



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

December 28, 2020

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

RE: Notice of Exempt Modification for AT&T - 806382
74 Goodrich Lane, Portland, CT 06480
Latitude: 41° 36' 29.90" / Longitude: -72° 35' 29.56"

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 118-foot mount on the existing 160-foot Monopole Tower, located at 74 Goodrich Lane, Portland, CT. The tower and property are owned by Crown Castle. AT&T now intends to remove and replace six (6) existing antennas with six (6) new antennas. The new antennas will be installed at the 118-ft level of the tower. AT&T is also proposes tower mount modifications as shown on the enclosed Mount Analysis. This modification/proposal includes B2, B5, and B12 hardware that is both 4G(LTE) and 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

The facility was approved by the Connecticut Siting Council in Docket No. 58 on July 11, 1986. The approval was given with conditions which this exempt modification follows.

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 The Honorable Susan Bransfield, First Selectwoman for the Town of Portland, John Herring, Zoning Enforcement Officer, Mr. and Crown Castle is the tower and property owner.

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

The Foundation for a Wireless World.

CrownCastle.com

Melanie A. Bachman

Page 2

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

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

Sincerely,

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

Attachments

cc:

The Honorable Susan Bransfield, First Selectwoman (*via email only to sbransfield@portlandct.org*)
First Selectwoman's Office
33 East Main Street, 2nd Floor
Portland, CT 06480
860-342-6715

John Herring, Zoning Enforcement Officer (*via email only to zeo@portlandct.org*)
Land Use Office
33 East Main Street, 1st Floor
Portland, CT 06480
860-342-6719

Crown Castle, Tower & Property Owner

From: [Zsamba, Anne Marie](#)
To: zeo@portlandct.org
Subject: Notice of Exempt Modification - AT&T - 74 Goodrich Lane, Portland - 806382
Date: Monday, December 28, 2020 11:27:00 AM
Attachments: [EM-AT&T-74 GOODRICH LN PORTLAND-806382-NOTICE.pdf](#)

Dear ZEO Herring:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, December 28, 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: ["sbransfield@portlandct.org"](mailto:sbransfield@portlandct.org)
Subject: Notice of Exempt Modification - AT&T - 74 Goodrich Lane, Portland - 806382
Date: Monday, December 28, 2020 11:25:00 AM
Attachments: [EM-AT&T-74 GOODRICH LN PORTLAND-806382-NOTICE.pdf](#)

Dear First Selectwoman Bransfield:

Attached please find AT&T's exempt modification application that is being submitted to the Connecticut Siting Council today, December 28, 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

DOCKET NO. 58

AN APPLICATION OF HARTFORD CELLULAR
COPANY FOR A CERTIFICATE OF
ENVIRONMENTAL COMPATIBILITY AND PUBLIC
NEED FOR THE CONSTRUCTION, MAINTENANCE,
AND OPERATION OF FACILITIES TO PROVIDE
CELLULAR SERVICE IN HARTFORD, TOLLAND AND
MIDDLESEX COUNTIES.

CONNECTICUT SITING

COUNCIL

July 11, 1986.

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

Pursuant to the foregoing opinion, the Connecticut Siting Council (Council) hereby directs that a Certificate of Environmental Compatibility and Public Need as provided by Section 16-50k of the General Statutes of Connecticut (CGS) be issued to the Hartford Cellular Company for the construction, maintenance, and operation of cellular mobile phone telecommunication towers and associated equipment in the towns of Glastonbury, Haddam, Hartford, Portland, Rocky Hill, Somers, Vernon, Windsor, and Willington subject to the conditions below.

- 1) The proposed Bloomfield and Middlefield sites are rejected without prejudice.
- 2) The antennas on the Glastonbury tower shall be mounted no higher than the 180' level of this existing tower.
- 3) The Portland and Rocky Hill towers shall be monopoles.
- 4) The towers shall be no taller than necessary to provide the proposed service, and in no event shall exceed total heights, including antennas, of
 - a) 193' at the Haddam site;
 - b) 173' at the Portland site;

- c) 153' at the Rocky Hill site;
- d) 173' at the Somers site;
- e) 173' at the Vernon site;
- f) 153' at the Willington site;
- g) 173' at the Windsor site.

5) The Hartford site receive antennas shall be mounted below the top of the high point of the building to preclude visibility.

6) Any future actions requiring the removal of the existing Glastonbury tower to be shared by the certificate holder shall also apply to the equipment mounted on that tower by the certificate holder, regardless of that equipment's status under Chapter 277a of the CGS.

7) The certificate holder shall submit a development and management (D&M) plan for the Haddam, Portland, Rocky Hill, Somers, Vernon and Windsor sites pursuant to Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA), except that irrelevant items in Section 16-50j-76 need only be identified as such. In addition to the requirements of Section 16-50j-76, the D&M plan shall provide plans for evergreen screening around the fenced perimeter at the Haddam, Somers, Vernon, and Windsor sites. The D&M plan shall include a proposal for painting the approved monopole structures to blend with the sky. The D&M plan must be approved prior to facility construction. Any changes to specifications in the D&M plan must be approved by the Council prior to facility operation.

8) All certified facilities shall be constructed, operated, and maintained as specified in the Council's record and in the

site plan required by order number 7.

9) The certificate holder shall comply with any future radiofrequency (RF) standards promulgated by state or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facilities granted in this decision shall continue to be in compliance with such standards.

10) The certificate holder shall permit public or private entities to share space on the towers approved herein, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with Section 16-50j-73 of the RSA, the certificate holder shall notify the Council of the addition of any equipment to any approved tower.

11) A fence not lower than 8' shall surround each tower and associated equipment.

12) Unless necessary to comply with order 13, no lights shall be installed on any of these towers.

13) The facilities' construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to jurisdiction pursuant to Section 16-50k of the CGS shall be subject to all applicable federal, state, and municipal laws and regulations.

14) Construction activities shall take place during daylight working hours.

15) This decision and order shall be void and the towers and associate equipment shall be dismantled and removed, or reapplication for any new use shall be made to the Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction.

16) This decision and order shall be void if all construction authorized herein is not completed within three years of the issuance of this decision, or within three years of the completion of any appeal if appeal of this decision is taken, unless otherwise approved by the Council.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of the decision and order shall be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, Middletown Press, Manchester Journal Inquirer, and the Willimantic Chronicle.

The parties to the proceeding are:

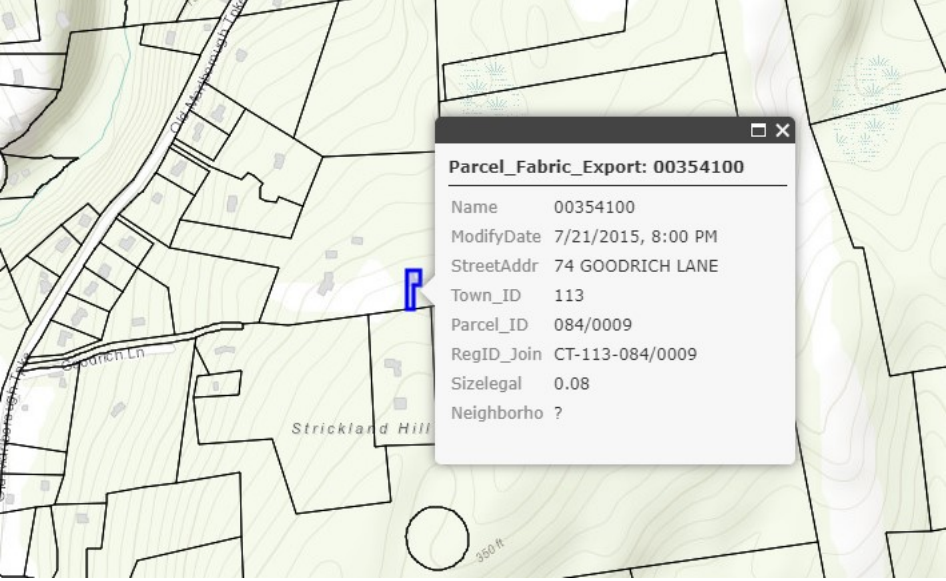
Metro Mobile (applicant)
5 Eversley Avenue
Norwalk, Connecticut 06855
ATTN: Armand Mascioli
General Manager

Howard L. Slater, Esq. (its attorneys)
Scott A. Gursky, Esq.
Byrne, Slater, Sandler,
Shulman & Rouse, P.C.
111 Pearl Street
Hartford, Connecticut 06103

Richard Rubin, Esq.
Fleischman and Walsh, P.C.
1725 N Street, N.W.
Washington, D. C. 20036

Exhibit B

Property Card



Parcel_Fabric_Export: 00354100

Name	00354100
ModifyDate	7/21/2015, 8:00 PM
StreetAddr	74 GOODRICH LANE
Town_ID	113
Parcel_ID	084/0009
RegID_Join	CT-113-084/0009
Sizelegal	0.08
Neighborho	?

Summary

Parcel Number 084-0009
 Alternate ID/Map Block Lot 00354100
 Location Address 74 GOODRICH LANE
 Legal Description (Note: Not to be used on legal documents.)
 Zoning R25
 Land Use (431) Communication Towers
 Acres 0.083
 Property Class 400
 Neighborhood 600
 Tax District 0
 Vol/Page 284/47

Map Not Available



Owner

Owner
 HALE JOAN J
 CROWN ATLANTIC LLC
 PMB 353
 4017 WASHINGTON RD
 MCMURRAY PA 15317

Valuation

	Appraised Values	Assessed Values
Current Land	\$74,900	\$52,430
Current Building	\$139,200	\$97,440
Current Total	\$214,100	\$149,870

Recent Sales In Area

Sale date range:

From:

12/28/2017

To:

12/28/2020

Sales by Neighborhood

Land

Descr	P	LN	CD	Acres	Frontage	Depth	Base Size	Base Rate	Sq ft.	Incr / Decr	Land-Val
PRIMARY	A	1	1	0.083	0	0	0.75	174,000	3,615	104000 / 83300	74,940

Total Acres:

0.0830

Total Land-Value:

74,940

Accessory Information

Card 1

Descr	Full Description	Type	Quantity	Year	Size	Area	Grade	Mods	Cond	F	MD%	Value
FENCE CHAI	FENCE CHAIN	FN1	1	1996	8 x 260	2,080	C -AVERAGE		3	3	0	2,570
TOWER CELL	TOWER CELLULAR	TT4	1	1978	1 x 160	160	C -AVERAGE		4	4	0	115,200
MACH SHED	FRAME MACHINERY SHED	SH1	1	1978	1 x 200	200	A -VERY GOOD +		4	4	0	12,000
MACH SHED	FRAME MACHINERY SHED	SH1	1	2000	1 x 96	96	B -GOOD		4	4	0	4,030
PAVING CON	PAVING CONCRETE MAT/SLAB	PC3	1	1996	1 x 2640	2,640	B -GOOD		3	3	0	5,350

Permits

Date	Number	Amount	Purpose
5/1/2019	19-149	10,000	OTHER
3/7/2019	19-68	20,000	73 CREP
12/12/2018	18-594	20,000	OTHER
8/2/2017	17-350	15,000	OTHER
2/14/2017	17-56	20,000	OTHER
1/31/2017	17-41	8,000	51 BLDG
8/26/2016	16-363	8,000	51 BLDG
11/12/2015	15-615	15,000	BLDG
11/19/2014	14-499	15,000	BLDG
10/15/2013	13-575	8,000	BLDG
12/21/2012	12-703	3,800	BLDG
7/5/2012	12-339	25,000	BLDG
4/4/2011	10051	10,000	BLDG
6/11/2010	9855	7,000	BLDG
1/14/2010	9715	15,000	BLDG
6/10/2008	9241	15,000	BLDG
11/9/1999	6148	38,600	BLDG

Photos



No data available for the following modules: Sales, Residential, Other Dwelling Features, Commercial, Interior/Exterior, Other Features, Tax History, Additions, Sketches.

The Town of Portland Assessor makes every effort to produce the most accurate information possible. No warranties, expressed or implied are provided for the data herein, its use or interpretation. The assessment information is from the last certified tax roll. All other data is subject to change.

[User Privacy Policy](#)
[GDPR Privacy Notice](#)

[Last Data Upload: 12/28/2020, 1:12:55 AM](#)

Developed by
 Schneider
GEOSPATIAL

[Version 2.3.99](#)

Exhibit C

Construction Drawings



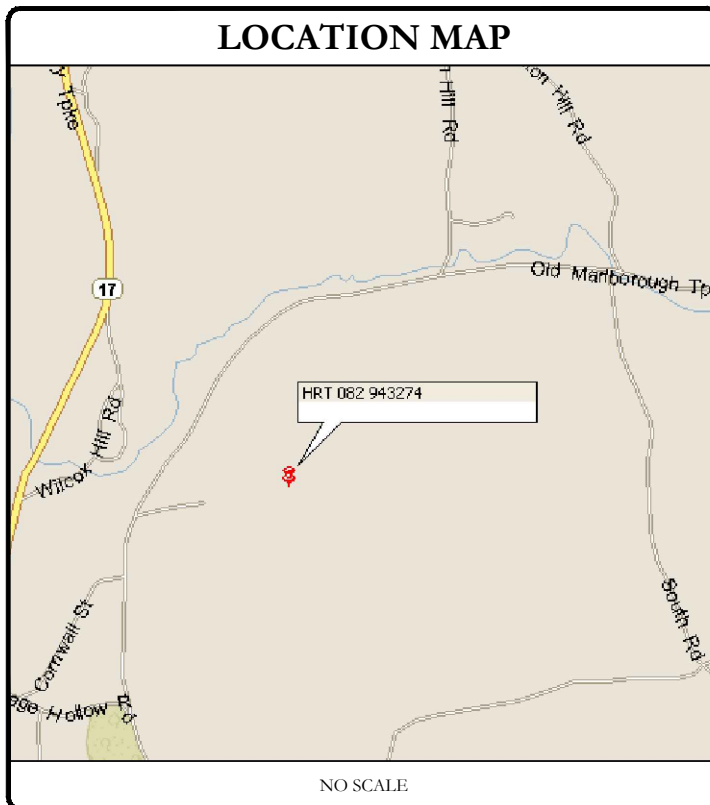
AT&T SITE NUMBER: CTV5836
AT&T SITE NAME: PORTLAND CENTRAL
AT&T FA CODE: 10071206
AT&T PACE NUMBER: MRCTB048941, MRCTB048924, MRCTB048936, MRCTB048904, MRCTB048938, MRCTB048952
AT&T PROJECT: 4TX4RX, 5G NR 1DR-1, 5G NR, LTE 3C, LTE 4C, BWE

BUSINESS UNIT #: 806382
SITE ADDRESS: 74 GOODRICH LANE PORTLAND, CT 06480
COUNTY: MIDDLESEX
SITE TYPE: MONOPOLE
TOWER HEIGHT: 160'-0"



SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	HRT 082 943274
SITE ADDRESS:	74 GOODRICH LANE PORTLAND, CT 06480
COUNTY:	MIDDLESEX
MAP/PARCEL #:	084-0009
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.6081919
LONGITUDE:	-72.5914989
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	336'
CURRENT ZONING:	R25
JURISDICTION:	TOWN OF PORTLAND
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	HALE, JOAN J CROWN ATLANTIC LLC PMB 353 4017 WASHINGTON RD MCMURRAY PA 15317
TOWER OWNER:	CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	N/A
TELCO PROVIDER:	N/A

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT SPECS
C-5	EQUIPMENT SPECS
C-6	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR ----. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	
CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!	



AT&T SITE NUMBER: CTV5836

BU #: 806382
 HRT 082 943274

74 GOODRICH LANE
 PORTLAND, CT 06480

EXISTING
 160'-0" MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH

PROJECT TEAM	
A&E FIRM:	B+T GROUP 1717 S BOULDER AVE, SUITE 300 TULSA, OK 74119 JENNY PAUL jpaul@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3530 TORINGDON WAY, SUITE 300 CHARLOTTE, NC 28277 NICHOLAS ROMBACH NICHOLAS.ROMBACH@CROWNCastle.COM
NOTE: PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.	

PROJECT DESCRIPTION	
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.	
TOWER SCOPE OF WORK: <ul style="list-style-type: none"> REMOVE (3) KMW- AM-X-CD-16-65-00T-RET ANTENNAS REMOVE (3) POWERWAVE - 7770 ANTENNAS REMOVE (6) 21404 TMAs REMOVE (3) RRUS-11 B12 RRUs REMOVE (3) RRUS-12 B2 RRUs REMOVE (6) COAX CABLES RELOCATE (6) BIAS-Ts TO POS 1 AND ATTACH TO UMTS COAX LINES INSTALL (3) CCI - OPA65R-BU6DA ANTENNAS INSTALL (3) CCI - DMP65R-BU6DA ANTENNAS INSTALL (1) DC6-48-60-18-8C-EV SURGE SUPPRESSOR INSTALL (3) RRUS 4478 B14 RRUs INSTALL (3) RRUS 8843 B2/B66A RRUs INSTALL (3) RRUS 4449 B5/B12 RRUs INSTALL (2) POWER CABLES INSTALL (1) FIBER CABLE INSTALL (6) Y CABLES 	GROUND SCOPE OF WORK: <ul style="list-style-type: none"> REMOVE (6) LGP13519 DIPLEXERS INSTALL (1) BB6630 INSTALL (1) FIBER MANAGEMENT BOX INSTALL (1) IDLc CABLE

APPLICABLE CODES/REFERENCE DOCUMENTS	
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:	
CODE TYPE BUILDING MECHANICAL ELECTRICAL	CODE 2015 IBC 2015 IMC 2017 NEC
REFERENCE DOCUMENTS:	
STRUCTURAL ANALYSIS: DATED: 11/13/20	CROWN CASTLE
MOUNT ANALYSIS: DATED: 11/12/20	TEP
RFDS REVISION: 2 DATED: 10/7/20	ORDER ID: 528755 REVISION: 1

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

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

SHEET NUMBER:	REVISION:
T-1	0

81363.018.01 HRT_ETL_AT&T_08.07.2020.dwg - Sheet: T-1 - User: ghoyes - Dec 22, 2020 - 8:53am

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. POC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: FINISHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE 110.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE 110.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
- ALL SITE WORK TO COMPLY WITH QAS-STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS." IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OFF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTI-OXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL GROUNDING THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
- BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: AT&T
TOWER OWNER: CROWN CASTLE USA INC.
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY CHANGE OF INSTALLATION.
- CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT.
- CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER 40 ksi
#5 BARS AND LARGER 60 ksi
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER 2"
#5 BARS AND SMALLER 1-1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS 3/4"
BEAMS AND COLUMNS 1-1/2"
- A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
- EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND NEC.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREFORM SPECIMATE WIREWAY).
- SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKOUT ON OUTSIDE AND INSIDE.
- EQUIPMENTS, CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "AT&T".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
DC VOLTAGE	GROUND	GREEN
	POS (+)	RED**
	NEG (-)	BLACK**

APWA UNIFORM COLOR CODE:

- WHITE PROPOSED EXCAVATION
- PINK TEMPORARY SURVEY MARKINGS
- RED ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
- YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
- ORANGE COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
- BLUE POTABLE WATER
- PURPLE RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
- GREEN SEWERS AND DRAIN LINES

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:


- ANT ANTENNA
- (E) EXISTING
- FIF FACILITY INTERFACE FRAME
- GEN GENERATOR
- GPS GLOBAL POSITIONING SYSTEM
- GSM GLOBAL SYSTEM FOR MOBILE
- LTE LONG TERM EVOLUTION
- MGB MASTER GROUND BAR
- MW MICROWAVE
- (N) NEW
- NEC NATIONAL ELECTRIC CODE
- (P) PROPOSED
- PP POWER PLANT
- QTY QUANTITY
- RECT RECTIFIER
- RBS RADIO BASE STATION
- RET REMOTE ELECTRIC TILT
- RFDS RADIO FREQUENCY DATA SHEET
- RRH REMOTE RADIO HEAD
- RRI REMOTE RADIO UNIT
- SRI SMART INTEGRATED DEVICE
- TMA TOWER MOUNTED AMPLIFIER
- TYP TYPICAL
- UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
- W.P. WORK POINT



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277



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

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH



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

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

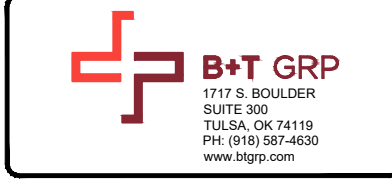
SHEET NUMBER: **T-2** REVISION: **0**



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277



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

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

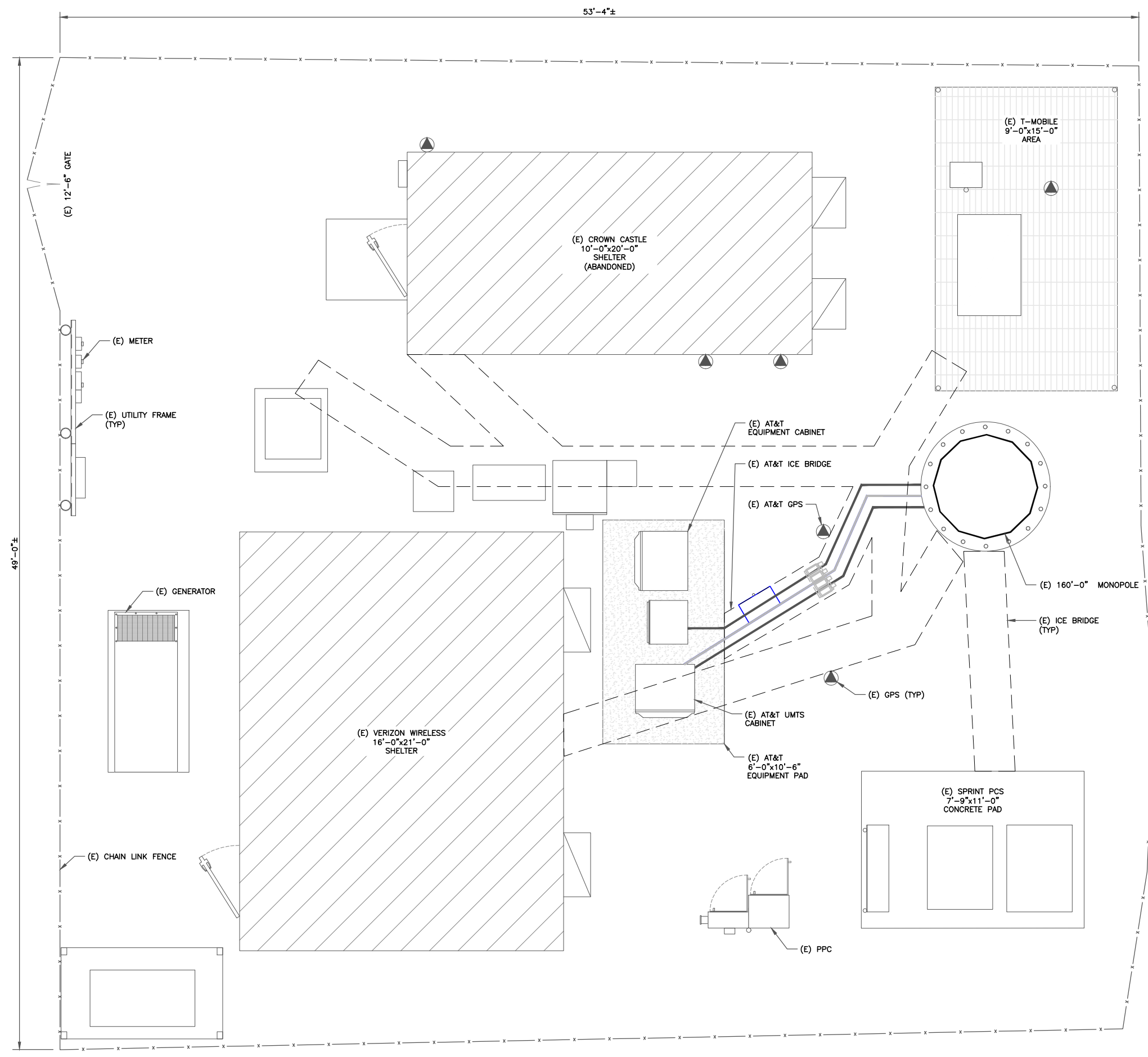
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH



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

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

SHEET NUMBER: **C-1.1** REVISION: **0**



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



81363.018.01 HRT_ETL_AT&T_08.07.2020.dwg - Sheet C-1.1 - User: ghayes - Dec 22, 2020 - 8:53am



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277



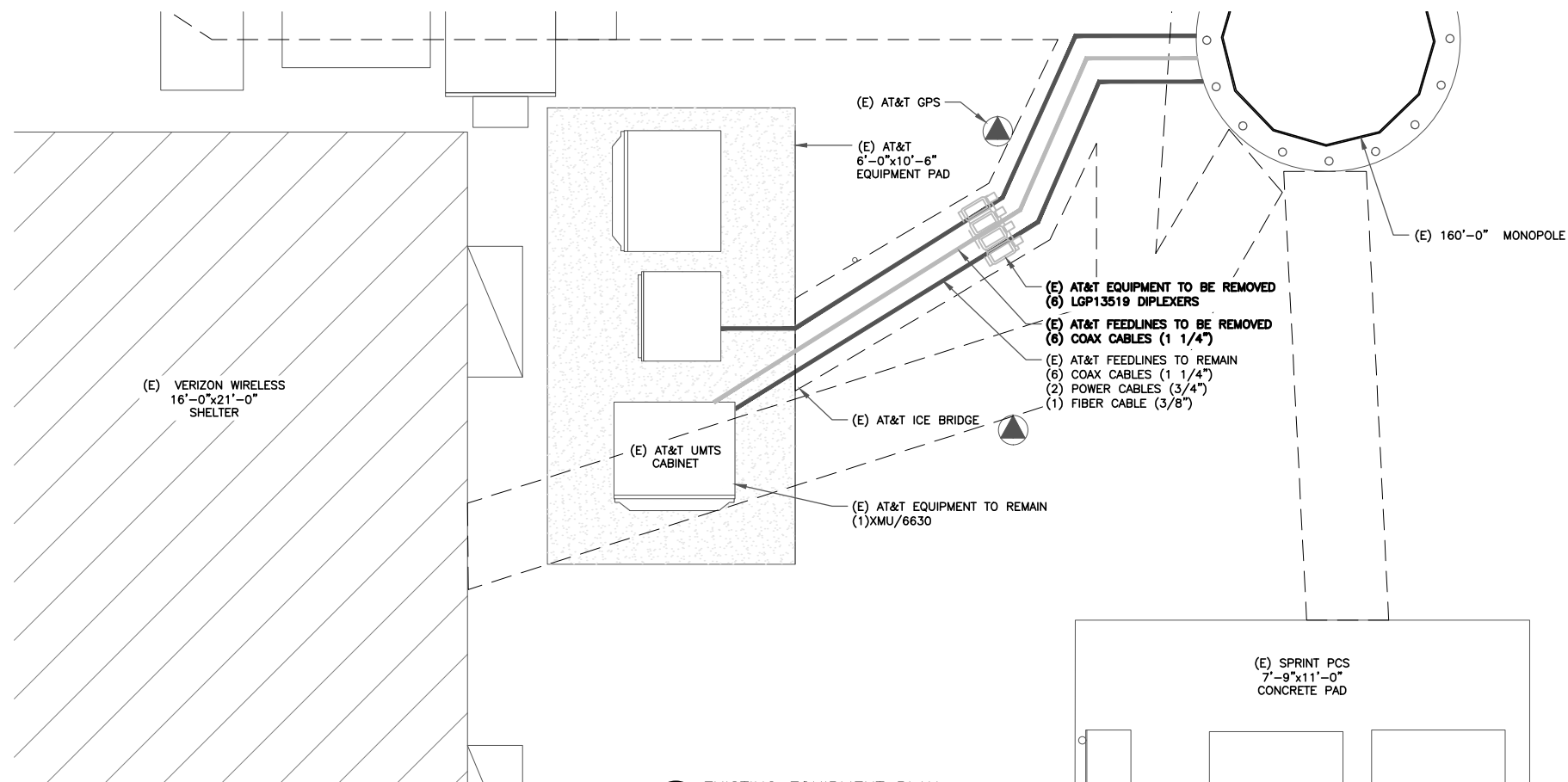
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE



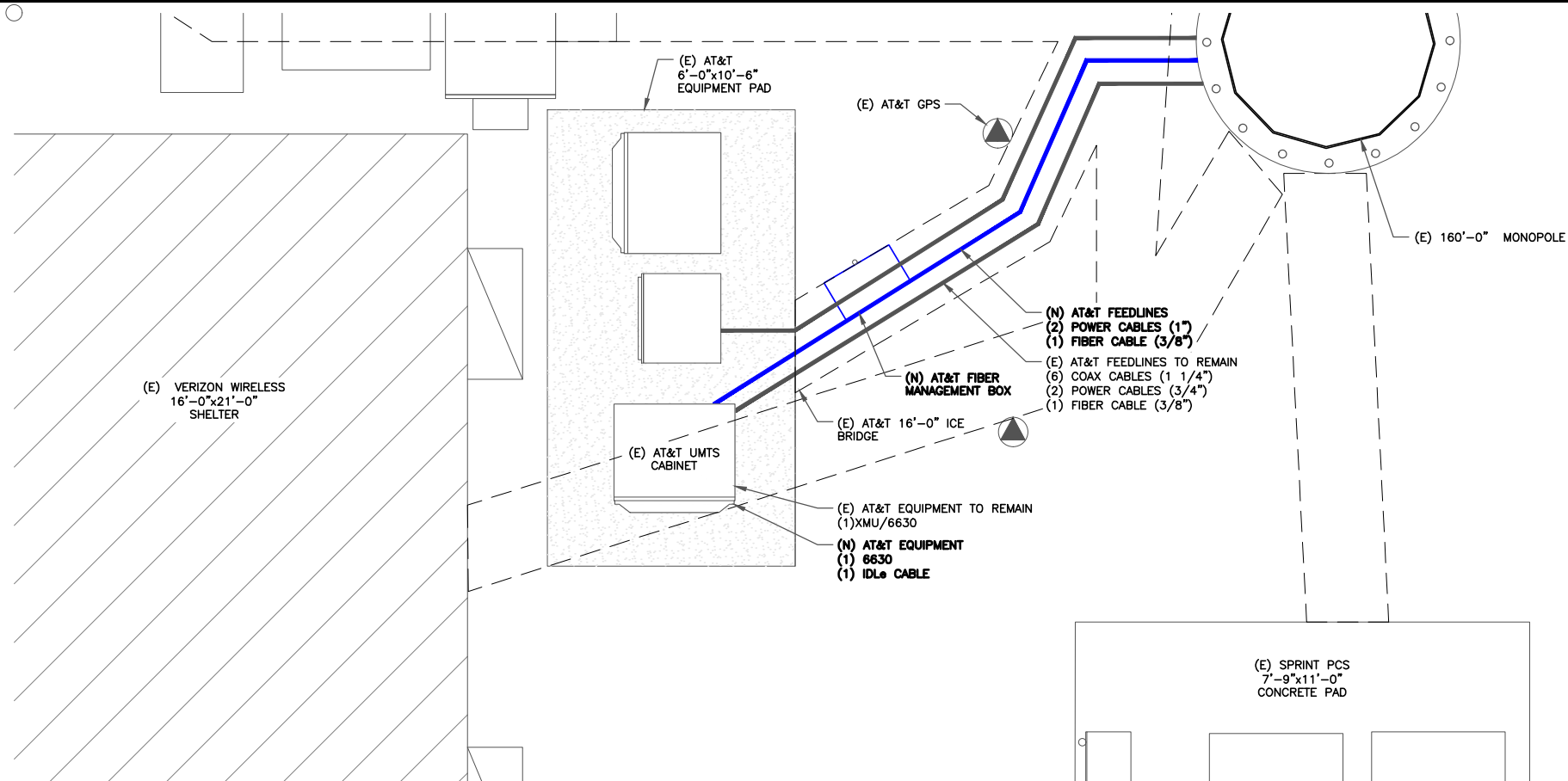
1 EXISTING EQUIPMENT PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



