Z | 0 | 0 | 0 | 0 | %100 |
| M23 | Z | 0 | 0 | 0 | 0 | %100 |
| M24 | Z | 0 | 0 | 0 | 0 | %100 |
| M25 | Z | 0 | 0 | 0 | 0 | %100 |
| M26 | Z | 0 | 0 | 0 | 0 | %100 |
| M27 | Z | 0 | 0 | 0 | 0 | %100 |
| M28 | Z | 0 | 0 | 0 | 0 | %100 |
| M29 | Z | 0 | 0 | 0 | 0 | %100 |
| MP-5 | Z | 0 | 0 | 0 | 0 | %100 |
| MP-6 | Z | 0 | 0 | 0 | 0 | %100 |
| MP-7 | Z | 0 | 0 | 0 | 0 | %100 |
| MP-8 | Z | 0 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.F....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 101 | MP-9 | 0 | 0 | 0 | %100 |
| 102 | MP-10 | 0 | 0 | 0 | %100 |
| 103 | MP-11 | 0 | 0 | 0 | %100 |
| 104 | MP-13 | 0 | 0 | 0 | %100 |
| 105 | MP-12 | 0 | 0 | 0 | %100 |
| 106 | MP-1 | 0 | 0 | 0 | %100 |
| 107 | MP-2 | 0 | 0 | 0 | %100 |
| 108 | MP-3 | 0 | 0 | 0 | %100 |
| 109 | MP-4 | 0 | 0 | 0 | %100 |
| 110 | BP-1 | 0 | 0 | 0 | %100 |
| 111 | BP-12 | 0 | 0 | 0 | %100 |
| 112 | BP-11 | 0 | 0 | 0 | %100 |
| 113 | BP-10 | 0 | 0 | 0 | %100 |
| 114 | BP-9 | 0 | 0 | 0 | %100 |
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 0 | 0 | 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 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 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.%) |
|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 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 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 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.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-12 | 0 | 0 | 0 | %100 |
| 38 | MP-13 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 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.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | %100 |
| 72 | SF1-BH | 0 | 0 | 0 | %100 |
| 73 | M6 | 0 | 0 | 0 | %100 |
| 74 | M7 | 0 | 0 | 0 | %100 |
| 75 | M8 | 0 | 0 | 0 | %100 |
| 76 | M9 | 0 | 0 | 0 | %100 |
| 77 | M10 | 0 | 0 | 0 | %100 |
| 78 | M11 | 0 | 0 | 0 | %100 |
| 79 | M12 | 0 | 0 | 0 | %100 |
| 80 | M13 | 0 | 0 | 0 | %100 |
| 81 | M14 | 0 | 0 | 0 | %100 |
| 82 | M15 | 0 | 0 | 0 | %100 |
| 83 | M16 | 0 | 0 | 0 | %100 |
| 84 | M17 | 0 | 0 | 0 | %100 |
| 85 | M18 | 0 | 0 | 0 | %100 |
| 86 | M19 | 0 | 0 | 0 | %100 |
| 87 | M20 | 0 | 0 | 0 | %100 |
| 88 | M21 | 0 | 0 | 0 | %100 |
| 89 | M22 | 0 | 0 | 0 | %100 |
| 90 | M23 | 0 | 0 | 0 | %100 |
| 91 | M24 | 0 | 0 | 0 | %100 |
| 92 | M25 | 0 | 0 | 0 | %100 |
| 93 | M26 | 0 | 0 | 0 | %100 |
| 94 | M27 | 0 | 0 | 0 | %100 |
| 95 | M28 | 0 | 0 | 0 | %100 |
| 96 | M29 | 0 | 0 | 0 | %100 |
| 97 | MP-5 | 0 | 0 | 0 | %100 |
| 98 | MP-6 | 0 | 0 | 0 | %100 |
| 99 | MP-7 | 0 | 0 | 0 | %100 |
| 100 | MP-8 | 0 | 0 | 0 | %100 |
| 101 | MP-9 | 0 | 0 | 0 | %100 |
| 102 | MP-10 | 0 | 0 | 0 | %100 |
| 103 | MP-11 | 0 | 0 | 0 | %100 |
| 104 | MP-13 | 0 | 0 | 0 | %100 |
| 105 | MP-12 | 0 | 0 | 0 | %100 |
| 106 | MP-1 | 0 | 0 | 0 | %100 |
| 107 | MP-2 | 0 | 0 | 0 | %100 |
| 108 | MP-3 | 0 | 0 | 0 | %100 |
| 109 | MP-4 | 0 | 0 | 0 | %100 |
| 110 | BP-1 | 0 | 0 | 0 | %100 |
| 111 | BP-12 | 0 | 0 | 0 | %100 |
| 112 | BP-11 | 0 | 0 | 0 | %100 |
| 113 | BP-10 | 0 | 0 | 0 | %100 |
| 114 | BP-9 | 0 | 0 | 0 | %100 |
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-12 | 0 | 0 | 0 | %100 |
| 38 | MP-13 | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | %100 |
| 72 | SF1-BH | 0 | 0 | 0 | %100 |
| 73 | M6 | 0 | 0 | 0 | %100 |
| 74 | M7 | 0 | 0 | 0 | %100 |
| 75 | M8 | 0 | 0 | 0 | %100 |
| 76 | M9 | 0 | 0 | 0 | %100 |
| 77 | M10 | 0 | 0 | 0 | %100 |
| 78 | M11 | 0 | 0 | 0 | %100 |
| 79 | M12 | 0 | 0 | 0 | %100 |
| 80 | M13 | 0 | 0 | 0 | %100 |
| 81 | M14 | 0 | 0 | 0 | %100 |
| 82 | M15 | 0 | 0 | 0 | %100 |
| 83 | M16 | 0 | 0 | 0 | %100 |
| 84 | M17 | 0 | 0 | 0 | %100 |
| 85 | M18 | 0 | 0 | 0 | %100 |
| 86 | M19 | 0 | 0 | 0 | %100 |
| 87 | M20 | 0 | 0 | 0 | %100 |
| 88 | M21 | 0 | 0 | 0 | %100 |
| 89 | M22 | 0 | 0 | 0 | %100 |
| 90 | M23 | 0 | 0 | 0 | %100 |
| 91 | M24 | 0 | 0 | 0 | %100 |
| 92 | M25 | 0 | 0 | 0 | %100 |
| 93 | M26 | 0 | 0 | 0 | %100 |
| 94 | M27 | 0 | 0 | 0 | %100 |
| 95 | M28 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 96 | M29 | 0 | 0 | 0 | %100 |
| 97 | MP-5 | 0 | 0 | 0 | %100 |
| 98 | MP-6 | 0 | 0 | 0 | %100 |
| 99 | MP-7 | 0 | 0 | 0 | %100 |
| 100 | MP-8 | 0 | 0 | 0 | %100 |
| 101 | MP-9 | 0 | 0 | 0 | %100 |
| 102 | MP-10 | 0 | 0 | 0 | %100 |
| 103 | MP-11 | 0 | 0 | 0 | %100 |
| 104 | MP-13 | 0 | 0 | 0 | %100 |
| 105 | MP-12 | 0 | 0 | 0 | %100 |
| 106 | MP-1 | 0 | 0 | 0 | %100 |
| 107 | MP-2 | 0 | 0 | 0 | %100 |
| 108 | MP-3 | 0 | 0 | 0 | %100 |
| 109 | MP-4 | 0 | 0 | 0 | %100 |
| 110 | BP-1 | 0 | 0 | 0 | %100 |
| 111 | BP-12 | 0 | 0 | 0 | %100 |
| 112 | BP-11 | 0 | 0 | 0 | %100 |
| 113 | BP-10 | 0 | 0 | 0 | %100 |
| 114 | BP-9 | 0 | 0 | 0 | %100 |
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-3 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
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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.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 72 | Z | 0 | 0 | 0 | %100 |
| 73 | Z | 0 | 0 | 0 | %100 |
| 74 | Z | 0 | 0 | 0 | %100 |
| 75 | Z | 0 | 0 | 0 | %100 |
| 76 | Z | 0 | 0 | 0 | %100 |
| 77 | Z | 0 | 0 | 0 | %100 |
| 78 | Z | 0 | 0 | 0 | %100 |
| 79 | Z | 0 | 0 | 0 | %100 |
| 80 | Z | 0 | 0 | 0 | %100 |
| 81 | Z | 0 | 0 | 0 | %100 |
| 82 | Z | 0 | 0 | 0 | %100 |
| 83 | Z | 0 | 0 | 0 | %100 |
| 84 | Z | 0 | 0 | 0 | %100 |
| 85 | Z | 0 | 0 | 0 | %100 |
| 86 | Z | 0 | 0 | 0 | %100 |
| 87 | Z | 0 | 0 | 0 | %100 |
| 88 | Z | 0 | 0 | 0 | %100 |
| 89 | Z | 0 | 0 | 0 | %100 |
| 90 | Z | 0 | 0 | 0 | %100 |
| 91 | Z | 0 | 0 | 0 | %100 |
| 92 | Z | 0 | 0 | 0 | %100 |
| 93 | Z | 0 | 0 | 0 | %100 |
| 94 | Z | 0 | 0 | 0 | %100 |
| 95 | Z | 0 | 0 | 0 | %100 |
| 96 | Z | 0 | 0 | 0 | %100 |
| 97 | Z | 0 | 0 | 0 | %100 |
| 98 | Z | 0 | 0 | 0 | %100 |
| 99 | Z | 0 | 0 | 0 | %100 |
| 100 | Z | 0 | 0 | 0 | %100 |
| 101 | Z | 0 | 0 | 0 | %100 |
| 102 | Z | 0 | 0 | 0 | %100 |
| 103 | Z | 0 | 0 | 0 | %100 |
| 104 | Z | 0 | 0 | 0 | %100 |
| 105 | Z | 0 | 0 | 0 | %100 |
| 106 | Z | 0 | 0 | 0 | %100 |
| 107 | Z | 0 | 0 | 0 | %100 |
| 108 | Z | 0 | 0 | 0 | %100 |
| 109 | Z | 0 | 0 | 0 | %100 |
| 110 | Z | 0 | 0 | 0 | %100 |
| 111 | Z | 0 | 0 | 0 | %100 |
| 112 | Z | 0 | 0 | 0 | %100 |
| 113 | Z | 0 | 0 | 0 | %100 |
| 114 | Z | 0 | 0 | 0 | %100 |
| 115 | Z | 0 | 0 | 0 | %100 |
| 116 | Z | 0 | 0 | 0 | %100 |
| 117 | Z | 0 | 0 | 0 | %100 |
| 118 | Z | 0 | 0 | 0 | %100 |
| 119 | Z | 0 | 0 | 0 | %100 |
| 120 | Z | 0 | 0 | 0 | %100 |
| 121 | Z | 0 | 0 | 0 | %100 |
| 122 | Z | 0 | 0 | 0 | %100 |
| 123 | Z | 0 | 0 | 0 | %100 |
| 124 | Z | 0 | 0 | 0 | %100 |
| 125 | Z | 0 | 0 | 0 | %100 |
| 126 | Z | 0 | 0 | 0 | %100 |
| 127 | Z | 0 | 0 | 0 | %100 |
| 128 | Z | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
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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.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 129 | Z | 0 | 0 | 0 | %100 |
| 130 | Z | 0 | 0 | 0 | %100 |
| 131 | Z | 0 | 0 | 0 | %100 |
| 132 | Z | 0 | 0 | 0 | %100 |
| 133 | Z | 0 | 0 | 0 | %100 |
| 134 | Z | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | Z | 0 | 0 | 0 | %100 |
| 2 | Z | 0 | 0 | 0 | %100 |
| 3 | Z | 0 | 0 | 0 | %100 |
| 4 | Z | 0 | 0 | 0 | %100 |
| 5 | Z | 0 | 0 | 0 | %100 |
| 6 | Z | 0 | 0 | 0 | %100 |
| 7 | Z | 0 | 0 | 0 | %100 |
| 8 | Z | 0 | 0 | 0 | %100 |
| 9 | Z | 0 | 0 | 0 | %100 |
| 10 | Z | 0 | 0 | 0 | %100 |
| 11 | Z | 0 | 0 | 0 | %100 |
| 12 | Z | 0 | 0 | 0 | %100 |
| 13 | Z | 0 | 0 | 0 | %100 |
| 14 | Z | 0 | 0 | 0 | %100 |
| 15 | Z | 0 | 0 | 0 | %100 |
| 16 | Z | 0 | 0 | 0 | %100 |
| 17 | Z | 0 | 0 | 0 | %100 |
| 18 | Z | 0 | 0 | 0 | %100 |
| 19 | Z | 0 | 0 | 0 | %100 |
| 20 | Z | 0 | 0 | 0 | %100 |
| 21 | Z | 0 | 0 | 0 | %100 |
| 22 | Z | 0 | 0 | 0 | %100 |
| 23 | Z | 0 | 0 | 0 | %100 |
| 24 | Z | 0 | 0 | 0 | %100 |
| 25 | Z | 0 | 0 | 0 | %100 |
| 26 | Z | 0 | 0 | 0 | %100 |
| 27 | Z | 0 | 0 | 0 | %100 |
| 28 | Z | 0 | 0 | 0 | %100 |
| 29 | Z | 0 | 0 | 0 | %100 |
| 30 | Z | 0 | 0 | 0 | %100 |
| 31 | Z | 0 | 0 | 0 | %100 |
| 32 | Z | 0 | 0 | 0 | %100 |
| 33 | Z | 0 | 0 | 0 | %100 |
| 34 | Z | 0 | 0 | 0 | %100 |
| 35 | Z | 0 | 0 | 0 | %100 |
| 36 | Z | 0 | 0 | 0 | %100 |
| 37 | Z | 0 | 0 | 0 | %100 |
| 38 | Z | 0 | 0 | 0 | %100 |
| 39 | Z | 0 | 0 | 0 | %100 |
| 40 | Z | 0 | 0 | 0 | %100 |
| 41 | Z | 0 | 0 | 0 | %100 |
| 42 | Z | 0 | 0 | 0 | %100 |
| 43 | Z | 0 | 0 | 0 | %100 |
| 44 | Z | 0 | 0 | 0 | %100 |
| 45 | Z | 0 | 0 | 0 | %100 |
| 46 | Z | 0 | 0 | 0 | %100 |
| 47 | Z | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | %100 |
| 72 | SF1-BH | 0 | 0 | 0 | %100 |
| 73 | M6 | 0 | 0 | 0 | %100 |
| 74 | M7 | 0 | 0 | 0 | %100 |
| 75 | M8 | 0 | 0 | 0 | %100 |
| 76 | M9 | 0 | 0 | 0 | %100 |
| 77 | M10 | 0 | 0 | 0 | %100 |
| 78 | M11 | 0 | 0 | 0 | %100 |
| 79 | M12 | 0 | 0 | 0 | %100 |
| 80 | M13 | 0 | 0 | 0 | %100 |
| 81 | M14 | 0 | 0 | 0 | %100 |
| 82 | M15 | 0 | 0 | 0 | %100 |
| 83 | M16 | 0 | 0 | 0 | %100 |
| 84 | M17 | 0 | 0 | 0 | %100 |
| 85 | M18 | 0 | 0 | 0 | %100 |
| 86 | M19 | 0 | 0 | 0 | %100 |
| 87 | M20 | 0 | 0 | 0 | %100 |
| 88 | M21 | 0 | 0 | 0 | %100 |
| 89 | M22 | 0 | 0 | 0 | %100 |
| 90 | M23 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 91 | M24 | 0 | 0 | 0 | %100 |
| 92 | M25 | 0 | 0 | 0 | %100 |
| 93 | M26 | 0 | 0 | 0 | %100 |
| 94 | M27 | 0 | 0 | 0 | %100 |
| 95 | M28 | 0 | 0 | 0 | %100 |
| 96 | M29 | 0 | 0 | 0 | %100 |
| 97 | MP-5 | 0 | 0 | 0 | %100 |
| 98 | MP-6 | 0 | 0 | 0 | %100 |
| 99 | MP-7 | 0 | 0 | 0 | %100 |
| 100 | MP-8 | 0 | 0 | 0 | %100 |
| 101 | MP-9 | 0 | 0 | 0 | %100 |
| 102 | MP-10 | 0 | 0 | 0 | %100 |
| 103 | MP-11 | 0 | 0 | 0 | %100 |
| 104 | MP-13 | 0 | 0 | 0 | %100 |
| 105 | MP-12 | 0 | 0 | 0 | %100 |
| 106 | MP-1 | 0 | 0 | 0 | %100 |
| 107 | MP-2 | 0 | 0 | 0 | %100 |
| 108 | MP-3 | 0 | 0 | 0 | %100 |
| 109 | MP-4 | 0 | 0 | 0 | %100 |
| 110 | BP-1 | 0 | 0 | 0 | %100 |
| 111 | BP-12 | 0 | 0 | 0 | %100 |
| 112 | BP-11 | 0 | 0 | 0 | %100 |
| 113 | BP-10 | 0 | 0 | 0 | %100 |
| 114 | BP-9 | 0 | 0 | 0 | %100 |
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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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.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 67 | BP-13 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | BP-1 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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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.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |
| 5 | SF1-BH | X | 0 | 0 | %100 |
| 6 | M6 | X | 0 | 0 | %100 |
| 7 | M7 | X | 0 | 0 | %100 |
| 8 | M8 | X | 0 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M10 | X | 0 | 0 | %100 |
| 11 | M11 | X | 0 | 0 | %100 |
| 12 | M12 | X | 0 | 0 | %100 |
| 13 | M13 | X | 0 | 0 | %100 |
| 14 | M14 | X | 0 | 0 | %100 |
| 15 | M15 | X | 0 | 0 | %100 |
| 16 | M16 | X | 0 | 0 | %100 |
| 17 | M17 | X | 0 | 0 | %100 |
| 18 | M18 | X | 0 | 0 | %100 |
| 19 | M19 | X | 0 | 0 | %100 |
| 20 | M20 | X | 0 | 0 | %100 |
| 21 | M21 | X | 0 | 0 | %100 |
| 22 | M22 | X | 0 | 0 | %100 |
| 23 | M23 | X | 0 | 0 | %100 |
| 24 | M24 | X | 0 | 0 | %100 |
| 25 | M25 | X | 0 | 0 | %100 |
| 26 | M26 | X | 0 | 0 | %100 |
| 27 | M27 | X | 0 | 0 | %100 |
| 28 | M28 | X | 0 | 0 | %100 |
| 29 | M29 | X | 0 | 0 | %100 |
| 30 | MP-5 | X | 0 | 0 | %100 |
| 31 | MP-6 | X | 0 | 0 | %100 |
| 32 | MP-7 | X | 0 | 0 | %100 |
| 33 | MP-8 | X | 0 | 0 | %100 |
| 34 | MP-9 | X | 0 | 0 | %100 |
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-13 | X | 0 | 0 | %100 |
| 38 | MP-12 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude[k/ft.....] | End Magnitude[k/ft.....] | Start Location[ft.-%] | End Location[ft.-%] |
|--------------|-----------|----------------------------|--------------------------|-----------------------|---------------------|
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude[k/ft.....] | End Magnitude[k/ft.....] | Start Location[ft.-%] | End Location[ft.-%] |
|--------------|-----------|----------------------------|--------------------------|-----------------------|---------------------|
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 0 | 0 | %100 |