- GROUND SCOPE OF WORK:
- REMOVE (6) LGP13519 DIPLEXERS
 - INSTALL (1) 6630
 - INSTALL (1) IDLe CABLE
 - INSTALL (1) FIBER MANAGEMENT BOX

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH



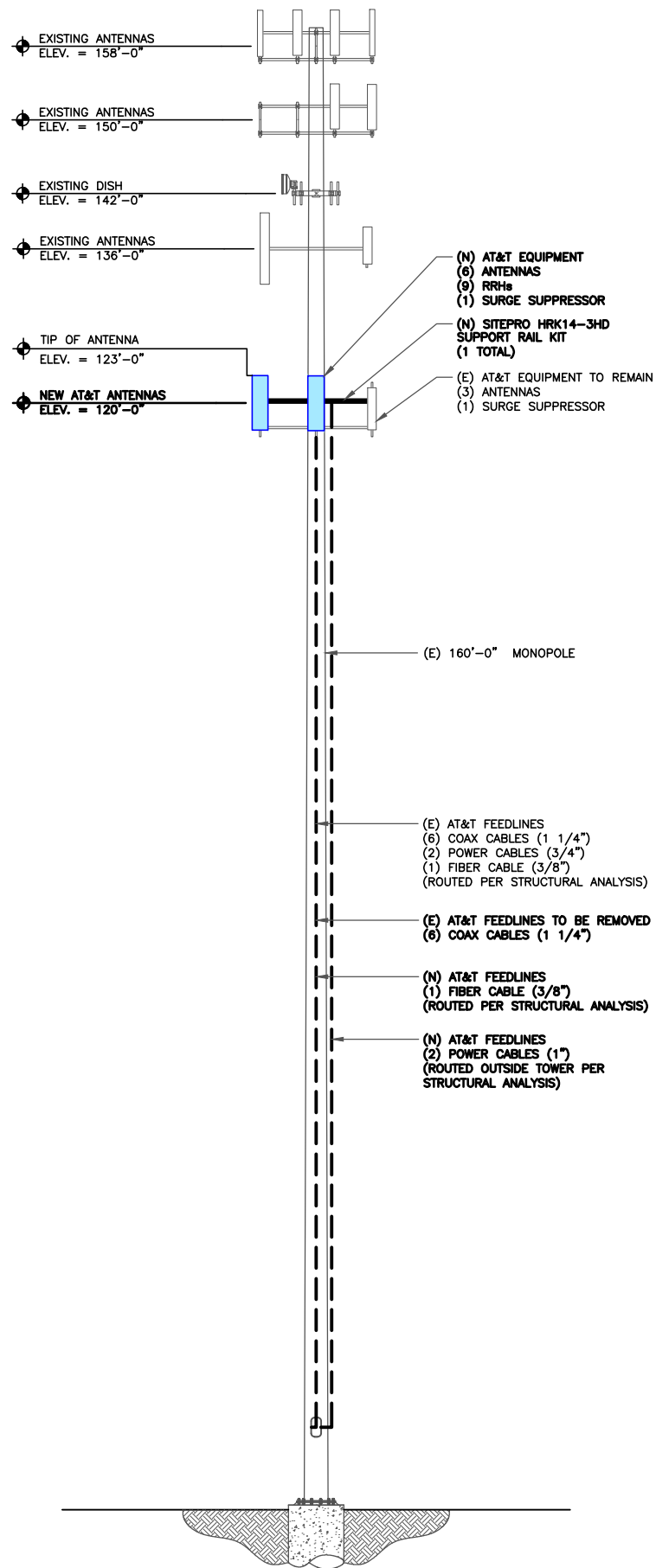
2 FINAL EQUIPMENT PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



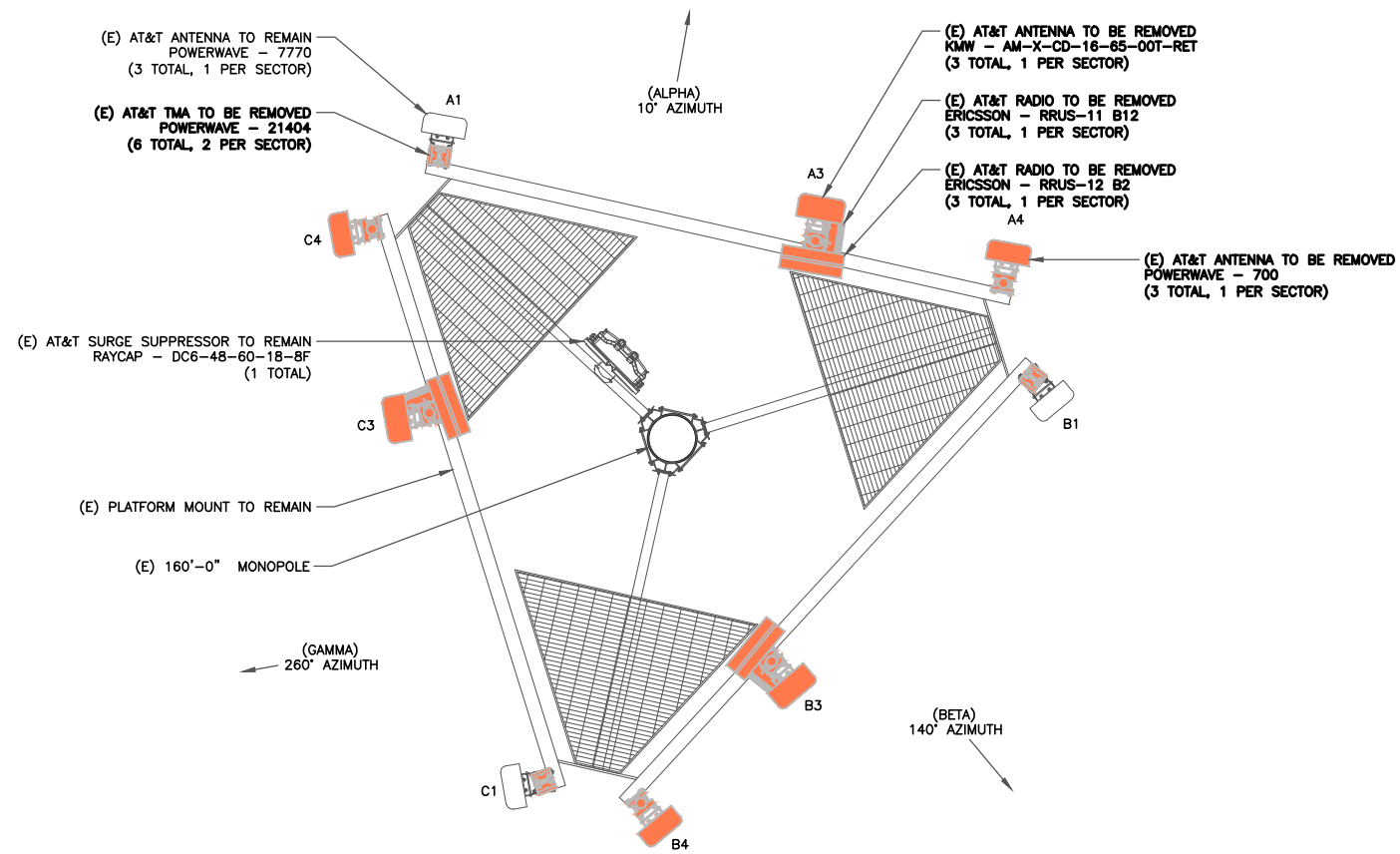
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

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

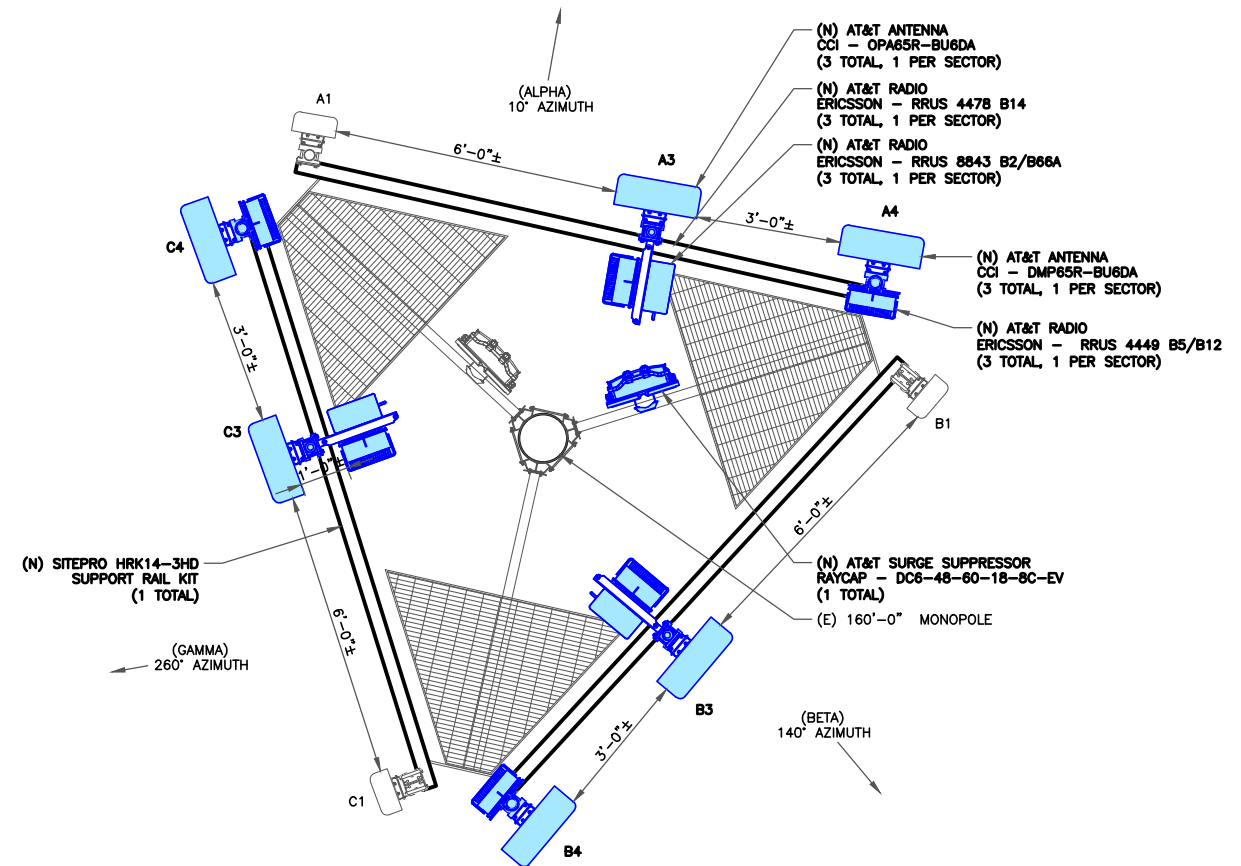
SHEET NUMBER: C-1.2
REVISION: 0



1 FINAL ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



3 FINAL ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH



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

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

SHEET NUMBER: **C-2** REVISION: **0**

81363.018.01_HRT_ETA_AT&T_08.07.2020.dwg - Sheet C-2 - User: ghoyes - Dec 22, 2020 - 8:53am



FINAL ANTENNA AND FEEDLINE SCHEDULE

POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	SURGE PROTECTION	DC/FIBER CABLES	RRHs QTY & MODEL ON TOWER	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	UMTS 850	EXISTING	10°	POWERWAVE 7770	120'-0"	0°	2°	1 1/4"	150'-0"	2	-	-	-	-	-	N	N	N
A3	LTE 700/ LTE 1900	NEW	10°	CCI OPA65R-BU6DA	120'-0"	0°	2°/2°/2°/2°	-	-	-	-	(1) DC6-48-60-18-8F (1) DC6-48-60-18-8C-EV	(1) 3/8" FIBER CABLE (2) 3/4" POWER CABLES	(1) RRUS 4478 B14 (1) RRUS 8843 B2/B66A	TOWER	N	N	Y
A4	LTE 700/ LTE 850/ LTE AWS/ 5G 850	NEW	10°	CCI DMP65R-BU6DA	120'-0"	0°	2°/2°/2°/2°	-	-	-	-	-	-	(1) RRUS 4449 B5/B12	TOWER	N	N	Y
BETA SECTOR																		
B1	UMTS 850	EXISTING	140°	POWERWAVE 7770	120'-0"	0°	5°	1 1/4"	150'-0"	2	-	-	-	-	-	N	Y	N
B3	LTE 700/ LTE 1900	NEW	140°	CCI OPA65R-BU6DA	120'-0"	0°	2°/2°/2°/2°	-	-	-	-	-	(1) 3/8" FIBER CABLE (2) 1" POWER CABLES	(1) RRUS 4478 B14 (1) RRUS 8843 B2/B66A	TOWER	N	N	Y
B4	LTE 700/ LTE 850/ LTE AWS/ 5G 850	NEW	140°	CCI DMP65R-BU6DA	120'-0"	0°	2°/2°/2°/2°	-	-	-	-	-	-	(1) RRUS 4449 B5/B12	TOWER	N	Y	Y
GAMMA SECTOR																		
C1	UMTS 850	EXISTING	260°	POWERWAVE 7770	120'-0"	0°	10°	1 1/4"	150'-0"	2	-	-	-	-	-	N	Y	N
C3	LTE 700/ LTE 1900	NEW	260°	CCI OPA65R-BU6DA	120'-0"	0°	6°/6°/6°/6°	-	-	-	-	-	-	(1) RRUS 4478 B14 (1) RRUS 8843 B2/B66A	TOWER	N	N	Y
C4	LTE 700/ LTE 850/ LTE AWS/ 5G 850	NEW	260°	CCI DMP65R-BU6DA	120'-0"	0°	6°/6°/6°/6°	-	-	-	-	-	-	(1) RRUS 4449 B5/B12	TOWER	N	Y	Y

NOTE: BOLD DENOTES NEW EQUIPMENT

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH



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

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

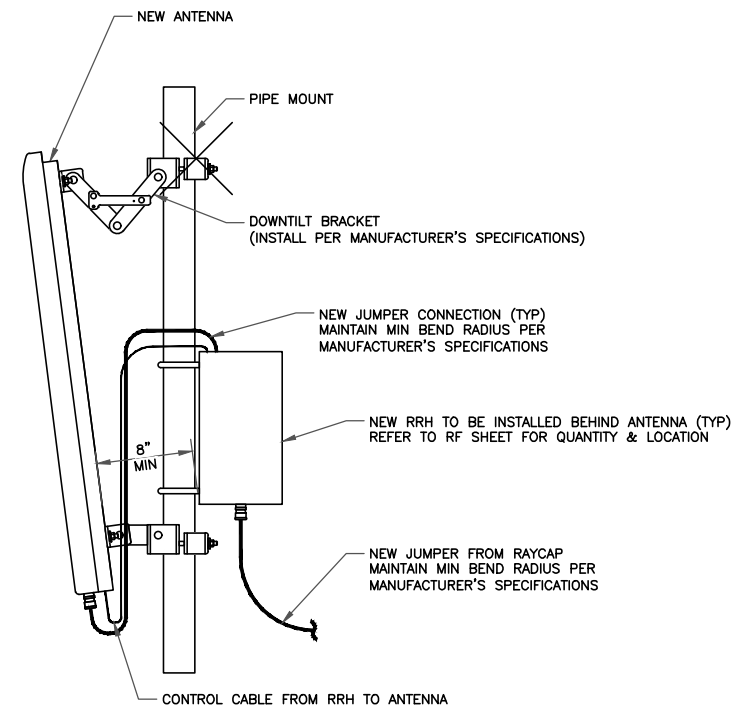
SHEET NUMBER:

C-3

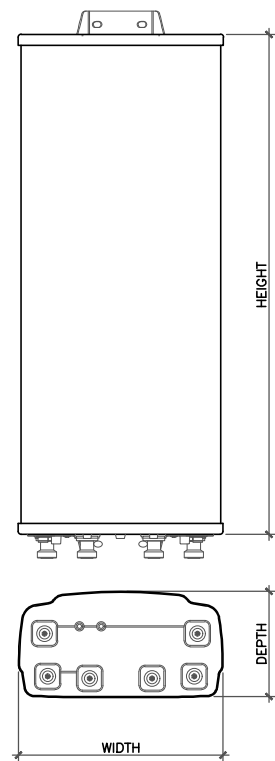
REVISION:

0

1 FINAL ANTENNA AND FEEDLINE SCHEDULE
SCALE: NOT TO SCALE

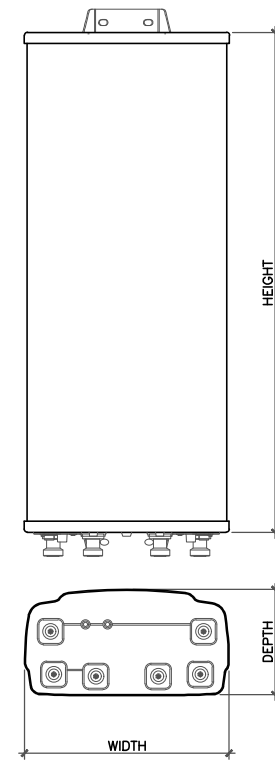


1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE



ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
OPA65R-BU6DA	71.2"	21"	7.8"	60.2 lbs

2 ANTENNA DETAIL
SCALE: NOT TO SCALE

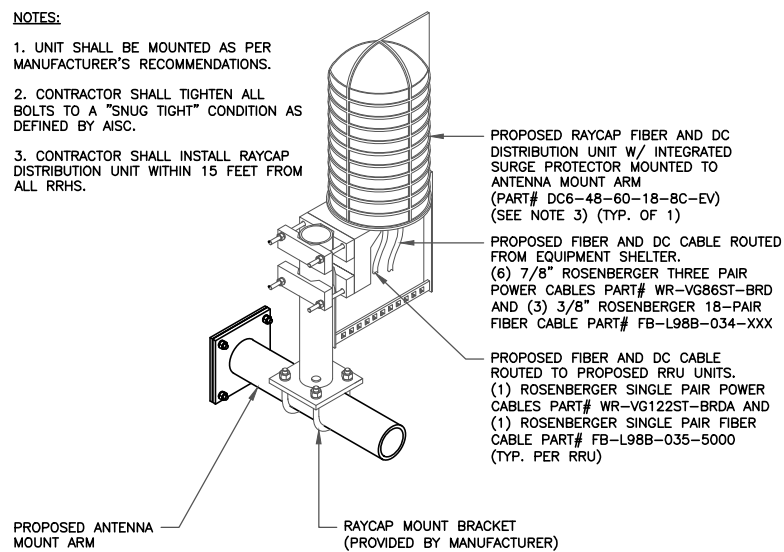


ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU6DA	71.2"	20.7"	7.7"	79.4 lbs

3 ANTENNA DETAIL
SCALE: NOT TO SCALE

NOTES:

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

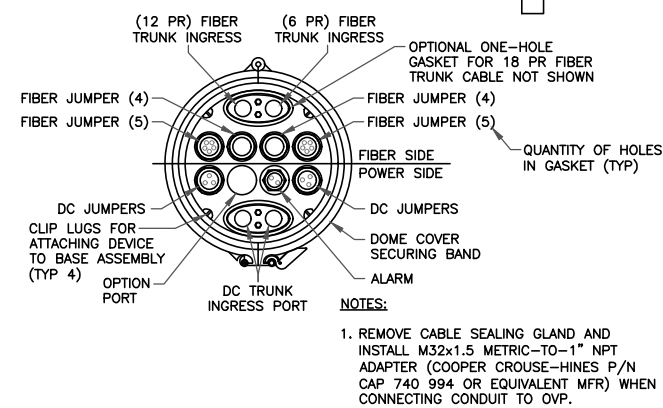
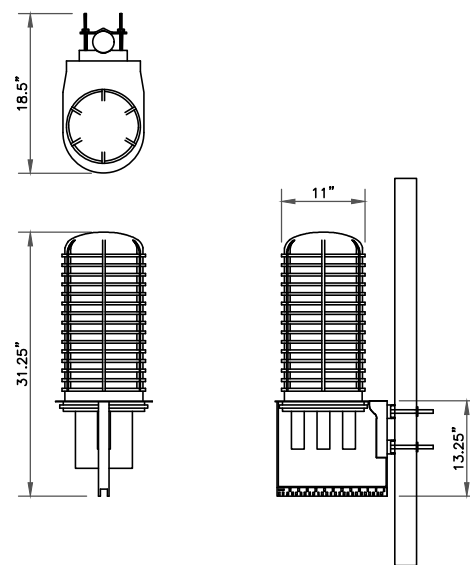


RAYCAP
DC6-48-60-18-8C-EV

RAYCAP - DC6-48-60-18-8C-EV
SIZE: 11x31.25 IN.
WEIGHT: 32.8 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 400 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)

CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION

4 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE



NOTES:

- REMOVE CABLE SEALING GLAND AND INSTALL M32x1.5 METRIC-TO-1" NPT ADAPTER (COOPER-CROUSE-HINES P/N CAP 740 994 OR EQUIVALENT MFR) WHEN CONNECTING CONDUIT TO OVP.

575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

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

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

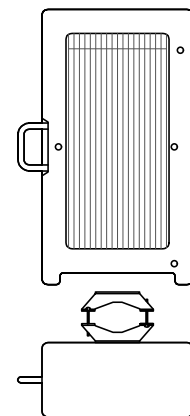
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH



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

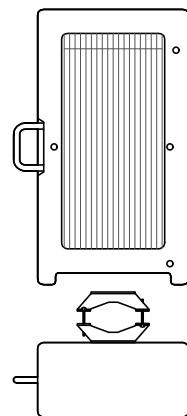
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: C-4 REVISION: 0



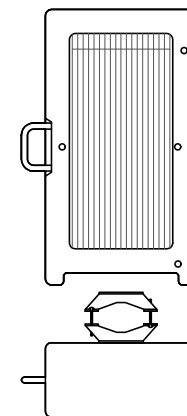
ERICSSON - RRU 4478 B14
 WEIGHT (FULLY EQUIPPED): 59.4 LBS
 SIZE (HxWxD): 18.1x13.4x8.26 IN.
 CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

1 ERICSSON - RRU 4478 B14
 SCALE: NOT TO SCALE



ERICSSON - RRU 8843 B2/B66A
 WEIGHT (FULLY EQUIPPED): 75 LBS
 SIZE (HxWxD): 18x13.2x11.30 IN.
 CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

2 ERICSSON - RRU 8843 B2/B66A
 SCALE: NOT TO SCALE

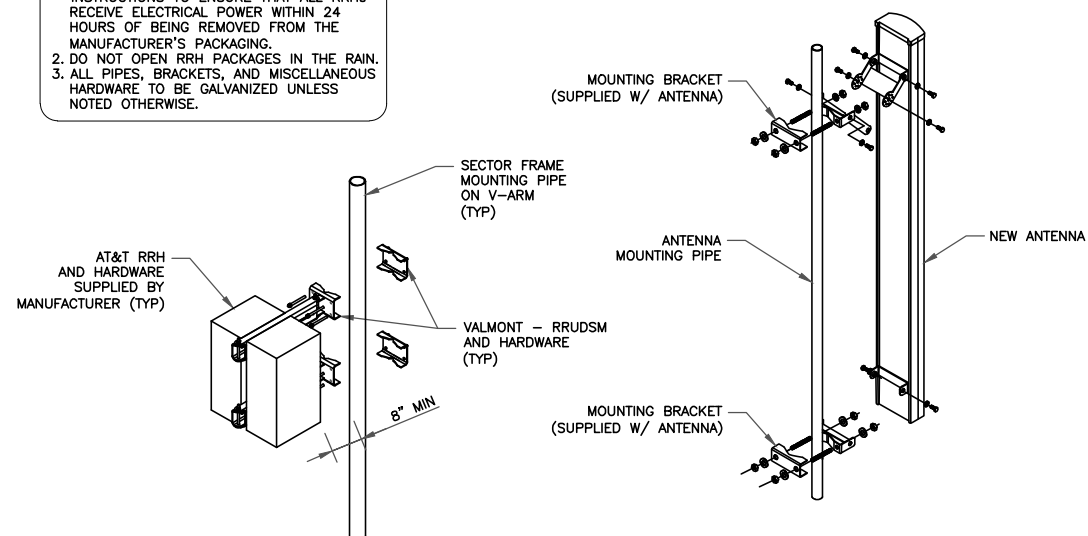


ERICSSON - RRU 4449 B5/B12
 WEIGHT (FULLY EQUIPPED): 71 LBS
 SIZE (HxWxD): 17.9x13.2x9.4 IN.
 CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

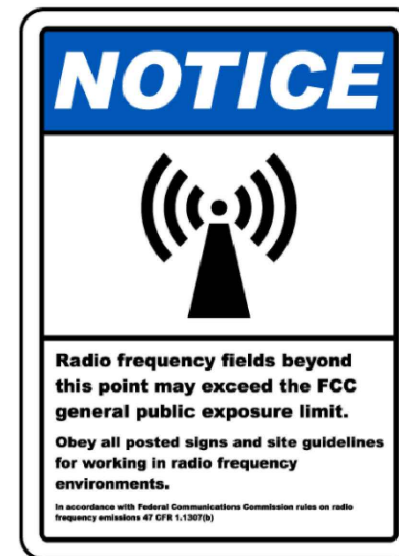
3 ERICSSON - RRU 4449 B5/B12
 SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



4 ANTENNA WITH RRHs MOUNTING DETAIL
 SCALE: NOT TO SCALE



5 RF EME SIGNAGE DETAILS
 SCALE: NOT TO SCALE

575 MOROSGO DRIVE
 ATLANTA, GA 30324-3300

3530 TORINGDON WAY, SUITE 300
 CHARLOTTE, NC 28277

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

AT&T SITE NUMBER: CTV5836

BU #: 806382
 HRT 082 943274

74 GOODRICH LANE
 PORTLAND, CT 06480

EXISTING
 160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH



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

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

SHEET NUMBER: **C-5** REVISION: **0**

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH

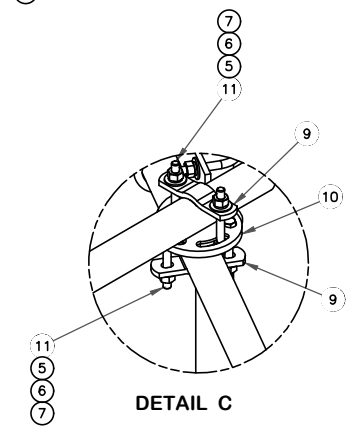
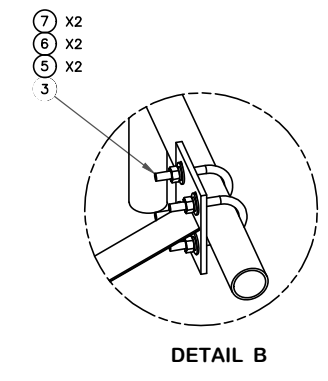
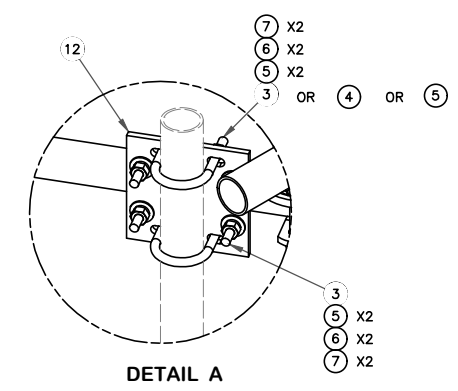
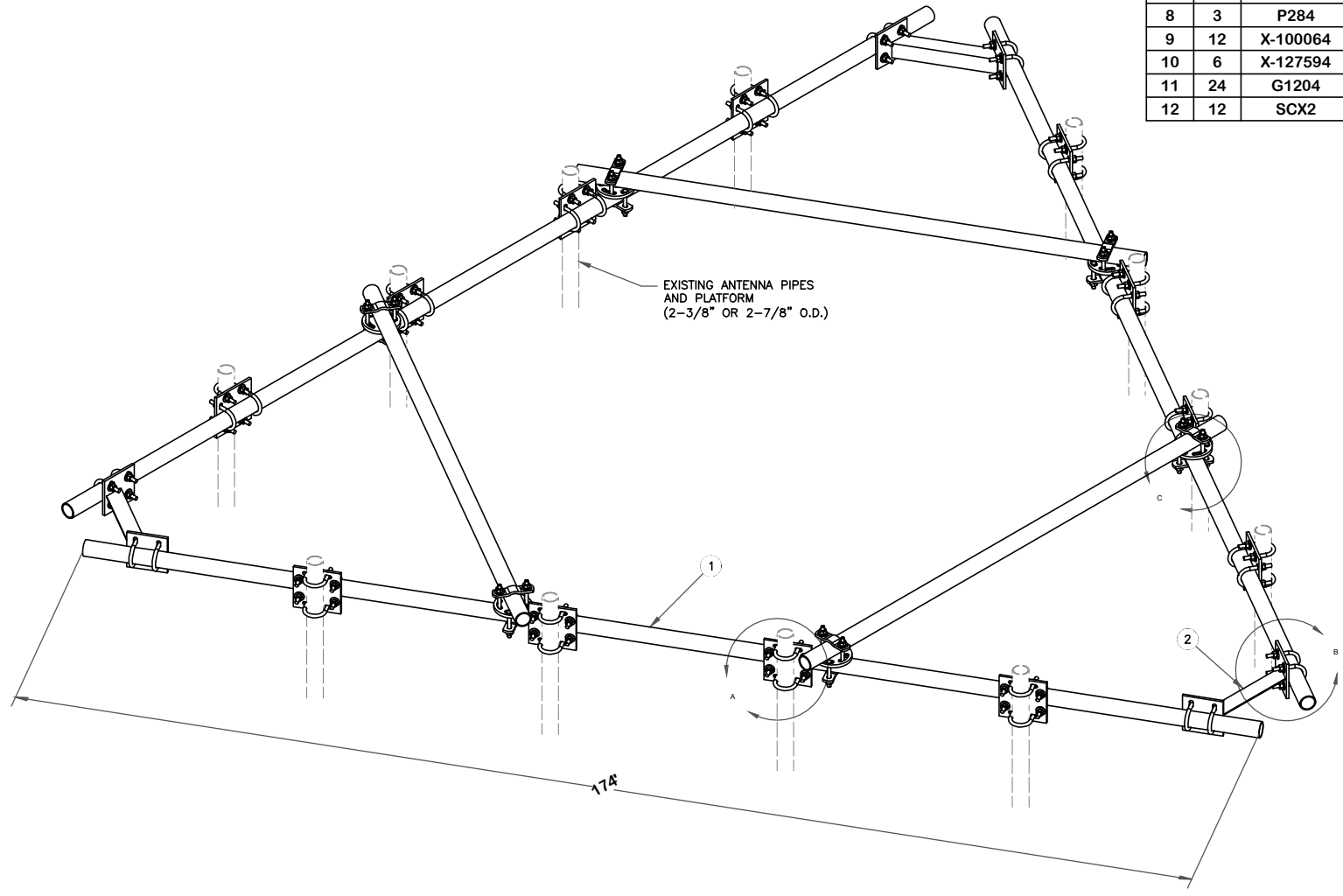


B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

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

SHEET NUMBER: **C-6** REVISION: **0**

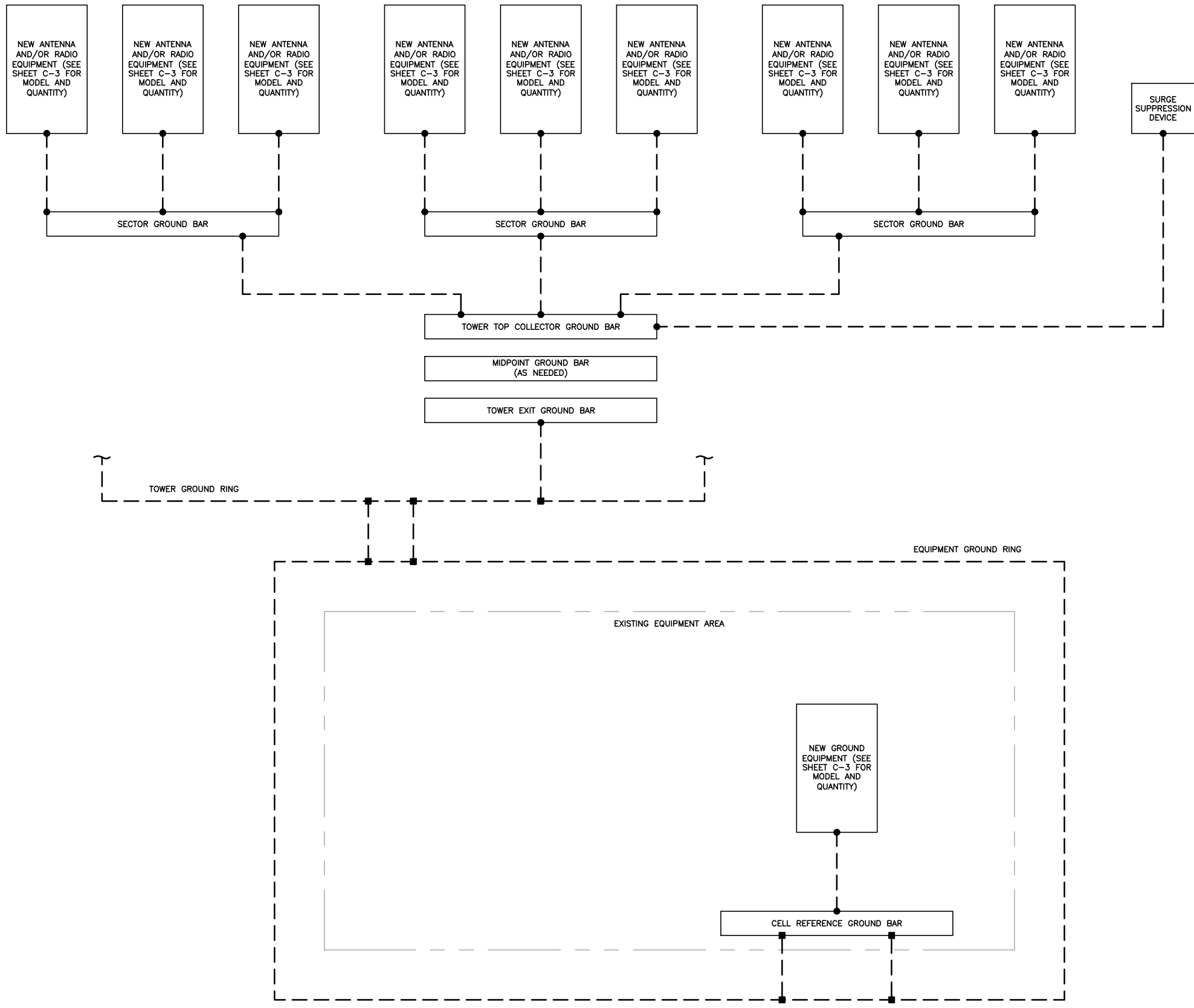
PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2174	2-3/8" OD X 174" SCH 40 GALVANIZED PIPE	174 in	55.75	167.24
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	15.42
4	24	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.26	6.17
5	144	G12FW	1/2" HDG USS FLATWASHER		0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER		0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P284	2-3/8" X 84" SCH 40 GALVANIZED PIPE	84 in	26.91	80.74
9	12	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	10.95
10	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.48	14.90
11	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
TOTAL WT. #						448.08



HEAVY DUTY HANDRAIL KIT FOR 14' PLATFORMS WITH 2-3/8" OR 2-7/8" ANTENNA PIPES

HRK14-HD

1 SITEPRO1 - HRK14-HD HANDRIAL KIT
SCALE: NOT TO SCALE



GROUNDING PLAN LEGEND:

---	GROUND WIRE	⊙	COPPER GROUND ROD
■	EXOTHERMIC WELD	⊗	GROUND ROD W/ TEST WELL
●	MECHANICAL CONNECTION		

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.

575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

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

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH

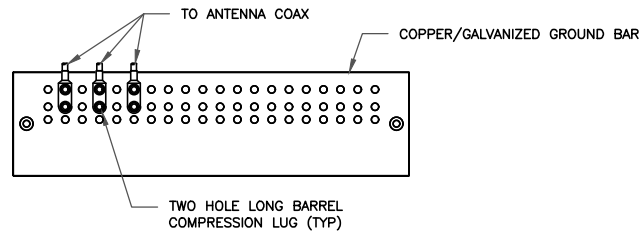
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

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

1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

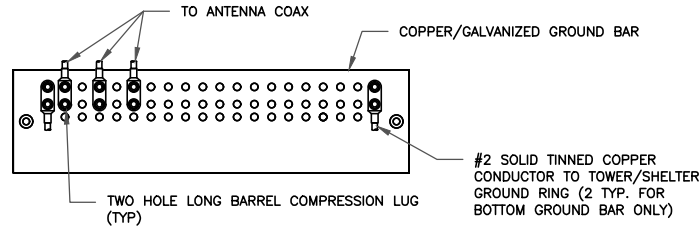
SHEET NUMBER: **G-1** REVISION: **0**

81363.018.01 HRT_ETI_AT&T_08.07.2020.dwg - Sheet:G-1 - User: ghoyses - Dec 22, 2020 - 8:53am



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

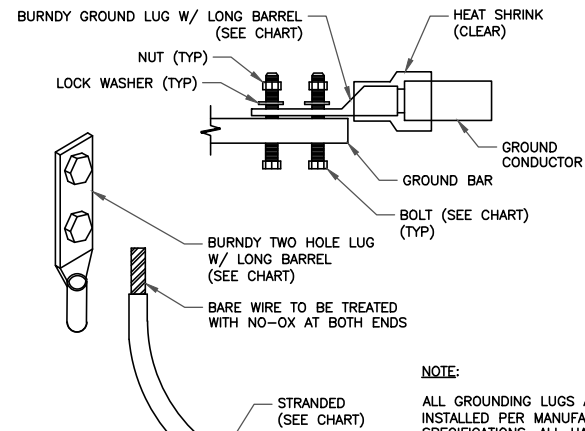
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



- NOTES:
- EXTERIOR ANTIOXIDANT 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.

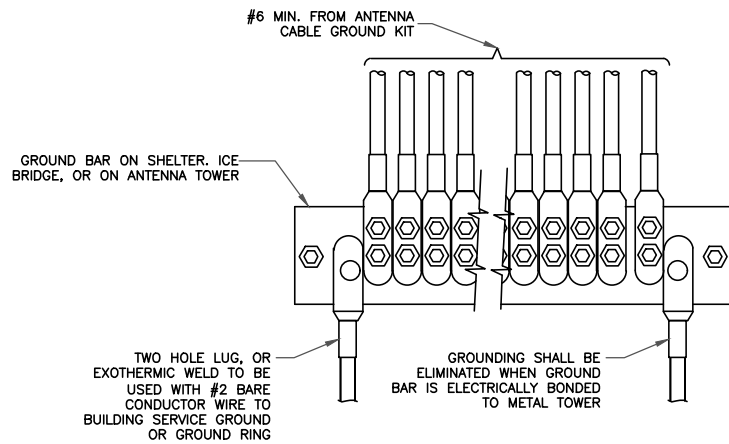
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC3B	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC3B	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC3B	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC3B	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT

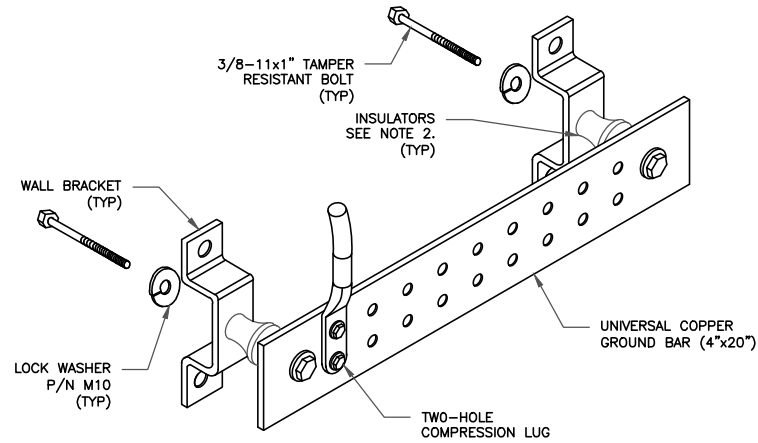


- NOTE:
- ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE

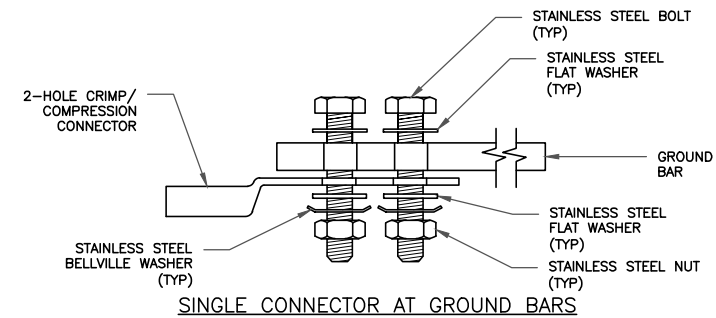


4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

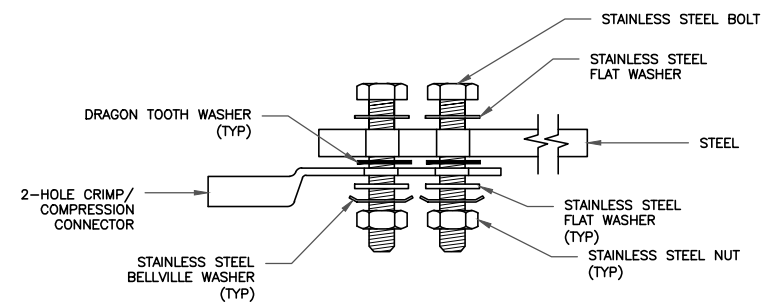


- NOTES:
- DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
 - OMIT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

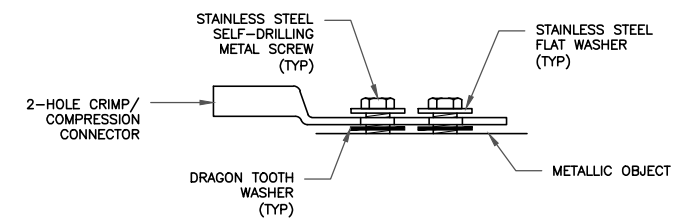
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



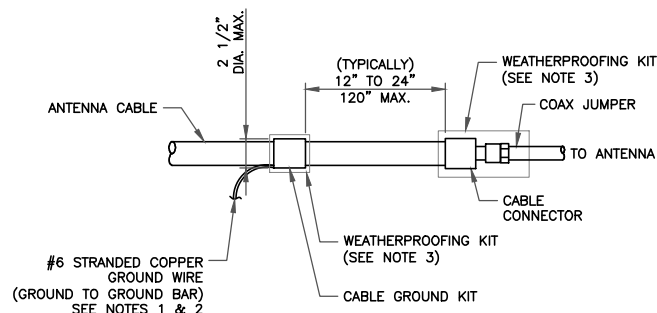
SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS

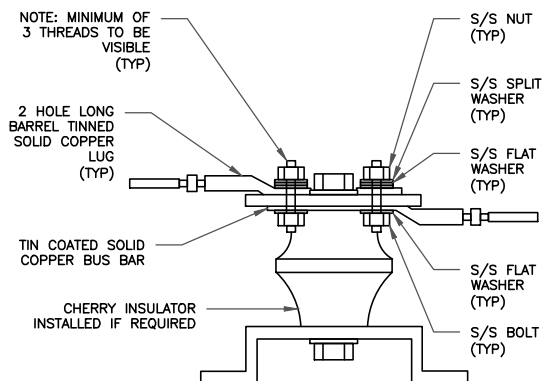


SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS



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

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH

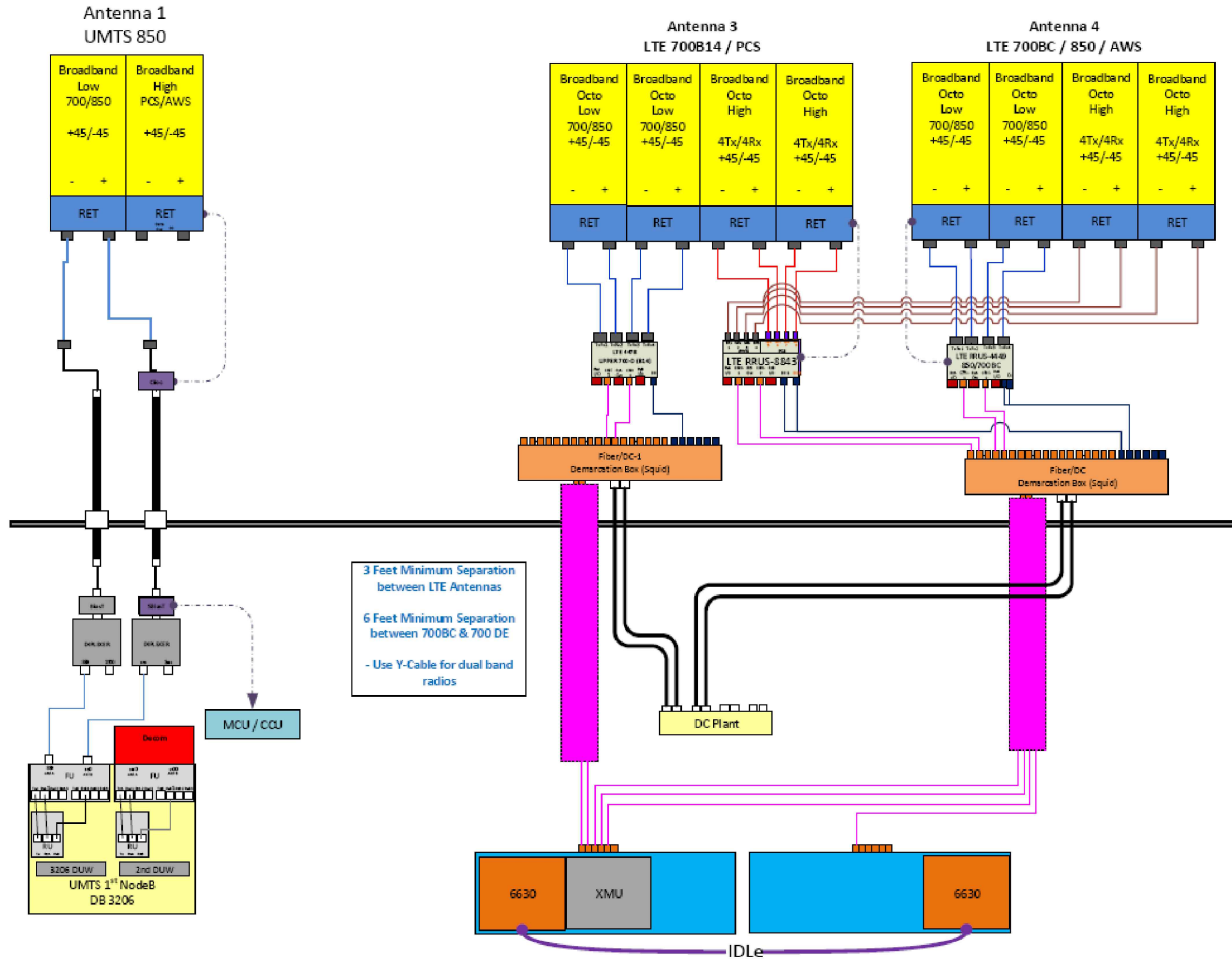


B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

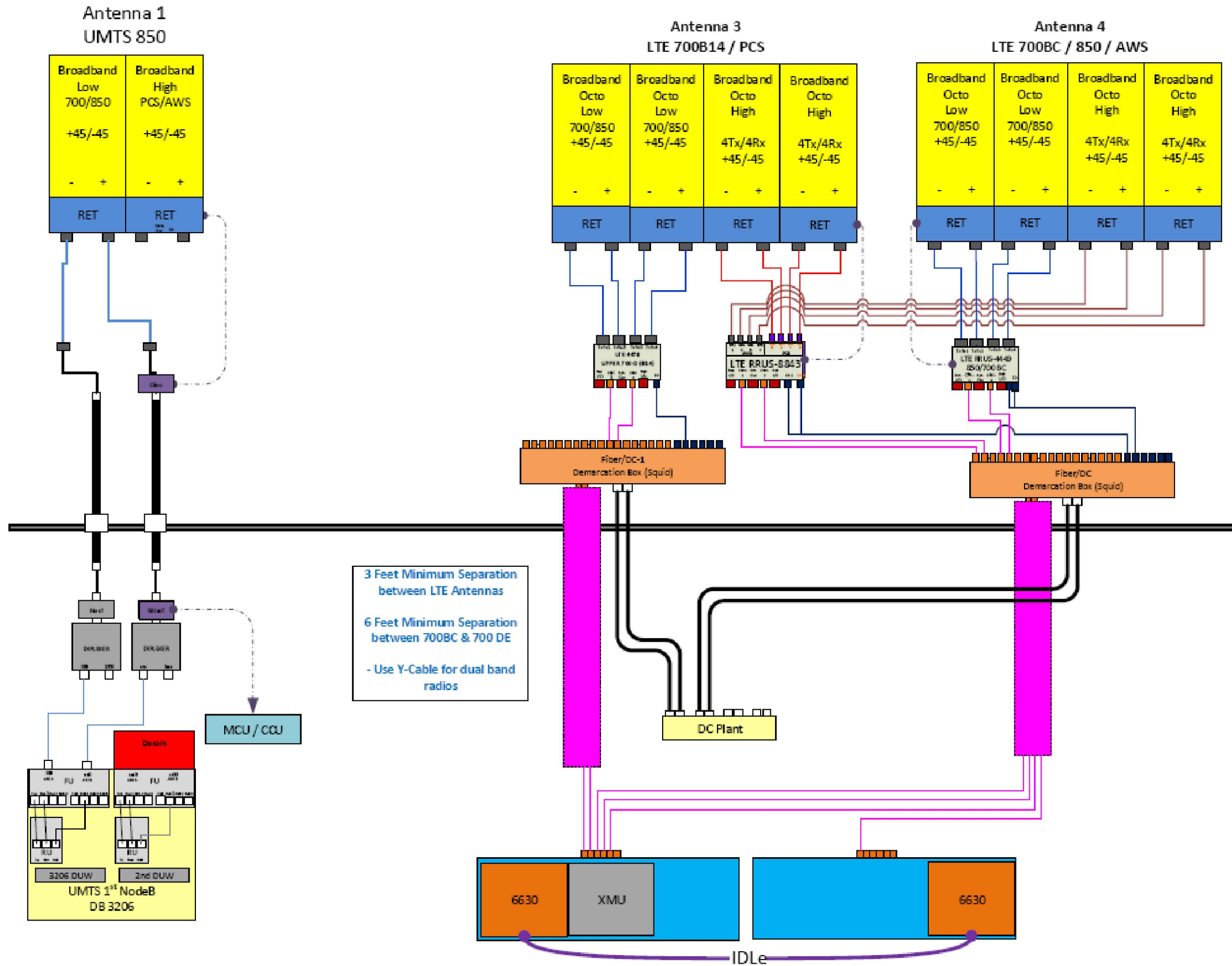
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: **G-2** REVISION: **0**

ALPHA



BETA



GAMMA

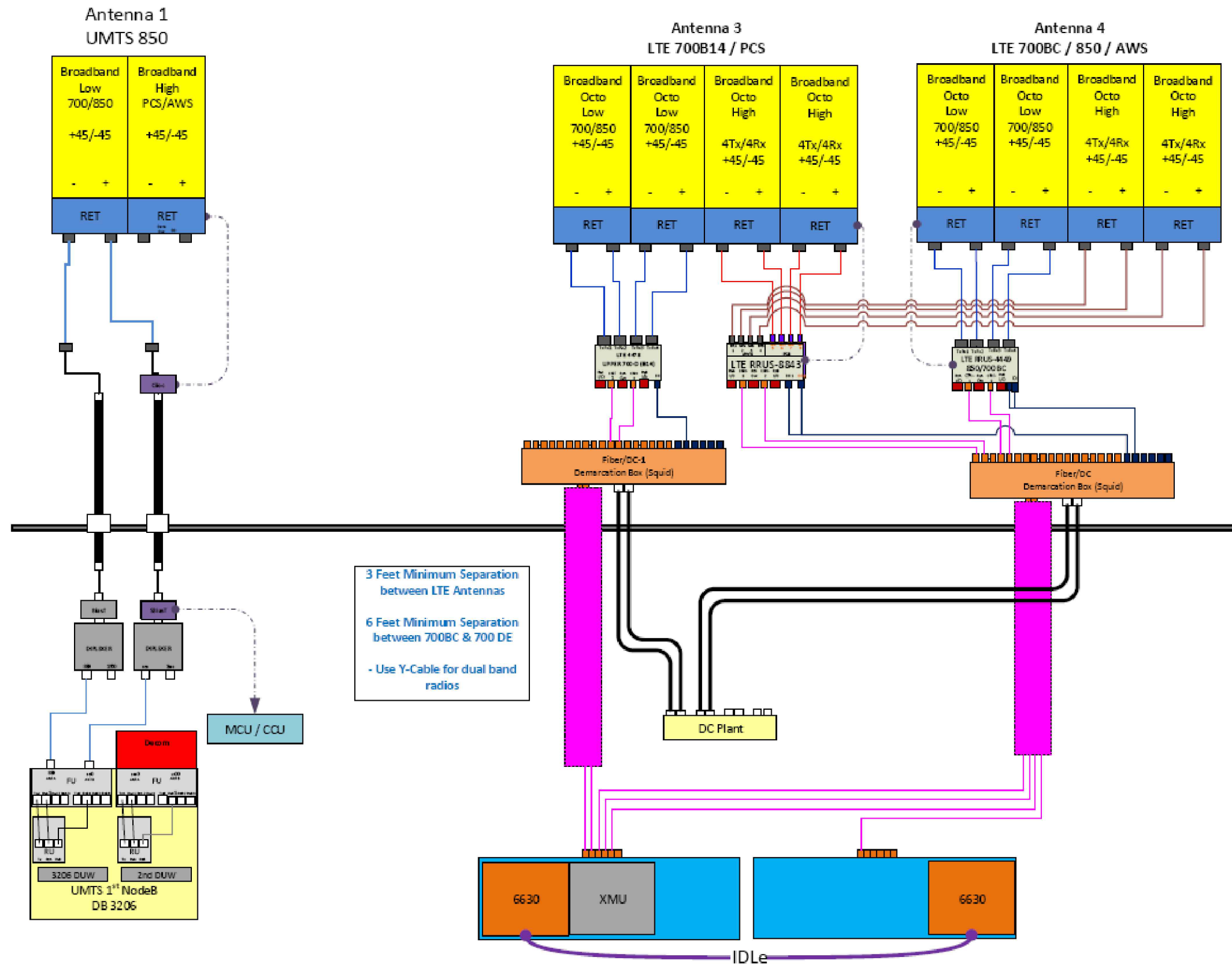


Exhibit D

Structural Analysis Report

Date: **November 13, 2020**

Cheryl Schultz
Crown Castle
6325 Ardrey Kell RddSuite 600
Charlotte, NC 28277



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

Subject: **Structural Analysis Report**

Carrier Designation: **AT&T Mobility Co-Locate**
Carrier Site Number: CT5836
Carrier Site Name: PORTLAND CENTR

Crown Castle Designation: **Crown Castle BU Number:** 806382
Crown Castle Site Name: HRT 082 943274
Crown Castle JDE Job Number: 619211
Crown Castle Work Order Number: 1893795
Crown Castle Order Number: 528755 Rev. 0

Engineering Firm Designation: **Crown Castle Project Number:** 1893795

Site Data: **74 GOODRICH LANE, PORTLAND, Middlesex County, CT**
Latitude 41° 36' 29.9", Longitude -72° 35' 29.56"
160 Foot - Monopole Tower

Dear Cheryl Schultz,

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

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

LC5: Proposed Equipment Configuration **Sufficient Capacity - 79.5%**

This analysis utilizes an ultimate 3-second gust wind speed of 130 mph as required by the 2018 Connecticut Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Tyler Ho

Respectfully submitted by:

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

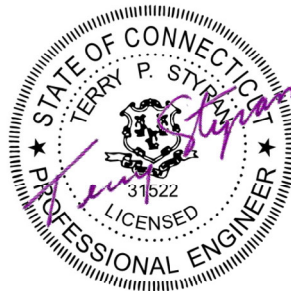


TABLE OF CONTENTS

1) INTRODUCTION

2) ANALYSIS CRITERIA

Table 1 - Proposed Equipment Configuration

Table 2 - Other Considered Equipment

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

3.1) Analysis Method

3.2) Assumptions

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Table 5 - Tower Component Stresses vs. Capacity - LC5

4.1) Recommendations

5) APPENDIX A

tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 160 ft Monopole tower designed by VALMONT. The tower has been modified per reinforcement drawings prepared by B+T Group, in May of 2013. Reinforcement consists of addition of reinforcing elements between elevations 42.5' – 52.5'. These modifications are deemed ineffective.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	130
Exposure Category:	B
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)
118.0	120.0	3	cci antennas	DMP65R-BU6D w/ Mount Pipe	12 4 6 2 1	1-1/4 3/4 5/16 3/8 2" Conduit
		3	cci antennas	OPA65R-BU6D w/ Mount Pipe		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 4478 B14_CCIV2		
		3	ericsson	RRUS 8843 B2/B66A_CCIV2		
		3	powerwave technologies	1001940		
		3	powerwave technologies	1001983		
		6	powerwave technologies	7020.00		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		6	powerwave technologies	LGP13519		
		4	powerwave technologies	LGP21401		
	2	raycap	DC6-48-60-18-8F			
	118.0	1	tower mounts	Platform Mount [LP 304-1_HR-1]		
	1	site pro 1	HRK13-3HD Handrail			

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)
158.0	160.0	6	andrew	SBNHH-1D65B w/ Mount Pipe	8	1-5/8
		2	decibel	DB846F65ZAXY w/ Mount Pipe		
		4	decibel	DB846H80E-SX w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		2	raycap	RRFDC-3315-PF-48		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
		158.0	tower mounts	Platform Mount [LP 713-1]		
150.0	152.0	3	alcatel lucent	1900MHZ RRH	4	1-1/4
		3	alcatel lucent	800MHZ RRH		
		3	alcatel lucent	RRH2X50-800		
		3	alcatel lucent	TD-RRH8X20-25		
		3	commscope	DT465B-2XR w/ Mount Pipe		
		3	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe		
		1	tower mounts	Platform Mount [LP 713-1]		
142.0	144.0	2		Radiowaves HP3-11	2	1/2 2" Conduit
	142.0	1	tower mounts	Side Arm Mount [SO 101-3]	2	
136.0	137.0	3	commscope	SBNH-1D65C-SR w/ Mount Pipe	7	1-5/8
		3	commscope	TMAT1921B78-21A		
		3	ericsson	ERICSSON AIR 21 B4A B2P w/ Mount Pipe		
		3	ericsson	RRUS 11 B12		
		3	ericsson	RRUS 11 B2		
	136.0	1	tower mounts	T-Arm Mount [TA 602-3]		
61.0	61.0	2	lucent	KS24019-L112A	1	1/2
		1	tower mounts	Side Arm Mount [SO 701-1]		
50.0	50.0	2	tower mounts	Side Arm Mount [SO 701-1]	-	-

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	TGG	1041653	CCISITES
4-POST-MODIFICATION INSPECTION	TEP	3996803	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Valmont	301226	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Valmont	255193	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	B+T Group	3865159	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.7.5), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 Standard.