Member Distributed Loads (BLC 18 : Ice Weight)

| Member Label | Direction | Start Magnitude[k/ft.....] | End Magnitude[k/ft.....] | Start Location[ft.-%] | End Location[ft.-%] |
|--------------|-----------|----------------------------|--------------------------|-----------------------|---------------------|
| 1 | SF3-TH | Y | 0 | 0 | %100 |
| 2 | SF1-TH | Y | 0 | 0 | %100 |
| 3 | SF2-TH | Y | 0 | 0 | %100 |
| 4 | SF2-BH | Y | 0 | 0 | %100 |
| 5 | SF1-BH | Y | 0 | 0 | %100 |
| 6 | M6 | Y | 0 | 0 | %100 |
| 7 | M7 | Y | 0 | 0 | %100 |
| 8 | M8 | Y | 0 | 0 | %100 |
| 9 | M9 | Y | 0 | 0 | %100 |
| 10 | M10 | Y | 0 | 0 | %100 |
| 11 | M11 | Y | 0 | 0 | %100 |
| 12 | M12 | Y | 0 | 0 | %100 |
| 13 | M13 | Y | 0 | 0 | %100 |
| 14 | M14 | Y | 0 | 0 | %100 |
| 15 | M15 | Y | 0 | 0 | %100 |
| 16 | M16 | Y | 0 | 0 | %100 |
| 17 | M17 | Y | 0 | 0 | %100 |
| 18 | M18 | Y | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-12 | 0 | 0 | 0 | %100 |
| 38 | MP-13 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-2 | 0 | 0 | 0 | %100 |
| 45 | BP-3 | 0 | 0 | 0 | %100 |
| 46 | BP-4 | 0 | 0 | 0 | %100 |
| 47 | BP-5 | 0 | 0 | 0 | %100 |
| 48 | BP-6 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-8 | 0 | 0 | 0 | %100 |
| 51 | BP-9 | 0 | 0 | 0 | %100 |
| 52 | BP-10 | 0 | 0 | 0 | %100 |
| 53 | BP-11 | 0 | 0 | 0 | %100 |
| 54 | BP-12 | 0 | 0 | 0 | %100 |
| 55 | BP-13 | 0 | 0 | 0 | %100 |
| 56 | M56 | 0 | 0 | 0 | %100 |
| 57 | M57A | 0 | 0 | 0 | %100 |
| 58 | M58 | 0 | 0 | 0 | %100 |
| 59 | M59 | 0 | 0 | 0 | %100 |
| 60 | M60 | 0 | 0 | 0 | %100 |
| 61 | M61A | 0 | 0 | 0 | %100 |
| 62 | M62 | 0 | 0 | 0 | %100 |
| 63 | M63 | 0 | 0 | 0 | %100 |
| 64 | M64A | 0 | 0 | 0 | %100 |
| 65 | M65 | 0 | 0 | 0 | %100 |
| 66 | M66 | 0 | 0 | 0 | %100 |
| 67 | M67A | 0 | 0 | 0 | %100 |
| 68 | M68 | 0 | 0 | 0 | %100 |
| 69 | M69 | 0 | 0 | 0 | %100 |
| 70 | M61A | 0 | 0 | 0 | %100 |
| 71 | M62 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-12 | 0 | 0 | 0 | %100 |
| 38 | MP-13 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-2 | 0 | 0 | 0 | %100 |
| 45 | BP-3 | 0 | 0 | 0 | %100 |
| 46 | BP-4 | 0 | 0 | 0 | %100 |
| 47 | BP-5 | 0 | 0 | 0 | %100 |
| 48 | BP-6 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-8 | 0 | 0 | 0 | %100 |
| 51 | BP-9 | 0 | 0 | 0 | %100 |
| 52 | BP-10 | 0 | 0 | 0 | %100 |
| 53 | BP-11 | 0 | 0 | 0 | %100 |
| 54 | BP-12 | 0 | 0 | 0 | %100 |
| 55 | BP-13 | 0 | 0 | 0 | %100 |
| 56 | M56 | 0 | 0 | 0 | %100 |
| 57 | M57A | 0 | 0 | 0 | %100 |
| 58 | M58 | 0 | 0 | 0 | %100 |
| 59 | M59 | 0 | 0 | 0 | %100 |
| 60 | M60 | 0 | 0 | 0 | %100 |
| 61 | M61A | 0 | 0 | 0 | %100 |
| 62 | M62 | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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

| Member Label | Direction | Start Magnitude(kN/m) | End Magnitude(kN/m) | Start Location(ft.-%) | End Location(ft.-%) |
|--------------|-----------|-----------------------|---------------------|-----------------------|---------------------|
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(kN/m) | End Magnitude(kN/m) | Start Location(ft.-%) | End Location(ft.-%) |
|--------------|-----------|-----------------------|---------------------|-----------------------|---------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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

| Member Label | Direction | Start Magnitude(kN/m) | End Magnitude(kN/m) | Start Location(ft.-%) | End Location(ft.-%) |
|--------------|-----------|-----------------------|---------------------|-----------------------|---------------------|
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | %100 |
| 72 | SF1-BH | 0 | 0 | 0 | %100 |
| 73 | M6 | 0 | 0 | 0 | %100 |
| 74 | M7 | 0 | 0 | 0 | %100 |
| 75 | M8 | 0 | 0 | 0 | %100 |
| 76 | M9 | 0 | 0 | 0 | %100 |
| 77 | M10 | 0 | 0 | 0 | %100 |
| 78 | M11 | 0 | 0 | 0 | %100 |
| 79 | M12 | 0 | 0 | 0 | %100 |
| 80 | M13 | 0 | 0 | 0 | %100 |
| 81 | M14 | 0 | 0 | 0 | %100 |
| 82 | M15 | 0 | 0 | 0 | %100 |
| 83 | M16 | 0 | 0 | 0 | %100 |
| 84 | M17 | 0 | 0 | 0 | %100 |
| 85 | M18 | 0 | 0 | 0 | %100 |
| 86 | M19 | 0 | 0 | 0 | %100 |
| 87 | M20 | 0 | 0 | 0 | %100 |
| 88 | M21 | 0 | 0 | 0 | %100 |
| 89 | M22 | 0 | 0 | 0 | %100 |
| 90 | M23 | 0 | 0 | 0 | %100 |
| 91 | M24 | 0 | 0 | 0 | %100 |
| 92 | M25 | 0 | 0 | 0 | %100 |
| 93 | M26 | 0 | 0 | 0 | %100 |
| 94 | M27 | 0 | 0 | 0 | %100 |
| 95 | M28 | 0 | 0 | 0 | %100 |
| 96 | M29 | 0 | 0 | 0 | %100 |
| 97 | MP-5 | 0 | 0 | 0 | %100 |
| 98 | MP-6 | 0 | 0 | 0 | %100 |
| 99 | MP-7 | 0 | 0 | 0 | %100 |
| 100 | MP-8 | 0 | 0 | 0 | %100 |
| 101 | MP-9 | 0 | 0 | 0 | %100 |
| 102 | MP-10 | 0 | 0 | 0 | %100 |
| 103 | MP-11 | 0 | 0 | 0 | %100 |
| 104 | MP-13 | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
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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.%) |
|--------------|-----------|----------------------------|----------------------------|----------------------|--------------------|
| 105 | MP-12 | 0 | 0 | 0 | %100 |
| 106 | MP-1 | 0 | 0 | 0 | %100 |
| 107 | MP-2 | 0 | 0 | 0 | %100 |
| 108 | MP-3 | 0 | 0 | 0 | %100 |
| 109 | MP-4 | 0 | 0 | 0 | %100 |
| 110 | BP-1 | 0 | 0 | 0 | %100 |
| 111 | BP-12 | 0 | 0 | 0 | %100 |
| 112 | BP-11 | 0 | 0 | 0 | %100 |
| 113 | BP-10 | 0 | 0 | 0 | %100 |
| 114 | BP-9 | 0 | 0 | 0 | %100 |
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 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 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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.%) |
|--------------|-----------|----------------------------|----------------------------|----------------------|--------------------|
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | %100 |
| 72 | SF1-BH | 0 | 0 | 0 | %100 |
| 73 | M6 | 0 | 0 | 0 | %100 |
| 74 | M7 | 0 | 0 | 0 | %100 |
| 75 | M8 | 0 | 0 | 0 | %100 |
| 76 | M9 | 0 | 0 | 0 | %100 |
| 77 | M10 | 0 | 0 | 0 | %100 |
| 78 | M11 | 0 | 0 | 0 | %100 |
| 79 | M12 | 0 | 0 | 0 | %100 |
| 80 | M13 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 81 | M14 | 0 | 0 | 0 | %100 |
| 82 | M15 | 0 | 0 | 0 | %100 |
| 83 | M16 | 0 | 0 | 0 | %100 |
| 84 | M17 | 0 | 0 | 0 | %100 |
| 85 | M18 | 0 | 0 | 0 | %100 |
| 86 | M19 | 0 | 0 | 0 | %100 |
| 87 | M20 | 0 | 0 | 0 | %100 |
| 88 | M21 | 0 | 0 | 0 | %100 |
| 89 | M22 | 0 | 0 | 0 | %100 |
| 90 | M23 | 0 | 0 | 0 | %100 |
| 91 | M24 | 0 | 0 | 0 | %100 |
| 92 | M25 | 0 | 0 | 0 | %100 |
| 93 | M26 | 0 | 0 | 0 | %100 |
| 94 | M27 | 0 | 0 | 0 | %100 |
| 95 | M28 | 0 | 0 | 0 | %100 |
| 96 | M29 | 0 | 0 | 0 | %100 |
| 97 | MP-5 | 0 | 0 | 0 | %100 |
| 98 | MP-6 | 0 | 0 | 0 | %100 |
| 99 | MP-7 | 0 | 0 | 0 | %100 |
| 100 | MP-8 | 0 | 0 | 0 | %100 |
| 101 | MP-9 | 0 | 0 | 0 | %100 |
| 102 | MP-10 | 0 | 0 | 0 | %100 |
| 103 | MP-11 | 0 | 0 | 0 | %100 |
| 104 | MP-13 | 0 | 0 | 0 | %100 |
| 105 | MP-12 | 0 | 0 | 0 | %100 |
| 106 | MP-1 | 0 | 0 | 0 | %100 |
| 107 | MP-2 | 0 | 0 | 0 | %100 |
| 108 | MP-3 | 0 | 0 | 0 | %100 |
| 109 | MP-4 | 0 | 0 | 0 | %100 |
| 110 | BP-1 | 0 | 0 | 0 | %100 |
| 111 | BP-12 | 0 | 0 | 0 | %100 |
| 112 | BP-11 | 0 | 0 | 0 | %100 |
| 113 | BP-10 | 0 | 0 | 0 | %100 |
| 114 | BP-9 | 0 | 0 | 0 | %100 |
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| M57A | | 0 | 0 | 0 | %100 |
| M58 | | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| M57A | | 0 | 0 | 0 | %100 |
| M58 | | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude[k/ft.....] | End Magnitude[k/ft.....] | Start Location[ft.-%] | End Location[ft.-%] |
|--------------|-----------|----------------------------|--------------------------|-----------------------|---------------------|
| M58 | X | 0 | 0 | 0 | %100 |
| M59 | X | 0 | 0 | 0 | %100 |
| M60 | X | 0 | 0 | 0 | %100 |
| M61A | X | 0 | 0 | 0 | %100 |
| M62 | X | 0 | 0 | 0 | %100 |
| M63 | X | 0 | 0 | 0 | %100 |
| M64A | X | 0 | 0 | 0 | %100 |
| M65 | X | 0 | 0 | 0 | %100 |
| M66 | X | 0 | 0 | 0 | %100 |
| M67A | X | 0 | 0 | 0 | %100 |
| BP-13 | X | 0 | 0 | 0 | %100 |
| SF3-TH | Z | 0 | 0 | 0 | %100 |
| SF1-TH | Z | 0 | 0 | 0 | %100 |
| SF2-BH | Z | 0 | 0 | 0 | %100 |
| SF1-BH | Z | 0 | 0 | 0 | %100 |
| M6 | Z | 0 | 0 | 0 | %100 |
| M7 | Z | 0 | 0 | 0 | %100 |
| M8 | Z | 0 | 0 | 0 | %100 |
| M9 | Z | 0 | 0 | 0 | %100 |
| M10 | Z | 0 | 0 | 0 | %100 |
| M11 | Z | 0 | 0 | 0 | %100 |
| M12 | Z | 0 | 0 | 0 | %100 |
| M13 | Z | 0 | 0 | 0 | %100 |
| M14 | Z | 0 | 0 | 0 | %100 |
| M15 | Z | 0 | 0 | 0 | %100 |
| M16 | Z | 0 | 0 | 0 | %100 |
| M17 | Z | 0 | 0 | 0 | %100 |
| M18 | Z | 0 | 0 | 0 | %100 |
| M19 | Z | 0 | 0 | 0 | %100 |
| M20 | Z | 0 | 0 | 0 | %100 |
| M21 | Z | 0 | 0 | 0 | %100 |
| M22 | Z | 0 | 0 | 0 | %100 |
| M23 | Z | 0 | 0 | 0 | %100 |
| M24 | Z | 0 | 0 | 0 | %100 |
| M25 | Z | 0 | 0 | 0 | %100 |
| M26 | Z | 0 | 0 | 0 | %100 |
| M27 | Z | 0 | 0 | 0 | %100 |
| M28 | Z | 0 | 0 | 0 | %100 |
| M29 | Z | 0 | 0 | 0 | %100 |
| MP-5 | Z | 0 | 0 | 0 | %100 |
| MP-6 | Z | 0 | 0 | 0 | %100 |
| MP-7 | Z | 0 | 0 | 0 | %100 |
| MP-8 | Z | 0 | 0 | 0 | %100 |
| MP-9 | Z | 0 | 0 | 0 | %100 |
| MP-10 | Z | 0 | 0 | 0 | %100 |
| MP-11 | Z | 0 | 0 | 0 | %100 |
| MP-13 | Z | 0 | 0 | 0 | %100 |
| MP-12 | Z | 0 | 0 | 0 | %100 |
| MP-1 | Z | 0 | 0 | 0 | %100 |
| MP-2 | Z | 0 | 0 | 0 | %100 |
| MP-3 | Z | 0 | 0 | 0 | %100 |
| MP-4 | Z | 0 | 0 | 0 | %100 |
| BP-1 | Z | 0 | 0 | 0 | %100 |
| BP-12 | Z | 0 | 0 | 0 | %100 |
| BP-11 | Z | 0 | 0 | 0 | %100 |
| BP-10 | Z | 0 | 0 | 0 | %100 |
| BP-9 | Z | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude[k/ft.....] | End Magnitude[k/ft.....] | Start Location[ft.-%] | End Location[ft.-%] |
|--------------|-----------|----------------------------|--------------------------|-----------------------|---------------------|
| M115 | Z | 0 | 0 | 0 | %100 |
| BP-8 | Z | 0 | 0 | 0 | %100 |
| BP-7 | Z | 0 | 0 | 0 | %100 |
| BP-6 | Z | 0 | 0 | 0 | %100 |
| BP-5 | Z | 0 | 0 | 0 | %100 |
| BP-4 | Z | 0 | 0 | 0 | %100 |
| BP-3 | Z | 0 | 0 | 0 | %100 |
| BP-2 | Z | 0 | 0 | 0 | %100 |
| M56 | Z | 0 | 0 | 0 | %100 |
| M57A | Z | 0 | 0 | 0 | %100 |
| M58 | Z | 0 | 0 | 0 | %100 |
| M59 | Z | 0 | 0 | 0 | %100 |
| M60 | Z | 0 | 0 | 0 | %100 |
| M61A | Z | 0 | 0 | 0 | %100 |
| M62 | Z | 0 | 0 | 0 | %100 |
| M63 | Z | 0 | 0 | 0 | %100 |
| M64A | Z | 0 | 0 | 0 | %100 |
| M65 | Z | 0 | 0 | 0 | %100 |
| M66 | Z | 0 | 0 | 0 | %100 |
| M67A | Z | 0 | 0 | 0 | %100 |
| BP-13 | Z | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude[k/ft.....] | End Magnitude[k/ft.....] | Start Location[ft.-%] | End Location[ft.-%] |
|--------------|-----------|----------------------------|--------------------------|-----------------------|---------------------|
| 1 | Z | 0 | 0 | 0 | %100 |
| SF3-TH | Z | 0 | 0 | 0 | %100 |
| SF1-TH | Z | 0 | 0 | 0 | %100 |
| SF2-BH | Z | 0 | 0 | 0 | %100 |
| SF1-BH | Z | 0 | 0 | 0 | %100 |
| M6 | Z | 0 | 0 | 0 | %100 |
| M7 | Z | 0 | 0 | 0 | %100 |
| M8 | Z | 0 | 0 | 0 | %100 |
| M9 | Z | 0 | 0 | 0 | %100 |
| M10 | Z | 0 | 0 | 0 | %100 |
| M11 | Z | 0 | 0 | 0 | %100 |
| M12 | Z | 0 | 0 | 0 | %100 |
| M13 | Z | 0 | 0 | 0 | %100 |
| M14 | Z | 0 | 0 | 0 | %100 |
| M15 | Z | 0 | 0 | 0 | %100 |
| M16 | Z | 0 | 0 | 0 | %100 |
| M17 | Z | 0 | 0 | 0 | %100 |
| M18 | Z | 0 | 0 | 0 | %100 |
| M19 | Z | 0 | 0 | 0 | %100 |
| M20 | Z | 0 | 0 | 0 | %100 |
| M21 | Z | 0 | 0 | 0 | %100 |
| M22 | Z | 0 | 0 | 0 | %100 |
| M23 | Z | 0 | 0 | 0 | %100 |
| M24 | Z | 0 | 0 | 0 | %100 |
| M25 | Z | 0 | 0 | 0 | %100 |
| M26 | Z | 0 | 0 | 0 | %100 |
| M27 | Z | 0 | 0 | 0 | %100 |
| M28 | Z | 0 | 0 | 0 | %100 |
| M29 | Z | 0 | 0 | 0 | %100 |
| MP-5 | Z | 0 | 0 | 0 | %100 |
| MP-6 | Z | 0 | 0 | 0 | %100 |
| MP-7 | Z | 0 | 0 | 0 | %100 |
| MP-8 | Z | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(kN/m) | End Magnitude(kN/m) | Start Location(ft.) | End Location(ft.) | % |
|--------------|-----------|-----------------------|---------------------|---------------------|-------------------|------|
| 34 | MP-9 | 0 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | 0 | %100 |
| 44 | BP-11 | 0 | 0 | 0 | 0 | %100 |
| 45 | BP-10 | 0 | 0 | 0 | 0 | %100 |
| 46 | BP-9 | 0 | 0 | 0 | 0 | %100 |
| 47 | BP-8 | 0 | 0 | 0 | 0 | %100 |
| 48 | BP-7 | 0 | 0 | 0 | 0 | %100 |
| 49 | BP-6 | 0 | 0 | 0 | 0 | %100 |
| 50 | BP-5 | 0 | 0 | 0 | 0 | %100 |
| 51 | BP-4 | 0 | 0 | 0 | 0 | %100 |
| 52 | BP-3 | 0 | 0 | 0 | 0 | %100 |
| 53 | BP-2 | 0 | 0 | 0 | 0 | %100 |
| 54 | BP-1 | 0 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(kN/m) | End Magnitude(kN/m) | Start Location(ft.) | End Location(ft.) | % |
|--------------|-----------|-----------------------|---------------------|---------------------|-------------------|------|
| 1 | SF3-TH | 0 | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(kN/m) | End Magnitude(kN/m) | Start Location(ft.) | End Location(ft.) | % |
|--------------|-----------|-----------------------|---------------------|---------------------|-------------------|------|
| 20 | M20 | 0 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | 0 | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | 0 | %100 |
| 72 | SF1-BH | 0 | 0 | 0 | 0 | %100 |
| 73 | M6 | 0 | 0 | 0 | 0 | %100 |
| 74 | M7 | 0 | 0 | 0 | 0 | %100 |
| 75 | M8 | 0 | 0 | 0 | 0 | %100 |
| 76 | M9 | 0 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 77 | M10 | 0 | 0 | 0 | %100 |
| 78 | M11 | 0 | 0 | 0 | %100 |
| 79 | M12 | 0 | 0 | 0 | %100 |
| 80 | M13 | 0 | 0 | 0 | %100 |
| 81 | M14 | 0 | 0 | 0 | %100 |
| 82 | M15 | 0 | 0 | 0 | %100 |
| 83 | M16 | 0 | 0 | 0 | %100 |
| 84 | M17 | 0 | 0 | 0 | %100 |
| 85 | M18 | 0 | 0 | 0 | %100 |
| 86 | M19 | 0 | 0 | 0 | %100 |
| 87 | M20 | 0 | 0 | 0 | %100 |
| 88 | M21 | 0 | 0 | 0 | %100 |
| 89 | M22 | 0 | 0 | 0 | %100 |
| 90 | M23 | 0 | 0 | 0 | %100 |
| 91 | M24 | 0 | 0 | 0 | %100 |
| 92 | M25 | 0 | 0 | 0 | %100 |
| 93 | M26 | 0 | 0 | 0 | %100 |
| 94 | M27 | 0 | 0 | 0 | %100 |
| 95 | M28 | 0 | 0 | 0 | %100 |
| 96 | M29 | 0 | 0 | 0 | %100 |
| 97 | MP-5 | 0 | 0 | 0 | %100 |
| 98 | MP-6 | 0 | 0 | 0 | %100 |
| 99 | MP-7 | 0 | 0 | 0 | %100 |
| 100 | MP-8 | 0 | 0 | 0 | %100 |
| 101 | MP-9 | 0 | 0 | 0 | %100 |
| 102 | MP-10 | 0 | 0 | 0 | %100 |
| 103 | MP-11 | 0 | 0 | 0 | %100 |
| 104 | MP-13 | 0 | 0 | 0 | %100 |
| 105 | MP-12 | 0 | 0 | 0 | %100 |
| 106 | MP-1 | 0 | 0 | 0 | %100 |
| 107 | MP-2 | 0 | 0 | 0 | %100 |
| 108 | MP-3 | 0 | 0 | 0 | %100 |
| 109 | MP-4 | 0 | 0 | 0 | %100 |
| 110 | BP-1 | 0 | 0 | 0 | %100 |
| 111 | BP-12 | 0 | 0 | 0 | %100 |
| 112 | BP-11 | 0 | 0 | 0 | %100 |
| 113 | BP-10 | 0 | 0 | 0 | %100 |
| 114 | BP-9 | 0 | 0 | 0 | %100 |
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 134 | BP-13 | 0 | 0 | 0 | %100 |