3.2) Assumptions

- 1) 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 are not valid or have been made in error. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	160 - 123.667	Pole	TP29.05x18.87x0.188	1	-11.081	990.374	66.2	Pass
L2	123.667 - 76.25	Pole	TP41.95x27.461x0.313	2	-23.810	2474.062	68.6	Pass
L3	76.25 - 37	Pole	TP52.32x39.715x0.344	3	-35.249	3314.493	76.5	Pass
L4	37 - 0	Pole	TP62x49.672x0.406	4	-52.868	4687.798	70.1	Pass
							Summary	
						Pole (L3)	76.5	Pass
						Rating =	76.5	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC5

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	62.3	Pass
1	Base Plate	0	35.7	Pass
1	Base Foundation (Structure)	0	79.5	Pass
1	Base Foundation (Soil Interaction)	0	58.3	Pass

Structure Rating (max from all components) =	79.5%
---	--------------

Notes:

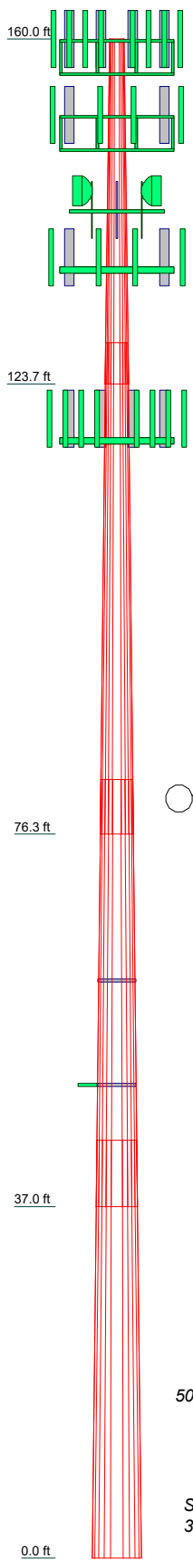
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

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

APPENDIX A
TNXTOWER OUTPUT

Section	1	2	3	4	
Length (ft)	36.333	51.750	45.000	44.000	
Number of Sides	12	12	12	12	
Thickness (in)	0.188	0.313	0.344	0.406	
Socket Length (ft)	4.333	5.750	7.000		
Top Dia (in)	18.870	27.461	39.715	49.672	
Bot Dia (in)	29.050	41.950	52.320	62.000	
Grade	A572-65				
Weight (K)	1.8	6.1	7.7	10.9	26.5

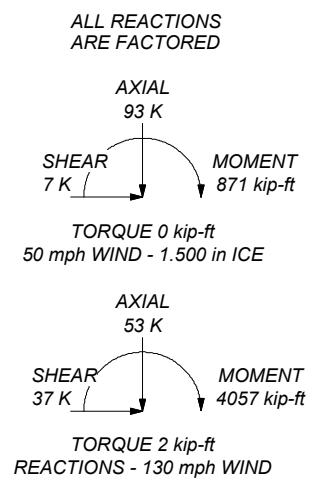



MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Middlesex County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 130 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 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 76.5%



 <p>CROWN CASTLE The Pathway To Possible</p>	<p>Crown Castle 2000 Corporate Drive Canonsburg, PA 15317 Phone: (724) 416-2000 FAX:</p>			<p>Job: 806382</p>
	Project:	Client: Crown Castle	Drawn by: THo	App'd:
	Code: TIA-222-H	Date: 11/14/20	Scale: NTS	Dwg No. E-1
	Path:	<p><small>C:\Users\THo\OneDrive - Crown Castle USA Inc\Desktop\PROJECTS\SPACE906382\WG 1893795 - SA\Prod806382 RPA.dwg</small></p>		
	<p>Path: <small>C:\Users\THo\OneDrive - Crown Castle USA Inc\Desktop\PROJECTS\SPACE906382\WG 1893795 - SA\Prod806382 RPA.dwg</small></p>			

Tower Input Data

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

- 1) Tower is located in Middlesex County, Connecticut.
- 2) Tower base elevation above sea level: 317.000 ft.
- 3) Basic wind speed of 130 mph.
- 4) Risk Category II.
- 5) Exposure Category B.
- 6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- 7) Topographic Category: 1.
- 8) Crest Height: 0.000 ft.
- 9) Nominal ice thickness of 1.500 in.
- 10) Ice thickness is considered to increase with height.
- 11) Ice density of 56.000 pcf.
- 12) A wind speed of 50 mph is used in combination with ice.
- 13) Temperature drop of 50.000 °F.
- 14) Deflections calculated using a wind speed of 60 mph.
- 15) TIA-222-H Annex S.
- 16) A non-linear (P-delta) analysis was used.
- 17) Pressures are calculated at each section.
- 18) Stress ratio used in pole design is 1.05.
- 19) Tower analysis based on target reliabilities in accordance with Annex S.
- 20) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- 21) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned ✓ Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension ✓ Bypass Mast Stability Checks ✓ Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination ✓ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <div style="text-align: center; background-color: #e0e0e0; padding: 2px;">Poles</div> ✓ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
--	---	---

Tapered Pole Section Geometry

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

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	160.000-123.667	36.333	4.333	12	18.870	29.050	0.188	0.750	A572-65 (65 ksi)
L2	123.667-76.250	51.750	5.750	12	27.461	41.950	0.313	1.250	A572-65 (65 ksi)
L3	76.250-37.000	45.000	7.000	12	39.715	52.320	0.344	1.375	A572-65 (65 ksi)
L4	37.000-0.000	44.000		12	49.672	62.000	0.406	1.625	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	19.470	11.280	502.514	6.688	9.775	51.410	1018.229	5.551	4.555	24.292
	30.009	17.426	1852.870	10.333	15.048	123.131	3754.417	8.576	7.283	38.842
L2	29.575	27.318	2569.965	9.719	14.225	180.668	5207.445	13.445	6.522	20.871
	43.320	41.898	9271.410	14.906	21.730	426.662	18786.390	20.621	10.405	33.296
L3	42.662	43.579	8622.350	14.095	20.572	419.122	17471.219	21.448	9.722	28.283
	54.044	57.531	19838.067	18.607	27.102	731.984	40197.302	28.315	13.101	38.111
L4	53.311	64.445	19964.737	17.637	25.730	775.933	40453.969	31.718	12.223	30.088
	64.044	80.572	39016.215	22.051	32.116	1214.853	79057.429	39.655	15.527	38.221

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
L1 160.000-123.667				1	1	1			
L2 123.667-76.250				1	1	1			
L3 76.250-37.000				1	1	1			
L4 37.000-0.000				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter r in	Weight klf
HB114-1-0813U4-M5F(1-1/4) ***	B	No	Surface Ar (CaAa)	150.000 - 0.000	4	4	0.300 0.500	1.540		0.001
2" Rigid Conduit	C	No	Surface Ar (CaAa)	142.000 - 0.000	2	2	0.100 0.200	2.000		0.003
HJ4-50(1/2") ***	C	No	Surface Ar (CaAa)	142.000 - 0.000	2	2	0.200 0.250	0.580		0.000
LDF6-50A(1-1/4")	A	No	Surface Ar (CaAa)	118.000 - 0.000	6	6	-0.490 -0.350	1.550		0.001
WR-VG86ST-BRD(3/4")	A	No	Surface Ar (CaAa)	118.000 - 0.000	2	1	-0.490 -0.350	0.795		0.001
FB-L98B-002-75000(3/8") ***	A	No	Surface Ar (CaAa)	118.000 - 0.000	7	7	-0.490 -0.350	0.394		0.000
Safety Line 3/8 ***	C	No	Surface Ar (CaAa)	160.000 - 0.000	1	1	-0.490 -0.480	0.375		0.000

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf

CCI-65FP-045100	A	No	Surface Af (CaAa)	52.500 - 42.500	1	1	0.450 0.500	4.500	11.000	0.000
CCI-65FP-045100	B	No	Surface Af (CaAa)	52.500 - 42.500	1	1	0.450 0.500	4.500	11.000	0.000
CCI-65FP-045100	C	No	Surface Af (CaAa)	52.500 - 42.500	1	1	0.450 0.500	4.500	11.000	0.000
*										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ff ² /ft	Weight klf
HB158-1-08U8-S8J18(1-5/8)	B	No	No	Inside Pole	158.000 - 0.000	8	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001

MLE Hybrid 9Power/18Fiber RL 2(1-5/8")	C	No	No	Inside Pole	136.000 - 0.000	7	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
LDF6-50A(1-1/4")	A	No	No	Inside Pole	118.000 - 0.000	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
FB-L98B-002-75000(3/8")	A	No	No	Inside Pole	118.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
WR-VG86ST-BRD(3/4")	A	No	No	Inside Pole	118.000 - 0.000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.001 0.001 0.001 0.001
* 2" Rigid Conduit	A	No	No	Inside Pole	118.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.003 0.003 0.003 0.003

LDF4-50A(1/2")	B	No	No	Inside Pole	61.000 - 0.000	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ff ²	A _F ff ²	C _A A _A In Face ff ²	C _A A _A Out Face ff ²	Weight K
L1	160.000-123.667	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	16.221	0.000	0.483
		C	0.000	0.000	10.822	0.000	0.212
L2	123.667-76.250	A	0.000	0.000	53.653	0.000	0.565
		B	0.000	0.000	29.209	0.000	0.721
		C	0.000	0.000	26.245	0.000	0.655

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L3	76.250-37.000	A	0.000	0.000	57.940	0.000	0.531
		B	0.000	0.000	31.678	0.000	0.600
		C	0.000	0.000	29.225	0.000	0.542
L4	37.000-0.000	A	0.000	0.000	47.548	0.000	0.500
		B	0.000	0.000	22.792	0.000	0.568
		C	0.000	0.000	20.480	0.000	0.511

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 _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	160.000-123.667	A	1.474	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	29.980	0.000	0.781
		C		0.000	0.000	37.409	0.000	0.577
L2	123.667-76.250	A	1.423	0.000	0.000	109.313	0.000	1.803
		B		0.000	0.000	53.984	0.000	1.257
		C		0.000	0.000	81.286	0.000	1.442
L3	76.250-37.000	A	1.345	0.000	0.000	110.530	0.000	1.733
		B		0.000	0.000	53.351	0.000	1.117
		C		0.000	0.000	75.048	0.000	1.252
L4	37.000-0.000	A	1.200	0.000	0.000	93.537	0.000	1.474
		B		0.000	0.000	40.932	0.000	0.944
		C		0.000	0.000	60.090	0.000	1.049

Feed Line Center of Pressure

Section	Elevation ft	CP _X in	CP _Z in	CP _X Ice in	CP _Z Ice in
L1	160.000-123.667	1.795	2.048	1.882	2.627
L2	123.667-76.250	-2.261	3.893	-2.122	4.169
L3	76.250-37.000	-2.674	4.024	-2.744	4.698
L4	37.000-0.000	-3.119	4.689	-3.224	5.496

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	6	HB114-1-0813U4-M5F(1-1/4)	123.67 - 150.00	1.0000	1.0000
L1	8	2" Rigid Conduit	123.67 - 142.00	1.0000	1.0000
L1	9	HJ4-50(1/2")	123.67 - 142.00	1.0000	1.0000
L1	25	Safety Line 3/8	123.67 - 160.00	1.0000	1.0000
L2	6	HB114-1-0813U4-M5F(1-1/4)	76.25 - 123.67	1.0000	1.0000
L2	8	2" Rigid Conduit	76.25 - 123.67	1.0000	1.0000
L2	9	HJ4-50(1/2")	76.25 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L2	13	LDF6-50A(1-1/4")	123.67 76.25 - 118.00	1.0000	1.0000
L2	17	WR-VG86ST-BRD(3/4")	76.25 - 118.00	1.0000	1.0000
L2	18	FB-L98B-002-75000(3/8")	76.25 - 118.00	1.0000	1.0000
L2	25	Safety Line 3/8	76.25 - 123.67	1.0000	1.0000
L3	6	HB114-1-0813U4-M5F(1-1/4)	37.00 - 76.25	1.0000	1.0000
L3	8	2" Rigid Conduit	37.00 - 76.25	1.0000	1.0000
L3	9	HJ4-50(1/2")	37.00 - 76.25	1.0000	1.0000
L3	13	LDF6-50A(1-1/4")	37.00 - 76.25	1.0000	1.0000
L3	17	WR-VG86ST-BRD(3/4")	37.00 - 76.25	1.0000	1.0000
L3	18	FB-L98B-002-75000(3/8")	37.00 - 76.25	1.0000	1.0000
L3	25	Safety Line 3/8	37.00 - 76.25	1.0000	1.0000
L3	31	CCI-65FP-045100	42.50 - 52.50	1.0000	1.0000
L3	32	CCI-65FP-045100	42.50 - 52.50	1.0000	1.0000
L3	33	CCI-65FP-045100	42.50 - 52.50	1.0000	1.0000
L4	6	HB114-1-0813U4-M5F(1-1/4)	0.00 - 37.00	1.0000	1.0000
L4	8	2" Rigid Conduit	0.00 - 37.00	1.0000	1.0000
L4	9	HJ4-50(1/2")	0.00 - 37.00	1.0000	1.0000
L4	13	LDF6-50A(1-1/4")	0.00 - 37.00	1.0000	1.0000
L4	17	WR-VG86ST-BRD(3/4")	0.00 - 37.00	1.0000	1.0000
L4	18	FB-L98B-002-75000(3/8")	0.00 - 37.00	1.0000	1.0000
L4	25	Safety Line 3/8	0.00 - 37.00	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L3	31	CCI-65FP-045100	42.50 - 52.50	Auto	0.0000
L3	32	CCI-65FP-045100	42.50 - 52.50	Auto	0.0000
L3	33	CCI-65FP-045100	42.50 - 52.50	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Lateral						ft	ft	ft^{2}	ft^{2}	K
(2) DB846H80E-SX w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	158.000	No Ice	4.120	6.380	0.052
			0.000				1/2"	4.760	7.050	0.104
			2.000				Ice	5.420	7.740	0.166
							1" Ice	6.780	9.170	0.325
							2" Ice			
(2) DB846H80E-SX w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	158.000	No Ice	4.120	6.380	0.052
			0.000				1/2"	4.760	7.050	0.104
			2.000				Ice	5.420	7.740	0.166
							1" Ice	6.780	9.170	0.325
							2" Ice			
(2) DB846F65ZAXY w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	158.000	No Ice	6.100	6.810	0.058
			0.000				1/2"	6.800	7.520	0.119
			2.000				Ice	7.510	8.240	0.191
							1" Ice	8.980	9.730	0.369
							2" Ice			
(2) SBNHH-1D65B w/ Mount Pipe	A	From Leg	4.000	0.000	0.000	158.000	No Ice	4.090	3.300	0.066
			0.000				1/2"	4.490	3.680	0.130
			2.000				Ice	4.890	4.070	0.204
							1" Ice	5.720	4.870	0.386
							2" Ice			
(2) SBNHH-1D65B w/ Mount Pipe	B	From Leg	4.000	0.000	0.000	158.000	No Ice	4.090	3.300	0.066
			0.000				1/2"	4.490	3.680	0.130
			2.000				Ice	4.890	4.070	0.204
							1" Ice	5.720	4.870	0.386
							2" Ice			
(2) SBNHH-1D65B w/ Mount Pipe	C	From Leg	4.000	0.000	0.000	158.000	No Ice	4.090	3.300	0.066
			0.000				1/2"	4.490	3.680	0.130
			2.000				Ice	4.890	4.070	0.204
							1" Ice	5.720	4.870	0.386
							2" Ice			
RRFDC-3315-PF-48	A	From Leg	4.000	0.000	0.000	158.000	No Ice	3.364	2.192	0.032
			0.000				1/2"	3.597	2.395	0.061
			2.000				Ice	3.838	2.606	0.093
							1" Ice	4.343	3.049	0.168
							2" Ice			
RRFDC-3315-PF-48	C	From Leg	4.000	0.000	0.000	158.000	No Ice	3.364	2.192	0.032
			0.000				1/2"	3.597	2.395	0.061
			2.000				Ice	3.838	2.606	0.093
							1" Ice	4.343	3.049	0.168
							2" Ice			
(2) RFV01U-D1A	A	From Leg	4.000	0.000	0.000	158.000	No Ice	1.875	1.250	0.084
			0.000				1/2"	2.045	1.393	0.103
			2.000				Ice	2.223	1.543	0.124
							1" Ice	2.601	1.865	0.175
							2" Ice			
RFV01U-D1A	B	From Leg	4.000	0.000	0.000	158.000	No Ice	1.875	1.250	0.084
			0.000				1/2"	2.045	1.393	0.103
			2.000				Ice	2.223	1.543	0.124
							1" Ice	2.601	1.865	0.175
							2" Ice			
RFV01U-D2A	B	From Leg	4.000	0.000	0.000	158.000	No Ice	1.875	1.013	0.070
			0.000				1/2"	2.045	1.145	0.087
			2.000				Ice	2.223	1.284	0.106
							1" Ice	2.601	1.585	0.153
							2" Ice			
(2) RFV01U-D2A	C	From Leg	4.000	0.000	0.000	158.000	No Ice	1.875	1.013	0.070
			0.000				1/2"	2.045	1.145	0.087
			2.000				Ice	2.223	1.284	0.106
							1" Ice	2.601	1.585	0.153
							2" Ice			
6' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	158.000	No Ice	1.425	1.425	0.022
			0.000				1/2"	1.925	1.925	0.033
			0.000				Ice	2.294	2.294	0.048
							1" Ice	3.060	3.060	0.090
							2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
Platform Mount [LP 713-1]	C	None		0.000	158.000	No Ice	32.890	32.890	1.510
						1/2" Ice	35.760	35.760	2.228
						1" Ice	38.760	38.760	3.026
						2" Ice	45.260	45.260	4.865

DT465B-2XR w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	5.500	4.380	0.091
						1/2" Ice	5.970	4.840	0.164
						1" Ice	6.450	5.300	0.248
						2" Ice	7.440	6.260	0.451
DT465B-2XR w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	5.500	4.380	0.091
						1/2" Ice	5.970	4.840	0.164
						1" Ice	6.450	5.300	0.248
						2" Ice	7.440	6.260	0.451
DT465B-2XR w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	5.500	4.380	0.091
						1/2" Ice	5.970	4.840	0.164
						1" Ice	6.450	5.300	0.248
						2" Ice	7.440	6.260	0.451
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	4.600	4.010	0.095
						1/2" Ice	5.050	4.450	0.160
						1" Ice	5.500	4.890	0.235
						2" Ice	6.440	5.820	0.419
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	4.600	4.010	0.095
						1/2" Ice	5.050	4.450	0.160
						1" Ice	5.500	4.890	0.235
						2" Ice	6.440	5.820	0.419
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	4.600	4.010	0.095
						1/2" Ice	5.050	4.450	0.160
						1" Ice	5.500	4.890	0.235
						2" Ice	6.440	5.820	0.419
TD-RRH8X20-25	A	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	4.045	1.535	0.070
						1/2" Ice	4.298	1.714	0.097
						1" Ice	4.557	1.901	0.128
						2" Ice	5.098	2.295	0.201
TD-RRH8X20-25	B	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	4.045	1.535	0.070
						1/2" Ice	4.298	1.714	0.097
						1" Ice	4.557	1.901	0.128
						2" Ice	5.098	2.295	0.201
TD-RRH8X20-25	C	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	4.045	1.535	0.070
						1/2" Ice	4.298	1.714	0.097
						1" Ice	4.557	1.901	0.128
						2" Ice	5.098	2.295	0.201
RRH2X50-800	A	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	1.701	1.282	0.053
						1/2" Ice	1.864	1.428	0.070
						1" Ice	2.035	1.580	0.090
						2" Ice	2.398	1.908	0.138
RRH2X50-800	B	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	1.701	1.282	0.053
						1/2" Ice	1.864	1.428	0.070
						1" Ice	2.035	1.580	0.090
						2" Ice	2.398	1.908	0.138
RRH2X50-800	C	From Leg	4.000 0.000 2.000	0.000	150.000	No Ice	1.701	1.282	0.053
						1/2" Ice	1.864	1.428	0.070
						1" Ice	2.035	1.580	0.090
						2" Ice	2.398	1.908	0.138

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Lateral						Vert	ft	ft^{2}	ft^{2}	K
			ft	ft	°	ft	ft ²	ft ²	K	
800MHZ RRH	A	From Leg	4.000	0.000	0.000	150.000	2" Ice			
							No Ice	2.134	1.773	0.053
							1/2"	2.320	1.946	0.074
							Ice	2.512	2.127	0.098
800MHZ RRH	B	From Leg	4.000	0.000	0.000	150.000	1" Ice	2.920	2.510	0.157
							2" Ice			
							No Ice	2.134	1.773	0.053
							1/2"	2.320	1.946	0.074
800MHZ RRH	C	From Leg	4.000	0.000	0.000	150.000	Ice	2.512	2.127	0.098
							1" Ice	2.920	2.510	0.157
							2" Ice			
							No Ice	2.134	1.773	0.053
1900MHZ RRH	A	From Leg	4.000	0.000	0.000	150.000	1/2"	2.320	1.946	0.074
							Ice	2.512	2.127	0.098
							1" Ice	2.920	2.510	0.157
							2" Ice			
1900MHZ RRH	B	From Leg	4.000	0.000	0.000	150.000	No Ice	2.492	3.258	0.044
							1/2"	2.695	3.484	0.075
							Ice	2.906	3.718	0.110
							1" Ice	3.351	4.206	0.192
1900MHZ RRH	C	From Leg	4.000	0.000	0.000	150.000	2" Ice			
							No Ice	2.492	3.258	0.044
							1/2"	2.695	3.484	0.075
							Ice	2.906	3.718	0.110
(2) 6' x 2" Mount Pipe	A	From Leg	4.000	0.000	0.000	150.000	1" Ice	3.351	4.206	0.192
							2" Ice			
							No Ice	1.425	1.425	0.022
							1/2"	1.925	1.925	0.033
(2) 6' x 2" Mount Pipe	B	From Leg	4.000	0.000	0.000	150.000	Ice	2.294	2.294	0.048
							1" Ice	3.060	3.060	0.090
							2" Ice			
							No Ice	1.425	1.425	0.022
(2) 6' x 2" Mount Pipe	C	From Leg	4.000	0.000	0.000	150.000	1/2"	1.925	1.925	0.033
							Ice	2.294	2.294	0.048
							1" Ice	3.060	3.060	0.090
							2" Ice			
L 2.5x2.5x1/4x12'	A	From Leg	4.000	0.000	0.000	153.000	No Ice	5.000	0.500	0.062
							1/2"	6.363	1.842	0.079
							Ice	7.738	3.196	0.106
							1" Ice	10.525	5.941	0.191
L 2.5x2.5x1/4x12'	B	From Leg	4.000	0.000	0.000	153.000	2" Ice			
							No Ice	5.000	0.500	0.062
							1/2"	6.363	1.842	0.079
							Ice	7.738	3.196	0.106
L 2.5x2.5x1/4x12'	C	From Leg	4.000	0.000	0.000	153.000	1" Ice	10.525	5.941	0.191
							2" Ice			
							No Ice	5.000	0.500	0.062
							1/2"	6.363	1.842	0.079
8' x 2.875" Mount Pipe	A	From Leg	4.000	0.000	0.000	150.000	Ice	7.738	3.196	0.106
							1" Ice	10.525	5.941	0.191
							2" Ice			
							No Ice	2.300	2.300	0.061
							1/2"	3.132	3.132	0.078
							Ice	3.620	3.620	0.100
							1" Ice	4.620	4.620	0.161
							2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
8' x 2.875" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	150.000	2" Ice			
						No Ice	2.300	2.300	0.061
						1/2"	3.132	3.132	0.078
						Ice	3.620	3.620	0.100
						1" Ice	4.620	4.620	0.161
8' x 2.875" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	150.000	2" Ice			
						No Ice	2.300	2.300	0.061
						1/2"	3.132	3.132	0.078
						Ice	3.620	3.620	0.100
						1" Ice	4.620	4.620	0.161
Platform Mount [LP 713-1]	C	None		0.000	150.000	2" Ice			
						No Ice	32.890	32.890	1.510
						1/2"	35.760	35.760	2.228
						Ice	38.760	38.760	3.026
						1" Ice	45.260	45.260	4.865

(2) 6' x 3" Mount Pipe	A	From Leg	2.000 0.000 0.000	0.000	142.000	2" Ice			
						No Ice	1.767	1.767	0.030
						1/2"	2.129	2.129	0.044
						Ice	2.501	2.501	0.061
						1" Ice	3.272	3.272	0.109
(2) 6' x 3" Mount Pipe	B	From Leg	2.000 0.000 0.000	0.000	142.000	2" Ice			
						No Ice	1.767	1.767	0.030
						1/2"	2.129	2.129	0.044
						Ice	2.501	2.501	0.061
						1" Ice	3.272	3.272	0.109
(2) 6' x 3" Mount Pipe	C	From Leg	2.000 0.000 0.000	0.000	142.000	2" Ice			
						No Ice	1.767	1.767	0.030
						1/2"	2.129	2.129	0.044
						Ice	2.501	2.501	0.061
						1" Ice	3.272	3.272	0.109
4' x 2" Horizontal Face Mount Pipe	B	From Face	0.500 0.000 0.000	0.000	145.000	2" Ice			
						No Ice	0.870	0.010	0.015
						1/2"	1.110	0.050	0.022
						Ice	1.370	0.100	0.032
						1" Ice	1.900	0.240	0.061
4' x 2" Horizontal Face Mount Pipe	C	From Face	0.500 0.000 0.000	0.000	145.000	2" Ice			
						No Ice	0.870	0.010	0.015
						1/2"	1.110	0.050	0.022
						Ice	1.370	0.100	0.032
						1" Ice	1.900	0.240	0.061
J-Box - 1' x 1' x 4"	C	From Leg	0.500 0.000 0.000	0.000	145.000	2" Ice			
						No Ice	2.133	1.200	0.020
						1/2"	2.315	1.343	0.039
						Ice	2.504	1.493	0.061
						1" Ice	2.904	1.815	0.114
Side Arm Mount [SO 101-3]	C	None		0.000	142.000	2" Ice			
						No Ice	5.810	5.810	0.252
						1/2"	6.950	6.950	0.341
						Ice	8.280	8.280	0.457
						1" Ice	11.540	11.540	0.780

ERICSSON AIR 21 B4A B2P w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	136.000	2" Ice			
						No Ice	6.329	5.642	0.112
						1/2"	6.775	6.426	0.169
						Ice	7.214	7.131	0.233
						1" Ice	8.117	8.591	0.383
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	136.000	2" Ice			
						No Ice	6.329	5.642	0.112
						1/2"	6.775	6.426	0.169
						Ice	7.214	7.131	0.233
						1" Ice	8.117	8.591	0.383
ERICSSON AIR 21 B4A B2P w/ Mount Pipe	C	From Leg	4.000 0.000	0.000	136.000	2" Ice			
						No Ice	6.329	5.642	0.112
						1/2"	6.775	6.426	0.169

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			1.000			Ice 7.214	7.131	0.233
						1" Ice 8.117	8.591	0.383
						2" Ice		
SBNH-1D65C-SR w/ Mount Pipe	A	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 5.560 1/2" 6.070 Ice 6.590 1" Ice 7.660	4.470 4.970 5.480 6.520	0.083 0.165 0.260 0.493
SBNH-1D65C-SR w/ Mount Pipe	B	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 5.560 1/2" 6.070 Ice 6.590 1" Ice 7.660 2" Ice	4.470 4.970 5.480 6.520	0.083 0.165 0.260 0.493
SBNH-1D65C-SR w/ Mount Pipe	C	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 5.560 1/2" 6.070 Ice 6.590 1" Ice 7.660 2" Ice	4.470 4.970 5.480 6.520	0.083 0.165 0.260 0.493
TMAT1921B78-21A	A	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 0.652 1/2" 0.755 Ice 0.864 1" Ice 1.105 2" Ice	0.300 0.376 0.459 0.648	0.018 0.023 0.030 0.050
TMAT1921B78-21A	B	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 0.652 1/2" 0.755 Ice 0.864 1" Ice 1.105 2" Ice	0.300 0.376 0.459 0.648	0.018 0.023 0.030 0.050
TMAT1921B78-21A	C	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 0.652 1/2" 0.755 Ice 0.864 1" Ice 1.105 2" Ice	0.300 0.376 0.459 0.648	0.018 0.023 0.030 0.050
RRUS 11 B12	A	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 2.833 1/2" 3.043 Ice 3.259 1" Ice 3.715 2" Ice	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
RRUS 11 B12	B	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 2.833 1/2" 3.043 Ice 3.259 1" Ice 3.715 2" Ice	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
RRUS 11 B12	C	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 2.833 1/2" 3.043 Ice 3.259 1" Ice 3.715 2" Ice	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
RRUS 11 B2	A	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 2.833 1/2" 3.043 Ice 3.259 1" Ice 3.715 2" Ice	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
RRUS 11 B2	B	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 2.833 1/2" 3.043 Ice 3.259 1" Ice 3.715 2" Ice	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
RRUS 11 B2	C	From Leg	4.000 0.000 1.000	0.000	136.000	No Ice 2.833 1/2" 3.043 Ice 3.259 1" Ice 3.715 2" Ice	1.182 1.330 1.485 1.826	0.051 0.072 0.095 0.153
T-Arm Mount [TA 602-3]	C	None		0.000	136.000	No Ice 13.400 1/2" 16.440	13.400 16.440	0.774 1.004

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
						Ice	19.700	19.700	1.292
						1" Ice	25.860	25.860	2.053
						2" Ice			

7770.00 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	5.746	4.254	0.055
						1/2"	6.179	5.014	0.103
						Ice	6.607	5.711	0.157
						1" Ice	7.488	7.155	0.287
						2" Ice			
7770.00 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	5.746	4.254	0.055
						1/2"	6.179	5.014	0.103
						Ice	6.607	5.711	0.157
						1" Ice	7.488	7.155	0.287
						2" Ice			
7770.00 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	5.746	4.254	0.055
						1/2"	6.179	5.014	0.103
						Ice	6.607	5.711	0.157
						1" Ice	7.488	7.155	0.287
						2" Ice			
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	11.960	5.970	0.115
						1/2"	12.700	6.630	0.201
						Ice	13.460	7.300	0.298
						1" Ice	15.020	8.690	0.529
						2" Ice			
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	11.960	5.970	0.115
						1/2"	12.700	6.630	0.201
						Ice	13.460	7.300	0.298
						1" Ice	15.020	8.690	0.529
						2" Ice			
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	11.960	5.970	0.115
						1/2"	12.700	6.630	0.201
						Ice	13.460	7.300	0.298
						1" Ice	15.020	8.690	0.529
						2" Ice			
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	12.250	6.050	0.089
						1/2"	13.000	6.710	0.176
						Ice	13.760	7.390	0.275
						1" Ice	15.340	8.790	0.508
						2" Ice			
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	12.250	6.050	0.089
						1/2"	13.000	6.710	0.176
						Ice	13.760	7.390	0.275
						1" Ice	15.340	8.790	0.508
						2" Ice			
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	12.250	6.050	0.089
						1/2"	13.000	6.710	0.176
						Ice	13.760	7.390	0.275
						1" Ice	15.340	8.790	0.508
						2" Ice			
RRUS 4449 B5/B12	A	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	1.968	1.408	0.071
						1/2"	2.144	1.564	0.090
						Ice	2.328	1.727	0.111
						1" Ice	2.718	2.075	0.163
						2" Ice			
RRUS 4449 B5/B12	B	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	1.968	1.408	0.071
						1/2"	2.144	1.564	0.090
						Ice	2.328	1.727	0.111
						1" Ice	2.718	2.075	0.163
						2" Ice			
RRUS 4449 B5/B12	C	From Leg	4.000 0.000 2.000	0.000	118.000	No Ice	1.968	1.408	0.071
						1/2"	2.144	1.564	0.090
						Ice	2.328	1.727	0.111
						1" Ice	2.718	2.075	0.163
						2" Ice			
RRUS 4478 B14_CCIV2	A	From Leg	4.000	0.000	118.000	No Ice	2.021	1.246	0.059

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral						Vert	ft	ft^{2}	ft^{2}	K
			ft	ft	°	ft	ft ²	ft ²	K
			0.000			1/2"	2.200	1.396	0.077
			2.000			Ice	2.386	1.554	0.097
						1" Ice	2.780	1.891	0.147
						2" Ice			
RRUS 4478 B14_CCIV2	B	From Leg	4.000	0.000	118.000	No Ice	2.021	1.246	0.059
			0.000			1/2"	2.200	1.396	0.077
			2.000			Ice	2.386	1.554	0.097
						1" Ice	2.780	1.891	0.147
						2" Ice			
RRUS 4478 B14_CCIV2	C	From Leg	4.000	0.000	118.000	No Ice	2.021	1.246	0.059
			0.000			1/2"	2.200	1.396	0.077
			2.000			Ice	2.386	1.554	0.097
						1" Ice	2.780	1.891	0.147
						2" Ice			
RRUS 8843 B2/B66A_CCIV2	A	From Leg	4.000	0.000	118.000	No Ice	1.980	1.695	0.075
			0.000			1/2"	2.157	1.861	0.096
			2.000			Ice	2.341	2.035	0.119
						1" Ice	2.733	2.405	0.176
						2" Ice			
RRUS 8843 B2/B66A_CCIV2	B	From Leg	4.000	0.000	118.000	No Ice	1.980	1.695	0.075
			0.000			1/2"	2.157	1.861	0.096
			2.000			Ice	2.341	2.035	0.119
						1" Ice	2.733	2.405	0.176
						2" Ice			
RRUS 8843 B2/B66A_CCIV2	C	From Leg	4.000	0.000	118.000	No Ice	1.980	1.695	0.075
			0.000			1/2"	2.157	1.861	0.096
			2.000			Ice	2.341	2.035	0.119
						1" Ice	2.733	2.405	0.176
						2" Ice			
1001940	A	From Leg	4.000	0.000	118.000	No Ice	0.176	0.083	0.002
			0.000			1/2"	0.232	0.126	0.004
			2.000			Ice	0.295	0.178	0.006
						1" Ice	0.444	0.304	0.015
						2" Ice			
1001940	B	From Leg	4.000	0.000	118.000	No Ice	0.176	0.083	0.002
			0.000			1/2"	0.232	0.126	0.004
			2.000			Ice	0.295	0.178	0.006
						1" Ice	0.444	0.304	0.015
						2" Ice			
1001940	C	From Leg	4.000	0.000	118.000	No Ice	0.176	0.083	0.002
			0.000			1/2"	0.232	0.126	0.004
			2.000			Ice	0.295	0.178	0.006
						1" Ice	0.444	0.304	0.015
						2" Ice			
1001983	A	From Leg	4.000	0.000	118.000	No Ice	0.176	0.083	0.002
			0.000			1/2"	0.232	0.126	0.004
			2.000			Ice	0.295	0.178	0.006
						1" Ice	0.444	0.304	0.015
						2" Ice			
1001983	B	From Leg	4.000	0.000	118.000	No Ice	0.176	0.083	0.002
			0.000			1/2"	0.232	0.126	0.004
			2.000			Ice	0.295	0.178	0.006
						1" Ice	0.444	0.304	0.015
						2" Ice			
1001983	C	From Leg	4.000	0.000	118.000	No Ice	0.176	0.083	0.002
			0.000			1/2"	0.232	0.126	0.004
			2.000			Ice	0.295	0.178	0.006
						1" Ice	0.444	0.304	0.015
						2" Ice			
(2) 7020.00	A	From Leg	4.000	0.000	118.000	No Ice	0.102	0.175	0.002
			0.000			1/2"	0.147	0.239	0.005
			2.000			Ice	0.199	0.311	0.009
						1" Ice	0.326	0.476	0.022
						2" Ice			
(2) 7020.00	B	From Leg	4.000	0.000	118.000	No Ice	0.102	0.175	0.002