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |
| 5 | SF1-BH | X | 0 | 0 | %100 |
| 6 | M6 | X | 0 | 0 | %100 |
| 7 | M7 | X | 0 | 0 | %100 |
| 8 | M8 | X | 0 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M10 | X | 0 | 0 | %100 |
| 11 | M11 | X | 0 | 0 | %100 |
| 12 | M12 | X | 0 | 0 | %100 |
| 13 | M13 | X | 0 | 0 | %100 |
| 14 | M14 | X | 0 | 0 | %100 |
| 15 | M15 | X | 0 | 0 | %100 |
| 16 | M16 | X | 0 | 0 | %100 |
| 17 | M17 | X | 0 | 0 | %100 |
| 18 | M18 | X | 0 | 0 | %100 |
| 19 | M19 | X | 0 | 0 | %100 |
| 20 | M20 | X | 0 | 0 | %100 |
| 21 | M21 | X | 0 | 0 | %100 |
| 22 | M22 | X | 0 | 0 | %100 |
| 23 | M23 | X | 0 | 0 | %100 |
| 24 | M24 | X | 0 | 0 | %100 |
| 25 | M25 | X | 0 | 0 | %100 |
| 26 | M26 | X | 0 | 0 | %100 |
| 27 | M27 | X | 0 | 0 | %100 |
| 28 | M28 | X | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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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.%) |
|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | X | 0 | 0 | %100 |
| 31 | MP-6 | X | 0 | 0 | %100 |
| 32 | MP-7 | X | 0 | 0 | %100 |
| 33 | MP-8 | X | 0 | 0 | %100 |
| 34 | MP-9 | X | 0 | 0 | %100 |
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-13 | X | 0 | 0 | %100 |
| 38 | MP-12 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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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.%) |
|--------------|-----------|----------------------------|---------------------------|----------------------|--------------------|
| 86 | M19 | 0 | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 0 | 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 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-12 | 0 | 0 | 0 | %100 |
| 38 | MP-13 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | BP-1 | 0 | 0 | 0 | %100 |
| 43 | BP-2 | 0 | 0 | 0 | %100 |
| 44 | BP-3 | 0 | 0 | 0 | %100 |
| 45 | BP-4 | 0 | 0 | 0 | %100 |
| 46 | BP-5 | 0 | 0 | 0 | %100 |
| 47 | BP-6 | 0 | 0 | 0 | %100 |
| 48 | BP-7 | 0 | 0 | 0 | %100 |
| 49 | BP-8 | 0 | 0 | 0 | %100 |
| 50 | BP-9 | 0 | 0 | 0 | %100 |
| 51 | BP-10 | 0 | 0 | 0 | %100 |
| 52 | BP-11 | 0 | 0 | 0 | %100 |
| 53 | BP-12 | 0 | 0 | 0 | %100 |
| 54 | BP-13 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-12 | 0 | 0 | 0 | %100 |
| 38 | MP-13 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | BP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |
| 5 | SF1-BH | X | 0 | 0 | %100 |
| 6 | M6 | X | 0 | 0 | %100 |
| 7 | M7 | X | 0 | 0 | %100 |
| 8 | M8 | X | 0 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M10 | X | 0 | 0 | %100 |
| 11 | M11 | X | 0 | 0 | %100 |
| 12 | M12 | X | 0 | 0 | %100 |
| 13 | M13 | X | 0 | 0 | %100 |
| 14 | M14 | X | 0 | 0 | %100 |
| 15 | M15 | X | 0 | 0 | %100 |
| 16 | M16 | X | 0 | 0 | %100 |
| 17 | M17 | X | 0 | 0 | %100 |
| 18 | M18 | X | 0 | 0 | %100 |
| 19 | M19 | X | 0 | 0 | %100 |
| 20 | M20 | X | 0 | 0 | %100 |
| 21 | M21 | X | 0 | 0 | %100 |
| 22 | M22 | X | 0 | 0 | %100 |
| 23 | M23 | X | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 24 | M24 | X | 0 | 0 | %100 |
| 25 | M25 | X | 0 | 0 | %100 |
| 26 | M26 | X | 0 | 0 | %100 |
| 27 | M27 | X | 0 | 0 | %100 |
| 28 | M28 | X | 0 | 0 | %100 |
| 29 | M29 | X | 0 | 0 | %100 |
| 30 | MP-5 | X | 0 | 0 | %100 |
| 31 | MP-6 | X | 0 | 0 | %100 |
| 32 | MP-7 | X | 0 | 0 | %100 |
| 33 | MP-8 | X | 0 | 0 | %100 |
| 34 | MP-9 | X | 0 | 0 | %100 |
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-13 | X | 0 | 0 | %100 |
| 38 | MP-12 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-IH | Z | 0 | 0 | %100 |
| 69 | SF1-IH | Z | 0 | 0 | %100 |
| 70 | SF2-IH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |
| 134 | BP-13 | Z | 0 | 0 | %100 |

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



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.F.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|----------------------------|----------------------|--------------------|
| 1 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |
| 5 | SF1-BH | X | 0 | 0 | %100 |
| 6 | M6 | X | 0 | 0 | %100 |
| 7 | M7 | X | 0 | 0 | %100 |
| 8 | M8 | X | 0 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M10 | X | 0 | 0 | %100 |
| 11 | M11 | X | 0 | 0 | %100 |
| 12 | M12 | X | 0 | 0 | %100 |
| 13 | M13 | X | 0 | 0 | %100 |
| 14 | M14 | X | 0 | 0 | %100 |
| 15 | M15 | X | 0 | 0 | %100 |
| 16 | M16 | X | 0 | 0 | %100 |
| 17 | M17 | X | 0 | 0 | %100 |
| 18 | M18 | X | 0 | 0 | %100 |
| 19 | M19 | X | 0 | 0 | %100 |
| 20 | M20 | X | 0 | 0 | %100 |
| 21 | M21 | X | 0 | 0 | %100 |
| 22 | M22 | X | 0 | 0 | %100 |
| 23 | M23 | X | 0 | 0 | %100 |
| 24 | M24 | X | 0 | 0 | %100 |
| 25 | M25 | X | 0 | 0 | %100 |
| 26 | M26 | X | 0 | 0 | %100 |
| 27 | M27 | X | 0 | 0 | %100 |
| 28 | M28 | X | 0 | 0 | %100 |
| 29 | M29 | X | 0 | 0 | %100 |
| 30 | MP-5 | X | 0 | 0 | %100 |
| 31 | MP-6 | X | 0 | 0 | %100 |
| 32 | MP-7 | X | 0 | 0 | %100 |
| 33 | MP-8 | X | 0 | 0 | %100 |
| 34 | MP-9 | X | 0 | 0 | %100 |
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-13 | X | 0 | 0 | %100 |
| 38 | MP-12 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.F.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|----------------------------|----------------------|--------------------|
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | BP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 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.%) |
|--------------|-----------|----------------------------|----------------------------|----------------------|--------------------|
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 0 | 0 | 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 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 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.%) |
|--------------|-----------|----------------------------|----------------------------|----------------------|--------------------|
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 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 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 20 | M20 | X | 0 | 0 | %100 |
| 21 | M21 | X | 0 | 0 | %100 |
| 22 | M22 | X | 0 | 0 | %100 |
| 23 | M23 | X | 0 | 0 | %100 |
| 24 | M24 | X | 0 | 0 | %100 |
| 25 | M25 | X | 0 | 0 | %100 |
| 26 | M26 | X | 0 | 0 | %100 |
| 27 | M27 | X | 0 | 0 | %100 |
| 28 | M28 | X | 0 | 0 | %100 |
| 29 | M29 | X | 0 | 0 | %100 |
| 30 | MP-5 | X | 0 | 0 | %100 |
| 31 | MP-6 | X | 0 | 0 | %100 |
| 32 | MP-7 | X | 0 | 0 | %100 |
| 33 | MP-8 | X | 0 | 0 | %100 |
| 34 | MP-9 | X | 0 | 0 | %100 |
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-12 | X | 0 | 0 | %100 |
| 38 | MP-13 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |
| 110 | BP-1 | Z | 0 | 0 | %100 |
| 111 | BP-12 | Z | 0 | 0 | %100 |
| 112 | BP-11 | Z | 0 | 0 | %100 |
| 113 | BP-10 | Z | 0 | 0 | %100 |
| 114 | BP-9 | Z | 0 | 0 | %100 |
| 115 | BP-8 | Z | 0 | 0 | %100 |
| 116 | BP-7 | Z | 0 | 0 | %100 |
| 117 | BP-6 | Z | 0 | 0 | %100 |
| 118 | BP-5 | Z | 0 | 0 | %100 |
| 119 | BP-4 | Z | 0 | 0 | %100 |
| 120 | BP-3 | Z | 0 | 0 | %100 |
| 121 | BP-2 | Z | 0 | 0 | %100 |
| 122 | M56 | Z | 0 | 0 | %100 |
| 123 | M57A | Z | 0 | 0 | %100 |
| 124 | M58 | Z | 0 | 0 | %100 |
| 125 | M59 | Z | 0 | 0 | %100 |
| 126 | M60 | Z | 0 | 0 | %100 |
| 127 | M61A | Z | 0 | 0 | %100 |
| 128 | M62 | Z | 0 | 0 | %100 |
| 129 | M63 | Z | 0 | 0 | %100 |
| 130 | M64A | Z | 0 | 0 | %100 |
| 131 | M65 | Z | 0 | 0 | %100 |
| 132 | M66 | Z | 0 | 0 | %100 |
| 133 | M67A | Z | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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.%) |
|-----------------------------------------------------------|-----------|----------------------------|----------------------------|----------------------|--------------------|
| 134 | BP-13 | Z | 0 | 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 | SF3-TH | X | 0 | 0 | %100 |
| 2 | SF1-TH | X | 0 | 0 | %100 |
| 3 | SF2-TH | X | 0 | 0 | %100 |
| 4 | SF2-BH | X | 0 | 0 | %100 |
| 5 | SF1-BH | X | 0 | 0 | %100 |
| 6 | M6 | X | 0 | 0 | %100 |
| 7 | M7 | X | 0 | 0 | %100 |
| 8 | M8 | X | 0 | 0 | %100 |
| 9 | M9 | X | 0 | 0 | %100 |
| 10 | M10 | X | 0 | 0 | %100 |
| 11 | M11 | X | 0 | 0 | %100 |
| 12 | M12 | X | 0 | 0 | %100 |
| 13 | M13 | X | 0 | 0 | %100 |
| 14 | M14 | X | 0 | 0 | %100 |
| 15 | M15 | X | 0 | 0 | %100 |
| 16 | M16 | X | 0 | 0 | %100 |
| 17 | M17 | X | 0 | 0 | %100 |
| 18 | M18 | X | 0 | 0 | %100 |
| 19 | M19 | X | 0 | 0 | %100 |
| 20 | M20 | X | 0 | 0 | %100 |
| 21 | M21 | X | 0 | 0 | %100 |
| 22 | M22 | X | 0 | 0 | %100 |
| 23 | M23 | X | 0 | 0 | %100 |
| 24 | M24 | X | 0 | 0 | %100 |
| 25 | M25 | X | 0 | 0 | %100 |
| 26 | M26 | X | 0 | 0 | %100 |
| 27 | M27 | X | 0 | 0 | %100 |
| 28 | M28 | X | 0 | 0 | %100 |
| 29 | M29 | X | 0 | 0 | %100 |
| 30 | MP-5 | X | 0 | 0 | %100 |
| 31 | MP-6 | X | 0 | 0 | %100 |
| 32 | MP-7 | X | 0 | 0 | %100 |
| 33 | MP-8 | X | 0 | 0 | %100 |
| 34 | MP-9 | X | 0 | 0 | %100 |
| 35 | MP-10 | X | 0 | 0 | %100 |
| 36 | MP-11 | X | 0 | 0 | %100 |
| 37 | MP-13 | X | 0 | 0 | %100 |
| 38 | MP-12 | X | 0 | 0 | %100 |
| 39 | MP-1 | X | 0 | 0 | %100 |
| 40 | MP-2 | X | 0 | 0 | %100 |
| 41 | MP-3 | X | 0 | 0 | %100 |
| 42 | MP-4 | X | 0 | 0 | %100 |
| 43 | BP-1 | X | 0 | 0 | %100 |
| 44 | BP-12 | X | 0 | 0 | %100 |
| 45 | BP-11 | X | 0 | 0 | %100 |
| 46 | BP-10 | X | 0 | 0 | %100 |
| 47 | BP-9 | X | 0 | 0 | %100 |
| 48 | BP-8 | X | 0 | 0 | %100 |
| 49 | BP-7 | X | 0 | 0 | %100 |
| 50 | BP-6 | X | 0 | 0 | %100 |
| 51 | BP-5 | X | 0 | 0 | %100 |
| 52 | BP-4 | X | 0 | 0 | %100 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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.%) |
|--------------|-----------|----------------------------|----------------------------|----------------------|--------------------|
| 53 | BP-3 | X | 0 | 0 | %100 |
| 54 | BP-2 | X | 0 | 0 | %100 |
| 55 | M56 | X | 0 | 0 | %100 |
| 56 | M57A | X | 0 | 0 | %100 |
| 57 | M58 | X | 0 | 0 | %100 |
| 58 | M59 | X | 0 | 0 | %100 |
| 59 | M60 | X | 0 | 0 | %100 |
| 60 | M61A | X | 0 | 0 | %100 |
| 61 | M62 | X | 0 | 0 | %100 |
| 62 | M63 | X | 0 | 0 | %100 |
| 63 | M64A | X | 0 | 0 | %100 |
| 64 | M65 | X | 0 | 0 | %100 |
| 65 | M66 | X | 0 | 0 | %100 |
| 66 | M67A | X | 0 | 0 | %100 |
| 67 | BP-13 | X | 0 | 0 | %100 |
| 68 | SF3-TH | Z | 0 | 0 | %100 |
| 69 | SF1-TH | Z | 0 | 0 | %100 |
| 70 | SF2-TH | Z | 0 | 0 | %100 |
| 71 | SF2-BH | Z | 0 | 0 | %100 |
| 72 | SF1-BH | Z | 0 | 0 | %100 |
| 73 | M6 | Z | 0 | 0 | %100 |
| 74 | M7 | Z | 0 | 0 | %100 |
| 75 | M8 | Z | 0 | 0 | %100 |
| 76 | M9 | Z | 0 | 0 | %100 |
| 77 | M10 | Z | 0 | 0 | %100 |
| 78 | M11 | Z | 0 | 0 | %100 |
| 79 | M12 | Z | 0 | 0 | %100 |
| 80 | M13 | Z | 0 | 0 | %100 |
| 81 | M14 | Z | 0 | 0 | %100 |
| 82 | M15 | Z | 0 | 0 | %100 |
| 83 | M16 | Z | 0 | 0 | %100 |
| 84 | M17 | Z | 0 | 0 | %100 |
| 85 | M18 | Z | 0 | 0 | %100 |
| 86 | M19 | Z | 0 | 0 | %100 |
| 87 | M20 | Z | 0 | 0 | %100 |
| 88 | M21 | Z | 0 | 0 | %100 |
| 89 | M22 | Z | 0 | 0 | %100 |
| 90 | M23 | Z | 0 | 0 | %100 |
| 91 | M24 | Z | 0 | 0 | %100 |
| 92 | M25 | Z | 0 | 0 | %100 |
| 93 | M26 | Z | 0 | 0 | %100 |
| 94 | M27 | Z | 0 | 0 | %100 |
| 95 | M28 | Z | 0 | 0 | %100 |
| 96 | M29 | Z | 0 | 0 | %100 |
| 97 | MP-5 | Z | 0 | 0 | %100 |
| 98 | MP-6 | Z | 0 | 0 | %100 |
| 99 | MP-7 | Z | 0 | 0 | %100 |
| 100 | MP-8 | Z | 0 | 0 | %100 |
| 101 | MP-9 | Z | 0 | 0 | %100 |
| 102 | MP-10 | Z | 0 | 0 | %100 |
| 103 | MP-11 | Z | 0 | 0 | %100 |
| 104 | MP-13 | Z | 0 | 0 | %100 |
| 105 | MP-12 | Z | 0 | 0 | %100 |
| 106 | MP-1 | Z | 0 | 0 | %100 |
| 107 | MP-2 | Z | 0 | 0 | %100 |
| 108 | MP-3 | Z | 0 | 0 | %100 |
| 109 | MP-4 | Z | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 110 | BP-1 | 0 | 0 | 0 | %100 |
| 111 | BP-12 | 0 | 0 | 0 | %100 |
| 112 | BP-11 | 0 | 0 | 0 | %100 |
| 113 | BP-10 | 0 | 0 | 0 | %100 |
| 114 | BP-9 | 0 | 0 | 0 | %100 |
| 115 | BP-8 | 0 | 0 | 0 | %100 |
| 116 | BP-7 | 0 | 0 | 0 | %100 |
| 117 | BP-6 | 0 | 0 | 0 | %100 |
| 118 | BP-5 | 0 | 0 | 0 | %100 |
| 119 | BP-4 | 0 | 0 | 0 | %100 |
| 120 | BP-3 | 0 | 0 | 0 | %100 |
| 121 | BP-2 | 0 | 0 | 0 | %100 |
| 122 | M56 | 0 | 0 | 0 | %100 |
| 123 | M57A | 0 | 0 | 0 | %100 |
| 124 | M58 | 0 | 0 | 0 | %100 |
| 125 | M59 | 0 | 0 | 0 | %100 |
| 126 | M60 | 0 | 0 | 0 | %100 |
| 127 | M61A | 0 | 0 | 0 | %100 |
| 128 | M62 | 0 | 0 | 0 | %100 |
| 129 | M63 | 0 | 0 | 0 | %100 |
| 130 | M64A | 0 | 0 | 0 | %100 |
| 131 | M65 | 0 | 0 | 0 | %100 |
| 132 | M66 | 0 | 0 | 0 | %100 |
| 133 | M67A | 0 | 0 | 0 | %100 |
| 134 | BP-13 | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | SF3-TH | 0 | 0 | 0 | %100 |
| 2 | SF1-TH | 0 | 0 | 0 | %100 |
| 3 | SF2-TH | 0 | 0 | 0 | %100 |
| 4 | SF2-BH | 0 | 0 | 0 | %100 |
| 5 | SF1-BH | 0 | 0 | 0 | %100 |
| 6 | M6 | 0 | 0 | 0 | %100 |
| 7 | M7 | 0 | 0 | 0 | %100 |
| 8 | M8 | 0 | 0 | 0 | %100 |
| 9 | M9 | 0 | 0 | 0 | %100 |
| 10 | M10 | 0 | 0 | 0 | %100 |
| 11 | M11 | 0 | 0 | 0 | %100 |
| 12 | M12 | 0 | 0 | 0 | %100 |
| 13 | M13 | 0 | 0 | 0 | %100 |
| 14 | M14 | 0 | 0 | 0 | %100 |
| 15 | M15 | 0 | 0 | 0 | %100 |
| 16 | M16 | 0 | 0 | 0 | %100 |
| 17 | M17 | 0 | 0 | 0 | %100 |
| 18 | M18 | 0 | 0 | 0 | %100 |
| 19 | M19 | 0 | 0 | 0 | %100 |
| 20 | M20 | 0 | 0 | 0 | %100 |
| 21 | M21 | 0 | 0 | 0 | %100 |
| 22 | M22 | 0 | 0 | 0 | %100 |
| 23 | M23 | 0 | 0 | 0 | %100 |
| 24 | M24 | 0 | 0 | 0 | %100 |
| 25 | M25 | 0 | 0 | 0 | %100 |
| 26 | M26 | 0 | 0 | 0 | %100 |
| 27 | M27 | 0 | 0 | 0 | %100 |
| 28 | M28 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 29 | M29 | 0 | 0 | 0 | %100 |
| 30 | MP-5 | 0 | 0 | 0 | %100 |
| 31 | MP-6 | 0 | 0 | 0 | %100 |
| 32 | MP-7 | 0 | 0 | 0 | %100 |
| 33 | MP-8 | 0 | 0 | 0 | %100 |
| 34 | MP-9 | 0 | 0 | 0 | %100 |
| 35 | MP-10 | 0 | 0 | 0 | %100 |
| 36 | MP-11 | 0 | 0 | 0 | %100 |
| 37 | MP-13 | 0 | 0 | 0 | %100 |
| 38 | MP-12 | 0 | 0 | 0 | %100 |
| 39 | MP-1 | 0 | 0 | 0 | %100 |
| 40 | MP-2 | 0 | 0 | 0 | %100 |
| 41 | MP-3 | 0 | 0 | 0 | %100 |
| 42 | MP-4 | 0 | 0 | 0 | %100 |
| 43 | BP-1 | 0 | 0 | 0 | %100 |
| 44 | BP-12 | 0 | 0 | 0 | %100 |
| 45 | BP-11 | 0 | 0 | 0 | %100 |
| 46 | BP-10 | 0 | 0 | 0 | %100 |
| 47 | BP-9 | 0 | 0 | 0 | %100 |
| 48 | BP-8 | 0 | 0 | 0 | %100 |
| 49 | BP-7 | 0 | 0 | 0 | %100 |
| 50 | BP-6 | 0 | 0 | 0 | %100 |
| 51 | BP-5 | 0 | 0 | 0 | %100 |
| 52 | BP-4 | 0 | 0 | 0 | %100 |
| 53 | BP-3 | 0 | 0 | 0 | %100 |
| 54 | BP-2 | 0 | 0 | 0 | %100 |
| 55 | M56 | 0 | 0 | 0 | %100 |
| 56 | M57A | 0 | 0 | 0 | %100 |
| 57 | M58 | 0 | 0 | 0 | %100 |
| 58 | M59 | 0 | 0 | 0 | %100 |
| 59 | M60 | 0 | 0 | 0 | %100 |
| 60 | M61A | 0 | 0 | 0 | %100 |
| 61 | M62 | 0 | 0 | 0 | %100 |
| 62 | M63 | 0 | 0 | 0 | %100 |
| 63 | M64A | 0 | 0 | 0 | %100 |
| 64 | M65 | 0 | 0 | 0 | %100 |
| 65 | M66 | 0 | 0 | 0 | %100 |
| 66 | M67A | 0 | 0 | 0 | %100 |
| 67 | BP-13 | 0 | 0 | 0 | %100 |
| 68 | SF3-TH | 0 | 0 | 0 | %100 |
| 69 | SF1-TH | 0 | 0 | 0 | %100 |
| 70 | SF2-TH | 0 | 0 | 0 | %100 |
| 71 | SF2-BH | 0 | 0 | 0 | %100 |
| 72 | SF1-BH | 0 | 0 | 0 | %100 |
| 73 | M6 | 0 | 0 | 0 | %100 |
| 74 | M7 | 0 | 0 | 0 | %100 |
| 75 | M8 | 0 | 0 | 0 | %100 |
| 76 | M9 | 0 | 0 | 0 | %100 |
| 77 | M10 | 0 | 0 | 0 | %100 |
| 78 | M11 | 0 | 0 | 0 | %100 |
| 79 | M12 | 0 | 0 | 0 | %100 |
| 80 | M13 | 0 | 0 | 0 | %100 |
| 81 | M14 | 0 | 0 | 0 | %100 |
| 82 | M15 | 0 | 0 | 0 | %100 |
| 83 | M16 | 0 | 0 | 0 | %100 |
| 84 | M17 | 0 | 0 | 0 | %100 |
| 85 | M18 | 0 | 0 | 0 | %100 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| M19 | Z | 0 | 0 | 0 | %100 |
| M20 | Z | 0 | 0 | 0 | %100 |
| M21 | Z | 0 | 0 | 0 | %100 |
| M22 | Z | 0 | 0 | 0 | %100 |
| M23 | Z | 0 | 0 | 0 | %100 |
| M24 | Z | 0 | 0 | 0 | %100 |
| M25 | Z | 0 | 0 | 0 | %100 |
| M26 | Z | 0 | 0 | 0 | %100 |
| M27 | Z | 0 | 0 | 0 | %100 |
| M28 | Z | 0 | 0 | 0 | %100 |
| M29 | Z | 0 | 0 | 0 | %100 |
| M30 | Z | 0 | 0 | 0 | %100 |
| M31 | Z | 0 | 0 | 0 | %100 |
| M32 | Z | 0 | 0 | 0 | %100 |
| M33 | Z | 0 | 0 | 0 | %100 |
| M34 | Z | 0 | 0 | 0 | %100 |
| M35 | Z | 0 | 0 | 0 | %100 |
| M36 | Z | 0 | 0 | 0 | %100 |
| M37 | Z | 0 | 0 | 0 | %100 |
| M38 | Z | 0 | 0 | 0 | %100 |
| M39 | Z | 0 | 0 | 0 | %100 |
| M40 | Z | 0 | 0 | 0 | %100 |
| M41 | Z | 0 | 0 | 0 | %100 |
| M42 | Z | 0 | 0 | 0 | %100 |
| M43 | Z | 0 | 0 | 0 | %100 |
| M44 | Z | 0 | 0 | 0 | %100 |
| M45 | Z | 0 | 0 | 0 | %100 |
| M46 | Z | 0 | 0 | 0 | %100 |
| M47 | Z | 0 | 0 | 0 | %100 |
| M48 | Z | 0 | 0 | 0 | %100 |
| M49 | Z | 0 | 0 | 0 | %100 |
| M50 | Z | 0 | 0 | 0 | %100 |
| M51 | Z | 0 | 0 | 0 | %100 |
| M52 | Z | 0 | 0 | 0 | %100 |
| M53 | Z | 0 | 0 | 0 | %100 |
| M54 | Z | 0 | 0 | 0 | %100 |
| M55 | Z | 0 | 0 | 0 | %100 |
| M56 | Z | 0 | 0 | 0 | %100 |
| M57 | Z | 0 | 0 | 0 | %100 |
| M58 | Z | 0 | 0 | 0 | %100 |
| M59 | Z | 0 | 0 | 0 | %100 |
| M60 | Z | 0 | 0 | 0 | %100 |
| M61 | Z | 0 | 0 | 0 | %100 |
| M62 | Z | 0 | 0 | 0 | %100 |
| M63 | Z | 0 | 0 | 0 | %100 |
| M64 | Z | 0 | 0 | 0 | %100 |
| M65 | Z | 0 | 0 | 0 | %100 |
| M66 | Z | 0 | 0 | 0 | %100 |
| M67 | Z | 0 | 0 | 0 | %100 |
| M68 | Z | 0 | 0 | 0 | %100 |
| M69 | Z | 0 | 0 | 0 | %100 |
| M70 | Z | 0 | 0 | 0 | %100 |
| M71 | Z | 0 | 0 | 0 | %100 |
| M72 | Z | 0 | 0 | 0 | %100 |
| M73 | Z | 0 | 0 | 0 | %100 |
| M74 | Z | 0 | 0 | 0 | %100 |
| M75 | Z | 0 | 0 | 0 | %100 |
| M76 | Z | 0 | 0 | 0 | %100 |
| M77 | Z | 0 | 0 | 0 | %100 |
| M78 | Z | 0 | 0 | 0 | %100 |
| M79 | Z | 0 | 0 | 0 | %100 |
| M80 | Z | 0 | 0 | 0 | %100 |
| M81 | Z | 0 | 0 | 0 | %100 |
| M82 | Z | 0 | 0 | 0 | %100 |
| M83 | Z | 0 | 0 | 0 | %100 |
| M84 | Z | 0 | 0 | 0 | %100 |
| M85 | Z | 0 | 0 | 0 | %100 |
| M86 | Z | 0 | 0 | 0 | %100 |
| M87 | Z | 0 | 0 | 0 | %100 |
| M88 | Z | 0 | 0 | 0 | %100 |
| M89 | Z | 0 | 0 | 0 | %100 |
| M90 | Z | 0 | 0 | 0 | %100 |
| M91 | Z | 0 | 0 | 0 | %100 |
| M92 | Z | 0 | 0 | 0 | %100 |
| M93 | Z | 0 | 0 | 0 | %100 |
| M94 | Z | 0 | 0 | 0 | %100 |
| M95 | Z | 0 | 0 | 0 | %100 |
| M96 | Z | 0 | 0 | 0 | %100 |
| M97 | Z | 0 | 0 | 0 | %100 |
| M98 | Z | 0 | 0 | 0 | %100 |
| M99 | Z | 0 | 0 | 0 | %100 |
| M100 | Z | 0 | 0 | 0 | %100 |
| M101 | Z | 0 | 0 | 0 | %100 |
| M102 | Z | 0 | 0 | 0 | %100 |
| M103 | Z | 0 | 0 | 0 | %100 |
| M104 | Z | 0 | 0 | 0 | %100 |
| M105 | Z | 0 | 0 | 0 | %100 |
| M106 | Z | 0 | 0 | 0 | %100 |
| M107 | Z | 0 | 0 | 0 | %100 |
| M108 | Z | 0 | 0 | 0 | %100 |
| M109 | Z | 0 | 0 | 0 | %100 |
| M110 | Z | 0 | 0 | 0 | %100 |
| M111 | Z | 0 | 0 | 0 | %100 |
| M112 | Z | 0 | 0 | 0 | %100 |
| M113 | Z | 0 | 0 | 0 | %100 |
| M114 | Z | 0 | 0 | 0 | %100 |
| M115 | Z | 0 | 0 | 0 | %100 |
| M116 | Z | 0 | 0 | 0 | %100 |
| M117 | Z | 0 | 0 | 0 | %100 |
| M118 | Z | 0 | 0 | 0 | %100 |
| M119 | Z | 0 | 0 | 0 | %100 |
| M120 | Z | 0 | 0 | 0 | %100 |
| M121 | Z | 0 | 0 | 0 | %100 |
| M122 | Z | 0 | 0 | 0 | %100 |
| M123 | Z | 0 | 0 | 0 | %100 |
| M124 | Z | 0 | 0 | 0 | %100 |
| M125 | Z | 0 | 0 | 0 | %100 |
| M126 | Z | 0 | 0 | 0 | %100 |
| M127 | Z | 0 | 0 | 0 | %100 |
| M128 | Z | 0 | 0 | 0 | %100 |
| M129 | Z | 0 | 0 | 0 | %100 |
| M130 | Z | 0 | 0 | 0 | %100 |
| M131 | Z | 0 | 0 | 0 | %100 |
| M132 | Z | 0 | 0 | 0 | %100 |
| M133 | Z | 0 | 0 | 0 | %100 |
| M134 | Z | 0 | 0 | 0 | %100 |