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
			0.000			1/2"	0.147	0.239	0.005
			2.000			Ice	0.199	0.311	0.009
						1" Ice	0.326	0.476	0.022
						2" Ice			
(2) 7020.00	C	From Leg	4.000	0.000	118.000	No Ice	0.102	0.175	0.002
			0.000			1/2"	0.147	0.239	0.005
			2.000			Ice	0.199	0.311	0.009
						1" Ice	0.326	0.476	0.022
						2" Ice			
(2) LGP13519	A	From Leg	4.000	0.000	118.000	No Ice	0.290	0.181	0.005
			0.000			1/2"	0.362	0.241	0.008
			2.000			Ice	0.441	0.310	0.012
						1" Ice	0.622	0.473	0.024
						2" Ice			
(2) LGP13519	B	From Leg	4.000	0.000	118.000	No Ice	0.290	0.181	0.005
			0.000			1/2"	0.362	0.241	0.008
			2.000			Ice	0.441	0.310	0.012
						1" Ice	0.622	0.473	0.024
						2" Ice			
(2) LGP13519	C	From Leg	4.000	0.000	118.000	No Ice	0.290	0.181	0.005
			0.000			1/2"	0.362	0.241	0.008
			2.000			Ice	0.441	0.310	0.012
						1" Ice	0.622	0.473	0.024
						2" Ice			
LGP21401	A	From Leg	4.000	0.000	118.000	No Ice	1.104	0.207	0.014
			0.000			1/2"	1.239	0.274	0.021
			2.000			Ice	1.381	0.348	0.030
						1" Ice	1.688	0.521	0.055
						2" Ice			
LGP21401	A	From Leg	4.000	0.000	118.000	No Ice	1.104	0.207	0.014
			0.000			1/2"	1.239	0.274	0.021
			2.000			Ice	1.381	0.348	0.030
						1" Ice	1.688	0.521	0.055
						2" Ice			
LGP21401	B	From Leg	4.000	0.000	118.000	No Ice	1.104	0.207	0.014
			0.000			1/2"	1.239	0.274	0.021
			2.000			Ice	1.381	0.348	0.030
						1" Ice	1.688	0.521	0.055
						2" Ice			
LGP21401	C	From Leg	4.000	0.000	118.000	No Ice	1.104	0.207	0.014
			0.000			1/2"	1.239	0.274	0.021
			2.000			Ice	1.381	0.348	0.030
						1" Ice	1.688	0.521	0.055
						2" Ice			
DC6-48-60-18-8F	A	From Leg	4.000	0.000	118.000	No Ice	1.212	1.212	0.020
			0.000			1/2"	1.892	1.892	0.042
			2.000			Ice	2.105	2.105	0.067
						1" Ice	2.570	2.570	0.126
						2" Ice			
DC6-48-60-18-8F	C	From Leg	4.000	0.000	118.000	No Ice	1.212	1.212	0.020
			0.000			1/2"	1.892	1.892	0.042
			2.000			Ice	2.105	2.105	0.067
						1" Ice	2.570	2.570	0.126
						2" Ice			
3' x 2" Pipe Mount	A	From Leg	4.000	0.000	118.000	No Ice	0.583	0.583	0.011
			0.000			1/2"	0.770	0.770	0.017
			2.000			Ice	0.967	0.967	0.024
						1" Ice	1.388	1.388	0.047
						2" Ice			
3' x 2" Pipe Mount	B	From Leg	4.000	0.000	118.000	No Ice	0.583	0.583	0.011
			0.000			1/2"	0.770	0.770	0.017
			2.000			Ice	0.967	0.967	0.024
						1" Ice	1.388	1.388	0.047
						2" Ice			
(2) 3' x 2" Pipe Mount	C	From Leg	4.000	0.000	118.000	No Ice	0.583	0.583	0.011

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Lateral						Vert	ft	ft^{2}	ft^{2}	K
			ft	ft	°	ft	ft ²	ft ²	K
			0.000			1/2"	0.770	0.770	0.017
			2.000			Ice	0.967	0.967	0.024
						1" Ice	1.388	1.388	0.047
						2" Ice			
Platform Mount [LP 304-1_HR-1]	C	None			0.000	No Ice	21.410	21.410	1.605
						1/2"	26.620	26.620	2.056
						Ice	31.660	31.660	2.598
						1" Ice	41.380	41.380	3.958
						2" Ice			

KS24019-L112A	A	From Leg	3.000		0.000	No Ice	0.100	0.100	0.005
			0.000			1/2"	0.180	0.180	0.006
			0.000			Ice	0.260	0.260	0.008
						1" Ice	0.420	0.420	0.011
						2" Ice			
2' x 2" Pipe Mount	A	From Leg	3.000		0.000	No Ice	0.023	0.023	0.007
			0.000			1/2"	0.049	0.049	0.008
			0.000			Ice	0.085	0.085	0.009
						1" Ice	0.186	0.186	0.013
						2" Ice			
Side Arm Mount [SO 701-1]	A	From Leg	1.500		0.000	No Ice	0.850	1.670	0.065
			0.000			1/2"	1.140	2.340	0.079
			0.000			Ice	1.430	3.010	0.093
						1" Ice	2.010	4.350	0.121
						2" Ice			

2' x 2" Pipe Mount	A	From Leg	3.000		0.000	No Ice	0.023	0.023	0.007
			0.000			1/2"	0.049	0.049	0.008
			0.000			Ice	0.085	0.085	0.009
						1" Ice	0.186	0.186	0.013
						2" Ice			
2' x 2" Pipe Mount	C	From Leg	3.000		0.000	No Ice	0.023	0.023	0.007
			0.000			1/2"	0.049	0.049	0.008
			0.000			Ice	0.085	0.085	0.009
						1" Ice	0.186	0.186	0.013
						2" Ice			
Side Arm Mount [SO 701-1]	A	From Leg	1.500		0.000	No Ice	0.850	1.670	0.065
			0.000			1/2"	1.140	2.340	0.079
			0.000			Ice	1.430	3.010	0.093
						1" Ice	2.010	4.350	0.121
						2" Ice			
Side Arm Mount [SO 701-1]	C	From Leg	1.500		0.000	No Ice	0.850	1.670	0.065
			0.000			1/2"	1.140	2.340	0.079
			0.000			Ice	1.430	3.010	0.093
						1" Ice	2.010	4.350	0.121
						2" Ice			

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz	Lateral							Vert	ft	ft	ft^{2}	K
			ft	ft	°	°	ft	ft	ft ²	K		
Radiowaves HP3-11	B	Paraboloid w/Shroud (HP)	From Leg	2.000		70.000		142.000	3.167	No Ice	7.876	0.050
				0.000						1/2" Ice	8.296	0.093
				2.000						1" Ice	8.716	0.135
										2" Ice	9.556	0.220

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K
Radiowaves HP3-11	C	Paraboloid w/Shroud (HP)	From Leg	2.000 0.000 2.000	78.000		142.000	3.167	No Ice 1/2" Ice 1" Ice 2" Ice	0.050 0.093 0.135 0.220

Load Combinations

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	160 - 123.667	Pole	Max Tension	2	0.000	-0.001	-0.000
			Max. Compression	26	-29.688	0.862	-0.823
			Max. Mx	8	-11.109	-358.178	0.479
			Max. My	2	-11.088	-1.306	359.511
			Max. Vy	8	16.769	-358.178	0.479
			Max. Vx	2	-16.910	-1.306	359.511
L2	123.667 - 76.25	Pole	Max. Torque	9			-1.678
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.806	2.427	-0.442
			Max. Mx	8	-23.831	-1420.511	-2.032
			Max. My	2	-23.814	-1.171	1429.754
			Max. Vy	8	26.661	-1420.511	-2.032
L3	76.25 - 37	Pole	Max. Vx	2	-26.835	-1.171	1429.754
			Max. Torque	9			-1.675
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.536	3.972	0.454
			Max. Mx	8	-35.258	-2525.640	-3.753
			Max. My	2	-35.251	-0.785	2541.584
L4	37 - 0	Pole	Max. Vy	8	31.533	-2525.640	-3.753
			Max. Vx	2	-31.661	-0.785	2541.584
			Max. Torque	9			-1.576
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-93.154	5.513	0.692
			Max. Mx	8	-52.868	-4029.372	-6.726
			Max. My	2	-52.868	-0.180	4050.777
			Max. Vy	8	36.808	-4029.372	-6.726
			Max. Vx	2	-36.932	-0.180	4050.777
			Max. Torque	15			-1.538

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	35	93.154	6.462	-3.746
	Max. H _x	20	52.887	36.737	-0.021
	Max. H _z	2	52.887	0.012	36.905
	Max. M _x	2	4050.777	0.012	36.905
	Max. M _z	8	4029.372	-36.782	-0.063
	Max. Torsion	3	1.109	0.012	36.905
	Min. Vert	23	39.665	31.709	18.484
	Min. H _x	8	52.887	-36.782	-0.063
	Min. H _z	14	52.887	-0.073	-36.879
	Min. M _x	14	-4046.842	-0.073	-36.879
	Min. M _z	20	-4024.119	36.737	-0.021
	Min. Torsion	15	-1.537	-0.073	-36.879

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	44.072	0.000	0.000	-0.054	0.588	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	52.887	-0.012	-36.905	-4050.777	-0.180	-1.107
0.9 Dead+1.0 Wind 0 deg -	39.665	-0.012	-36.905	-4011.652	-0.338	-1.109

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
No Ice						
1.2 Dead+1.0 Wind 30 deg - No Ice	52.887	18.358	-32.052	-3523.168	-2011.664	-0.824
0.9 Dead+1.0 Wind 30 deg - No Ice	39.665	18.358	-32.052	-3489.101	-1992.416	-0.826
1.2 Dead+1.0 Wind 60 deg - No Ice	52.887	31.822	-18.568	-2045.099	-3485.899	0.324
0.9 Dead+1.0 Wind 60 deg - No Ice	39.665	31.822	-18.568	-2025.289	-3452.432	0.323
1.2 Dead+1.0 Wind 90 deg - No Ice	52.887	36.782	0.063	6.726	-4029.372	1.247
0.9 Dead+1.0 Wind 90 deg - No Ice	39.665	36.782	0.063	6.692	-3990.674	1.247
1.2 Dead+1.0 Wind 120 deg - No Ice	52.887	31.810	18.509	2031.462	-3481.543	1.349
0.9 Dead+1.0 Wind 120 deg - No Ice	39.665	31.810	18.509	2011.869	-3448.139	1.350
1.2 Dead+1.0 Wind 150 deg - No Ice	52.887	18.316	31.963	3507.101	-2000.686	1.413
0.9 Dead+1.0 Wind 150 deg - No Ice	39.665	18.316	31.963	3473.256	-1981.591	1.414
1.2 Dead+1.0 Wind 180 deg - No Ice	52.887	0.073	36.879	4046.842	-7.538	1.535
0.9 Dead+1.0 Wind 180 deg - No Ice	39.665	0.073	36.879	4007.788	-7.656	1.537
1.2 Dead+1.0 Wind 210 deg - No Ice	52.887	-18.295	31.967	3510.332	2003.673	1.007
0.9 Dead+1.0 Wind 210 deg - No Ice	39.665	-18.295	31.967	3476.430	1984.148	1.009
1.2 Dead+1.0 Wind 240 deg - No Ice	52.887	-31.824	18.484	2032.377	3487.833	-0.205
0.9 Dead+1.0 Wind 240 deg - No Ice	39.665	-31.824	18.484	2012.738	3453.976	-0.204
1.2 Dead+1.0 Wind 270 deg - No Ice	52.887	-36.737	0.021	5.837	4024.119	-0.995
0.9 Dead+1.0 Wind 270 deg - No Ice	39.665	-36.737	0.021	5.771	3985.112	-0.995
1.2 Dead+1.0 Wind 300 deg - No Ice	52.887	-31.709	-18.484	-2027.862	3467.785	-0.714
0.9 Dead+1.0 Wind 300 deg - No Ice	39.665	-31.709	-18.484	-2008.274	3434.167	-0.714
1.2 Dead+1.0 Wind 330 deg - No Ice	52.887	-18.256	-31.973	-3508.637	1993.125	-0.846
0.9 Dead+1.0 Wind 330 deg - No Ice	39.665	-18.256	-31.973	-3474.744	1973.750	-0.847
1.2 Dead+1.0 Ice+1.0 Temp	93.154	-0.000	0.000	-0.692	5.513	0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	93.154	-0.004	-7.485	-870.053	5.764	-0.285
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	93.154	3.727	-6.497	-756.244	-426.422	-0.248
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	93.154	6.462	-3.761	-438.817	-743.148	-0.032
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	93.154	7.469	0.013	0.660	-859.825	0.169
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	93.154	6.462	3.754	435.193	-742.492	0.240
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	93.154	3.723	6.484	752.069	-424.672	0.302
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	93.154	0.015	7.481	867.942	4.154	0.359
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	93.154	-3.716	6.483	752.517	436.286	0.279
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	93.154	-6.462	3.746	435.118	754.807	0.052
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	93.154	-7.461	0.001	0.219	870.183	-0.125
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	93.154	-6.445	-3.750	-435.933	751.310	-0.129
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	93.154	-3.713	-6.486	-753.742	434.617	-0.204

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	44.072	-0.002	-7.404	-808.478	0.432	-0.225
Dead+Wind 30 deg - Service	44.072	3.683	-6.430	-703.180	-401.016	-0.167
Dead+Wind 60 deg - Service	44.072	6.384	-3.725	-408.184	-695.235	0.066
Dead+Wind 90 deg - Service	44.072	7.379	0.013	1.306	-803.693	0.254
Dead+Wind 120 deg - Service	44.072	6.382	3.713	405.387	-694.357	0.275
Dead+Wind 150 deg - Service	44.072	3.675	6.413	699.886	-398.821	0.287
Dead+Wind 180 deg - Service	44.072	0.015	7.399	807.612	-1.038	0.312
Dead+Wind 210 deg - Service	44.072	-3.670	6.413	700.532	400.349	0.204
Dead+Wind 240 deg - Service	44.072	-6.385	3.708	405.569	696.546	-0.042
Dead+Wind 270 deg - Service	44.072	-7.370	0.004	1.125	803.572	-0.203
Dead+Wind 300 deg - Service	44.072	-6.362	-3.708	-404.740	692.538	-0.145
Dead+Wind 330 deg - Service	44.072	-3.663	-6.415	-700.268	398.245	-0.172

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-44.072	0.000	0.000	44.072	0.000	0.000%
2	-0.012	-52.887	-36.905	0.012	52.887	36.905	0.000%
3	-0.012	-39.665	-36.905	0.012	39.665	36.905	0.000%
4	18.358	-52.887	-32.052	-18.358	52.887	32.052	0.000%
5	18.358	-39.665	-32.052	-18.358	39.665	32.052	0.000%
6	31.822	-52.887	-18.568	-31.822	52.887	18.568	0.000%
7	31.822	-39.665	-18.568	-31.822	39.665	18.568	0.000%
8	36.782	-52.887	0.063	-36.782	52.887	-0.063	0.000%
9	36.782	-39.665	0.063	-36.782	39.665	-0.063	0.000%
10	31.810	-52.887	18.509	-31.810	52.887	-18.509	0.000%
11	31.810	-39.665	18.509	-31.810	39.665	-18.509	0.000%
12	18.316	-52.887	31.963	-18.316	52.887	-31.963	0.000%
13	18.316	-39.665	31.963	-18.316	39.665	-31.963	0.000%
14	0.073	-52.887	36.879	-0.073	52.887	-36.879	0.000%
15	0.073	-39.665	36.879	-0.073	39.665	-36.879	0.000%
16	-18.295	-52.887	31.967	18.295	52.887	-31.967	0.000%
17	-18.295	-39.665	31.967	18.295	39.665	-31.967	0.000%
18	-31.824	-52.887	18.484	31.824	52.887	-18.484	0.000%
19	-31.824	-39.665	18.484	31.824	39.665	-18.484	0.000%
20	-36.737	-52.887	0.021	36.737	52.887	-0.021	0.000%
21	-36.737	-39.665	0.021	36.737	39.665	-0.021	0.000%
22	-31.709	-52.887	-18.484	31.709	52.887	18.484	0.000%
23	-31.709	-39.665	-18.484	31.709	39.665	18.484	0.000%
24	-18.256	-52.887	-31.973	18.256	52.887	31.973	0.000%
25	-18.256	-39.665	-31.973	18.256	39.665	31.973	0.000%
26	0.000	-93.154	0.000	0.000	93.154	-0.000	0.000%
27	-0.004	-93.154	-7.485	0.004	93.154	7.485	0.000%
28	3.727	-93.154	-6.497	-3.727	93.154	6.497	0.000%
29	6.462	-93.154	-3.761	-6.462	93.154	3.761	0.000%
30	7.469	-93.154	0.013	-7.469	93.154	-0.013	0.000%
31	6.462	-93.154	3.754	-6.462	93.154	-3.754	0.000%
32	3.723	-93.154	6.484	-3.723	93.154	-6.484	0.000%
33	0.015	-93.154	7.481	-0.015	93.154	-7.481	0.000%
34	-3.716	-93.154	6.483	3.716	93.154	-6.483	0.000%
35	-6.462	-93.154	3.746	6.462	93.154	-3.746	0.000%
36	-7.461	-93.154	0.001	7.461	93.154	-0.001	0.000%
37	-6.444	-93.154	-3.750	6.445	93.154	3.750	0.000%
38	-3.713	-93.154	-6.486	3.713	93.154	6.486	0.000%
39	-0.002	-44.072	-7.404	0.002	44.072	7.404	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
40	3.683	-44.072	-6.430	-3.683	44.072	6.430	0.000%
41	6.384	-44.072	-3.725	-6.384	44.072	3.725	0.000%
42	7.379	-44.072	0.013	-7.379	44.072	-0.013	0.000%
43	6.382	-44.072	3.713	-6.382	44.072	-3.713	0.000%
44	3.675	-44.072	6.413	-3.675	44.072	-6.413	0.000%
45	0.015	-44.072	7.399	-0.015	44.072	-7.399	0.000%
46	-3.670	-44.072	6.413	3.670	44.072	-6.413	0.000%
47	-6.385	-44.072	3.708	6.385	44.072	-3.708	0.000%
48	-7.370	-44.072	0.004	7.370	44.072	-0.004	0.000%
49	-6.362	-44.072	-3.708	6.362	44.072	3.708	0.000%
50	-3.663	-44.072	-6.415	3.663	44.072	6.415	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00049987
3	Yes	4	0.00000001	0.00028449
4	Yes	5	0.00000001	0.00067486
5	Yes	5	0.00000001	0.00029231
6	Yes	5	0.00000001	0.00067608
7	Yes	5	0.00000001	0.00029280
8	Yes	4	0.00000001	0.00080145
9	Yes	4	0.00000001	0.00049064
10	Yes	5	0.00000001	0.00069484
11	Yes	5	0.00000001	0.00030291
12	Yes	5	0.00000001	0.00065479
13	Yes	5	0.00000001	0.00028386
14	Yes	4	0.00000001	0.00063745
15	Yes	4	0.00000001	0.00038046
16	Yes	5	0.00000001	0.00068513
17	Yes	5	0.00000001	0.00029793
18	Yes	5	0.00000001	0.00068666
19	Yes	5	0.00000001	0.00029828
20	Yes	4	0.00000001	0.00071560
21	Yes	4	0.00000001	0.00043294
22	Yes	5	0.00000001	0.00066110
23	Yes	5	0.00000001	0.00028708
24	Yes	5	0.00000001	0.00068032
25	Yes	5	0.00000001	0.00029643
26	Yes	4	0.00000001	0.00002012
27	Yes	5	0.00000001	0.00032696
28	Yes	5	0.00000001	0.00036682
29	Yes	5	0.00000001	0.00036610
30	Yes	5	0.00000001	0.00032293
31	Yes	5	0.00000001	0.00036629
32	Yes	5	0.00000001	0.00036456
33	Yes	5	0.00000001	0.00032741
34	Yes	5	0.00000001	0.00037211
35	Yes	5	0.00000001	0.00037204
36	Yes	5	0.00000001	0.00032771
37	Yes	5	0.00000001	0.00036819
38	Yes	5	0.00000001	0.00037007
39	Yes	4	0.00000001	0.00004276
40	Yes	4	0.00000001	0.00016092
41	Yes	4	0.00000001	0.00016094
42	Yes	4	0.00000001	0.00005058
43	Yes	4	0.00000001	0.00018079
44	Yes	4	0.00000001	0.00015156
45	Yes	4	0.00000001	0.00004793
46	Yes	4	0.00000001	0.00017253
47	Yes	4	0.00000001	0.00017137
48	Yes	4	0.00000001	0.00004707
49	Yes	4	0.00000001	0.00015691

50 Yes 4 0.00000001 0.00017166

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160 - 123.667	19.987	40	1.213	0.003
L2	128 - 76.25	12.345	40	0.996	0.002
L3	82 - 37	4.655	40	0.573	0.000
L4	44 - 0	1.265	40	0.264	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
158.000	(2) DB846H80E-SX w/ Mount Pipe	40	19.486	1.200	0.003	34304
153.000	L 2.5x2.5x1/4x12'	40	18.236	1.169	0.003	24503
150.000	DT465B-2XR w/ Mount Pipe	40	17.491	1.150	0.003	17152
145.000	4' x 2" Horizontal Face Mount Pipe	40	16.265	1.118	0.002	11434
144.000	Radiowaves HP3-11	40	16.023	1.111	0.002	10720
142.000	(2) 6' x 3" Mount Pipe	40	15.542	1.098	0.002	9528
136.000	ERICSSON AIR 21 B4A B2P w/ Mount Pipe	40	14.131	1.056	0.002	7146
118.000	7770.00 w/ Mount Pipe	40	10.306	0.912	0.001	5625
61.000	KS24019-L112A	40	2.463	0.392	0.000	6719
50.000	2' x 2" Pipe Mount	40	1.628	0.307	0.000	6675

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160 - 123.667	100.200	4	6.094	0.018
L2	128 - 76.25	61.912	4	5.004	0.008
L3	82 - 37	23.350	4	2.878	0.002
L4	44 - 0	6.342	4	1.326	0.001

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
158.000	(2) DB846H80E-SX w/ Mount Pipe	4	97.688	6.032	0.017	6990
153.000	L 2.5x2.5x1/4x12'	4	91.427	5.875	0.015	4993
150.000	DT465B-2XR w/ Mount Pipe	4	87.698	5.780	0.014	3494
145.000	4' x 2" Horizontal Face Mount Pipe	4	81.556	5.617	0.012	2328
144.000	Radiowaves HP3-11	4	80.341	5.584	0.012	2182
142.000	(2) 6' x 3" Mount Pipe	4	77.930	5.517	0.011	1939
136.000	ERICSSON AIR 21 B4A B2P w/ Mount Pipe	4	70.859	5.307	0.010	1453

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
118.000	7770.00 w/ Mount Pipe	4	51.688	4.580	0.006	1136
61.000	KS24019-L112A	4	12.353	1.967	0.001	1342
50.000	2' x 2" Pipe Mount	4	8.166	1.542	0.001	1332

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
L1	160 - 123.667 (1)	TP29.05x18.87x0.188	36.333	0.000	0.0	16.693	-11.081	943.213	0.012
L2	123.667 - 76.25 (2)	TP41.95x27.461x0.313	51.750	0.000	0.0	40.278	-23.810	2356.250	0.010
L3	76.25 - 37 (3)	TP52.32x39.715x0.344	45.000	0.000	0.0	55.361	-35.249	3156.660	0.011
L4	37 - 0 (4)	TP62x49.672x0.406	44.000	0.000	0.0	80.572	-52.868	4464.570	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{nx} kip-ft	Ratio M _{ux} / φM _{nx}	M _{uy} kip-ft	φM _{ny} kip-ft	Ratio M _{uy} / φM _{ny}
L1	160 - 123.667 (1)	TP29.05x18.87x0.188	361.581	531.888	0.680	0.000	531.888	0.000
L2	123.667 - 76.25 (2)	TP41.95x27.461x0.313	1433.408	2023.500	0.708	0.000	2023.500	0.000
L3	76.25 - 37 (3)	TP52.32x39.715x0.344	2546.400	3219.825	0.791	0.000	3219.825	0.000
L4	37 - 0 (4)	TP62x49.672x0.406	4057.033	5609.658	0.723	0.000	5609.658	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V _u K	φV _n K	Ratio V _u / φV _n	Actual T _u kip-ft	φT _n kip-ft	Ratio T _u / φT _n
L1	160 - 123.667 (1)	TP29.05x18.87x0.188	16.954	292.958	0.058	0.223	712.485	0.000
L2	123.667 - 76.25 (2)	TP41.95x27.461x0.313	26.870	706.875	0.038	0.511	2488.867	0.000
L3	76.25 - 37 (3)	TP52.32x39.715x0.344	31.694	971.584	0.033	0.824	4274.492	0.000
L4	37 - 0 (4)	TP62x49.672x0.406	36.964	1414.040	0.026	0.824	7661.250	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P _u / φP _n	Ratio M _{ux} / φM _{nx}	Ratio M _{uy} / φM _{ny}	Ratio V _u / φV _n	Ratio T _u / φT _n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	160 - 123.667	0.012	0.680	0.000	0.058	0.000	0.695	1.050	4.8.2

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
	(1)								
L2	123.667 - 76.25 (2)	0.010	0.708	0.000	0.038	0.000	0.720	1.050	4.8.2
L3	76.25 - 37 (3)	0.011	0.791	0.000	0.033	0.000	0.803	1.050	4.8.2
L4	37 - 0 (4)	0.012	0.723	0.000	0.026	0.000	0.736	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	160 - 123.667	Pole	TP29.05x18.87x0.188	1	-11.081	990.374	66.2	Pass
L2	123.667 - 76.25	Pole	TP41.95x27.461x0.313	2	-23.810	2474.062	68.6	Pass
L3	76.25 - 37	Pole	TP52.32x39.715x0.344	3	-35.249	3314.493	76.5	Pass
L4	37 - 0	Pole	TP62x49.672x0.406	4	-52.868	4687.798	70.1	Pass
Summary								
Pole (L3)							76.5	Pass
RATING =							76.5	Pass

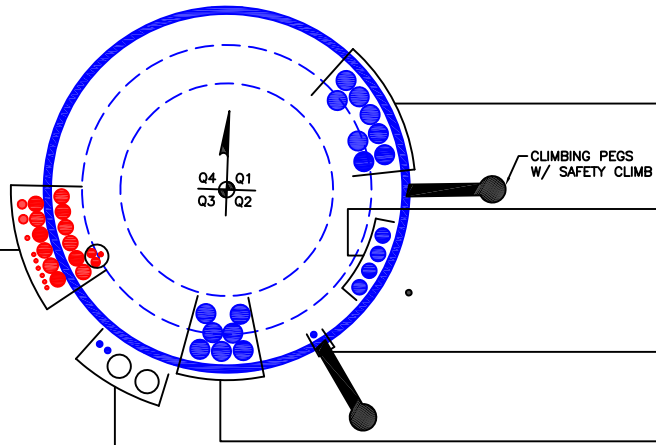
APPENDIX B
BASE LEVEL DRAWING



(PROPOSED EQUIPMENT CONFIGURATION—IN 2" CONDUIT)
(1) 3/8" TO 118 FT LEVEL
(2) 3/4" TO 118 FT LEVEL
(PROPOSED EQUIPMENT CONFIGURATION)
(6) 5/16" TO 118 FT LEVEL
(1) 3/8" TO 118 FT LEVEL
(2) 3/4" TO 118 FT LEVEL
(12) 1-1/4" TO 118 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(2) 2" CONDUITS TO 142 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(2) 1/2" TO 142 FT LEVEL



(OTHER CONSIDERED EQUIPMENT)
(8) 1-5/8" TO 158 FT LEVEL

CLIMBING PEGS
W/ SAFETY CLIMB

(OTHER CONSIDERED EQUIPMENT)
(4) 1-1/4" TO 150 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 61 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(7) 1-5/8" TO 136 FT LEVEL

APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Base Plate Connection

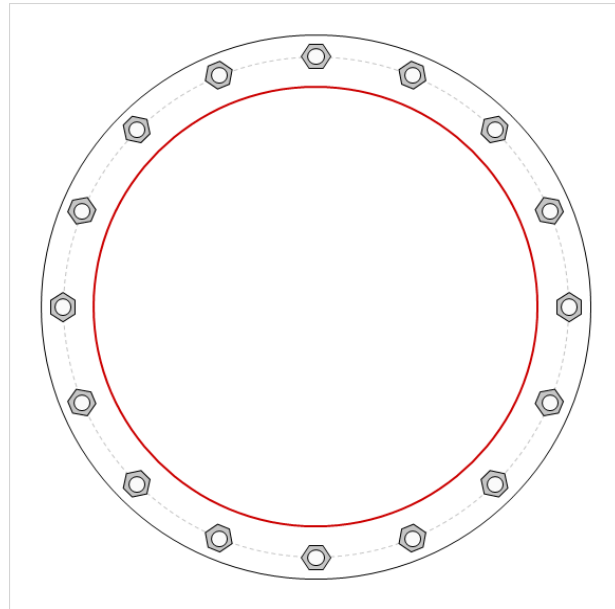


Site Info	
BU #	806382
Site Name	HRT 082 943274
Order #	528755 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.75

Applied Loads	
Moment (kip-ft)	4057.03
Axial Force (kips)	52.87
Shear Force (kips)	36.96

*TIA-222-H Section 15.5 Applied



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

Anchor Rod Data
(16) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 70.69" BC
Base Plate Data
76.69" OD x 2.75" Plate (S-128; $F_y=60$ ksi, $F_u=80$ ksi)
Stiffener Data
N/A
Pole Data
62" x 0.40625" 12-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Anchor Rod Summary	<i>(units of kips, kip-in)</i>	
$Pu_c = 175.41$	$\phi Pn_c = 268.39$	Stress Rating
$Vu = 2.31$	$\phi Vn = 120.77$	62.3%
$Mu = n/a$	$\phi Mn = n/a$	Pass
Base Plate Summary		
Max Stress (ksi):	20.24	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	35.7%	Pass

Drilled Pier Foundation



BU # :	806382
Site Name:	HRT 082 943274
Order Number:	528755 Rev. 0

TIA-222 Revision:	H
Tower Type:	Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	4057	
Axial Force (kips)	53	
Shear Force (kips)	37	

Material Properties	
Concrete Strength, f'c:	4 ksi
Rebar Strength, Fy:	60 ksi
Tie Yield Strength, Fyt:	40 ksi

Pier Design Data	
Depth	20 ft
Ext. Above Grade	0.5 ft
Pier Section 1	
<i>From 0.5' above grade to 20' below grade</i>	
Pier Diameter	7.5 ft
Rebar Quantity	36
Rebar Size	11
Clear Cover to Ties	4 in
Tie Size	5
Tie Spacing	in

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

Analysis Results		
Soil Lateral Check		
	Compression	Uplift
D _{v=0} (ft from TOC)	5.00	-
Soil Safety Factor	2.17	-
Max Moment (kip-ft)	4193.35	-
Rating*	58.3%	-
Soil Vertical Check		
	Compression	Uplift
Skin Friction (kips)	390.26	-
End Bearing (kips)	1079.34	-
Weight of Concrete (kips)	163.02	-
Total Capacity (kips)	1469.60	-
Axial (kips)	216.02	-
Rating*	14.0%	-
Reinforced Concrete Flexure		
	Compression	Uplift
Critical Depth (ft from TOC)	4.66	-
Critical Moment (kip-ft)	4192.38	-
Critical Moment Capacity	9388.88	-
Rating*	42.5%	-
Reinforced Concrete Shear		
	Compression	Uplift
Critical Depth (ft from TOC)	15.28	-
Critical Shear (kip)	610.42	-
Critical Shear Capacity	797.49	-
Rating*	72.9%	-
Soil Interaction Rating*		58.3%
Structural Foundation Rating*		72.9%

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	<input checked="" type="checkbox"/>
	N/A <input type="checkbox"/>
Shear Design Options	
Check Shear along Depth of Pier:	<input checked="" type="checkbox"/>
Utilize Shear-Friction Methodology:	<input type="checkbox"/>

[Go to Soil Calculations](#)