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 1 | Y | -021 | -011 | 10.5 | 12.75 |
| 2 | Y | -011 | -002 | 12.75 | 15 |
| 3 | Y | -014 | -014 | .239 | 1.762 |
| 4 | Y | -011 | -011 | .419 | 1.389 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 5 | Y | -001 | -009 | 9 | 10.5 |
| 6 | Y | -009 | -009 | 10.5 | 12 |
| 7 | Y | -009 | -001 | 12 | 13.5 |
| 8 | Y | -013 | -009 | 0 | 1.397 |
| 9 | Y | -011 | -011 | 0 | .501 |
| 10 | Y | -022 | -011 | 0 | 1.389 |
| 11 | Y | -002 | -01 | 9 | 10.2 |
| 12 | Y | -01 | -023 | 10.2 | 11.4 |
| 13 | Y | -023 | -027 | 11.4 | 12.6 |
| 14 | Y | -013 | -013 | 12.6 | 13.8 |
| 15 | Y | -013 | -0006722 | 13.8 | 15 |
| 16 | Y | -041 | -018 | 0 | .167 |
| 17 | Y | -018 | -005 | .167 | .333 |
| 18 | Y | -005 | -004 | .333 | .5 |
| 19 | Y | -004 | -003 | .5 | .667 |
| 20 | Y | -003 | -0002387 | .667 | .833 |
| 21 | Y | -004 | -003 | 0 | .698 |
| 22 | Y | -003 | -002 | .698 | 1.397 |
| 23 | Y | -006 | -003 | 0 | .379 |
| 24 | Y | -003 | -0002399 | .379 | .758 |
| 25 | Y | -0002302 | -011 | 4.5 | 5.7 |
| 26 | Y | -011 | -021 | 5.7 | 6.9 |
| 27 | Y | -021 | -021 | 6.9 | 8.1 |
| 28 | Y | -021 | -013 | 8.1 | 9.3 |
| 29 | Y | -013 | -0002802 | 9.3 | 10.5 |
| 30 | Y | -02 | -02 | 0 | 1.2 |
| 31 | Y | -02 | -034 | 1.2 | 2.4 |
| 32 | Y | -034 | -031 | 2.4 | 3.6 |
| 33 | Y | -031 | -01 | 3.6 | 4.8 |
| 34 | Y | -001 | -004434 | 4.8 | 6 |
| 35 | Y | -0001098 | -002 | 0 | .689 |
| 36 | Y | -002 | -004 | .689 | 1.377 |
| 37 | Y | -002 | -002 | .844 | 1.377 |
| 38 | Y | -0005688 | -002 | .25 | .833 |
| 39 | Y | -018 | -008 | 0 | .167 |
| 40 | Y | -008 | -004 | .167 | .333 |
| 41 | Y | -004 | -005 | .333 | .5 |
| 42 | Y | -005 | -07 | .5 | .667 |
| 43 | Y | -07 | -199 | .667 | .833 |
| 44 | Y | -197 | -069 | 0 | .167 |
| 45 | Y | -069 | -004 | .167 | .333 |
| 46 | Y | -004 | -011 | .333 | .5 |
| 47 | Y | -011 | -078 | .5 | .667 |
| 48 | Y | -078 | -198 | .667 | .833 |
| 49 | Y | -004 | -004 | .076 | .756 |
| 50 | Y | -005 | -005 | .105 | .856 |
| 51 | Y | -026 | -026 | .274 | .316 |
| 52 | Y | -0001561 | -005 | 0 | .152 |
| 53 | Y | -005 | -007 | .304 | .304 |
| 54 | Y | -007 | -004 | .304 | .456 |
| 55 | Y | -007 | -004 | .456 | .608 |
| 56 | Y | -004 | -0001561 | .608 | .76 |
| 57 | Y | 3.6078e-5 | -0005825 | 0 | .275 |
| 58 | Y | -0005925 | -0007897 | .275 | .551 |
| 59 | Y | -0007897 | -001 | .551 | .826 |
| 60 | Y | -001 | -003 | 1.102 | 1.102 |
| 61 | Y | -003 | -004 | 1.102 | 1.377 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 62 | M7 | -0.007 | -0.003 | 0 | .275 |
| 63 | M7 | -0.003 | -0.001 | .275 | .551 |
| 64 | M7 | -0.001 | -0.002 | .551 | .826 |
| 65 | M7 | -0.002 | -0.003 | .826 | 1.102 |
| 66 | M7 | -0.003 | -0.004 | 1.102 | 1.377 |
| 67 | M64A | -0.003 | -0.004 | 0 | .275 |
| 68 | M64A | -0.004 | -0.004 | .275 | .551 |
| 69 | M64A | -0.004 | -0.004 | .551 | .826 |
| 70 | M64A | -0.004 | -0.006 | .826 | 1.102 |
| 71 | M64A | -0.006 | -0.006 | 1.102 | 1.377 |
| 72 | M65 | -0.002 | -0.002 | 0 | .275 |
| 73 | M65 | -0.002 | -0.002 | .275 | .551 |
| 74 | M65 | -0.002 | -0.001 | .551 | .826 |
| 75 | M65 | -0.001 | -0.001 | .826 | 1.102 |
| 76 | M65 | -0.001 | -0.001 | 1.102 | 1.377 |
| 77 | M78 | -0.005797 | -0.002 | 0 | .386 |
| 78 | M78 | -0.002 | -0.002 | .386 | .772 |
| 79 | M79 | -0.003109 | -0.003109 | .76 | .76 |
| 80 | M8 | -0.006187 | -0.004 | .14 | .768 |
| 81 | M8 | -0.007 | -0.007 | .768 | 1.397 |
| 82 | BP-8 | -0.064 | -0.019 | 0 | .167 |
| 83 | BP-8 | -0.019 | -0.004 | .167 | .333 |
| 84 | BP-8 | -0.004 | -0.009 | .333 | .5 |
| 85 | BP-8 | -0.009 | -0.027 | .5 | .667 |
| 86 | BP-8 | -0.027 | -0.07 | .667 | .833 |
| 87 | M66 | -0.003 | -0.003 | 0 | 1.397 |
| 88 | M77 | -0.005 | -0.007 | 0 | .385 |
| 89 | M77 | -0.007 | -0.01 | .385 | .77 |
| 90 | SF1-TH | -0.01 | -0.04 | 1.5 | 3.75 |
| 91 | SF1-TH | -0.04 | .0004297 | 3.75 | 6 |
| 92 | SF2-BH | -0.009 | -0.009 | 3.332 | 4.468 |
| 93 | M9 | .0001038 | -0.013 | 0 | .695 |
| 94 | M9 | -0.013 | -0.026 | .695 | 1.389 |
| 95 | BP-8 | -0.017 | -0.017 | .332 | .833 |
| 96 | M67A | -0.003 | -0.017 | 0 | 1.389 |
| 97 | SF1-TH | -0.01 | -0.01 | 0 | 1.5 |
| 98 | SF1-TH | -0.01 | -0.02 | 1.5 | 3 |
| 99 | SF1-TH | -0.02 | -0.02 | 3 | 4.5 |
| 100 | SF1-TH | -0.00521 | -0.00521 | 4.5 | 6 |
| 101 | M10 | -0.009 | -0.009 | .019 | 1.636 |
| 102 | SF1-TH | -0.002569 | -0.008 | 0 | 1.2 |
| 103 | SF1-TH | -0.008 | -0.014 | 1.2 | 2.4 |
| 104 | SF1-TH | -0.014 | -0.011 | 2.4 | 3.6 |
| 105 | SF1-TH | -0.011 | -0.004 | 3.6 | 4.8 |
| 106 | SF1-TH | -0.004 | -0.002569 | 4.8 | 6 |
| 107 | SF2-TH | -0.006678 | -0.015 | 9.6 | 10.88 |
| 108 | SF2-TH | -0.015 | -0.027 | 10.88 | 12.16 |
| 109 | SF2-TH | -0.027 | -0.026 | 12.16 | 13.44 |
| 110 | SF2-TH | -0.026 | -0.021 | 13.44 | 14.72 |
| 111 | SF2-TH | -0.021 | -0.007 | 14.72 | 16 |
| 112 | SF2-BH | -0.00226 | -0.002 | 4.5 | 5.1 |
| 113 | SF2-BH | -0.002 | -0.007 | 5.1 | 5.7 |
| 114 | SF2-BH | -0.007 | -0.01 | 5.7 | 6.3 |
| 115 | SF2-BH | -0.01 | -0.006 | 6.3 | 6.9 |
| 116 | SF2-BH | -0.006 | -0.00226 | 6.9 | 7.5 |
| 117 | M11 | -0.002 | -0.001 | 0 | .203 |
| 118 | M11 | -0.001 | -0.005561 | .203 | .407 |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : COI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| 119 | M11 | -0.005561 | -0.001 | .407 | .61 |
| 120 | M11 | -0.001 | -0.003 | .61 | .814 |
| 121 | M11 | -0.003 | -0.004 | .814 | 1.017 |
| 122 | M12 | -0.006 | -0.003 | 0 | .697 |
| 123 | M12 | -0.003 | -0.005544 | .697 | 1.394 |
| 124 | BP-7 | .0009133 | -0.002 | 0 | .167 |
| 125 | BP-7 | -0.002 | -0.004 | .167 | .333 |
| 126 | BP-7 | -0.004 | -0.005 | .333 | .5 |
| 127 | BP-7 | -0.005 | -0.039 | .5 | .667 |
| 128 | BP-7 | -0.039 | -0.107 | .667 | .833 |
| 129 | M76 | -0.003 | -0.005 | 0 | .162 |
| 130 | M76 | -0.005 | -0.006 | .162 | .324 |
| 131 | M76 | -0.006 | -0.005 | .324 | .487 |
| 132 | M76 | -0.005 | -0.004 | .487 | .649 |
| 133 | M76 | -0.004 | -0.002 | .649 | .811 |
| 134 | SF3-TH | -0.0003919 | -0.01 | 0 | 1.2 |
| 135 | SF3-TH | -0.01 | -0.019 | 1.2 | 2.4 |
| 136 | SF3-TH | -0.019 | -0.015 | 2.4 | 3.6 |
| 137 | SF3-TH | -0.015 | -0.004 | 3.6 | 4.8 |
| 138 | SF3-TH | -0.004 | -0.003919 | 4.8 | 6 |
| 139 | SF2-BH | -0.011 | -0.011 | 8.221 | 9.636 |
| 140 | M13 | -0.004 | -0.004 | 0 | 1.384 |
| 141 | M14 | -0.002 | -0.002 | 0 | 1.493 |
| 142 | BP-6 | -0.08 | -0.036 | 0 | .167 |
| 143 | BP-6 | -0.036 | -0.014 | .167 | .333 |
| 144 | BP-6 | -0.014 | -0.006 | .333 | .5 |
| 145 | BP-6 | -0.006 | -0.018 | .5 | .667 |
| 146 | BP-6 | -0.018 | -0.058 | .667 | .833 |
| 147 | M75 | -0.003 | -0.006 | 0 | .423 |
| 148 | M75 | -0.006 | -0.009 | .423 | .846 |
| 149 | SF3-TH | -0.007 | -0.008 | 0 | 2 |
| 150 | SF3-TH | -0.008 | -0.006 | 2 | 4 |
| 151 | SF3-TH | -0.006 | -0.005053 | 4 | 6 |
| 152 | M15 | -0.006 | -0.006 | 1.299 | 1.299 |
| 153 | M16 | -0.007 | -0.007 | 1.111 | 1.111 |
| 154 | BP-5 | -0.031 | -0.031 | 0 | .501 |
| 155 | SF3-TH | -0.005376 | -0.009544 | 1.5 | 3.75 |
| 156 | SF3-TH | -0.009544 | -0.01 | 3.75 | 6 |
| 157 | SF2-BH | -0.008756 | -0.009 | 9 | 10.2 |
| 158 | SF2-BH | -0.009 | -0.026 | 10.2 | 11.4 |
| 159 | SF2-BH | -0.026 | -0.034 | 11.4 | 12.6 |
| 160 | SF2-BH | -0.034 | -0.021 | 12.6 | 13.8 |
| 161 | SF2-BH | -0.021 | -0.001 | 13.8 | 15 |
| 162 | M17 | -0.006 | -0.008 | 0 | .466 |
| 163 | M17 | -0.008 | -0.008 | .466 | .931 |
| 164 | M17 | -0.009 | -0.009 | .931 | 1.397 |
| 165 | BP-5 | -0.014 | -0.013 | 0 | .167 |
| 166 | BP-5 | -0.013 | -0.01 | .167 | .333 |
| 167 | BP-5 | -0.01 | -0.011 | .333 | .5 |
| 168 | BP-5 | -0.011 | -0.05 | .5 | .667 |
| 169 | BP-5 | -0.05 | -0.119 | .667 | .833 |
| 170 | M58 | -0.005 | -0.003 | 0 | .278 |
| 171 | M58 | -0.003 | -0.002 | .278 | .556 |
| 172 | M58 | -0.002 | -0.002 | .556 | .834 |
| 173 | M58 | -0.002 | -0.004 | .834 | 1.111 |
| 174 | M58 | -0.004 | -0.007 | 1.111 | 1.389 |
| 175 | M70 | -0.004 | -0.006 | 0 | .156 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| M70 | Y | -0.06 | -0.08 | .156 | .311 |
| M70 | Y | -0.08 | -0.05 | .311 | .467 |
| M70 | Y | -0.05 | -0.02 | .467 | .622 |
| M70 | Y | -0.02 | -0.05 | .622 | .778 |
| M56 | Y | -0.07 | -0.07 | 0 | 1.25 |
| SF3-TH | Y | -0.002561 | -0.01 | 4.5 | 5.7 |
| SF3-TH | Y | -0.01 | -0.02 | 5.7 | 6.9 |
| SF3-TH | Y | -0.02 | -0.21 | 6.9 | 8.1 |
| SF3-TH | Y | -0.21 | -0.13 | 8.1 | 9.3 |
| SF3-TH | Y | -0.13 | -0.002561 | 9.3 | 10.5 |
| SF1-BH | Y | -0.004594 | -0.16 | 1.2 | 2.4 |
| SF1-BH | Y | -0.16 | -0.03 | 2.4 | 3.6 |
| SF1-BH | Y | -0.03 | -0.22 | 3.6 | 4.8 |
| SF1-BH | Y | -0.22 | -0.004594 | 4.8 | 6 |
| M18 | Y | -0.06 | -0.06 | 4.8 | 6 |
| M18 | Y | -0.06 | -0.05 | 6 | .689 |
| M18 | Y | -0.05 | -0.07 | .689 | 1.377 |
| M19 | Y | -0.07 | -0.05 | 1.38 | .757 |
| M19 | Y | -0.05 | -0.13 | 1.38 | 1.377 |
| M19 | Y | -0.13 | -0.05 | 1.377 | 1.67 |
| BP-4 | Y | -0.16 | -0.06 | 1.67 | .333 |
| BP-4 | Y | -0.06 | -0.15 | .333 | .5 |
| BP-4 | Y | -0.15 | -0.13 | .5 | .667 |
| BP-4 | Y | -0.13 | -0.245 | .667 | .833 |
| BP-3 | Y | -0.17 | -0.07 | 0 | .222 |
| BP-3 | Y | -0.07 | -0.03 | .222 | .444 |
| BP-3 | Y | -0.03 | -0.03 | .444 | .667 |
| M59 | Y | -0.21 | -0.14 | 0 | .275 |
| M59 | Y | -0.14 | -0.08 | .275 | .551 |
| M59 | Y | -0.08 | -0.04 | .551 | .826 |
| M59 | Y | -0.04 | 0.001758 | 1.102 | 1.377 |
| M69 | Y | -0.04 | -0.04 | .773 | 0 |
| M18 | Y | -5.001e-6 | -0.007197 | 0 | .275 |
| M18 | Y | -0.007197 | -0.01 | .275 | .551 |
| M18 | Y | -0.01 | -0.02 | .551 | .826 |
| M18 | Y | -0.02 | -0.02 | .826 | 1.102 |
| M19 | Y | -0.02 | -0.03 | 1.102 | 1.377 |
| M19 | Y | -0.03 | -0.06 | 0 | .275 |
| M19 | Y | -0.06 | -0.04 | .275 | .551 |
| M19 | Y | -0.04 | -0.04 | .551 | .826 |
| M19 | Y | -0.04 | -0.04 | .826 | 1.102 |
| M19 | Y | -0.04 | -0.03 | 1.102 | 1.377 |
| M57A | Y | -0.04 | -0.03 | 0 | .275 |
| M57A | Y | -0.03 | -0.02 | .275 | .551 |
| M57A | Y | -0.02 | -0.01 | .551 | .826 |
| M57A | Y | -0.01 | -0.03 | .826 | 1.102 |
| M57A | Y | -0.03 | -0.07 | 1.102 | 1.377 |
| M20 | Y | -0.02 | -0.03 | 0 | .698 |
| M20 | Y | -0.03 | -0.05 | .698 | 1.397 |
| BP-3 | Y | -0.05 | -0.02 | 1.67 | .333 |
| BP-3 | Y | -0.02 | -0.02 | .333 | .667 |
| BP-3 | Y | -0.02 | -0.02 | .667 | 1.001 |
| BP-3 | Y | -0.02 | -0.12 | 1.001 | 1.333 |
| BP-2 | Y | -0.12 | -0.15 | 1.333 | 1.667 |
| BP-2 | Y | -0.15 | -0.05 | 1.667 | 2.001 |



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

| Member Label | Direction | Start Magnitude(k/ft.....) | End Magnitude(k/ft.....) | Start Location(ft.%) | End Location(ft.%) |
|--------------|-----------|----------------------------|--------------------------|----------------------|--------------------|
| BP-2 | Y | -0.05 | -0.03 | .333 | .5 |
| BP-2 | Y | -0.03 | -0.29 | .5 | .667 |
| BP-2 | Y | -0.29 | -0.77 | .667 | .833 |
| M60 | Y | -0.02 | -0.02 | 0 | 1.397 |
| M71 | Y | -0.03 | -0.04 | 0 | .378 |
| M71 | Y | -0.04 | -0.04 | .378 | .756 |
| M72 | Y | -0.05 | -0.07 | 0 | .385 |
| M72 | Y | -0.07 | -0.01 | .385 | .77 |
| SF3-TH | Y | -2.619e-5 | -0.05 | 9 | 10.5 |
| SF3-TH | Y | -0.05 | -0.01 | 10.5 | 12 |
| SF3-TH | Y | -0.01 | -0.09 | 12 | 13.5 |
| M21 | Y | -0.09 | -0.09 | 13.5 | 13.89 |
| BP-2 | Y | -0.18 | -0.12 | .333 | .833 |
| M61A | Y | -0.17 | -0.12 | 0 | .895 |
| M61A | Y | -0.12 | -0.07 | .895 | 1.389 |
| SF3-TH | Y | -0.006275 | -0.04 | 9 | 10.2 |
| SF3-TH | Y | -0.04 | -0.13 | 10.2 | 11.4 |
| SF3-TH | Y | -0.13 | -0.22 | 11.4 | 12.6 |
| SF3-TH | Y | -0.22 | -0.02 | 12.6 | 13.8 |
| SF3-TH | Y | -0.02 | -0.06275 | 13.8 | 15 |
| M22 | Y | -0.07 | -0.07 | 0 | 1.17 |
| SF2-TH | Y | -0.09 | -0.09 | 0 | 1.28 |
| SF2-TH | Y | -0.09 | -0.13 | 1.28 | 2.56 |
| SF2-TH | Y | -0.13 | -0.11 | 2.56 | 3.84 |
| SF2-TH | Y | -0.11 | -0.03 | 3.84 | 5.12 |
| SF2-TH | Y | -0.03 | -4.254e-5 | 5.12 | 6.4 |
| SF1-BH | Y | -0.03 | -0.03 | 4.5 | 5.625 |
| SF1-BH | Y | -0.03 | -0.02 | 5.625 | 6.75 |
| SF1-BH | Y | -0.02 | -0.02 | 6.75 | 7.875 |
| SF1-BH | Y | -0.02 | -0.02 | 7.875 | 9 |
| M23 | Y | -0.05 | -0.03 | 0 | .746 |
| M23 | Y | -0.03 | -0.03 | .746 | 1.493 |
| M24 | Y | -0.04 | -0.03 | 0 | 1.255 |
| BP-1 | Y | -0.02 | -0.16 | 0 | .167 |
| BP-1 | Y | -0.16 | -0.05 | .167 | .333 |
| BP-1 | Y | -0.05 | -0.12 | .333 | .5 |
| BP-1 | Y | -0.12 | -0.06 | .5 | .667 |
| BP-1 | Y | -0.06 | -0.115 | .667 | .833 |
| M68 | Y | -0.03 | -0.03 | 0 | .5 |
| M73 | Y | -0.02 | -0.06 | 0 | .28 |
| M73 | Y | -0.06 | -0.06 | .28 | .56 |
| M73 | Y | -0.06 | -0.008696 | .56 | .841 |
| BP-13 | Y | -0.45 | -0.37 | 0 | .167 |
| BP-13 | Y | -0.37 | -0.18 | .167 | .333 |
| BP-13 | Y | -0.18 | -0.17 | .333 | .5 |
| BP-13 | Y | -0.17 | -0.36 | .5 | .667 |
| BP-13 | Y | -0.36 | -0.44 | .667 | .833 |
| SF1-TH | Y | -0.01 | -0.09 | 10.5 | 11.4 |
| SF1-TH | Y | -0.09 | -0.14 | 11.4 | 12.3 |
| SF1-TH | Y | -0.14 | -0.13 | 12.3 | 13.2 |
| SF1-TH | Y | -0.13 | -0.07 | 13.2 | 14.1 |
| SF1-TH | Y | -0.07 | -0.005679 | 14.1 | 15 |
| SF2-TH | Y | -0.05 | -0.08 | 0 | .96 |
| SF2-TH | Y | -0.08 | -0.11 | .96 | 1.92 |
| SF2-TH | Y | -0.11 | -0.13 | 1.92 | 2.88 |
| SF2-TH | Y | -0.13 | -0.09 | 2.88 | 3.84 |
| SF2-TH | Y | -0.09 | -0.13 | 3.84 | 4.8 |

Member Distributed Loads (BLC 99 : BLC 1 Transient Area Loads) (Continued)

| Member Label | Direction | Start Location(ft.) | End Location(ft.) | Start Location(ft.) | End Location(ft.) | Start Location(ft.) | End Location(ft.) |
|--------------|-----------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|
| 290 | SF1-BH | Y | -0.03 | -0.08 | 6 | 10.5 | 10.5 |
| 291 | M25 | Y | -0.03 | -0.03 | 0 | 1.394 | 1.394 |
| 292 | M26 | Y | -0.01 | -0.01 | 0 | 1.017 | 1.017 |
| 293 | BP-12 | Y | -0.1 | -0.37 | 0 | 1.67 | 1.67 |
| 294 | BP-12 | Y | -0.37 | -0.06 | 1.67 | 3.33 | 3.33 |
| 295 | BP-12 | Y | -0.06 | -0.04 | 3.33 | 5 | 5 |
| 296 | BP-12 | Y | -0.04 | -0.02 | 5 | 6.67 | 6.67 |
| 297 | BP-12 | Y | -0.02 | -0.03 | 6.67 | 8.33 | 8.33 |
| 298 | M74 | Y | -9.526e-5 | -0.03 | 1.58 | 1.58 | 1.58 |
| 299 | M74 | Y | -0.03 | -0.03 | 1.58 | 3.16 | 3.16 |
| 300 | M74 | Y | -0.07 | -0.07 | 4.74 | 4.74 | 4.74 |
| 301 | M74 | Y | -0.07 | -0.03 | 4.74 | 6.32 | 6.32 |
| 302 | SF1-TH | Y | -0.14 | -9.526e-5 | 5.292 | 7.92 | 7.92 |
| 303 | SF2-TH | Y | -0.14 | -0.14 | 5.292 | 10.208 | 10.208 |
| 304 | SF2-TH | Y | -0.14 | -0.14 | 8.208 | 10.208 | 10.208 |

Envelope Joint Reactions

| Joint | X (k) | Y (k) | Z (k) | LC | MX (k-ft) | MY (k-ft) | MZ (k-ft) | LC |
|------------|-----------|-------|-------|----|-----------|-----------|-----------|----|
| 1 N4 | max -0.12 | 1 | -1.69 | 17 | 0 | 66 | 0 | 66 |
| 2 N5 | min -0.08 | 2 | 0.5 | 2 | 1 | 0 | 1 | 0 |
| 3 N5 | max 0 | 1 | -2.76 | 66 | 1 | 0 | 66 | 66 |
| 4 N26 | min -457 | 51 | -0.62 | 2 | 0 | 1 | 0 | 1 |
| 5 N26 | max 457 | 66 | 83 | 66 | 0 | 66 | 0 | 66 |
| 6 N27 | min -248 | 1 | 322 | 2 | -5.57 | 1 | 0 | 1 |
| 7 N27 | max -211 | 66 | 615 | 17 | -2.56 | 17 | 0 | 66 |
| 8 N28 | min -0.47 | 2 | 3.96 | 2 | -4.89 | 51 | 1 | 0 |
| 9 N28 | max -0.54 | 17 | 5.09 | 1 | -3.72 | 1 | 0 | 66 |
| 10 N29 | min -0.83 | 1 | 3.27 | 2 | -2.39 | 2 | 0 | 1 |
| 11 N29 | max 302 | 2 | 484 | 2 | 4.45 | 2 | 0 | 1 |
| 12 N30 | min -195 | 2 | 751 | 1 | -6.91 | 1 | 0 | 1 |
| 13 N30 | max 286 | 1 | 565 | 1 | 7.33 | 1 | 0 | 66 |
| 14 N31 | min -184 | 4 | 363 | 2 | 4.7 | 2 | 0 | 1 |
| 15 N31 | max 42 | 1 | 806 | 1 | -3.57 | 17 | 0 | 66 |
| 16 N32 | min -194 | 51 | 5.19 | 2 | -6.75 | 51 | 0 | 1 |
| 17 N32 | max -328 | 17 | 6.87 | 1 | -2.57 | 1 | 0 | 66 |
| 18 N33 | min -509 | 1 | 4.42 | 2 | -1.63 | 2 | 0 | 1 |
| 19 N33 | max -161 | 17 | 7.85 | 1 | -3.25 | 17 | 0 | 66 |
| 20 N34 | min -25 | 1 | 5.05 | 2 | -5.08 | 1 | 0 | 1 |
| 21 N34 | max 0 | 51 | 5.91 | 1 | 0.02 | 1 | 0 | 66 |
| 22 N35 | min 0 | 51 | -3.79 | 2 | 0.02 | 2 | 0 | 1 |
| 23 N35 | max 0.03 | 66 | -8 | 66 | 0 | 66 | 0 | 66 |
| 24 N36 | min 0 | 2 | -4.8 | 2 | 0 | 1 | 0 | 1 |
| 25 N36 | max 0 | 17 | -7.26 | 1 | 0 | 17 | 0 | 66 |
| 26 N37 | min -0.01 | 1 | 4.66 | 2 | 0 | 51 | 0 | 1 |
| 27 N37 | max 0 | 17 | -7.5 | 1 | 0 | 66 | 0 | 66 |
| 28 Totals: | max -0.01 | 51 | 48.1 | 2 | 0 | 1 | 0 | 1 |
| 29 | min 0 | 66 | 8.21 | 1 | 0 | 66 | 0 | 66 |
| 30 | min 0 | 1 | 5.278 | 2 | 0 | 1 | 0 | 1 |

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

| Member | Shape | Code Check | Loc... | LC | Shea...Loc...Dir...Cpnt...Phi...Pnt...phi...Min...phi...Min...Ch...Eon | | | | | | | | |
|--------|-------|------------|--------|-----|------------------------------------------------------------------------|-------|-------|---------|---------|-------|---------|---------|------|
| 1 | M23 | L7x3x8 | .746 | 66 | .415 | 0 | Z 168 | 146.262 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 2 | M57A | L7x3x8 | .134 | 689 | 1 | .150 | 1.698 | Z 1 | 146.573 | 153.9 | 4.059 | 22.9891 | H2-1 |
| 3 | M66 | L7x3x8 | .698 | 1 | 1.142 | 1.698 | Z 1 | 146.522 | 153.9 | 4.059 | 22.9891 | H2-1 | |

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

| Member | Shape | Code Check | Loc... | LC | Shea...Loc...Dir...Cpnt...Phi...Pnt...phi...Min...phi...Min...Ch...Eon | | | | | | | | | |
|--------|--------|------------|--------|------|------------------------------------------------------------------------|---------|-------|---------|---------|---------|---------|---------|---------|-------|
| 4 | M24 | L7x3x8 | .116 | 66 | .130 | 1.394 | Z 168 | 146.528 | 153.9 | 4.059 | 22.9891 | H2-1 | | |
| 5 | M19 | L7x3x8 | .109 | 0 | .044 | 1.377 | Z 1 | 146.573 | 153.9 | 4.059 | 22.9891 | H2-1 | | |
| 6 | M19 | L7x3x8 | .107 | 0 | .033 | 1.389 | Z 1 | 146.542 | 153.9 | 4.059 | 22.9891 | H2-1 | | |
| 7 | M60 | L7x3x8 | .092 | 698 | 1 | 1.113 | 1.698 | Z 1 | 146.522 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 8 | M63 | L7x3x8 | .091 | 1397 | 1 | 1.188 | 1.397 | Z 1 | 146.522 | 153.9 | 4.059 | 22.6671 | H2-1 | |
| 9 | M20 | L7x3x8 | .090 | 0 | 1 | 2.46 | 0 | Z 1 | 146.522 | 153.9 | 4.059 | 22.05 | H2-1 | |
| 10 | M21 | L7x3x8 | .088 | 0 | 1 | 0.27 | 1.389 | Z 1 | 146.542 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 11 | M8 | L7x3x8 | .085 | 0 | 1 | .092 | 0 | Z 1 | 146.522 | 153.9 | 4.059 | 22.9892 | H2-1 | |
| 12 | M7 | L7x3x8 | .082 | 689 | 1 | 1.089 | 1.698 | Z 1 | 146.573 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 13 | M18 | L7x3x8 | .082 | 1377 | 1 | 1.108 | 0 | Z 1 | 146.573 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 14 | M67A | L7x3x8 | .078 | 0 | 1 | 0.34 | 1.389 | Z 1 | 146.542 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 15 | M58 | L7x3x8 | .074 | 695 | 1 | 1.015 | 0 | Z 1 | 146.573 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 16 | M64A | L7x3x8 | .063 | 0 | 1 | 0.23 | 1.389 | Z 1 | 146.542 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 17 | M10 | L7x3x8 | .059 | 1762 | 1 | .010 | 1.762 | Z 1 | 145.445 | 153.9 | 4.059 | 22.9892 | H2-1 | |
| 18 | M16 | L7x3x8 | .058 | 1389 | 1 | 1.389 | 0 | Z 1 | 146.542 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 19 | M65 | L7x3x8 | .057 | 1377 | 1 | .081 | 1.377 | Z 1 | 146.573 | 153.9 | 4.059 | 22.9892 | H2-1 | |
| 20 | M65 | L7x3x8 | .057 | 0 | 1 | 0.21 | 1.377 | Z 1 | 146.522 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 21 | M17 | L7x3x8 | .056 | 0 | 1 | .020 | 1.397 | Z 1 | 146.522 | 153.9 | 4.059 | 22.7031 | H2-1 | |
| 22 | M56 | L7x3x8 | .056 | 1397 | 1 | 1.397 | 0 | Z 1 | 146.522 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 23 | M22 | L7x3x8 | .055 | 1299 | 66 | 0.118 | 1.299 | Z 1 | 146.768 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 24 | SF2-TH | C6X8.2 | .052 | 15 | 66 | 113.103 | 10.3 | Y 66 | 11 | 338 | 77.436 | 2.108 | 13.9323 | H1-1b |
| 25 | M59 | L7x3x8 | .050 | 0 | 1 | .046 | 1.377 | Z 1 | 146.573 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 26 | M27 | L7x3x8 | .048 | 1071 | 0 | .011 | 0 | Z 1 | 145.445 | 153.9 | 4.059 | 22.9892 | H2-1 | |
| 27 | M62 | L7x3x8 | .047 | 1071 | 1 | .010 | 0 | Z 1 | 146.542 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 28 | M6 | L7x3x8 | .046 | 0 | 1 | 1.09 | 0 | Z 1 | 146.528 | 153.9 | 4.059 | 22.6641 | H2-1 | |
| 29 | M13 | L7x3x8 | .043 | 1394 | 1 | 1.394 | 0 | Z 1 | 146.528 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 30 | M29 | L7x3x8 | .042 | 0 | 1 | .025 | 1.397 | Z 1 | 146.922 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 31 | M15 | L7x3x8 | .042 | 0 | 1 | .055 | 0 | Z 1 | 146.768 | 153.9 | 4.059 | 22.9491 | H2-1 | |
| 32 | M14 | L7x3x8 | .041 | 404 | 1 | 1.21 | 1.493 | Z 1 | 146.262 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 33 | M28 | L7x3x8 | .040 | 509 | 1 | .012 | 0 | Z 1 | 146.542 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 34 | M11 | L7x3x8 | .040 | 1389 | 1 | 1.389 | 0 | Z 1 | 147.382 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 35 | SF1-BH | C6X8.2 | .037 | 15 | 15 | 1.29 | 8.156 | Y 11 | 11 | 338 | 77.436 | 2.108 | 13.9323 | H1-1b |
| 36 | M12 | L7x3x8 | .033 | 1394 | 1 | .044 | 0 | Z 1 | 146.528 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 37 | M26 | L7x3x8 | .030 | 509 | 1 | 1.60 | 1.017 | Z 1 | 147.382 | 153.9 | 4.059 | 22.9891 | H2-1 | |
| 38 | M25 | L7x3x8 | .029 | 66 | 0 | 1 | .036 | 0 | V 1 | 146.528 | 153.9 | 4.059 | 22.9891 | H2-1 |
| 39 | SF2-BH | C6X8.2 | .024 | 0 | 1 | .011 | 5.156 | Y 11 | 11 | 338 | 77.436 | 2.108 | 13.9322 | H1-1b |
| 40 | SF1-TH | C6X8.2 | .020 | 0 | 1 | .009 | 4.688 | Y 11 | 11 | 338 | 77.436 | 2.108 | 13.9324 | H1-1b |
| 41 | SF2-TH | C6X8.2 | .018 | 66 | 0 | .007 | 10.8 | Y 11 | 11 | 338 | 77.436 | 2.108 | 13.9324 | H1-1b |
| 42 | MP-11 | PIPE 3.5 | .015 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 43 | MP-7 | PIPE 3.5 | .015 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 44 | MP-3 | PIPE 3.5 | .015 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 45 | MP-8 | PIPE 3.5 | .013 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 46 | MP-4 | PIPE 3.5 | .013 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 47 | MP-2 | PIPE 3.5 | .013 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 48 | BP-4 | PL10x12 | .011 | 417 | 1 | .001 | 417 | Z 1 | 145.596 | 162 | 1.688 | 31.139 | H1-1b | |
| 49 | BP-9 | PL10x12 | .009 | 417 | 1 | .001 | 417 | Z 1 | 145.596 | 162 | 1.688 | 31.139 | H1-1b | |
| 50 | BP-10 | PL10x12 | .009 | 417 | 1 | .001 | 417 | Z 1 | 145.596 | 162 | 1.688 | 31.139 | H1-1b | |
| 51 | MP-6 | PIPE 3.5 | .007 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 52 | MP-9 | PIPE 3.5 | .007 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 53 | BP-1 | PIPE 3.5 | .007 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 54 | BP-1 | PIPE 3.5 | .006 | 417 | 1 | .000 | 417 | Z 1 | 145.596 | 162 | 1.688 | 31.139 | H1-1b | |
| 55 | BP-5 | PL10x12 | .006 | 417 | 1 | .000 | 417 | Z 1 | 145.596 | 162 | 1.688 | 31.139 | H1-1b | |
| 56 | BP-2 | PL10x12 | .005 | 417 | 1 | .000 | 417 | Z 1 | 145.596 | 162 | 1.688 | 31.139 | H1-1b | |
| 57 | BP-7 | PIPE 3.5 | .005 | 417 | 1 | .000 | 417 | Z 1 | 145.596 | 162 | 1.688 | 31.139 | H1-1b | |
| 58 | MP-2 | PIPE 3.5 | .005 | 0 | 1 | .000 | 0 | Z 1 | 125.124 | 78.75 | 7.954 | 7.954 | H1-1b | |
| 59 | BP-8 | PL10x12 | .005 | 417 | 1 | .000 | 417 | Z 1 | 145.596 | 162 | 1.688 | 31.139 | H1-1b | |
| 60 | BP-12 | PL10x12 | .005 | 417 | 1 | .000 | 417 | Z 1 | 145.596 | | | | | |



Company : Tower Engineering Professionals
 Designer : NPD
 Job Number : TEP No. 217211.419084
 Model Name : CCI BU No. 800529

June 5, 2020
 1:52 PM
 Checked By: SEB

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

| Member | Shape | Code Check | Loc1... | LC | Shear... | Dir... | CpntPr... | phi | Prt... | Mn... | Mn... | Ch | Eqn | | |
|--------|-------|------------|---------|------|----------|--------|-----------|-----|---------|---------|-------|--------|--------|--------|-------|
| 61 | BP-6 | PL10x1/2 | .417 | 1 | .000 | .417 | z | 1 | 145.596 | 162 | 1.688 | 31.139 | 1 | H1-1b | |
| 62 | BP-13 | PL10x1/2 | .004 | 1 | .000 | .417 | z | 1 | 145.596 | 162 | 1.688 | 31.139 | 1 | H1-1b | |
| 63 | MP-5 | PIPE 3.5 | .004 | 0 | 1 | .000 | 0 | 1 | 25.124 | 78.75 | 7.954 | 7.954 | 1 | H1-1b* | |
| 64 | MP-10 | PIPE 3.5 | .004 | 0 | 1 | .000 | 0 | 1 | 25.124 | 78.75 | 7.954 | 7.954 | 1 | H1-1b* | |
| 65 | MP-13 | PIPE 3.5 | .004 | 0 | 1 | .000 | 0 | 1 | 25.124 | 78.75 | 7.954 | 7.954 | 1 | H1-1b* | |
| 66 | BP-11 | PL10x1/2 | .417 | 1 | .000 | .417 | z | 1 | 145.596 | 162 | 1.688 | 31.139 | 1 | H1-1b | |
| 67 | BP-3 | PL10x1/2 | .004 | .417 | 1 | .000 | .417 | z | 1 | 145.596 | 162 | 1.688 | 31.139 | 1 | H1-1b |

Envelope None Cold Formed Steel Code Checks

Member Shape Code... Loc1... Loc2... Dir... LC... Pnt... Mnyf... Mnz... Cb... Cmy... Cmrzz... Eqn
 No Data to Print ...

Exhibit F

Power Density/RF Emissions Report



SITE SAFE
RF COMPLIANCE EXPERTS

8618 Westwood Center Drive, Suite 315, Vienna, VA 22182
703.276.1100 • 703.276.1169 fax
info@sitesafe.com • www.sitesafe.com

**Crown Castle on behalf of
AT&T Mobility, LLC
Site BU – 800529
Application ID – ATT order 523069
Site Name – CT HAMDEN NORTH CAC
Site Compliance Report**

**890 Evergreen Avenue
Hamden, CT 06518**

Latitude: N41-24-23.90
Longitude: W72-54-16.32
Structure Type: Silo

Report generated date: June 15, 2020
Report by: Zyotty Thamsil
Customer Contact: Anne Marie Zsamba

**AT&T Mobility, LLC is compliant and will remain
compliant upon implementation of the proposed
changes.**

© 2020 Site Safe, LLC, Vienna, VA



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

Signed 15 June 2020

Crown Castle on behalf of AT&T Mobility, LLC CT HAMDEN NORTH CAC - 800529 Radio Frequency (RF) Site Compliance Report



890 Evergreen Avenue, Hamden, CT 06518



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1 Executive Summary

AT&T Mobility, LLC has contracted with Site Safe, LLC (Sitesafe), an independent Radio Frequency (RF) regulatory and engineering consulting firm, to determine whether the proposed communications site, 800529 - CT HAMDEN NORTH CAC, located at 890 Evergreen Avenue, Hamden, CT, is in compliance with the Federal Communication Commission (FCC) Rules and Regulations for RF emissions.

This report contains a detailed summary of the RF environment at the site including:

- Diagram of the site
- Inventory of the make / model of all antennas
- Theoretical MPE based on modeling

This report addresses exposure to radio frequency electromagnetic fields in accordance with the FCC Rules and Regulations for all individuals, classified in two groups, "Occupational or Controlled" and "General Public or Uncontrolled."

AT&T Mobility, LLC is compliant with the FCC Rules and Regulations, as described in OET Bulletin 65, **and will remain compliant upon implementation of the proposed changes.**

AT&T Mobility, LLC proposes to make modifications to an existing site. The proposed antennas are noted as "proposed" in the antenna table under Section 6.

This document and the conclusions herein are based on the information provided by AT&T Mobility, LLC.

If you have any questions regarding RF safety and regulatory compliance, please do not hesitate to contact Sitesafe's Customer Support Department at (703) 276-1100.

2 Regulatory Basis

2.1 FCC Rules and Regulations

In 1996, the Federal Communications Commission (FCC) adopted regulations for evaluating the effects of RF emissions in 47 CFR § 1.1307 and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 ("OET Bulletin 65"), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996, the FCC periodically reviews these rules and regulations as per their congressional mandate.

FCC regulations define two separate tiers of exposure limits: Occupational or "Controlled environment" and General Public or "Uncontrolled environment". The General Public limits are generally five times more conservative or restrictive than the Occupational limit. These limits apply to accessible areas where workers or the general public may be exposed to Radio Frequency (RF) electromagnetic fields.

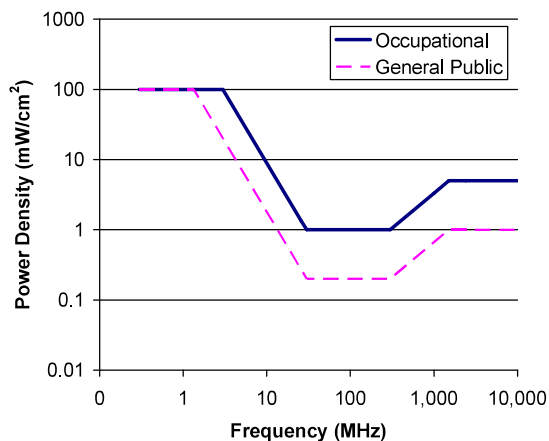
Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (i.e. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF warning signage. A site with Controlled environments is evaluated with Occupational limits.

All other areas are considered Uncontrolled environments. If a site has no access controls or no RF warning signage it is evaluated with General Public limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following diagram:

FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density



Limits for Occupational/Controlled Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f ²)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | -- | -- | f/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |

Limits for General Population/Uncontrolled Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm ²) | Averaging Time E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|-----------------------------------------|-------------------------------------------------------------------|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f ²)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | -- | -- | f/1500 | 30 |
| 1500-100,000 | -- | -- | 1.0 | 30 |

f = frequency in MHz *Plane-wave equivalent power density

2.2 OSHA Statement

The General Duty clause of the OSHA Act (Section 5) outlines the occupational safety and health responsibilities of the employer and employee. The General Duty clause in Section 5 states:

- (a) Each employer –
 - (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
 - (2) shall comply with occupational safety and health standards promulgated under this Act.