Soil Profile			
Groundwater Depth	N/A	# of Layers	4

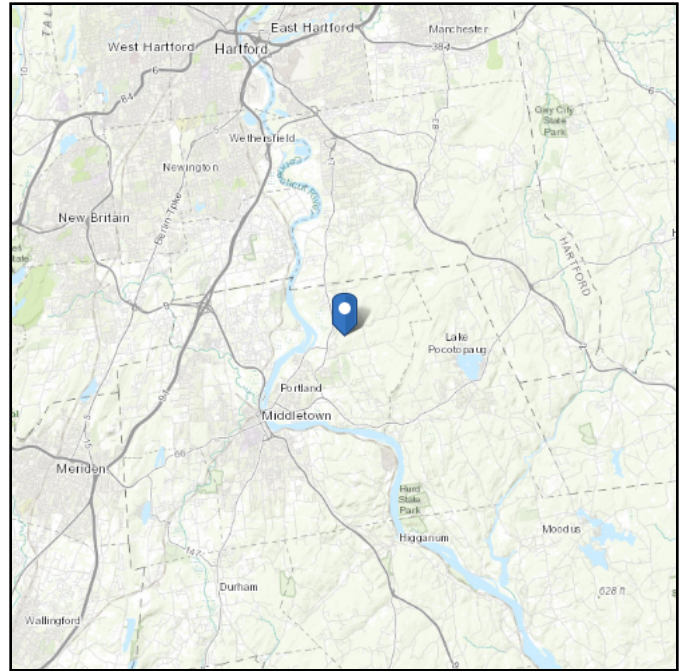
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	Y _{soil} (pcf)	Y _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	1	1	100	150	0	0	0.000	0.000					Cohesionless
2	1	6	5	110	150		34	0.187	0.187				6	Cohesionless
3	6	9.5	3.5	115	150		38	0.702	0.702				11	Cohesionless
4	9.5	20	10.5	145	150		45	1.780	1.780			32.575	50	Cohesionless

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 316.81 ft (NAVD 88)
Latitude: 41.608306
Longitude: -72.591544



Wind

Results:

Wind Speed:	125 Vmph 130 Vmph per JDJ
10-year MRI	77 Vmph
25-year MRI	87 Vmph
50-year MRI	94 Vmph
100-year MRI	102 Vmph

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

Date Accessed: Thu Nov 12 2020

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

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

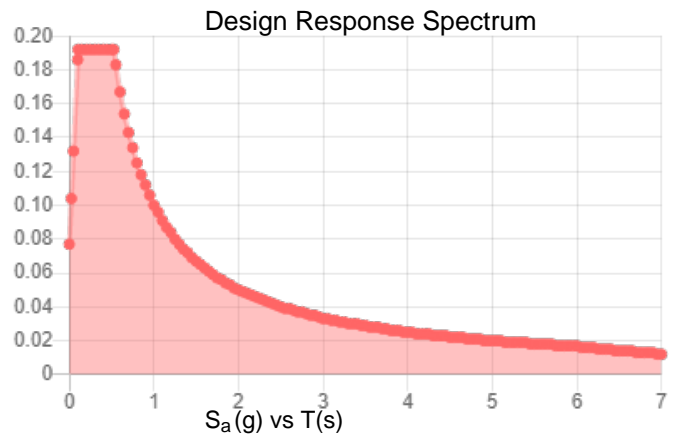
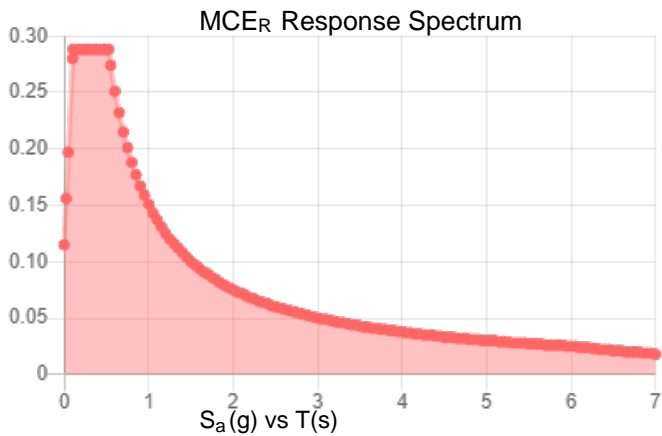
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.18	S_{DS} :	0.192
S_1 :	0.063	S_{D1} :	0.1
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.091
S_{MS} :	0.288	PGA _M :	0.146
S_{M1} :	0.151	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Thu Nov 12 2020

Date Source:

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

Ice

Results:

Ice Thickness: 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: Thu Nov 12 2020

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

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

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

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

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

Exhibit E

Mount Analysis

November 12, 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: CT5836
Client Site Name: Portland Centr

Crown Castle Designation: **Crown Castle BU Number:** 806382
Crown Castle Site Name: HRT 082 943274
Crown Castle JDE Job Number: 619211
Crown Castle Order Number: 528755 Rev. 0

Engineering Firm Designation: **TEP Project Number:** 47567.451774

Site Data: 74 Goodrich Lane, Portland, Middlesex County, CT 06480
Latitude 41° 36' 29.90", Longitude -72° 35' 29.56"

Structure Information: **Tower Height & Type:** 160± ft Monopole
Mount Elevation: 118 ft
Mount Width & Type: 14.0 ft Platform w/ Support Rail

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 w/ Support Rail Mount

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

The analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 130 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Nicholas P. Danyluk / CKL

Respectfully submitted by:

Aaron T. Rucker, P.E.
Structural Division Manager
919-661-6351
arucker@tepgroup.net



TABLE OF CONTENTS

1) INTRODUCTION

2) ANALYSIS CRITERIA

Table 1 - Proposed Equipment Configuration

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

3.1) Analysis Method

3.2) Assumptions

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity

Table 4 - Tieback Connection Data Table

4.1) Recommendations

5) APPENDIX A

Wire Frame and Rendered Models

6) APPENDIX B

Software Input Calculations

7) APPENDIX C

Software Analysis Output

8) APPENDIX D

Additional Calculations

1) INTRODUCTION

The mount is an existing 14.0-ft 3-sector Platform w/ Support Rail mount, mapped by Tower Engineering Professionals. The mount is installed at the 118 ft elevation on the 160± ft Monopole

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	130 mph
Exposure Category:	B
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:	0.180
Seismic S₁:	0.063
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
118	120	3	CCI	DMP65R-BU6D	Platform w/ Support Rail Mount
		3	CCI	OPA65R-BU6D	
		3	Powerwave	7770.00	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 4478 B14_CCIV2	
		3	Ericsson	RRUS 8843 B2/B66A_CCIV2	
		3	Powerwave	1001940	
		3	Powerwave	1001983	
		6	Powerwave	7020.00	
		6	Powerwave	LGP13519	
		4	Powerwave	LGP21401	
		2	Raycap	DC6-48-60-18-8F	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Mount Mapping	Tower Engineering Professionals	9342134	CCIsites
Loading Application	AT&T Mobility	Order 528755 Rev. 0	CCIsites

3.1) Analysis Method

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

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

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

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

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

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

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FF-TH	118	39.9	Pass
1	Handrails	SRC-2	118	39.5	Pass
1	Support Arm	SA-3	118	55.7	Pass
1	Internal	GSI-2A	118	28.1	Pass
1	Threaded Rod Connection	M54	118	65.7	Pass
1	Mount Pipes	MP-8	118	64.9	Pass
2	Connection Bolts	-	118	31.8	Pass
2	Connection Plate	-	118	67.4	Pass

Structure Rating (max from all components) =	67.4%
---	--------------

Notes:

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

Table 4 - Tieback Connection Data Table

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

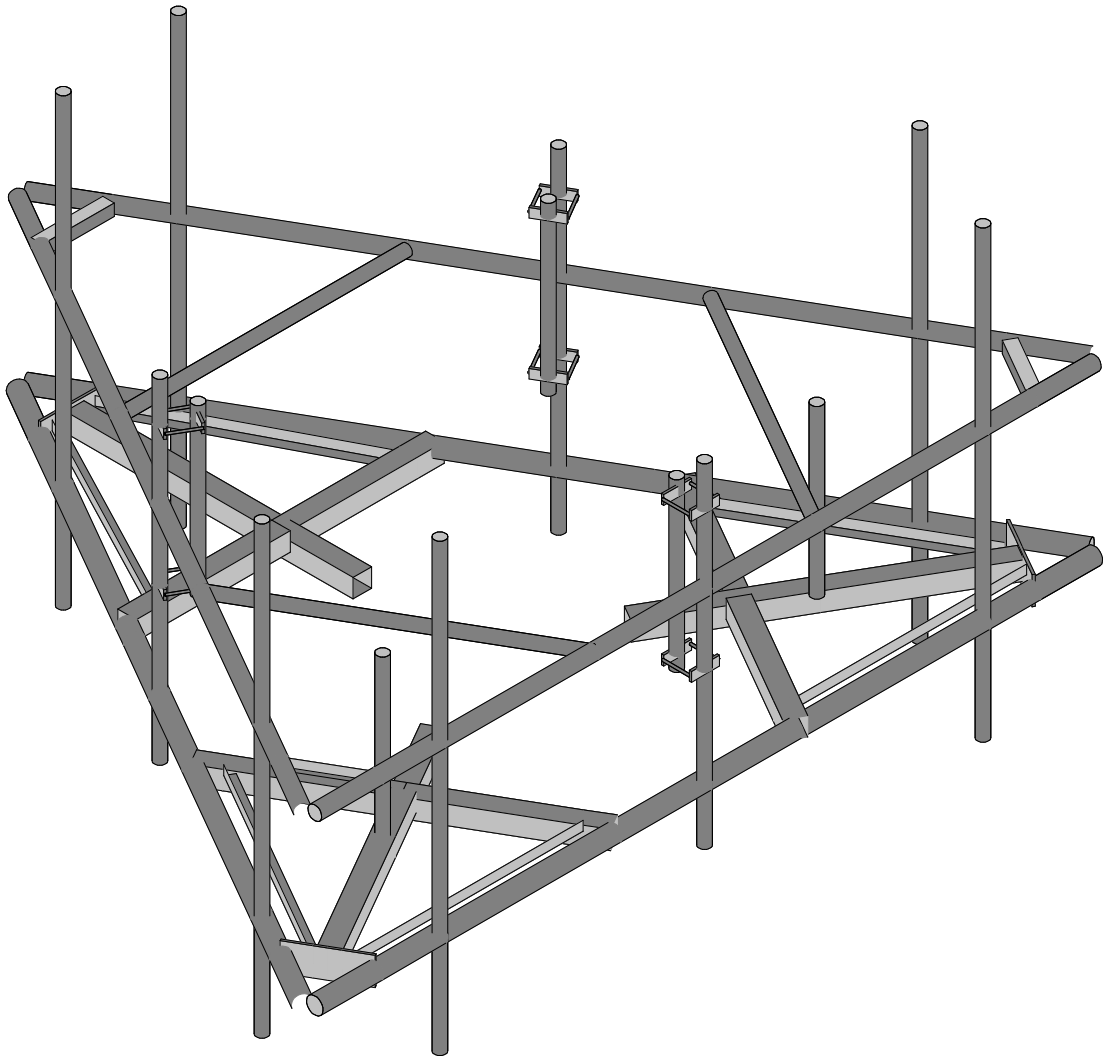
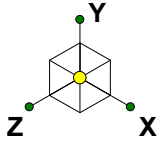
Notes:

- 1) Tieback connection point is within 25% of either end of the connected tower member.
- 2) Tower connection point is NOT within 25% of either end of the connected tower member.
- 3) 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. In order for the results of this analysis to be valid, the mount modifications listed below must be completed:
 - a) Install SitePro HRK14-3HD, or Approved Equivalent, Handrail 3-ft above the existing platform.
- 3) Engineering detail drawings have been provided in Appendix E - Mount Modification Design Drawings. Connection from the mount to the tower and local stresses on the tower are sufficient.

APPENDIX A
WIRE FRAME AND RENDERED MODELS

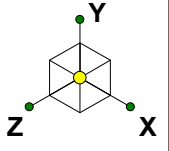


Envelope Only Solution

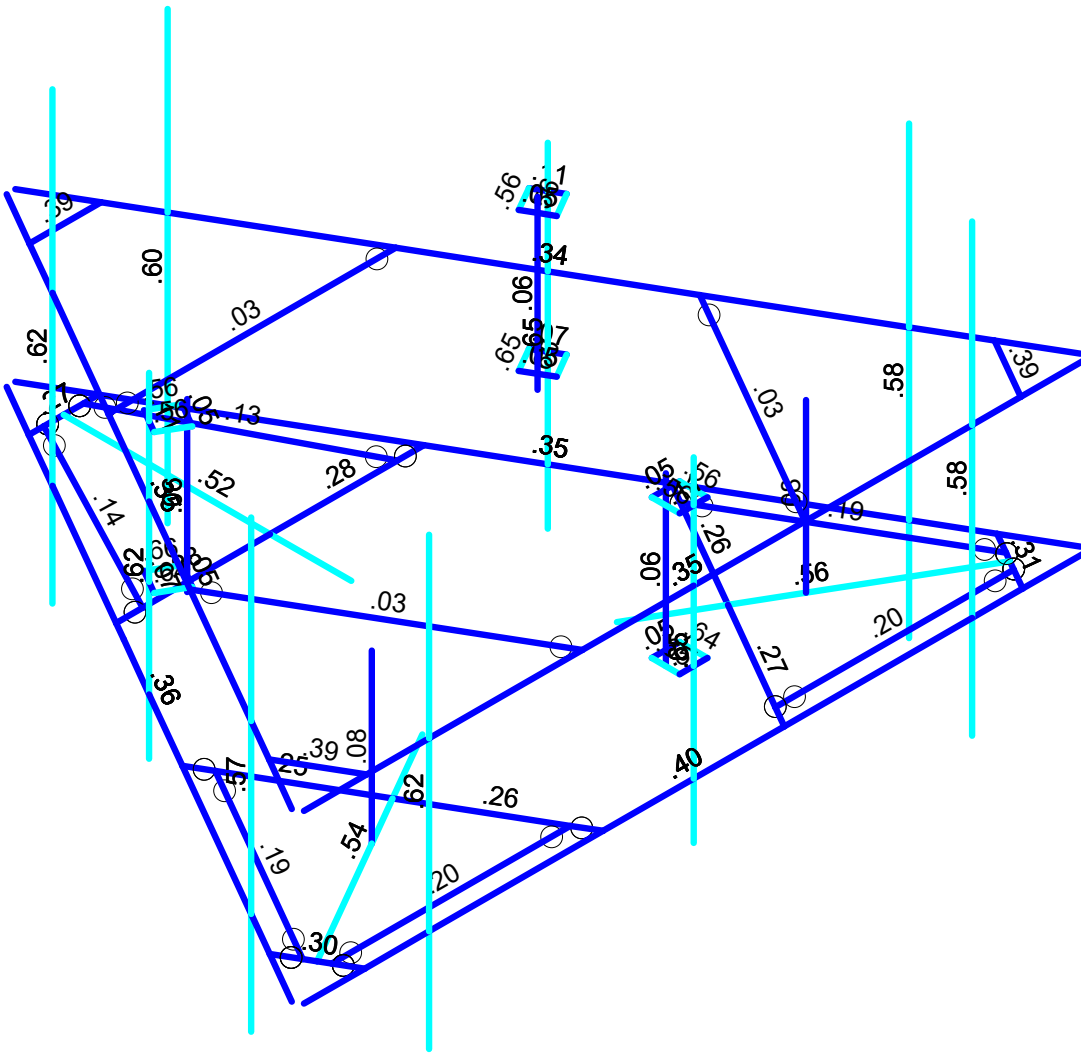
Tower Engineering Profes...
NPD
TEP No. 47567.451774

CCI BU No.806382

SK - 1
Nov 12, 2020 at 9:56 AM
Mount Rev H.r3d

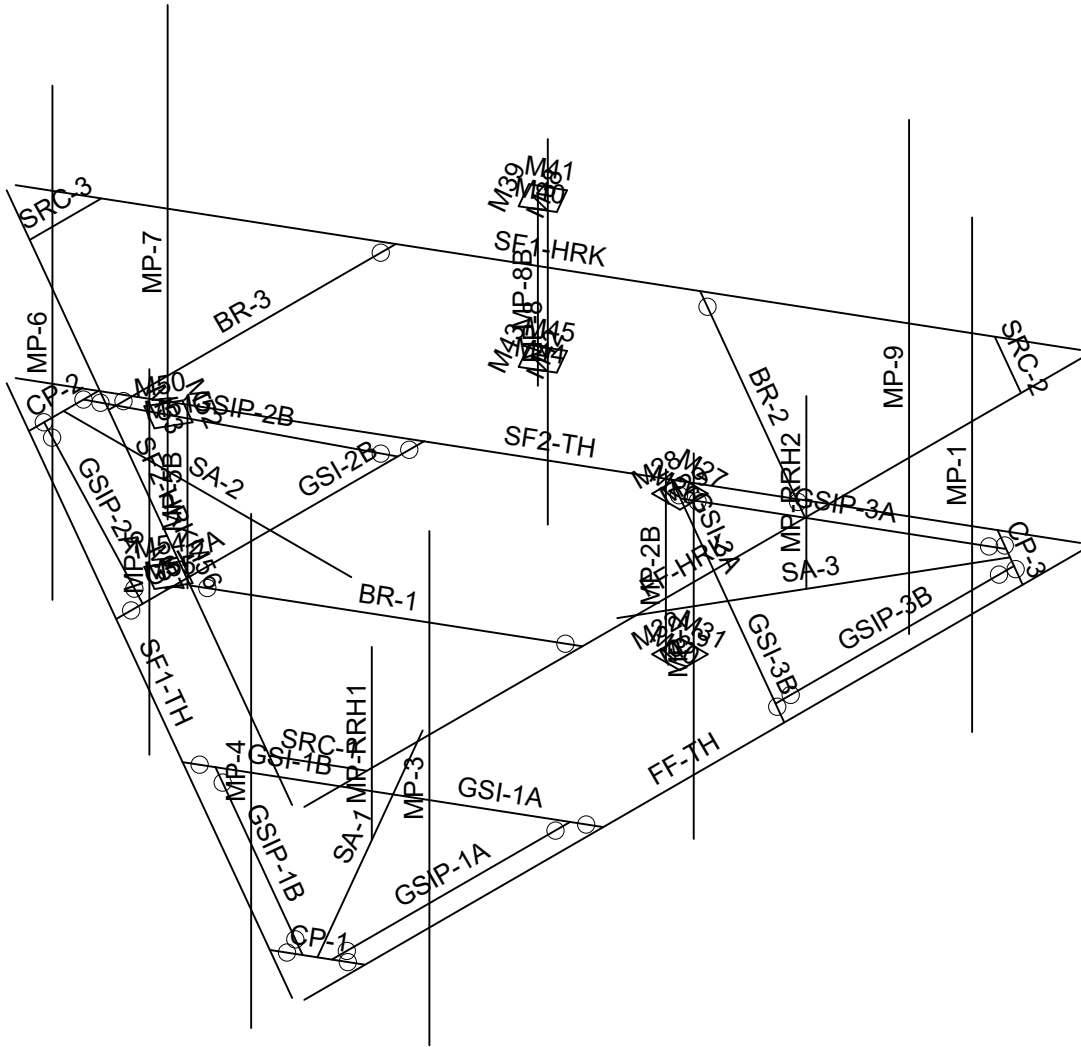
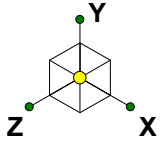


Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0.-.50



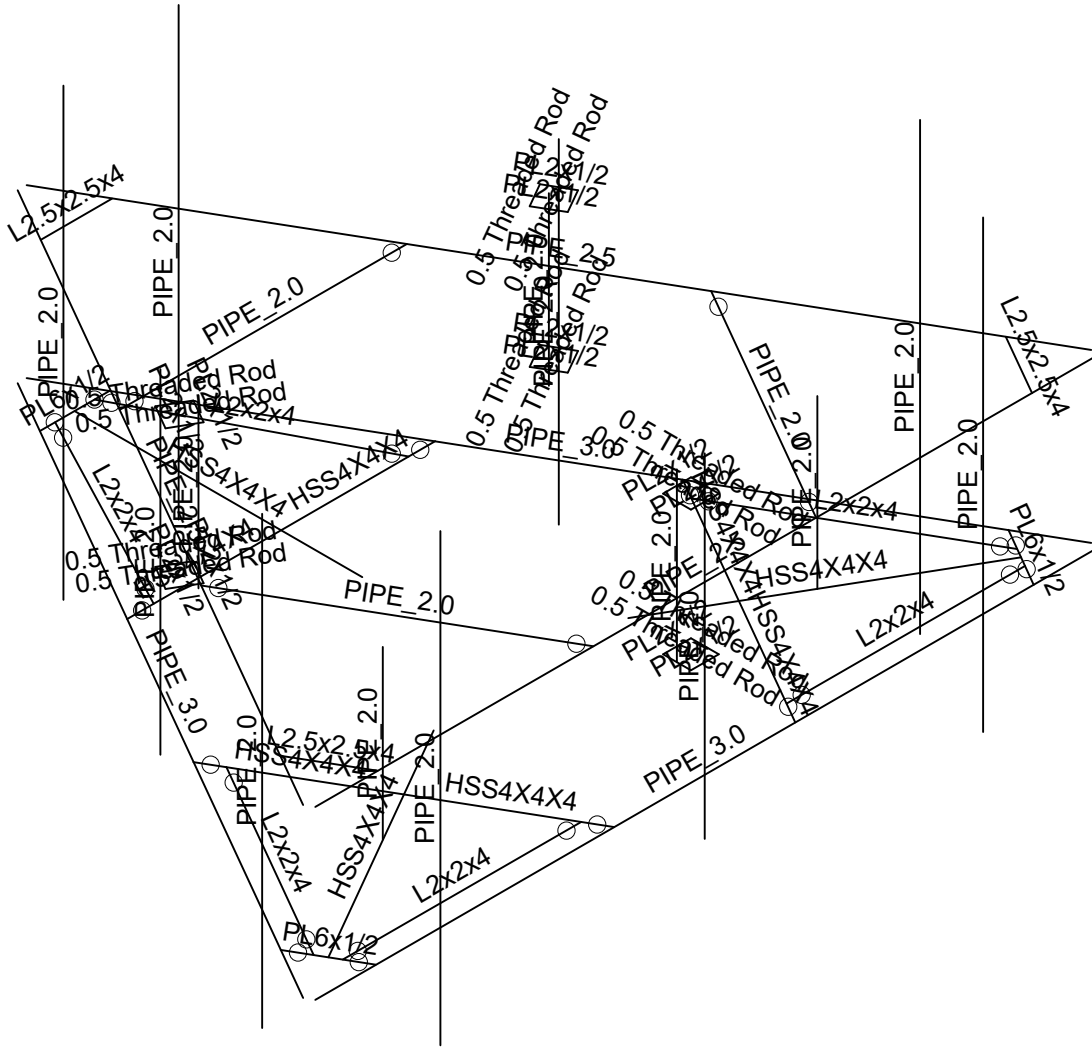
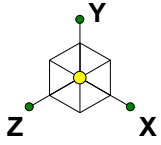
Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...	CCI BU No.806382	SK - 3
NPD		Nov 12, 2020 at 9:56 AM
TEP No. 47567.451774		Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...	CCI BU No.806382	SK - 4
NPD		Nov 12, 2020 at 9:56 AM
TEP No. 47567.451774		Mount Rev H.r3d



Envelope Only Solution

Tower Engineering Profes...		SK - 5
NPD	CCI BU No.806382	Nov 12, 2020 at 9:56 AM
TEP No. 47567.451774		Mount Rev H.r3d

APPENDIX B
SOFTWARE INPUT CALCULATIONS



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

Wind Inputs:		
Ult. Wind Velocity:	130.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	118.0	ft
Antenna Centerline:	120.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	317	ft

Wind Calculations:		
K_{zt} :	1.000	Section 2.6.6
K_d :	0.950	
$K_{z-Mount}$:	1.036	Section 2.6.5.2
$K_{z-Antenna}$:	1.041	Section 2.6.5.2
K_{iz} :	1.137	Section 2.6.10
Ice Thickness:	1.137	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_z G_h)_{Mount}$:	42.10	$(q_z G_h)_{Mount}$:	6.23
$(q_z G_h)_{Antenna}$:	42.30	$(q_z G_h)_{Antenna}$:	6.26

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

Seismic Input		
S_{DS} :	0.221	Design Short Period Spectral Accel.
I_p :	1.0	Importance Factor
R_p :	2.0	Response Modification Factor
ρ :	1.0	
A_5 :	1.0	Application Factor - TIA-222-H Section 2.7.8.1
S_1 :	0.063	Spectral Acceleration at a Period of 1 Second

Seismic Design Force			
C_s :	0.111	kips/kip	TIA-H Sec 2.7.7.1.1
C_{s-min} :	0.030	kips/kip	TIA-H Sec 2.7.7.1.1



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

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

MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Distance from start node of the member		
										Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	340.00	1	Flat	MP-1	0.25	4.33	
POWERWAVE TECHNOLOGIES	7020.00	2.50	4.90	8.40	2.20	250.00	2	Flat	MP-1	1.00		
POWERWAVE TECHNOLOGIES	1001940	5.70	3.70	1.70	2.00	250.00	1	Flat	MP-1	2.00		
POWERWAVE TECHNOLOGIES	1001983	5.70	3.70	1.70	2.00	250.00	1	Flat	MP-1	2.00		
POWERWAVE TECHNOLOGIES	LGP13519	7.90	4.40	2.70	5.30	250.00	2	Flat	MP-1	3.00		
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	340.00	1	Flat	MP-1	5.00		
CCI ANTENNAS	OPA65R-BU6D	71.20	21.00	7.80	63.50	340.00	1	Flat	MP-2	0.50	5.50	
Ericsson	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	250.00	1	Flat	MP-2B	1.50		
Ericsson	RRUS 8843 B2/B66A_CCIV2	18.00	13.20	11.30	75.00	250.00	1	Flat	MP-2B	1.50		
CCI ANTENNAS	DMP65R-BU6D	71.20	20.70	7.70	89.30	340.00	1	Flat	MP-3	0.50	5.50	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	340.00	1	Flat	MP-3	2.00		
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	110.00	1	Flat	MP-4	0.25	4.33	
POWERWAVE TECHNOLOGIES	7020.00	2.50	4.90	8.40	2.20	200.00	2	Flat	MP-4	1.00		
POWERWAVE TECHNOLOGIES	1001940	5.70	3.70	1.70	2.00	200.00	1	Flat	MP-4	2.00		
POWERWAVE TECHNOLOGIES	1001983	5.70	3.70	1.70	2.00	200.00	1	Flat	MP-4	2.00		
POWERWAVE TECHNOLOGIES	LGP13519	7.90	4.40	2.70	5.30	200.00	2	Flat	MP-4	3.00		
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	110.00	1	Flat	MP-4	5.00		
CCI ANTENNAS	OPA65R-BU6D	71.20	21.00	7.80	63.50	110.00	1	Flat	MP-5	0.50	5.50	
Ericsson	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	200.00	1	Flat	MP-5B	1.50		
Ericsson	RRUS 8843 B2/B66A_CCIV2	18.00	13.20	11.30	75.00	200.00	1	Flat	MP-5B	1.50		
CCI ANTENNAS	DMP65R-BU6D	71.20	20.70	7.70	89.30	110.00	1	Flat	MP-6	0.50	5.50	
Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	110.00	1	Flat	MP-6	2.00		
POWERWAVE TECHNOLOGIES	7770.00	55.00	11.00	5.00	35.00	230.00	1	Flat	MP-7	0.25	4.33	
POWERWAVE TECHNOLOGIES	7020.00	2.50	4.90	8.40	2.20	320.00	2	Flat	MP-7	1.00		
POWERWAVE TECHNOLOGIES	1001940	5.70	3.70	1.70	2.00	320.00	1	Flat	MP-7	2.00		
POWERWAVE TECHNOLOGIES	1001983	5.70	3.70	1.70	2.00	320.00	1	Flat	MP-7	2.00		
POWERWAVE TECHNOLOGIES	LGP13519	7.90	4.40	2.70	5.30	320.00	2	Flat	MP-7	3.00		
POWERWAVE TECHNOLOGIES	LGP21401	14.40	9.20	2.60	14.10	230.00	1	Flat	MP-7	5.00		
CCI ANTENNAS	OPA65R-BU6D	71.20	21.00	7.80	63.50	230.00	1	Flat	MP-8	0.50	5.50	
Ericsson	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	320.00	1	Flat	MP-8B	1.50		
Ericsson	RRUS 8843 B2/B66A_CCIV2	18.00	13.20	11.30	75.00	320.00	1	Flat	MP-8B	1.50		
CCI ANTENNAS	DMP65R-BU6D	71.20	20.70	7.70	89.30	230.00	1	Flat	MP-9	0.50	5.50	

Ericsson	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	230.00	1	Flat	MP-9	2.00		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	0.00	1	Round	MP-RRH1	0.50		
Raycap	DC6-48-60-18-8F	31.25	11.00	11.00	32.80	0.00	1	Round	MP-RRH2	0.50		



**TOWER
ENGINEERING
PROFESSIONALS**

CCI BU No. 806382

TEP No. 47567.451774

Analysis By: NPD 11/12/2020

Checked By: CKL 11/12/2020

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

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
CP-1	6.000	15.00	Flat	30.00	13.00
CP-2	6.000	15.00	Flat	90.00	13.00
CP-3	6.000	15.00	Flat	-30.00	13.00
FF-TH	3.500	168.00	Round	90.00	11.00
SF1-TH	3.500	168.00	Round	-30.00	11.00
SF2-TH	3.500	168.00	Round	30.00	11.00
GSIP-1A	2.000	51.39	Flat	90.00	8.00
GSIP-1B	2.000	51.39	Flat	-30.00	8.00
GSIP-2A	2.000	50.20	Flat	-27.56	8.00
GSIP-2B	2.000	50.20	Flat	27.56	8.00
GSIP-3A	2.000	51.39	Flat	30.00	8.00
GSIP-3B	2.000	51.39	Flat	90.00	8.00
GSI-1A	4.000	33.19	Flat	30.00	16.00
GSI-1B	4.000	33.19	Flat	30.00	16.00
GSI-2A	4.000	33.19	Flat	90.00	16.00
GSI-2B	4.000	33.19	Flat	90.00	16.00
GSI-3A	4.000	33.19	Flat	-30.00	16.00
GSI-3B	4.000	33.19	Flat	-30.00	16.00
MP-1	2.375	96.00	Round		7.46
MP-2	2.375	72.00	Round		7.46
MP-2B	2.375	36.00	Round		7.46
MP-3	2.375	96.00	Round		7.46
MP-4	2.375	96.00	Round		7.46
MP-5	2.375	72.00	Round		7.46
MP-5B	2.375	36.00	Round		7.46
MP-6	2.375	96.00	Round		7.46
MP-7	2.375	96.00	Round		7.46
MP-8	2.375	72.00	Round		7.46
MP-8B	2.375	36.00	Round		7.46
MP-9	2.375	96.00	Round		7.46
MP-RRH1	2.375	36.00	Round		7.46
MP-RRH2	2.375	36.00	Round		7.46
SA-1	4.000	62.00	Flat	-60.00	16.00
SA-2	4.000	62.00	Flat	0.00	16.00
SA-3	4.000	62.00	Flat	60.00	16.00
M26	0.500	6.00	Round	0.00	1.57
M27	0.500	6.00	Round	0.00	1.57
M30	0.500	6.00	Round	0.00	1.57