- (b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA has defined Radiofrequency and Microwave Radiation safety standards for workers who may enter hazardous RF areas. Regulation Standards 29 CFR § 1910.147 identify a generic lockout/tagout procedure aimed to control the unexpected energization or startup of machines when maintenance or service is being performed.

3 Site Compliance

3.1 Site Compliance Statement

Upon evaluation of the cumulative RF emission levels from all operators at this site, Sitesafe has determined that:

AT&T Mobility, LLC is compliant with the FCC Rules and Regulations, as described in OET Bulletin 65, **and will remain compliant upon implementation of the proposed changes.**

The compliance determination is based on theoretical modeling, RF signage placement recommendations, proposed antenna inventory and the level of restricted access to the antennas at the site. Any deviation from the proposed AT&T Mobility, LLC deployment plan could result in the site being rendered non-compliant.

3.2 Actions for Site Compliance

Based on common industry practice and our understanding of FCC and OSHA requirements, this section provides a statement of recommendations for site compliance. No additional RF alert signage recommendations have been proposed based on theoretical analysis of MPE levels. Where applicable, barriers can consist of locked doors, fencing, railing, rope, chain, paint striping or tape, combined with RF alert signage.

AT&T Mobility, LLC is compliant with the FCC Rules and Regulations, **and will remain compliant upon implementation of the proposed changes.**

Note: Ensure all existing signage and barriers documented in this report still exist on site unless otherwise indicated.

4 Safety Plan and Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.

Training and Qualification Verification: All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a worker's understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet-based courses).

Physical Access Control: Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:

- Locked door or gate
- Alarmed door
- Locked ladder access
- Restrictive Barrier at antenna (e.g. Chain link with posted RF Sign)

RF Signage: Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.

Assume all antennas are active: Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.

Maintain a 3-foot clearance from all antennas: There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The farther away from an antenna, the lower the corresponding EME field is.

Site RF Emissions Diagram(s): Section 5 of this report contains RF Diagram(s) that outline various theoretical Maximum Permissible Exposure (MPE) areas at the site. The modeling is a worst-case scenario assuming a duty cycle of 100% for each transmitting antenna at full power. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.

5 Analysis

5.1 RF Emissions Diagram

The RF diagram(s) below display theoretical spatially averaged percentage of the Maximum Permissible Exposure for all systems at the site unless otherwise noted. These diagrams use modeling as prescribed in OET Bulletin 65 and assumptions detailed in Appendix B.

The key at the bottom of each diagram indicates if percentages displayed are referenced to FCC **General Public** Maximum Permissible Exposure (MPE) limits. Color coding on the diagram is as follows:

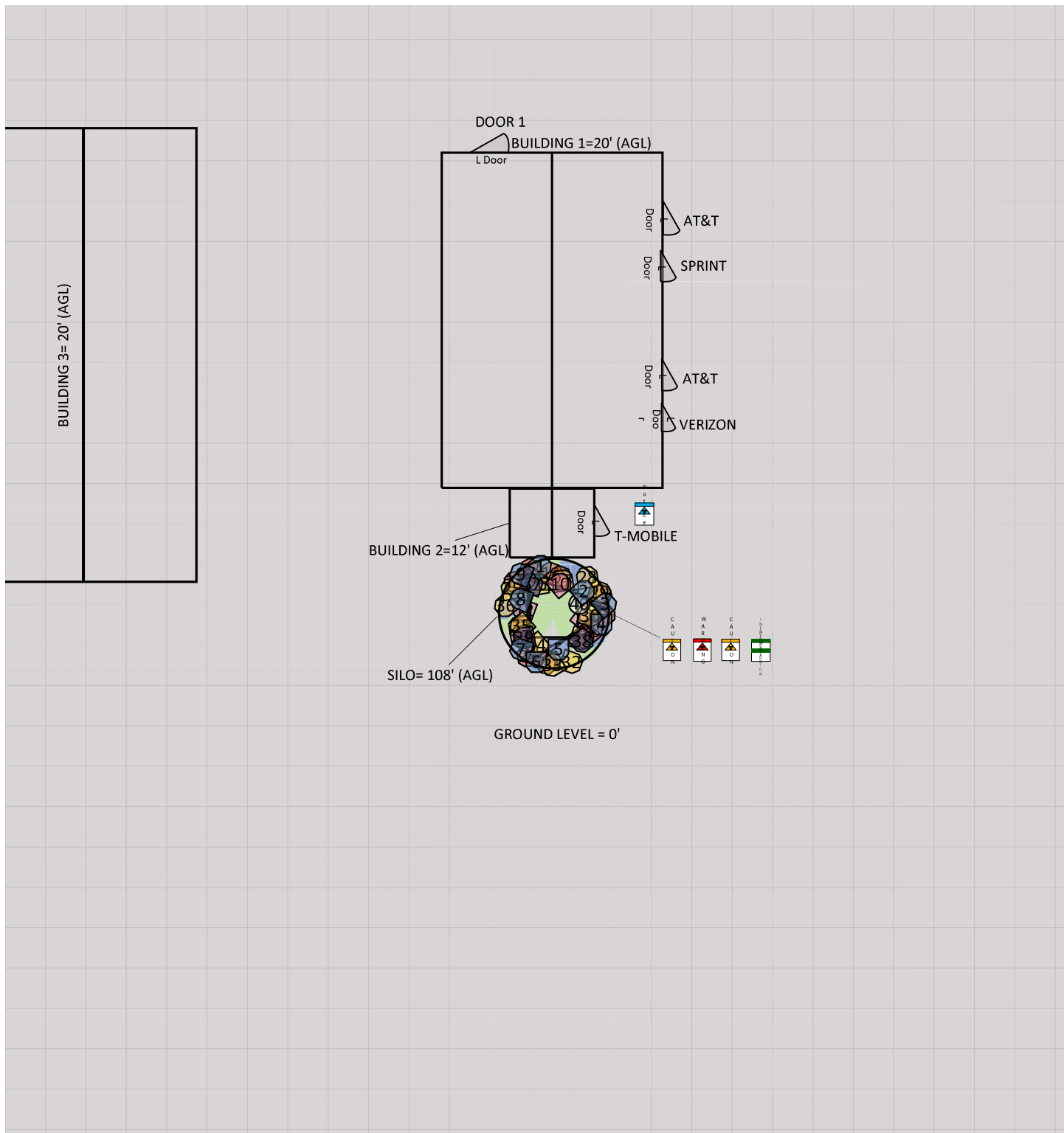


This table displays the maximum theoretical percentage of the FCC's General Public MPE limits:

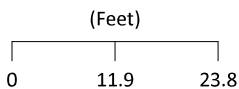
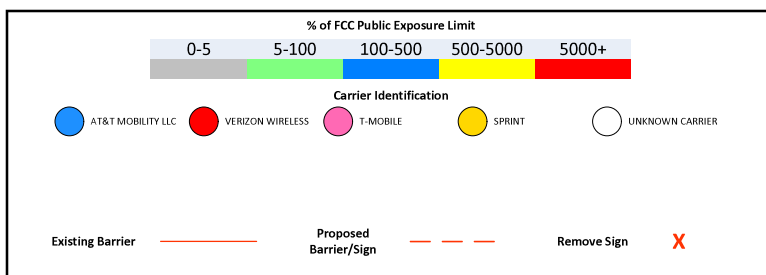
| | General Public Levels: | |
|--------------------------------|-------------------------------|------------------------|
| Exposure Type: | Spatial Average | Spatial Average |
| Reference Level: | Silo Top | Ground |
| AT&T Mobility, LLC: | <1% | <1% |
| Composite: | 361.9% | <1% |

Note: On the diagrams shown below, each level is marked with a height. For all diagrams that are marked as *Spatial Average 0' – 6'*, the modeling program will spatially average the emissions within the area six feet above each set level. This provides an accurate spatial average of the percentage of the FCC's MPE limits within an accessible area.

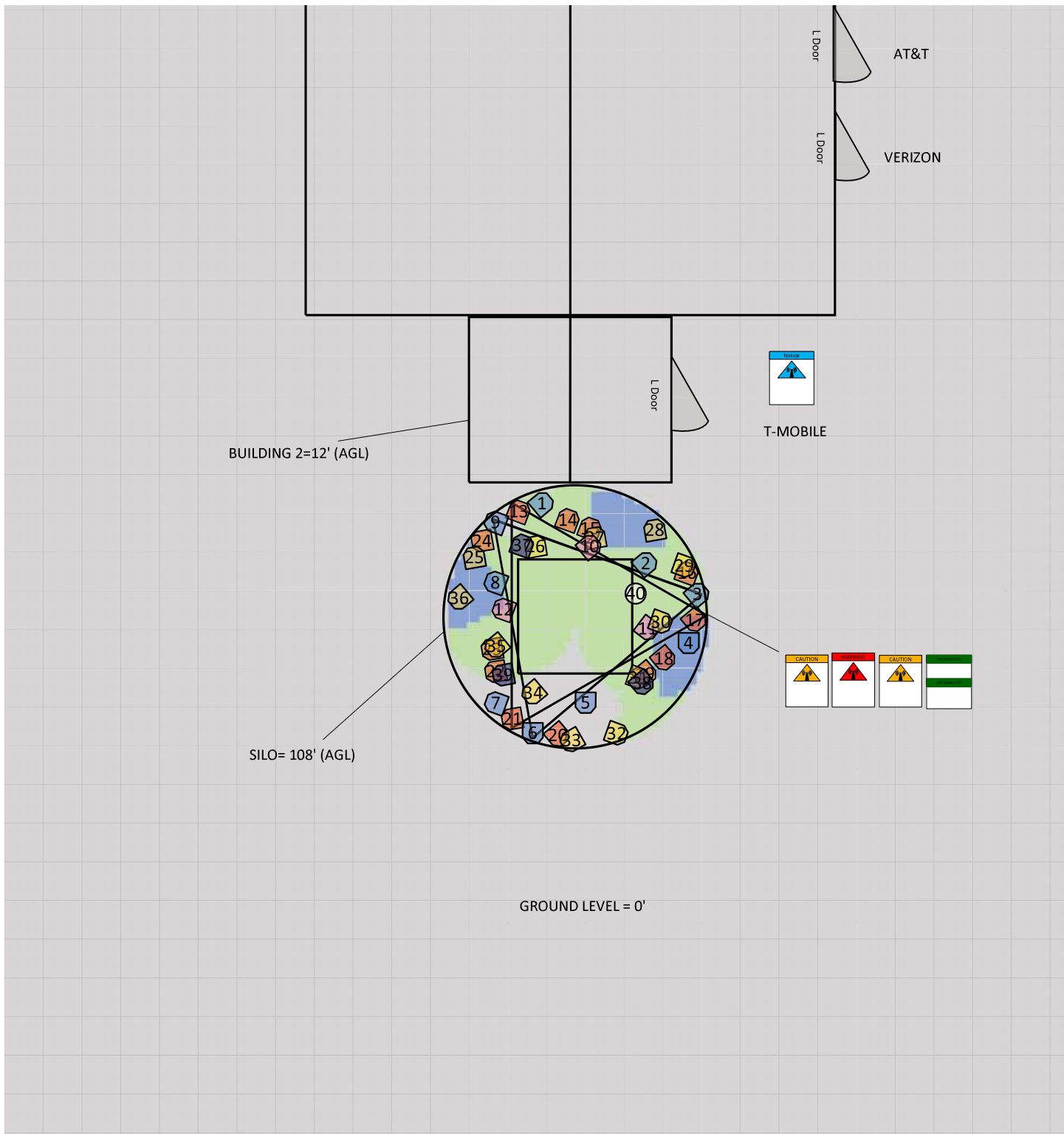
RF Exposure Simulation For: CT HAMDEN NORTH CAC Composite Diagram



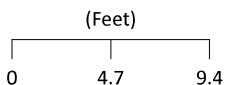
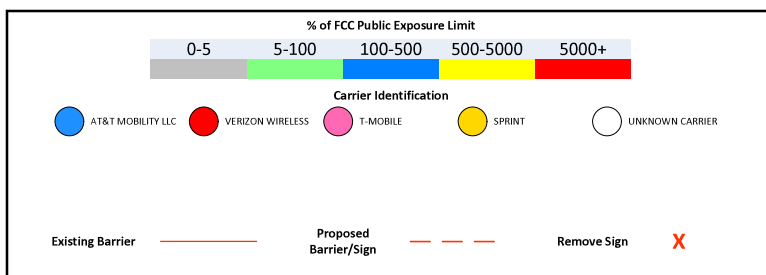
% of FCC Public Exposure Limit
Spatial Average 0' - 6'



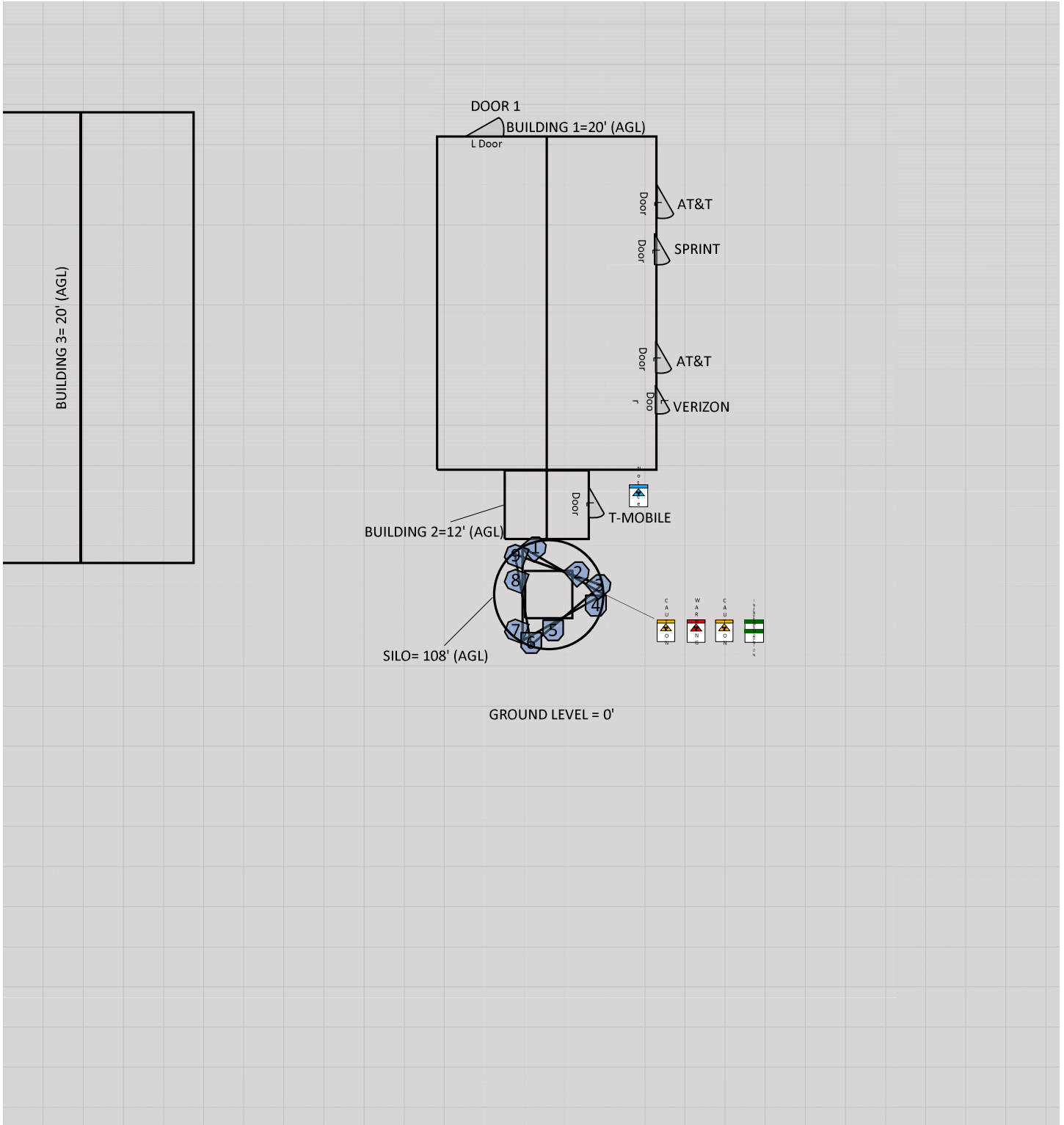
RF Exposure Simulation For: CT HAMDEN NORTH CAC All Sector Detailed View



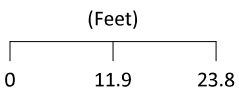
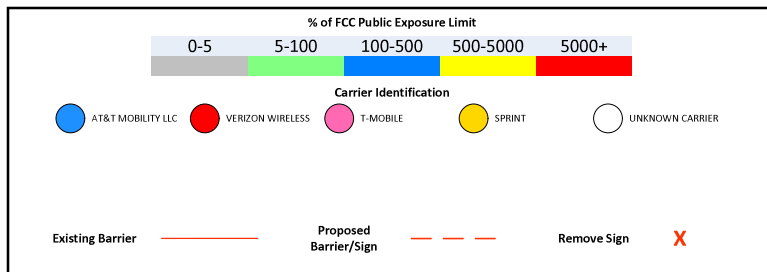
% of FCC Public Exposure Limit
Spatial Average 0' - 6'



RF Exposure Simulation For: CT HAMDEN NORTH CAC AT&T Mobility, LLC Contribution



% of FCC Public Exposure Limit
Spatial Average 0' - 6'



6 Antenna Inventory

The Antenna Inventory shows all transmitting antennas at the site. This inventory was provided by the customer and was utilized by Sitesafe to perform theoretical modeling of RF emissions. The inventory coincides with the site diagrams in this report, identifying each antenna's location at 800529 - CT HAMDEN NORTH CAC. The antenna information collected includes the following information:

- Licensee or wireless operator name
- Frequency or frequency band
- Transmitter power – Transmitter Power Output ("TPO"), Effective Radiated Power ("ERP"), or Equivalent Isotropic Radiated Power ("EIRP")
- Antenna manufacturer make, model, and gain

For other carriers at this site, equipment, antenna models and nominal transmit power were used for modeling, based on past experience with radio service providers or provided data.