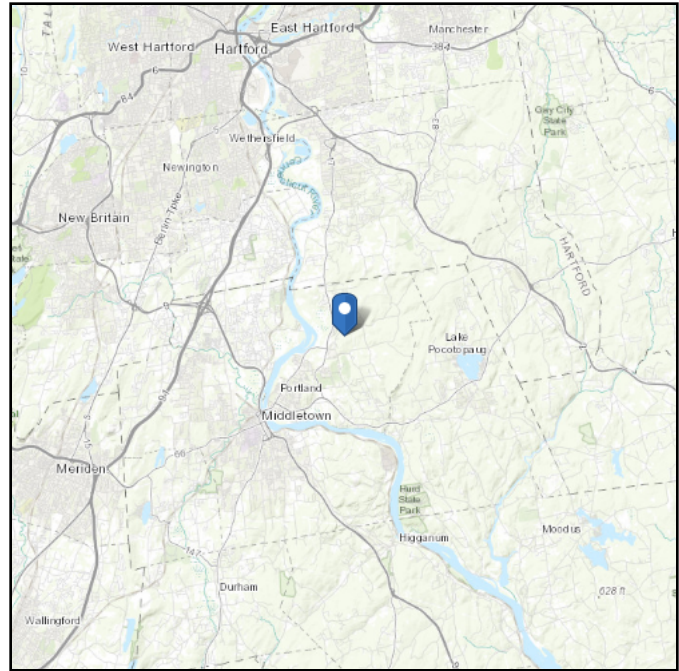
M31	0.500	6.00	Round	0.00	1.57
M38	0.500	6.00	Round	-60.00	1.57
M39	0.500	6.00	Round	-60.00	1.57
M42	0.500	6.00	Round	-60.00	1.57
M43	0.500	6.00	Round	-60.00	1.57
M50	0.500	6.00	Round	60.00	1.57
M51	0.500	6.00	Round	60.00	1.57
M54	0.500	6.00	Round	60.00	1.57
M55	0.500	6.00	Round	60.00	1.57
M28	2.000	6.00	Flat	90.00	5.00
M29	2.000	6.00	Flat	90.00	5.00
M32	2.000	6.00	Flat	90.00	5.00
M33	2.000	6.00	Flat	90.00	5.00
M40	2.000	6.00	Flat	30.00	5.00
M41	2.000	6.00	Flat	30.00	5.00
M44	2.000	6.00	Flat	30.00	5.00
M45	2.000	6.00	Flat	30.00	5.00
M52	2.000	6.00	Flat	-30.00	5.00
M53	2.000	6.00	Flat	-30.00	5.00
M56	2.000	6.00	Flat	-30.00	5.00
M57	2.000	6.00	Flat	-30.00	5.00
FF-HRK	2.375	168.00	Round	90.00	7.46
SF2-HRK	2.375	168.00	Round	-30.00	7.46
SF1-HRK	2.375	168.00	Round	30.00	7.46
SRC-1	2.500	15.41	Flat	30.00	10.00
SRC-2	2.500	15.41	Flat	-30.00	10.00
SRC-3	2.500	15.41	Flat	90.00	10.00

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 316.81 ft (NAVD 88)
Latitude: 41.608306
Longitude: -72.591544



Wind

Results:

Wind Speed:	119 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	91 Vmph
100-year MRI	98 Vmph

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

Date Accessed: Tue Nov 10 2020

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

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

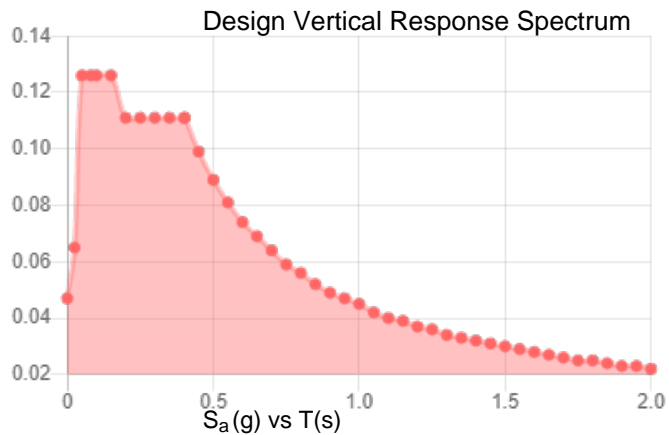
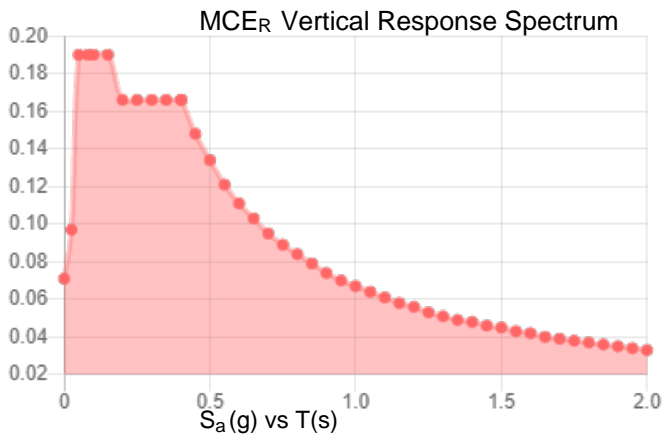
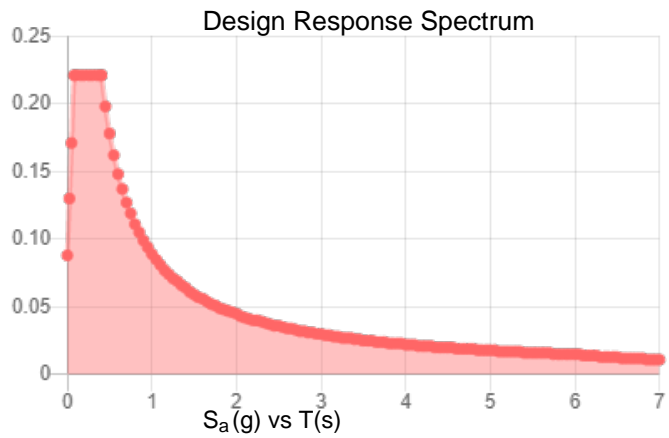
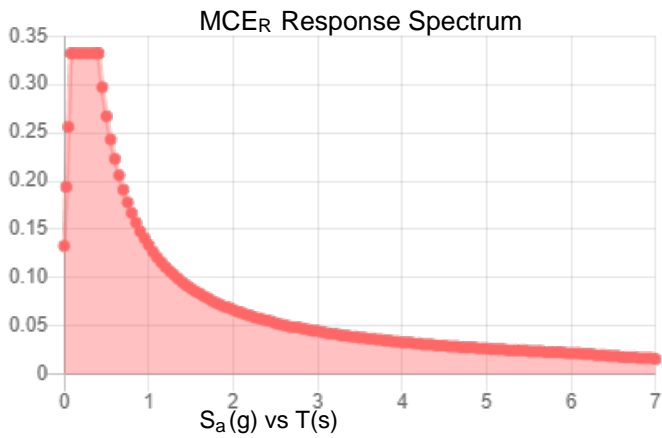
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

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

Results:

S_s :	0.207	S_{D1} :	0.089
S_1 :	0.056	T_L :	6
F_a :	1.6	PGA :	0.115
F_v :	2.4	PGA _M :	0.18
S_{MS} :	0.332	F_{PGA} :	1.57
S_{M1} :	0.134	I_e :	1
S_{DS} :	0.221	C_v :	0.715

Seismic Design Category B



Data Accessed:

Tue Nov 10 2020

Date Source:

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

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed: 50 mph

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

Date Accessed: Tue Nov 10 2020

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

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

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

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

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

APPENDIX C
SOFTWARE ANALYSIS OUTPUT



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	24
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

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

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



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

(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	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
9	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
10	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 (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Fu[ksi]
1	A653 SS Gr.33	29500	11346	.3	.65	.49	33	45
2	A653 SS Gr.50/1	29500	11346	.3	.65	.49	50	65
3	A570 Gr.33	29500	11346	.3	.65	.49	33	52
4	A607 C1 Gr.55	29500	11346	.3	.65	.49	55	70

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	None	None	A53-B-35	Typical	2.07	2.85	2.85	5.69
2	Support Arm	HSS4X4X4	None	None	A53-B-35	Typical	3.37	7.8	7.8	12.8
3	Internal	HSS4X4X4	None	None	A53-B-35	Typical	3.37	7.8	7.8	12.8
4	Grating Support	L2x2x4	None	None	A53-B-35	Typical	.944	.346	.346	.021
5	Corner Plate	PL6x1/2	None	None	A53-B-35	Typical	.3	.063	.9	.237
6	TR	0.5 Threaded Rod	None	None	A36 Gr.36	Typical	.142	.002	.002	.003
7	TR CXN	PL2x1/2	None	None	A36 Gr.36	Typical	1	.021	.333	.07



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
8	Mount Pipe	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25
9	HRK	PIPE 2.5	None	None	A53-B-35	Typical	1.61	1.45	1.45	2.89
10	AHCP	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026
11	Brace	PIPE 2.0	None	None	A53-B-35	Typical	1.02	.627	.627	1.25

Cold Formed Steel Section Sets

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	CF1A	8CU1.25X057	Beam	None	A653 SS Gr.	Typical	.581	.057	4.41	.00063
2	CF1A 1	1.5CU1.25X035	Beam	CU	A570 Gr.33	Typical	.131	.022	.052	5.4e-5

Material Takeoff

Material	Size	Pieces	Length[ft]	Weight[K]
1	Hot Rolled Steel			
2	A36 Gr.36	0.5 Threaded Rod	12	.003
3	A36 Gr.36	PL2x1/2	12	.02
4	A36 Gr.36	L2.5x2.5x4	3	.016
5	A53-B-35	HSS4X4X4	9	.368
6	A53-B-35	L2x2x4	6	.082
7	A53-B-35	PIPE 2.0	17	.335
8	A53-B-35	PIPE 2.5	3	.23
9	A53-B-35	PIPE 3.0	3	.296
10	A53-B-35	PL6x1/2	3	.038
11	Total HR Steel		68	1.388

Joint Boundary Conditions

Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	SA-1A	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA-3A	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA-2A	Reaction	Reaction	Reaction	Reaction	Reaction

Member Primary Data

Label	I Joint	J Joint	K Joint	Rotate[d...]	Section/Shape	Type	Design List	Material	Design Rules
1	CP-1	N57	N52		Corner Plate	None	None	A53-B-35	Typical
2	CP-2	N55	N56		Corner Plate	None	None	A53-B-35	Typical
3	CP-3	N53	N54		Corner Plate	None	None	A53-B-35	Typical
4	FF-TH	FF-1	FF-2		Face Horizontal	None	None	A53-B-35	Typical
5	SF1-TH	N46	N47		Face Horizontal	None	None	A53-B-35	Typical
6	SF2-TH	N40	N41		Face Horizontal	None	None	A53-B-35	Typical
7	GSIP-1A	GSIP-1A	GSIP-1B		Grating Support	None	None	A53-B-35	Typical
8	GSIP-1B	N48	N51		Grating Support	None	None	A53-B-35	Typical
9	GSIP-2A	N50	N42		Grating Support	None	None	A53-B-35	Typical
10	GSIP-2B	N49	N45		Grating Support	None	None	A53-B-35	Typical
11	GSIP-3A	N44	N43		Grating Support	None	None	A53-B-35	Typical
12	GSIP-3B	GSIP-3C	GSIP-3D		Grating Support	None	None	A53-B-35	Typical
13	GSI-1A	N60	N62		Internal	None	None	A53-B-35	Typical
14	GSI-1B	N62	N61		Internal	None	None	A53-B-35	Typical
15	GSI-2A	GS12-A	GS12-B		Internal	None	None	A53-B-35	Typical
16	GSI-2B	GS12-B	GS12-C		Internal	None	None	A53-B-35	Typical
17	GSI-3A	N63	N65		Internal	None	None	A53-B-35	Typical
18	GSI-3B	N65	N64		Internal	None	None	A53-B-35	Typical
19	MP-1	N57A	N58		Mount Pipe	None	None	A53-B-35	Typical



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate[d...]	Section/Shape	Type	Design List	Material	Design Rules
20	MP-2	N54A	N55A		Mount Pipe	None	None	A53-B-35	Typical
21	MP-2B	N59	N60A		Mount Pipe	None	None	A53-B-35	Typical
22	MP-3	N51A	N52A		Mount Pipe	None	None	A53-B-35	Typical
23	MP-4	N103	N104		Mount Pipe	None	None	A53-B-35	Typical
24	MP-5	N141	N142		Mount Pipe	None	None	A53-B-35	Typical
25	MP-5B	N143	N144		Mount Pipe	None	None	A53-B-35	Typical
26	MP-6	N97	N98		Mount Pipe	None	None	A53-B-35	Typical
27	MP-7	N80	N81		Mount Pipe	None	None	A53-B-35	Typical
28	MP-8	N123	N124		Mount Pipe	None	None	A53-B-35	Typical
29	MP-8B	N125	N126		Mount Pipe	None	None	A53-B-35	Typical
30	MP-9	N74	N75		Mount Pipe	None	None	A53-B-35	Typical
31	MP-RRH1	N119	GS11-B		Mount Pipe	None	None	A53-B-35	Typical
32	MP-RRH2	N121	GS13-B		Mount Pipe	None	None	A53-B-35	Typical
33	SA-1	SA-1A	SA-1B		Support Arm	None	None	A53-B-35	Typical
34	SA-2	SA-2A	SA-2B		Support Arm	None	None	A53-B-35	Typical
35	SA-3	SA-3A	SA-3B		Support Arm	None	None	A53-B-35	Typical
36	M26	N62A	N64A		TR	None	None	A36 Gr.36	Typical
37	M27	N61A	N63A		TR	None	None	A36 Gr.36	Typical
38	M30	N66	N68		TR	None	None	A36 Gr.36	Typical
39	M31	N65A	N67		TR	None	None	A36 Gr.36	Typical
40	M38	N128	N130		TR	None	None	A36 Gr.36	Typical
41	M39	N127	N129		TR	None	None	A36 Gr.36	Typical
42	M42	N132	N134		TR	None	None	A36 Gr.36	Typical
43	M43	N131	N133		TR	None	None	A36 Gr.36	Typical
44	M50	N146	N148		TR	None	None	A36 Gr.36	Typical
45	M51	N145	N147		TR	None	None	A36 Gr.36	Typical
46	M54	N150	N152		TR	None	None	A36 Gr.36	Typical
47	M55	N149	N151		TR	None	None	A36 Gr.36	Typical
48	M28	N62A	N61A		TR CXN	None	None	A36 Gr.36	Typical
49	M29	N64A	N63A		TR CXN	None	None	A36 Gr.36	Typical
50	M32	N66	N65A		TR CXN	None	None	A36 Gr.36	Typical
51	M33	N68	N67		TR CXN	None	None	A36 Gr.36	Typical
52	M40	N127	N128		TR CXN	None	None	A36 Gr.36	Typical
53	M41	N129	N130		TR CXN	None	None	A36 Gr.36	Typical
54	M44	N131	N132		TR CXN	None	None	A36 Gr.36	Typical
55	M45	N133	N134		TR CXN	None	None	A36 Gr.36	Typical
56	M52	N145	N146		TR CXN	None	None	A36 Gr.36	Typical
57	M53	N147	N148		TR CXN	None	None	A36 Gr.36	Typical
58	M56	N149	N150		TR CXN	None	None	A36 Gr.36	Typical
59	M57	N151	N152		TR CXN	None	None	A36 Gr.36	Typical
60	FF-HRK	N123A	N124A		HRK	None	None	A53-B-35	Typical
61	SF2-HRK	N127A	N128A		HRK	None	None	A53-B-35	Typical
62	SF1-HRK	N125A	N126A		HRK	None	None	A53-B-35	Typical
63	SRC-1	N134A	N129A	90	AHCP	None	None	A36 Gr.36	Typical
64	SRC-2	N130A	N131A	90	AHCP	None	None	A36 Gr.36	Typical
65	SRC-3	N132A	N133A	90	AHCP	None	None	A36 Gr.36	Typical
66	BR-1	N149A	N144A		Brace	None	None	A53-B-35	Typical
67	BR-2	N145A	N146A		Brace	None	None	A53-B-35	Typical
68	BR-3	N147A	N148A		Brace	None	None	A53-B-35	Typical

Member Advanced Data

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat... Analysis ...	Inactive	Seismic...
1	CP-1	BenPIN	BenPIN			Yes	** NA **		None
2	CP-2	BenPIN	BenPIN			Yes	** NA **		None
3	CP-3	BenPIN	BenPIN			Yes	** NA **		None



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

Member Advanced Data (Continued)

Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
4	FF-TH					Yes	** NA **			None
5	SF1-TH					Yes	** NA **			None
6	SF2-TH					Yes	** NA **			None
7	GSSIP-1A	BenPIN	BenPIN			Yes	** NA **			None
8	GSSIP-1B	BenPIN	BenPIN			Yes	** NA **			None
9	GSSIP-2A	BenPIN	BenPIN			Yes	** NA **			None
10	GSSIP-2B	BenPIN	BenPIN			Yes	** NA **			None
11	GSSIP-3A	BenPIN	BenPIN			Yes	** NA **			None
12	GSSIP-3B	BenPIN	BenPIN			Yes	** NA **			None
13	GSI-1A	BenPIN				Yes	** NA **			None
14	GSI-1B		BenPIN			Yes	** NA **			None
15	GSI-2A	BenPIN				Yes	** NA **			None
16	GSI-2B		BenPIN			Yes	** NA **			None
17	GSI-3A	BenPIN				Yes	** NA **			None
18	GSI-3B		BenPIN			Yes	** NA **			None
19	MP-1					Yes	** NA **			None
20	MP-2					Yes	** NA **			None
21	MP-2B					Yes	** NA **			None
22	MP-3					Yes	** NA **			None
23	MP-4					Yes	** NA **			None
24	MP-5					Yes	** NA **			None
25	MP-5B					Yes	** NA **			None
26	MP-6					Yes	** NA **			None
27	MP-7					Yes	** NA **			None
28	MP-8					Yes	** NA **			None
29	MP-8B					Yes	** NA **			None
30	MP-9					Yes	** NA **			None
31	MP-RRH1					Yes	** NA **			None
32	MP-RRH2					Yes	** NA **			None
33	SA-1					Yes	** NA **			None
34	SA-2					Yes	** NA **			None
35	SA-3					Yes	** NA **			None
36	M26					Yes	** NA **			None
37	M27					Yes	** NA **			None
38	M30					Yes	** NA **			None
39	M31					Yes	** NA **			None
40	M38					Yes	** NA **			None
41	M39					Yes	** NA **			None
42	M42					Yes	** NA **			None
43	M43					Yes	** NA **			None
44	M50					Yes	** NA **			None
45	M51					Yes	** NA **			None
46	M54					Yes	** NA **			None
47	M55					Yes	** NA **			None
48	M28					Yes	** NA **			None
49	M29					Yes	** NA **			None
50	M32					Yes	** NA **			None
51	M33					Yes	** NA **			None
52	M40					Yes	** NA **			None
53	M41					Yes	** NA **			None
54	M44					Yes	** NA **			None
55	M45					Yes	** NA **			None
56	M52					Yes	** NA **			None
57	M53					Yes	** NA **			None
58	M56					Yes	** NA **			None
59	M57					Yes	** NA **			None
60	FF-HRK					Yes	** NA **			None



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

Member Advanced Data (Continued)

Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
61	SF2-HRK					Yes	** NA **			None
62	SF1-HRK					Yes	** NA **			None
63	SRC-1					Yes	** NA **			None
64	SRC-2					Yes	** NA **			None
65	SRC-3					Yes	** NA **			None
66	BR-1	BenPIN	BenPIN			Yes	** NA **			None
67	BR-2	BenPIN	BenPIN			Yes	** NA **			None
68	BR-3	BenPIN	BenPIN			Yes	** NA **			None

Hot Rolled Steel Design Parameters

Label	Shape	Length(ft)	Lbyy(ft)	Lbzz(ft)	Lcomp top(ft)	Lcomp bot(ft)	L-tor...	Kyy	Kzz	Cb	Functi...
1	CP-1	Corner Plate	1.25	.771	.771			1	1		Lateral
2	CP-2	Corner Plate	1.25	.771	.771			1	1		Lateral
3	CP-3	Corner Plate	1.25	.771	.771			1	1		Lateral
4	FF-TH	Face Horizontal	14	5.917				2.1	2.1		Lateral
5	SF1-TH	Face Horizontal	14	5.917				2.1	2.1		Lateral
6	SF2-TH	Face Horizontal	14	5.917				2.1	2.1		Lateral
7	GSSIP-1A	Grating Support	4.282					1	1		Lateral
8	GSSIP-1B	Grating Support	4.282					1	1		Lateral
9	GSSIP-2A	Grating Support	4.183					1	1		Lateral
10	GSSIP-2B	Grating Support	4.183					1	1		Lateral
11	GSSIP-3A	Grating Support	4.282					1	1		Lateral
12	GSSIP-3B	Grating Support	4.282					1	1		Lateral
13	GSI-1A	Internal	2.766					.8	.8		Lateral
14	GSI-1B	Internal	2.766					.8	.8		Lateral
15	GSI-2A	Internal	2.766					.8	.8		Lateral
16	GSI-2B	Internal	2.766					.8	.8		Lateral
17	GSI-3A	Internal	2.766					.8	.8		Lateral
18	GSI-3B	Internal	2.766					.8	.8		Lateral
19	MP-1	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
20	MP-2	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
21	MP-2B	Mount Pipe	3	Segment	Segment			2.1	2.1		Lateral
22	MP-3	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
23	MP-4	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
24	MP-5	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
25	MP-5B	Mount Pipe	3	Segment	Segment			2.1	2.1		Lateral
26	MP-6	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
27	MP-7	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
28	MP-8	Mount Pipe	6	Segment	Segment			2.1	2.1		Lateral
29	MP-8B	Mount Pipe	3	Segment	Segment			2.1	2.1		Lateral
30	MP-9	Mount Pipe	8	Segment	Segment			2.1	2.1		Lateral
31	MP-RRH1	Mount Pipe	3	Segment	Segment			2.1	2.1		Lateral
32	MP-RRH2	Mount Pipe	3	Segment	Segment			2.1	2.1		Lateral
33	SA-1	Support Arm	5.167	3.428				2.1	2.1		Lateral
34	SA-2	Support Arm	5.167	3.428				2.1	2.1		Lateral
35	SA-3	Support Arm	5.167	3.428				2.1	2.1		Lateral
36	M26	TR	.5					1	1		Lateral
37	M27	TR	.5					1	1		Lateral
38	M30	TR	.5					1	1		Lateral
39	M31	TR	.5					1	1		Lateral
40	M38	TR	.5					1	1		Lateral
41	M39	TR	.5					1	1		Lateral
42	M42	TR	.5					1	1		Lateral
43	M43	TR	.5					1	1		Lateral
44	M50	TR	.5					1	1		Lateral



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
45	M51	TR	.5					1	1		Lateral
46	M54	TR	.5					1	1		Lateral
47	M55	TR	.5					1	1		Lateral
48	M28	TR CXN	.5					1	1		Lateral
49	M29	TR CXN	.5					1	1		Lateral
50	M32	TR CXN	.5					1	1		Lateral
51	M33	TR CXN	.5					1	1		Lateral
52	M40	TR CXN	.5					1	1		Lateral
53	M41	TR CXN	.5					1	1		Lateral
54	M44	TR CXN	.5					1	1		Lateral
55	M45	TR CXN	.5					1	1		Lateral
56	M52	TR CXN	.5					1	1		Lateral
57	M53	TR CXN	.5					1	1		Lateral
58	M56	TR CXN	.5					1	1		Lateral
59	M57	TR CXN	.5					1	1		Lateral
60	FF-HRK	HRK	14					2.1	2.1		Lateral
61	SF2-HRK	HRK	14					2.1	2.1		Lateral
62	SF1-HRK	HRK	14					2.1	2.1		Lateral
63	SRC-1	AHCP	1.284					.65	.65		Lateral
64	SRC-2	AHCP	1.284					.65	.65		Lateral
65	SRC-3	AHCP	1.284					.65	.65		Lateral
66	BR-1	Brace	5.159					1	1		Lateral
67	BR-2	Brace	5.159					1	1		Lateral
68	BR-3	Brace	5.159					1	1		Lateral

Cold Formed Steel Design Parameters

Label	Shape	Length	Lbyy[ft]	Lbzz[ft]	Lcomp to...	Lcomp b...	Kyy	Kzz	Cm-vy	Cm-zz	Cb	R	y sway	z sway
No Data to Print ...														

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
1	Dead	None		-1			44		3
2	0 Wind - No Ice	None					44	68	
3	30 Wind - No Ice	None					88	136	
4	45 Wind - No Ice	None					88	136	
5	60 Wind - No Ice	None					88	136	
6	90 Wind - No Ice	None					44	68	
7	120 Wind - No Ice	None					88	136	
8	135 Wind - No Ice	None					88	136	
9	150 Wind - No Ice	None					88	136	
10	180 Wind - No Ice	None					44	68	
11	210 Wind - No Ice	None					88	136	
12	225 Wind - No Ice	None					88	136	
13	240 Wind - No Ice	None					88	136	
14	270 Wind - No Ice	None					44	68	
15	300 Wind - No Ice	None					88	136	
16	315 Wind - No Ice	None					88	136	
17	330 Wind - No Ice	None					88	136	
18	Ice Weight	None					44	68	3
19	0 Wind - Ice	None					44	68	
20	30 Wind - Ice	None					88	136	
21	45 Wind - Ice	None					88	136	
22	60 Wind - Ice	None					88	136	
23	90 Wind - Ice	None					44	68	



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
24	120 Wind - Ice	None					88	136	
25	135 Wind - Ice	None					88	136	
26	150 Wind - Ice	None					88	136	
27	180 Wind - Ice	None					44	68	
28	210 Wind - Ice	None					88	136	
29	225 Wind - Ice	None					88	136	
30	240 Wind - Ice	None					88	136	
31	270 Wind - Ice	None					44	68	
32	300 Wind - Ice	None					88	136	
33	315 Wind - Ice	None					88	136	
34	330 Wind - Ice	None					88	136	
35	Lm	None				1			
36	Lv	None				1			
37	Seismic Load X	ELX	-1				44		
38	Seismic Load Z	ELZ			-1		44		
39	BLC 1 Transient Area Loads	None						51	
40	BLC 18 Transient Area Loads	None						51	

Load Combinations

	Description	So...	P...	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
1	1.4D	Yes	Y	1	1.4								
2	0.9D+1.0 0-Wind	Yes	Y	1	.9	2	1						
3	0.9D+1.0 30-Wind	Yes	Y	1	.9	3	1						
4	0.9D+1.0 45-Wind	Yes	Y	1	.9	4	1						
5	0.9D+1.0 60-Wind	Yes	Y	1	.9	5	1						
6	0.9D+1.0 90-Wind	Yes	Y	1	.9	6	1						
7	0.9D+1.0 120-Wind	Yes	Y	1	.9	7	1						
8	0.9D+1.0 135-Wind	Yes	Y	1	.9	8	1						
9	0.9D+1.0 150-Wind	Yes	Y	1	.9	9	1						
10	0.9D+1.0 180-Wind	Yes	Y	1	.9	10	1						
11	0.9D+1.0 210-Wind	Yes	Y	1	.9	11	1						
12	0.9D+1.0 225-Wind	Yes	Y	1	.9	12	1						
13	0.9D+1.0 240-Wind	Yes	Y	1	.9	13	1						
14	0.9D+1.0 270-Wind	Yes	Y	1	.9	14	1						
15	0.9D+1.0 300-Wind	Yes	Y	1	.9	15	1						
16	0.9D+1.0 315-Wind	Yes	Y	1	.9	16	1						
17	0.9D+1.0 330-Wind	Yes	Y	1	.9	17	1						
18	1.2D+1.0 0-Wind	Yes	Y	1	1.2	2	1						
19	1.2D+1.0 30-Wind	Yes	Y	1	1.2	3	1						
20	1.2D+1.0 45-Wind	Yes	Y	1	1.2	4	1						
21	1.2D+1.0 60-Wind	Yes	Y	1	1.2	5	1						
22	1.2D+1.0 90-Wind	Yes	Y	1	1.2	6	1						
23	1.2D+1.0 120-Wind	Yes	Y	1	1.2	7	1						
24	1.2D+1.0 135-Wind	Yes	Y	1	1.2	8	1						
25	1.2D+1.0 150-Wind	Yes	Y	1	1.2	9	1						
26	1.2D+1.0 180-Wind	Yes	Y	1	1.2	10	1						
27	1.2D+1.0 210-Wind	Yes	Y	1	1.2	11	1						
28	1.2D+1.0 225-Wind	Yes	Y	1	1.2	12	1						
29	1.2D+1.0 240-Wind	Yes	Y	1	1.2	13	1						
30	1.2D+1.0 270-Wind	Yes	Y	1	1.2	14	1						
31	1.2D+1.0 300-Wind	Yes	Y	1	1.2	15	1						
32	1.2D+1.0 315-Wind	Yes	Y	1	1.2	16	1						
33	1.2D+1.0 330-Wind	Yes	Y	1	1.2	17	1						
34	1.2D+1.0DI+1.0 0-Wi...	Yes	Y	1	1.2	18	1	19	1				
35	1.2D+1.0DI+1.0 30-...	Yes	Y	1	1.2	18	1	20	1				



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

Load Combinations (Continued)

Description	So.	P.	S.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.
36	1.2D+1.0Di+1.0 45-...	Yes	Y	1	1.2	18	1	21	1				
37	1.2D+1.0Di+1.0 60-...	Yes	Y	1	1.2	18	1	22	1				
38	1.2D+1.0Di+1.0 90-...	Yes	Y	1	1.2	18	1	23	1				
39	1.2D+1.0Di+1.0 120-...	Yes	Y	1	1.2	18	1	24	1				
40	1.2D+1.0Di+1.0 135-...	Yes	Y	1	1.2	18	1	25	1				
41	1.2D+1.0Di+1.0 150-...	Yes	Y	1	1.2	18	1	26	1				
42	1.2D+1.0Di+1.0 180-...	Yes	Y	1	1.2	18	1	27	1				
43	1.2D+1.0Di+1.0 210-...	Yes	Y	1	1.2	18	1	28	1				
44	1.2D+1.0Di+1.0 225-...	Yes	Y	1	1.2	18	1	29	1				
45	1.2D+1.0Di+1.0 240-...	Yes	Y	1	1.2	18	1	30	1				
46	1.2D+1.0Di+1.0 270-...	Yes	Y	1	1.2	18	1	31	1				
47	1.2D+1.0Di+1.0 300-...	Yes	Y	1	1.2	18	1	32	1				
48	1.2D+1.0Di+1.0 315-...	Yes	Y	1	1.2	18	1	33	1				
49	1.2D+1.0Di+1.0 330-...	Yes	Y	1	1.2	18	1	34	1				
50	1.2D+1.5Lv	Yes	Y	36	1.5	1	1.2						
51	1.2D+1.5Lm+1.0 0-...	Yes	Y	1	1.2	2	.053	35	1.5				
52	1.2D+1.5Lm+1.0 30-...	Yes	Y	1	1.2	3	.053	35	1.5				
53	1.2D+1.5Lm+1.0 45-...	Yes	Y	1	1.2	4	.053	35	1.5				
54	1.2D+1.5Lm+1.0 60-...	Yes	Y	1	1.2	5	.053	35	1.5				
55	1.2D+1.5Lm+1.0 90-...	Yes	Y	1	1.2	6	.053	35	1.5				
56	1.2D+1.5Lm+1.0 120-...	Yes	Y	1	1.2	7	.053	35	1.5				
57	1.2D+1.5Lm+1.0 135-...	Yes	Y	1	1.2	8	.053	35	1.5				
58	1.2D+1.5Lm+1.0 150-...	Yes	Y	1	1.2	9	.053	35	1.5				
59	1.2D+1.5Lm+1.0 180-...	Yes	Y	1	1.2	10	.053	35	1.5				
60	1.2D+1.5Lm+1.0 210-...	Yes	Y	1	1.2	11	.053	35	1.5				
61	1.2D+1.5Lm+1.0 225-...	Yes	Y	1	1.2	12	.053	35	1.5				
62	1.2D+1.5Lm+1.0 240-...	Yes	Y	1	1.2	13	.053	35	1.5				
63	1.2D+1.5Lm+1.0 270-...	Yes	Y	1	1.2	14	.053	35	1.5				
64	1.2D+1.5Lm+1.0 300-...	Yes	Y	1	1.2	15	.053	35	1.5				
65	1.2D+1.5Lm+1.0 315-...	Yes	Y	1	1.2	16	.053	35	1.5				
66	1.2D+1.5Lm+1.0 330-...	Yes	Y	1	1.2	17	.053	35	1.5				
67	(1.2+0.2Sds)D+1.0 0-...	Yes	Y	1	1.2...	ELX	.111	0					
68	(1.2+0.2Sds)D+1.0 3-...	Yes	Y	1	1.2...	ELX	.096	ELZ	.055				
69	(1.2+0.2Sds)D+1.0 4-...	Yes	Y	1	1.2...	ELX	.078	ELZ	.078				
70	(1.2+0.2Sds)D+1.0 6-...	Yes	Y	1	1.2...	ELX	.055	ELZ	.096				
71	(1.2+0.2Sds)D+1.0 9-...	Yes	Y	1	1.2...	0		ELZ	.111				
72	(1.2+0.2Sds)D+1.0 1-...	Yes	Y	1	1.2...	ELX	.055	ELZ	.096				
73	(1.2+0.2Sds)D+1.0 1-...	Yes	Y	1	1.2...	ELX	.078	ELZ	.078				
74	(1.2+0.2Sds)D+1.0 1-...	Yes	Y	1	1.2...	ELX	.096	ELZ	.055				
75	(1.2+0.2Sds)D+1.0 1-...	Yes	Y	1	1.2...	ELX	.111	0					
76	(1.2+0.2Sds)D+1.0 2-...	Yes	Y	1	1.2...	ELX	.096	ELZ	.055				
77	(1.2+0.2Sds)D+1.0 2-...	Yes	Y	1	1.2...	ELX	.078	ELZ	.078				
78	(1.2+0.2Sds)D+1.0 2-...	Yes	Y	1	1.2...	ELX	.055	ELZ	.096				
79	(1.2+0.2Sds)D+1.0 2-...	Yes	Y	1	1.2...	0		ELZ	.111				
80	(1.2+0.2Sds)D+1.0 3-...	Yes	Y	1	1.2...	ELX	.055	ELZ	.096				
81	(1.2+0.2Sds)D+1.0 3-...	Yes	Y	1	1.2...	ELX	.078	ELZ	.078				
82	(1.2+0.2Sds)D+1.0 3-...	Yes	Y	1	1.2...	ELX	.096	ELZ	.055				
83	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.111	0					
84	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.096	ELZ	.055				
85	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.078	ELZ	.078				
86	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.055	ELZ	.096				
87	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	0		ELZ	.111				
88	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.055	ELZ	.096				
89	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.078	ELZ	.078				
90	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.096	ELZ	.055				
91	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.111	0					
92	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.096	ELZ	.055				