The following antenna inventory was provided by the customer and was utilized to create the site model diagrams:

| Antenna Inventory | | | | | | | | | | | | | | | | | |
|-------------------|------------------------------|------------------------------|----------|----------|---------------|------|----------|--------------------|--------------------------------|-------|------------|-------------|------------|-------------|-------------|-----|-----|
| Ant # | Operator | Antenna Make and Model | Ant Type | Len (ft) | TX Freq (MHz) | Tech | Az (Deg) | Antenna Gain (dBd) | Horizontal Half Power BW (Deg) | Power | Power Type | Power Units | # of Trans | ERP (Watts) | Z(ft) (AGL) | MDT | EDT |
| 1 | AT&T MOBILITY LLC (PROPOSED) | CCI Antennas HPA-65R-BUU-H16 | Panel | 6 | 1900 | LTE | 60 | 14.53 | 61.1 | 160 | TPO | Watt | 1 | 4540.7 | 85 | 0 | 0 |
| 2 | AT&T MOBILITY LLC (PROPOSED) | CCI Antennas OPA 65R-BU6B | Panel | 5.9 | 2300 | LTE | 60 | 15.16 | 61 | 100 | TPO | Watt | 1 | 3281 | 85 | 0 | 0 |
| 3 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 737 | LTE | 60 | 11.76 | 65.7 | 160 | TPO | Watt | 1 | 2399.5 | 85 | 0 | 0 |
| 3 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 850 | LTE | 60 | 11.46 | 70.9 | 160 | TPO | Watt | 1 | 2239.3 | 85 | 0 | 0 |
| 3 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 2100 | LTE | 60 | 14.76 | 68 | 240 | TPO | Watt | 1 | 7181.4 | 85 | 0 | 0 |
| 4 | AT&T MOBILITY LLC (PROPOSED) | CCI Antennas HPA-65R-BUU-H16 | Panel | 6 | 1900 | LTE | 190 | 14.53 | 61.1 | 160 | TPO | Watt | 1 | 4540.7 | 85 | 0 | 0 |
| 5 | AT&T MOBILITY LLC (PROPOSED) | CCI Antennas OPA 65R-BU6B | Panel | 5.9 | 2300 | LTE | 190 | 15.16 | 61 | 100 | TPO | Watt | 1 | 3281 | 85 | 0 | 0 |
| 6 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 737 | LTE | 190 | 11.76 | 65.7 | 160 | TPO | Watt | 1 | 2399.5 | 85 | 0 | 0 |
| 6 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 850 | LTE | 190 | 11.46 | 70.9 | 160 | TPO | Watt | 1 | 2239.3 | 85 | 0 | 0 |
| 6 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 21100 | LTE | 190 | 14.76 | 68 | 240 | TPO | Watt | 1 | 7181.4 | 85 | 0 | 0 |
| 7 | AT&T MOBILITY LLC (PROPOSED) | CCI Antennas HPA-65R-BUU-H16 | Panel | 6 | 1900 | LTE | 300 | 14.53 | 61.1 | 160 | TPO | Watt | 1 | 4540.7 | 85 | 0 | 0 |
| 8 | AT&T MOBILITY LLC (PROPOSED) | CCI Antennas OPA 65R-BU6B | Panel | 5.9 | 2300 | LTE | 300 | 15.16 | 61 | 100 | TPO | Watt | 1 | 3281 | 85 | 0 | 0 |
| 9 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 737 | LTE | 300 | 11.76 | 65.7 | 160 | TPO | Watt | 1 | 2399.5 | 85 | 0 | 0 |
| 9 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 850 | LTE | 300 | 11.46 | 70.9 | 160 | TPO | Watt | 1 | 2239.3 | 85 | 0 | 0 |
| 9 | AT&T MOBILITY LLC (PROPOSED) | Cci DMP65R-BU6D | Panel | 5.9 | 2100 | LTE | 300 | 14.76 | 68 | 240 | TPO | Watt | 1 | 7181.4 | 85 | 0 | 0 |



Antenna Inventory

| Ant # | Operator | Antenna Make and Model | Ant Type | Len (ft) | TX Freq (MHz) | Tech | Az (Deg) | Antenna Gain (dBd) | Horizontal Half Power BW (Deg) | Power | Power Type | Power Units | # of Trans | ERP (Watts) | Z(ft) (AGL) | MDT | EDT |
|-------|-------------------------|------------------------|----------|----------|---------------|------|----------|--------------------|--------------------------------|-------|------------|-------------|------------|-------------|-------------|-----|-----|
| 10 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 700 | | 60 | 11.29 | 66 | 160 | TPO | Watt | 1 | 2153.4 | 104 | 0 | 0 |
| 10 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 1900 | | 60 | 14.65 | 65 | 160 | TPO | Watt | 1 | 4667.9 | 104 | 0 | 0 |
| 10 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 2100 | | 60 | 14.6 | 62 | 160 | TPO | Watt | 1 | 4614.5 | 104 | 0 | 0 |
| 11 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 700 | | 137 | 11.29 | 66 | 160 | TPO | Watt | 1 | 2153.4 | 104 | 0 | 0 |
| 11 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 1900 | | 137 | 14.65 | 65 | 160 | TPO | Watt | 1 | 4667.9 | 104 | 0 | 0 |
| 11 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 2100 | | 137 | 14.6 | 62 | 160 | TPO | Watt | 1 | 4614.5 | 104 | 0 | 0 |
| 12 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 700 | | 300 | 11.29 | 66 | 160 | TPO | Watt | 1 | 2153.4 | 104 | 0 | 0 |
| 12 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 1900 | | 300 | 14.65 | 65 | 160 | TPO | Watt | 1 | 4667.9 | 104 | 0 | 0 |
| 12 | T-MOBILE | Andrew SBNHH-ID65A | Panel | 4.6 | 2100 | | 300 | 14.6 | 62 | 160 | TPO | Watt | 1 | 4614.5 | 104 | 0 | 0 |
| 13 | VERIZON WIRELESS | Antel BXA-80080-4CF | Panel | 4 | 850 | | 30 | 12.01 | 80 | 160 | TPO | Watt | 1 | 2541.7 | 98 | 0 | 0 |
| 14 | VERIZON WIRELESS | Commscope JAHH-65B-R3B | Panel | 6 | 1900 | | 30 | 15.66 | 63 | 120 | TPO | Watt | 1 | 4417.5 | 98 | 0 | 0 |
| 15 | VERIZON WIRELESS | Commscope JAHH-65B-R3B | Panel | 6 | 2100 | | 30 | 15.79 | 65 | 180 | TPO | Watt | 1 | 6827.7 | 98 | 0 | 0 |
| 16 | VERIZON WIRELESS | Antel BXA-70063-6CF | Panel | 5.9 | 751 | | 30 | 14.01 | 65 | 160 | TPO | Watt | 1 | 4028.3 | 98 | 0 | 0 |
| 17 | VERIZON WIRELESS | Antel BXA-80080-4CF | Panel | 4 | 850 | | 150 | 12.01 | 80 | 160 | TPO | Watt | 1 | 2541.7 | 98 | 0 | 0 |
| 18 | VERIZON WIRELESS | Commscope JAHH-65B-R3B | Panel | 6 | 1900 | | 150 | 15.66 | 63 | 120 | TPO | Watt | 1 | 4417.5 | 98 | 0 | 0 |
| 19 | VERIZON WIRELESS | Commscope JAHH-65B-R3B | Panel | 6 | 2100 | | 150 | 15.79 | 65 | 180 | TPO | Watt | 1 | 6827.7 | 98 | 0 | 0 |
| 20 | VERIZON WIRELESS | Antel BXA-70063-6CF | Panel | 5.9 | 751 | | 150 | 14.01 | 65 | 160 | TPO | Watt | 1 | 4028.3 | 98 | 0 | 0 |
| 21 | VERIZON WIRELESS | Antel BXA-80080-4CF | Panel | 4 | 850 | | 270 | 12.01 | 80 | 160 | TPO | Watt | 1 | 2541.7 | 98 | 0 | 0 |
| 22 | VERIZON WIRELESS | Commscope JAHH-65B-R3B | Panel | 6 | 1900 | | 270 | 15.66 | 63 | 120 | TPO | Watt | 1 | 4417.5 | 98 | 0 | 0 |
| 23 | VERIZON WIRELESS | Commscope JAHH-65B-R3B | Panel | 6 | 2100 | | 270 | 15.79 | 65 | 180 | TPO | Watt | 1 | 6827.7 | 98 | 0 | 0 |
| 24 | VERIZON WIRELESS | Antel BXA-70063-6CF | Panel | 5.9 | 751 | | 270 | 14.01 | 65 | 160 | TPO | Watt | 1 | 4028.3 | 98 | 0 | 0 |
| 25 | SPRINT | Antel A-18A24E-x | Panel | 2.2 | 1900 | | 0 | 17.9 | 14.2 | 20 | TPO | Watt | 1 | 1233.2 | 75 | 0 | 0 |
| 26 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 0 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |



Antenna Inventory

| Ant # | Operator | Antenna Make and Model | Ant Type | Len (ft) | TX Freq (MHz) | Tech | Az (Deg) | Antenna Gain (dBd) | Horizontal Half Power BW (Deg) | Power | Power Type | Power Units | # of Trans | ERP (Watts) | Z(ft) (AGL) | MDT | EDT |
|-------|---------------------------|------------------------|----------|----------|---------------|------|----------|--------------------|--------------------------------|-------|------------|-------------|------------|-------------|-------------|-----|-----|
| 27 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 0 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 28 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 0 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 29 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 120 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 30 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 120 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 31 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 120 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 32 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 120 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 33 | SPRINT | Antel A-18A24E-x | Panel | 2.2 | 1900 | | 250 | 17.9 | 14.2 | 20 | TPO | Watt | 1 | 1233.2 | 75 | 0 | 0 |
| 34 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 240 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 35 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 240 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 36 | SPRINT (DECOMMISSIONED) | Andrew DB844H90E-XY | Panel | 4 | 862 | | 240 | 12.01 | 90 | 0 | TPO | Watt | 0 | 0 | 75 | 0 | 0 |
| 37 | METROPCS (DECOMMISSIONED) | Kathrein-Scala 742-213 | Panel | 6.4 | 1900 | | 30 | 17.07 | 65.3 | 0 | TPO | Watt | 0 | 0 | 65 | 0 | 0 |
| 38 | METROPCS (DECOMMISSIONED) | Kathrein-Scala 742-213 | Panel | 6.4 | 1900 | | 150 | 17.07 | 65.3 | 0 | TPO | Watt | 0 | 0 | 65 | 0 | 0 |
| 39 | METROPCS (DECOMMISSIONED) | Kathrein-Scala 742-213 | Panel | 6.4 | 1900 | | 270 | 17.07 | 65.3 | 0 | TPO | Watt | 0 | 0 | 65 | 0 | 0 |
| 40 | UNKNOWN CARRIER | Andrew DB806 | Omni | 8 | 850 | | 0 | 6.01 | 360 | 100 | ERP | Watt | 1 | 100 | 104 | 0 | 0 |

Note: The Z reference indicates antenna height **above ground level (AGL)**. ERP values provided by the client and used in the modeling may be greater than are currently deployed. For additional modeling information, refer to Appendix B. Proposed equipment is tagged as (Proposed) under Operator or Antenna-Make and Model.



7 Engineer Certification

The professional engineer whose seal appears on the cover of this document hereby certifies and affirms:

That I am registered as a Professional Engineer in the jurisdiction indicated in the professional engineering stamp on the cover of this document; and

That I am an employee of Site Safe, LLC, in Vienna, Virginia, at which place the staff and I provide RF compliance services to clients in the wireless communications industry; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specifically as they apply to the FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Zyotty Thamsil.

June 15, 2020



Appendix A – Statement of Limiting Conditions

Sitesafe will not be responsible for matters of a legal nature that affect the site or property.

Due to the complexity of some wireless sites, Sitesafe performed this analysis and created this report utilizing best industry practices and due diligence. Sitesafe cannot be held accountable or responsible for anomalies or discrepancies due to actual site conditions (i.e. mislabeling of antennas or equipment, inaccessible cable runs, inaccessible antennas or equipment, etc.) or information or data supplied by AT&T Mobility, LLC, the site manager, or their affiliates, subcontractors or assigns.

Sitesafe has provided computer generated model(s) in this Site Compliance Report to show approximate dimensions of the site, and the model is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for Sitesafe's recommendations.

Sitesafe may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, observed during the survey of the subject property or that Sitesafe became aware of during the normal research involved in performing this survey. Sitesafe will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because Sitesafe is not an expert in the field of mechanical engineering or building maintenance, the Site Compliance Report must not be considered a structural or physical engineering report.

Sitesafe obtained information used in this Site Compliance Report from sources that Sitesafe considers reliable and believes them to be true and correct. Sitesafe does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data provided by a second party and physical data collected by Sitesafe, the physical data will be used.



Appendix B – Assumptions and Definitions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at **full power at all times**. Software modeling was performed for all transmitting antennas located on the site. Sitesafe has further assumed a 100% duty cycle and maximum radiated power.

The site has been modeled with these assumptions to show the maximum RF energy density. Sitesafe believes this to be a *worst-case* analysis, based on best available data. Areas modeled to predict emissions greater than 100% of the applicable MPE level may not actually occur but are shown as a *worst-case* prediction that could be realized real time. Sitesafe believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor).

Thus, at any time, if power density measurements were made, we believe the real-time measurements would indicate levels below those depicted in the RF emission diagram(s) in this report. By modeling in this way, Sitesafe has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.

Definitions

5% Rule – The rules adopted by the FCC specify that, in general, at multiple transmitter sites actions necessary to bring the area into compliance with the guidelines are the shared responsibility of all licensees whose transmitters produce field strengths or power density levels at the area in question in excess of 5% of the exposure limits. In other words, any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible for taking corrective actions to bring the site into compliance.

Compliance – The determination of whether a site complies with FCC standards with regards to Human Exposure to Radio Frequency Electromagnetic Fields from transmitting antennas.

Decibel (dB) – A unit for measuring power or strength of a signal.

Duty Cycle – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 100% corresponds to continuous operation.

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

Effective Radiated Power (ERP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to a half-wave dipole antenna.

Gain (of an antenna) – The ratio, usually expressed in decibels, of the power required at the input of a loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power density at the same distance. When not specified otherwise, the gain refers to the direction of maximum radiation. Gain may be considered for a specified polarization. Gain may be referenced to an isotropic antenna (dBi) or a half-wave dipole (dBd) antenna.

General Population/Uncontrolled Environment – Defined by the FCC as an area where RF exposure may occur to persons who are *unaware* of the potential for exposure and who have no control over their exposure. General Population is also referenced as General Public.

Generic Antenna – For the purposes of this report, the use of "Generic" as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, Sitesafe will use its industry specific knowledge of antenna models to select a worst-case scenario antenna to model the site.

Isotropic Antenna – An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.



Maximum Measurement – This measurement represents the single largest measurement recorded when performing a spatial average measurement.

Maximum Permissible Exposure (MPE) – The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.

Occupational/Controlled Environment – Defined by the FCC as an area where RF exposure may occur to persons who are **aware** of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.

OET Bulletin 65 – Technical guideline developed by the FCC's Office of Engineering and Technology to determine the impact of RF exposure on humans. The guideline was published in August 1997.

OSHA (Occupational Safety and Health Administration) – Under the Occupational Safety and Health Act of 1970, employers are responsible for providing a safe and healthy workplace for their employees. OSHA's role is to promote the safety and health of America's working men and women by setting and enforcing standards; providing training, outreach and education; establishing partnerships; and encouraging continual process improvement in workplace safety and health. For more information, visit www.osha.gov.

Radio Frequency Exposure or Electromagnetic Fields – Electromagnetic waves that are propagated from antennas through space.

Spatial Average Measurement – A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy a 6-foot tall human body will absorb while present in an electromagnetic field of energy.

Transmitter Power Output (TPO) – The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load.

Appendix C – Rules & Regulations

Explanation of Applicable Rules and Regulations

The FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Specific regulations regarding this topic are listed in Part 1, Subpart I, of Title 47 in the Code of Federal Regulations. Currently, there are two different levels of MPE - General Public MPE and Occupational MPE. An individual classified as Occupational can be defined as an individual who has received appropriate RF training and meets the conditions outlined below. General Public is defined as anyone who does not meet the conditions of being Occupational. FCC and OSHA Rules and Regulations define compliance in terms of total exposure to total RF energy, regardless of location of or proximity to the sources of energy.

It is the responsibility of all licensees to ensure these guidelines are maintained at all times. It is the ongoing responsibility of all licensees composing the site to maintain ongoing compliance with the FCC Rules and Regulations. Individual licensees that contribute less than 5% MPE to any total area out of compliance are not responsible for corrective actions.

OSHA has adopted and enforces the FCC's exposure guidelines. A building owner or site manager can use this report as part of an overall RF Health and Safety Policy. It is important for building owners/site managers to identify areas in excess of the General Population MPE and ensure that only persons qualified as Occupational are granted access to those areas.

Occupational Environment Explained

The FCC definition of Occupational exposure limits apply to persons who:

- are exposed to RF energy as a consequence of their employment;
- have been made aware of the possibility of exposure; and
- can exercise control over their exposure.

OSHA guidelines go further to state that persons must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General Public. Compliance is also maintained when any non-occupational individuals (the General Public) are prevented from accessing areas indicated as Red or Yellow in the attached RF Emissions diagram. In addition, a person must be aware of the RF environment into which they are entering. This can be accomplished by an RF Safety Awareness class, and by appropriate written documentation such as this Site Compliance Report.

All AT&T Mobility, LLC employees who require access to this site must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

Appendix D – General Safety Recommendations

The following are *general recommendations* appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

1. All individuals needing access to the main site (or the area indicated to be in excess of General Public MPE) should wear a personal protective monitor (PPM), successfully complete proper RF Safety Awareness training, and have and be trained in the use of appropriate personal protective equipment.

2. All individuals needing access to the main site should be instructed to read and obey all posted placards and signs.

3. The site should be routinely inspected and this or similar report updated with the addition of any antennas or upon any changes to the RF environment including:

- adding new antennas that may have been located on the site
- removing of any existing antennas
- changes in the radiating power or number of RF emitters

4. Post the appropriate **NOTICE**, **CAUTION**, or **WARNING** sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure Diagrams in Section 5.1 to inform everyone who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC. In addition to RF Advisory Signage, a RF Guideline Signage is recommended to be posted at the main site access point(s). The signs below are examples of signs meeting FCC guidelines.



5. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general public if deemed as policy by the building/site owner.

6. For a General Public environment the five color levels identified in this analysis can be interpreted in the following manner:

- Gray represents areas predicted to be at 5% or less of the General Public MPE limits. *The General Public can access these areas with no restrictions.*



- Green represents areas predicted to be between 5% and 100% of the General Public MPE limits. *The General Public can access these areas with no restrictions.*
- Blue represents areas predicted to be between 100% and 500% of the General Public MPE limits. *The General Public should be restricted from accessing these areas.*
- Yellow represents areas predicted to be between 500% and 5000% of the General Public MPE limits. *The General Public should be restricted from accessing these areas.*
- Red represents areas predicted to be greater than 5000% of the General Public MPE limits. *The General Public should be restricted from accessing these areas.*

7. For an Occupational environment the five color levels identified in this analysis can be interpreted in the following manner:

- Gray represents areas predicted to be at 1% or less of the Occupational MPE limits. *Workers can access these areas with no restrictions.*
- Green represents areas predicted to be between 1% and 20% of the Occupational MPE limits. *Workers can access these areas with no restrictions.*
- Blue represents areas predicted to be between 20% and 100% of the Occupational MPE limits. *Workers can access these areas assuming they have basic understanding of EME awareness and RF safety procedures and understand how to limit their exposure.*
- Yellow represents areas predicted to be between 100% and 1000% of the Occupational MPE limits. *Workers can access these areas assuming they have basic understanding of EME awareness and RF safety procedures and understand how to limit their exposure. Transmitter power reduction and/or time-averaging may be required.*
- Red represents areas predicted to be greater than 1000% of the Occupational MPE limits. *These areas are not safe for workers to be in for prolonged periods of time. Special procedures must be adhered to, such as lockout/tagout or transmitter power reduction, to minimize worker exposure to EME.*

8. Use of a Personal Protective Monitor (PPM): When working around antennas, Sitesafe strongly recommends the use of a PPM. Wearing a PPM will properly forewarn the individual prior to entering an RF exposure area.

Keep a copy of this report available for all persons who must access the site. They should read this report and be aware of the potential hazards with regards to RF and MPE limits.

Additional Information

Additional RF information is available at the following sites:

<https://www.fcc.gov/general/radio-frequency-safety-0>

<https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>

OSHA has additional information available at:

<https://www.osha.gov/SLTC/radiofrequencyradiation/index.html>