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

Load Combinations (Continued)

Description	So.	P.	S.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.	BLCFac.
93	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.078	ELZ	.078				
94	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.055	ELZ	.096				
95	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	0		ELZ	.111				
96	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.055	ELZ	.096				
97	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.078	ELZ	.078				
98	(0.9-0.2Sds)*DL+1.0 0-...	Yes	Y	1	.856	ELX	.096	ELZ	.055				

Joint Loads and Enforced Displacements (BLC 35 : Lm)

Joint Label	L.D.M	Direction	Magnitude(k.k-ft), (in.rad), (k*s^2/ft, k*s^2/ft)	
1	N56A	L	Y	-5

Joint Loads and Enforced Displacements (BLC 36 : Lv)

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

Member Area Loads (BLC 1 : Dead)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	GSIP-1A	GSIP-1B	N48	N51	Y	Two Way	-0.12
2	N50	N42	N49	N45	Y	Two Way	-0.12
3	N44	N43	GSIP-3C	GSIP-3D	Y	Two Way	-0.12

Member Area Loads (BLC 18 : Ice Weight)

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]	
1	GSIP-1A	GSIP-1B	N48	N51	Y	Two Way	-0.05
2	N50	N42	N49	N45	Y	Two Way	-0.05
3	N44	N43	GSIP-3C	GSIP-3D	Y	Two Way	-0.05

Member Point Loads (BLC 1 : Dead)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	Y	-0.18	.25
2	MP-1	Y	-0.04	1
3	MP-1	Y	-0.02	2
4	MP-1	Y	-0.02	2
5	MP-1	Y	-0.11	3
6	MP-1	Y	-0.14	5
7	MP-2	Y	-0.32	.5
8	MP-2B	Y	-0.59	1.5
9	MP-2B	Y	-0.75	1.5
10	MP-3	Y	-0.45	.5
11	MP-3	Y	-0.71	2
12	MP-4	Y	-0.18	.25
13	MP-4	Y	-0.04	1
14	MP-4	Y	-0.02	2
15	MP-4	Y	-0.02	2
16	MP-4	Y	-0.11	3
17	MP-4	Y	-0.14	5
18	MP-5	Y	-0.32	.5
19	MP-5B	Y	-0.59	1.5
20	MP-5B	Y	-0.75	1.5
21	MP-6	Y	-0.45	.5
22	MP-6	Y	-0.71	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
23	MP-7	Y	-0.18	.25
24	MP-7	Y	-0.04	1
25	MP-7	Y	-0.02	2
26	MP-7	Y	-0.02	2
27	MP-7	Y	-0.11	3
28	MP-7	Y	-0.14	5
29	MP-8	Y	-0.32	.5
30	MP-8B	Y	-0.59	1.5
31	MP-8B	Y	-0.75	1.5
32	MP-9	Y	-0.45	.5
33	MP-9	Y	-0.71	2
34	MP-RRH1	Y	-0.33	.5
35	MP-RRH2	Y	-0.33	.5
36	MP-1	Y	-0.18	4.333
37	MP-2	Y	-0.32	5.5
38	MP-3	Y	-0.45	5.5
39	MP-4	Y	-0.18	4.333
40	MP-5	Y	-0.32	5.5
41	MP-6	Y	-0.45	5.5
42	MP-7	Y	-0.18	4.333
43	MP-8	Y	-0.32	5.5
44	MP-9	Y	-0.45	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.99	.25
2	MP-1	X	-0.13	1
3	MP-1	X	-0.04	2
4	MP-1	X	-0.04	2
5	MP-1	X	-0.15	3
6	MP-1	X	-0.39	5
7	MP-2	X	-2.16	.5
8	MP-2B	X	-0.51	1.5
9	MP-2B	X	-0.66	1.5
10	MP-3	X	-2.11	.5
11	MP-3	X	-0.72	2
12	MP-4	X	-0.61	.25
13	MP-4	X	-0.08	1
14	MP-4	X	-0.06	2
15	MP-4	X	-0.06	2
16	MP-4	X	-0.21	3
17	MP-4	X	-0.17	5
18	MP-5	X	-1.04	.5
19	MP-5B	X	-0.73	1.5
20	MP-5B	X	-0.74	1.5
21	MP-6	X	-1.02	.5
22	MP-6	X	-0.56	2
23	MP-7	X	-0.76	.25
24	MP-7	X	-.01	1
25	MP-7	X	-0.05	2
26	MP-7	X	-0.05	2
27	MP-7	X	-0.19	3
28	MP-7	X	-0.25	5
29	MP-8	X	-1.47	.5
30	MP-8B	X	-0.65	1.5
31	MP-8B	X	-0.71	1.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
32	MP-9	X	-.144	.5
33	MP-9	X	-.062	2
34	MP-RRH1	X	-.046	.5
35	MP-RRH2	X	-.046	.5
36	MP-1	X	-.099	4.333
37	MP-2	X	-.216	5.5
38	MP-3	X	-.211	5.5
39	MP-4	X	-.061	4.333
40	MP-5	X	-.104	5.5
41	MP-6	X	-.102	5.5
42	MP-7	X	-.076	4.333
43	MP-8	X	-.147	5.5
44	MP-9	X	-.144	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.66	.25
2	MP-1	X	-0.09	1
3	MP-1	X	-0.05	2
4	MP-1	X	-0.05	2
5	MP-1	X	-0.16	3
6	MP-1	X	-0.22	5
7	MP-2	X	-1.27	.5
8	MP-2B	X	-0.56	1.5
9	MP-2B	X	-.061	1.5
10	MP-3	X	-1.25	.5
11	MP-3	X	-0.54	2
12	MP-4	X	-.05	.25
13	MP-4	X	-0.07	1
14	MP-4	X	-0.06	2
15	MP-4	X	-0.06	2
16	MP-4	X	-0.19	3
17	MP-4	X	-0.12	5
18	MP-5	X	-0.79	.5
19	MP-5B	X	-0.66	1.5
20	MP-5B	X	-0.65	1.5
21	MP-6	X	-0.77	.5
22	MP-6	X	-0.47	2
23	MP-7	X	-0.86	.25
24	MP-7	X	-0.11	1
25	MP-7	X	-0.03	2
26	MP-7	X	-0.03	2
27	MP-7	X	-0.13	3
28	MP-7	X	-0.33	5
29	MP-8	X	-1.87	.5
30	MP-8B	X	-0.44	1.5
31	MP-8B	X	-0.57	1.5
32	MP-9	X	-1.82	.5
33	MP-9	X	-0.63	2
34	MP-RRH1	X	-.04	.5
35	MP-RRH2	X	-.04	.5
36	MP-1	X	-0.66	4.333
37	MP-2	X	-1.27	5.5
38	MP-3	X	-1.25	5.5
39	MP-4	X	-.05	4.333
40	MP-5	X	-0.79	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
41	MP-6	X	-0.77	5.5
42	MP-7	X	-0.86	4.333
43	MP-8	X	-1.87	5.5
44	MP-9	X	-1.82	5.5
45	MP-1	Z	-0.38	.25
46	MP-1	Z	-0.05	1
47	MP-1	Z	-0.03	2
48	MP-1	Z	-0.03	2
49	MP-1	Z	-0.09	3
50	MP-1	Z	-0.13	5
51	MP-2	Z	-0.73	.5
52	MP-2B	Z	-0.32	1.5
53	MP-2B	Z	-0.35	1.5
54	MP-3	Z	-0.72	.5
55	MP-3	Z	-0.31	2
56	MP-4	Z	-0.29	.25
57	MP-4	Z	-0.04	1
58	MP-4	Z	-0.03	2
59	MP-4	Z	-0.03	2
60	MP-4	Z	-0.11	3
61	MP-4	Z	-0.07	5
62	MP-5	Z	-0.45	.5
63	MP-5B	Z	-0.38	1.5
64	MP-5B	Z	-0.38	1.5
65	MP-6	Z	-0.45	.5
66	MP-6	Z	-0.27	2
67	MP-7	Z	-.05	.25
68	MP-7	Z	-0.06	1
69	MP-7	Z	-0.02	2
70	MP-7	Z	-0.02	2
71	MP-7	Z	-0.07	3
72	MP-7	Z	-0.19	5
73	MP-8	Z	-1.08	.5
74	MP-8B	Z	-0.25	1.5
75	MP-8B	Z	-0.33	1.5
76	MP-9	Z	-1.05	.5
77	MP-9	Z	-0.36	2
78	MP-RRH1	Z	-0.23	.5
79	MP-RRH2	Z	-0.23	.5
80	MP-1	Z	-0.38	4.333
81	MP-2	Z	-0.73	5.5
82	MP-3	Z	-0.72	5.5
83	MP-4	Z	-0.29	4.333
84	MP-5	Z	-0.45	5.5
85	MP-6	Z	-0.45	5.5
86	MP-7	Z	-.05	4.333
87	MP-8	Z	-1.08	5.5
88	MP-9	Z	-1.05	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-0.46	.25
2	MP-1	X	-0.06	1
3	MP-1	X	-0.04	2
4	MP-1	X	-0.04	2
5	MP-1	X	-0.15	3



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
6	MP-1	X	-0.13	5
7	MP-2	X	-.08	.5
8	MP-2B	X	-0.51	1.5
9	MP-2B	X	-0.52	1.5
10	MP-3	X	-0.78	.5
11	MP-3	X	-0.41	2
12	MP-4	X	-0.46	.25
13	MP-4	X	-0.06	1
14	MP-4	X	-0.04	2
15	MP-4	X	-0.04	2
16	MP-4	X	-0.15	3
17	MP-4	X	-0.13	5
18	MP-5	X	-.08	.5
19	MP-5B	X	-0.51	1.5
20	MP-5B	X	-0.52	1.5
21	MP-6	X	-0.78	.5
22	MP-6	X	-0.41	2
23	MP-7	X	-0.74	.25
24	MP-7	X	-0.09	1
25	MP-7	X	-0.02	2
26	MP-7	X	-0.02	2
27	MP-7	X	-.01	3
28	MP-7	X	-.03	5
29	MP-8	X	-1.64	.5
30	MP-8B	X	-0.34	1.5
31	MP-8B	X	-0.46	1.5
32	MP-9	X	-.16	.5
33	MP-9	X	-0.53	2
34	MP-RRH1	X	-0.33	.5
35	MP-RRH2	X	-0.33	.5
36	MP-1	X	-0.46	4.333
37	MP-2	X	-.08	5.5
38	MP-3	X	-0.78	5.5
39	MP-4	X	-0.46	4.333
40	MP-5	X	-.08	5.5
41	MP-6	X	-0.78	5.5
42	MP-7	X	-0.74	4.333
43	MP-8	X	-1.64	5.5
44	MP-9	X	-.16	5.5
45	MP-1	Z	-0.46	.25
46	MP-1	Z	-0.06	1
47	MP-1	Z	-0.04	2
48	MP-1	Z	-0.04	2
49	MP-1	Z	-0.15	3
50	MP-1	Z	-0.13	5
51	MP-2	Z	-.08	.5
52	MP-2B	Z	-0.51	1.5
53	MP-2B	Z	-0.52	1.5
54	MP-3	Z	-0.78	.5
55	MP-3	Z	-0.41	2
56	MP-4	Z	-0.46	.25
57	MP-4	Z	-0.06	1
58	MP-4	Z	-0.04	2
59	MP-4	Z	-0.04	2
60	MP-4	Z	-0.15	3
61	MP-4	Z	-0.13	5
62	MP-5	Z	-.08	.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
63	MP-5B	Z	-051	1.5
64	MP-5B	Z	-052	1.5
65	MP-6	Z	-078	.5
66	MP-6	Z	-041	2
67	MP-7	Z	-074	.25
68	MP-7	Z	-009	1
69	MP-7	Z	-002	2
70	MP-7	Z	-002	2
71	MP-7	Z	-.01	3
72	MP-7	Z	-.03	5
73	MP-8	Z	-164	.5
74	MP-8B	Z	-034	1.5
75	MP-8B	Z	-046	1.5
76	MP-9	Z	-.16	.5
77	MP-9	Z	-053	2
78	MP-RRH1	Z	-033	.5
79	MP-RRH2	Z	-033	.5
80	MP-1	Z	-046	4.333
81	MP-2	Z	-.08	5.5
82	MP-3	Z	-078	5.5
83	MP-4	Z	-046	4.333
84	MP-5	Z	-.08	5.5
85	MP-6	Z	-078	5.5
86	MP-7	Z	-074	4.333
87	MP-8	Z	-164	5.5
88	MP-9	Z	-.16	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.029	.25
2	MP-1	X	-.004	1
3	MP-1	X	-.003	2
4	MP-1	X	-.003	2
5	MP-1	X	-.011	3
6	MP-1	X	-.007	5
7	MP-2	X	-.045	.5
8	MP-2B	X	-.038	1.5
9	MP-2B	X	-.038	1.5
10	MP-3	X	-.045	.5
11	MP-3	X	-.027	2
12	MP-4	X	-.038	.25
13	MP-4	X	-.005	1
14	MP-4	X	-.003	2
15	MP-4	X	-.003	2
16	MP-4	X	-.009	3
17	MP-4	X	-.013	5
18	MP-5	X	-.073	.5
19	MP-5B	X	-.032	1.5
20	MP-5B	X	-.035	1.5
21	MP-6	X	-.072	.5
22	MP-6	X	-.031	2
23	MP-7	X	-.052	.25
24	MP-7	X	-.007	1
25	MP-7	X	-.002	2
26	MP-7	X	-.002	2
27	MP-7	X	-.007	3



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
28	MP-7	X	-.021	.5
29	MP-8	X	-.114	.5
30	MP-8B	X	-.024	1.5
31	MP-8B	X	-.032	1.5
32	MP-9	X	-.111	.5
33	MP-9	X	-.037	2
34	MP-RRH1	X	-.023	.5
35	MP-RRH2	X	-.023	.5
36	MP-1	X	-.029	4.333
37	MP-2	X	-.045	5.5
38	MP-3	X	-.045	5.5
39	MP-4	X	-.038	4.333
40	MP-5	X	-.073	5.5
41	MP-6	X	-.072	5.5
42	MP-7	X	-.052	4.333
43	MP-8	X	-.114	5.5
44	MP-9	X	-.111	5.5
45	MP-1	Z	-.05	.25
46	MP-1	Z	-.007	1
47	MP-1	Z	-.006	2
48	MP-1	Z	-.006	2
49	MP-1	Z	-.019	3
50	MP-1	Z	-.012	5
51	MP-2	Z	-.079	.5
52	MP-2B	Z	-.066	1.5
53	MP-2B	Z	-.065	1.5
54	MP-3	Z	-.077	.5
55	MP-3	Z	-.047	2
56	MP-4	Z	-.066	.25
57	MP-4	Z	-.009	1
58	MP-4	Z	-.005	2
59	MP-4	Z	-.005	2
60	MP-4	Z	-.016	3
61	MP-4	Z	-.022	5
62	MP-5	Z	-.127	.5
63	MP-5B	Z	-.056	1.5
64	MP-5B	Z	-.061	1.5
65	MP-6	Z	-.125	.5
66	MP-6	Z	-.054	2
67	MP-7	Z	-.09	.25
68	MP-7	Z	-.011	1
69	MP-7	Z	-.003	2
70	MP-7	Z	-.003	2
71	MP-7	Z	-.012	3
72	MP-7	Z	-.036	5
73	MP-8	Z	-.198	.5
74	MP-8B	Z	-.042	1.5
75	MP-8B	Z	-.056	1.5
76	MP-9	Z	-.193	.5
77	MP-9	Z	-.064	2
78	MP-RRH1	Z	-.04	.5
79	MP-RRH2	Z	-.04	.5
80	MP-1	Z	-.05	4.333
81	MP-2	Z	-.079	5.5
82	MP-3	Z	-.077	5.5
83	MP-4	Z	-.066	4.333
84	MP-5	Z	-.127	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
85	MP-6	Z	- .125	5.5
86	MP-7	Z	-.09	4.333
87	MP-8	Z	-.198	5.5
88	MP-9	Z	-.193	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-.061	.25
2	MP-1	Z	-.008	1
3	MP-1	Z	-.006	2
4	MP-1	Z	-.006	2
5	MP-1	Z	-.021	3
6	MP-1	Z	-.017	5
7	MP-2	Z	-.104	.5
8	MP-2B	Z	-.073	1.5
9	MP-2B	Z	-.074	1.5
10	MP-3	Z	-.102	.5
11	MP-3	Z	-.056	2
12	MP-4	Z	-.099	.25
13	MP-4	Z	-.013	1
14	MP-4	Z	-.004	2
15	MP-4	Z	-.004	2
16	MP-4	Z	-.015	3
17	MP-4	Z	-.039	5
18	MP-5	Z	-.216	.5
19	MP-5B	Z	-.051	1.5
20	MP-5B	Z	-.066	1.5
21	MP-6	Z	-.211	.5
22	MP-6	Z	-.072	2
23	MP-7	Z	-.085	.25
24	MP-7	Z	-.011	1
25	MP-7	Z	-.005	2
26	MP-7	Z	-.005	2
27	MP-7	Z	-.017	3
28	MP-7	Z	-.03	5
29	MP-8	Z	-.172	.5
30	MP-8B	Z	-.06	1.5
31	MP-8B	Z	-.069	1.5
32	MP-9	Z	-.168	.5
33	MP-9	Z	-.066	2
34	MP-RRH1	Z	-.046	.5
35	MP-RRH2	Z	-.046	.5
36	MP-1	Z	-.061	4.333
37	MP-2	Z	-.104	5.5
38	MP-3	Z	-.102	5.5
39	MP-4	Z	-.099	4.333
40	MP-5	Z	-.216	5.5
41	MP-6	Z	-.211	5.5
42	MP-7	Z	-.085	4.333
43	MP-8	Z	-.172	5.5
44	MP-9	Z	-.168	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.042	.25
2	MP-1	X	.006	1



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
3	MP-1	X	.002	2
4	MP-1	X	.002	2
5	MP-1	X	.009	3
6	MP-1	X	.015	5
7	MP-2	X	.086	.5
8	MP-2B	X	.03	1.5
9	MP-2B	X	.035	1.5
10	MP-3	X	.084	.5
11	MP-3	X	.033	2
12	MP-4	X	.052	.25
13	MP-4	X	.007	1
14	MP-4	X	.002	2
15	MP-4	X	.002	2
16	MP-4	X	.007	3
17	MP-4	X	.021	5
18	MP-5	X	.114	.5
19	MP-5B	X	.024	1.5
20	MP-5B	X	.032	1.5
21	MP-6	X	.111	.5
22	MP-6	X	.037	2
23	MP-7	X	.031	.25
24	MP-7	X	.004	1
25	MP-7	X	.003	2
26	MP-7	X	.003	2
27	MP-7	X	.011	3
28	MP-7	X	.008	5
29	MP-8	X	.052	.5
30	MP-8B	X	.037	1.5
31	MP-8B	X	.037	1.5
32	MP-9	X	.051	.5
33	MP-9	X	.028	2
34	MP-RRH1	X	.023	.5
35	MP-RRH2	X	.023	.5
36	MP-1	X	.042	4.333
37	MP-2	X	.086	5.5
38	MP-3	X	.084	5.5
39	MP-4	X	.052	4.333
40	MP-5	X	.114	5.5
41	MP-6	X	.111	5.5
42	MP-7	X	.031	4.333
43	MP-8	X	.052	5.5
44	MP-9	X	.051	5.5
45	MP-1	Z	-.073	.25
46	MP-1	Z	-.01	1
47	MP-1	Z	-.004	2
48	MP-1	Z	-.004	2
49	MP-1	Z	-.015	3
50	MP-1	Z	-.026	5
51	MP-2	Z	-.149	.5
52	MP-2B	Z	-.052	1.5
53	MP-2B	Z	-.06	1.5
54	MP-3	Z	-.146	.5
55	MP-3	Z	-.057	2
56	MP-4	Z	-.09	.25
57	MP-4	Z	-.011	1
58	MP-4	Z	-.003	2
59	MP-4	Z	-.003	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
60	MP-4	Z	-0.12	3
61	MP-4	Z	-0.036	5
62	MP-5	Z	-0.198	.5
63	MP-5B	Z	-0.42	1.5
64	MP-5B	Z	-0.56	1.5
65	MP-6	Z	-0.193	.5
66	MP-6	Z	-0.64	2
67	MP-7	Z	-0.53	.25
68	MP-7	Z	-0.07	1
69	MP-7	Z	-0.005	2
70	MP-7	Z	-0.005	2
71	MP-7	Z	-0.18	3
72	MP-7	Z	-0.14	5
73	MP-8	Z	-0.09	.5
74	MP-8B	Z	-0.64	1.5
75	MP-8B	Z	-0.64	1.5
76	MP-9	Z	-0.88	.5
77	MP-9	Z	-0.49	2
78	MP-RRH1	Z	-.04	.5
79	MP-RRH2	Z	-.04	.5
80	MP-1	Z	-0.73	4.333
81	MP-2	Z	-.149	5.5
82	MP-3	Z	-.146	5.5
83	MP-4	Z	-.09	4.333
84	MP-5	Z	-.198	5.5
85	MP-6	Z	-.193	5.5
86	MP-7	Z	-0.53	4.333
87	MP-8	Z	-.09	5.5
88	MP-9	Z	-0.88	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.068	.25
2	MP-1	X	.009	1
3	MP-1	X	.003	2
4	MP-1	X	.003	2
5	MP-1	X	.011	3
6	MP-1	X	.026	5
7	MP-2	X	.146	.5
8	MP-2B	X	.037	1.5
9	MP-2B	X	.047	1.5
10	MP-3	X	.143	.5
11	MP-3	X	.05	2
12	MP-4	X	.068	.25
13	MP-4	X	.009	1
14	MP-4	X	.003	2
15	MP-4	X	.003	2
16	MP-4	X	.011	3
17	MP-4	X	.026	5
18	MP-5	X	.146	.5
19	MP-5B	X	.037	1.5
20	MP-5B	X	.047	1.5
21	MP-6	X	.143	.5
22	MP-6	X	.05	2
23	MP-7	X	.04	.25
24	MP-7	X	.006	1



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
25	MP-7	X	.005	2
26	MP-7	X	.005	2
27	MP-7	X	.016	3
28	MP-7	X	.009	5
29	MP-8	X	.062	.5
30	MP-8B	X	.054	1.5
31	MP-8B	X	.053	1.5
32	MP-9	X	.061	.5
33	MP-9	X	.038	2
34	MP-RRH1	X	.033	.5
35	MP-RRH2	X	.033	.5
36	MP-1	X	.068	4.333
37	MP-2	X	.146	5.5
38	MP-3	X	.143	5.5
39	MP-4	X	.068	4.333
40	MP-5	X	.146	5.5
41	MP-6	X	.143	5.5
42	MP-7	X	.04	4.333
43	MP-8	X	.062	5.5
44	MP-9	X	.061	5.5
45	MP-1	Z	-.068	.25
46	MP-1	Z	-.009	1
47	MP-1	Z	-.003	2
48	MP-1	Z	-.003	2
49	MP-1	Z	-.011	3
50	MP-1	Z	-.026	5
51	MP-2	Z	-.146	.5
52	MP-2B	Z	-.037	1.5
53	MP-2B	Z	-.047	1.5
54	MP-3	Z	-.143	.5
55	MP-3	Z	-.05	2
56	MP-4	Z	-.068	.25
57	MP-4	Z	-.009	1
58	MP-4	Z	-.003	2
59	MP-4	Z	-.003	2
60	MP-4	Z	-.011	3
61	MP-4	Z	-.026	5
62	MP-5	Z	-.146	.5
63	MP-5B	Z	-.037	1.5
64	MP-5B	Z	-.047	1.5
65	MP-6	Z	-.143	.5
66	MP-6	Z	-.05	2
67	MP-7	Z	-.04	.25
68	MP-7	Z	-.006	1
69	MP-7	Z	-.005	2
70	MP-7	Z	-.005	2
71	MP-7	Z	-.016	3
72	MP-7	Z	-.009	5
73	MP-8	Z	-.062	.5
74	MP-8B	Z	-.054	1.5
75	MP-8B	Z	-.053	1.5
76	MP-9	Z	-.061	.5
77	MP-9	Z	-.038	2
78	MP-RRH1	Z	-.033	.5
79	MP-RRH2	Z	-.033	.5
80	MP-1	Z	-.068	4.333
81	MP-2	Z	-.146	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
82	MP-3	Z	-.143	5.5
83	MP-4	Z	-.068	4.333
84	MP-5	Z	-.146	5.5
85	MP-6	Z	-.143	5.5
86	MP-7	Z	-.04	4.333
87	MP-8	Z	-.062	5.5
88	MP-9	Z	-.061	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP-1	X	.09	.25
2	MP-1	X	.011	1
3	MP-1	X	.003	2
4	MP-1	X	.003	2
5	MP-1	X	.012	3
6	MP-1	X	.036	5
7	MP-2	X	.198	.5
8	MP-2B	X	.042	1.5
9	MP-2B	X	.056	1.5
10	MP-3	X	.193	.5
11	MP-3	X	.064	2
12	MP-4	X	.073	.25
13	MP-4	X	.01	1
14	MP-4	X	.004	2
15	MP-4	X	.004	2
16	MP-4	X	.015	3
17	MP-4	X	.026	5
18	MP-5	X	.149	.5
19	MP-5B	X	.052	1.5
20	MP-5B	X	.06	1.5
21	MP-6	X	.146	.5
22	MP-6	X	.057	2
23	MP-7	X	.05	.25
24	MP-7	X	.007	1
25	MP-7	X	.006	2
26	MP-7	X	.006	2
27	MP-7	X	.019	3
28	MP-7	X	.012	5
29	MP-8	X	.079	.5
30	MP-8B	X	.066	1.5
31	MP-8B	X	.065	1.5
32	MP-9	X	.077	.5
33	MP-9	X	.047	2
34	MP-RRH1	X	.04	.5
35	MP-RRH2	X	.04	.5
36	MP-1	X	.09	4.333
37	MP-2	X	.198	5.5
38	MP-3	X	.193	5.5
39	MP-4	X	.073	4.333
40	MP-5	X	.149	5.5
41	MP-6	X	.146	5.5
42	MP-7	X	.05	4.333
43	MP-8	X	.079	5.5
44	MP-9	X	.077	5.5
45	MP-1	Z	-.052	.25
46	MP-1	Z	-.007	1



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
47	MP-1	Z	-.002	2
48	MP-1	Z	-.002	2
49	MP-1	Z	-.007	3
50	MP-1	Z	-.021	5
51	MP-2	Z	-.114	.5
52	MP-2B	Z	-.024	1.5
53	MP-2B	Z	-.032	1.5
54	MP-3	Z	-.111	.5
55	MP-3	Z	-.037	2
56	MP-4	Z	-.042	.25
57	MP-4	Z	-.006	1
58	MP-4	Z	-.002	2
59	MP-4	Z	-.002	2
60	MP-4	Z	-.009	3
61	MP-4	Z	-.015	5
62	MP-5	Z	-.086	.5
63	MP-5B	Z	-.03	1.5
64	MP-5B	Z	-.035	1.5
65	MP-6	Z	-.084	.5
66	MP-6	Z	-.033	2
67	MP-7	Z	-.029	.25
68	MP-7	Z	-.004	1
69	MP-7	Z	-.003	2
70	MP-7	Z	-.003	2
71	MP-7	Z	-.011	3
72	MP-7	Z	-.007	5
73	MP-8	Z	-.045	.5
74	MP-8B	Z	-.038	1.5
75	MP-8B	Z	-.038	1.5
76	MP-9	Z	-.045	.5
77	MP-9	Z	-.027	2
78	MP-RRH1	Z	-.023	.5
79	MP-RRH2	Z	-.023	.5
80	MP-1	Z	-.052	4.333
81	MP-2	Z	-.114	5.5
82	MP-3	Z	-.111	5.5
83	MP-4	Z	-.042	4.333
84	MP-5	Z	-.086	5.5
85	MP-6	Z	-.084	5.5
86	MP-7	Z	-.029	4.333
87	MP-8	Z	-.045	5.5
88	MP-9	Z	-.045	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP-1	X	.099	.25
2	MP-1	X	.013	1
3	MP-1	X	.004	2
4	MP-1	X	.004	2
5	MP-1	X	.015	3
6	MP-1	X	.039	5
7	MP-2	X	.216	.5
8	MP-2B	X	.051	1.5
9	MP-2B	X	.066	1.5
10	MP-3	X	.211	.5
11	MP-3	X	.072	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
12	MP-4	.061	.25
13	MP-4	.008	1
14	MP-4	.006	2
15	MP-4	.006	2
16	MP-4	.021	3
17	MP-4	.017	5
18	MP-5	.104	.5
19	MP-5B	.073	1.5
20	MP-5B	.074	1.5
21	MP-6	.102	.5
22	MP-6	.056	2
23	MP-7	.076	.25
24	MP-7	.01	1
25	MP-7	.005	2
26	MP-7	.005	2
27	MP-7	.019	3
28	MP-7	.025	5
29	MP-8	.147	.5
30	MP-8B	.065	1.5
31	MP-8B	.071	1.5
32	MP-9	.144	.5
33	MP-9	.062	2
34	MP-RRH1	.046	.5
35	MP-RRH2	.046	.5
36	MP-1	.099	4.333
37	MP-2	.216	5.5
38	MP-3	.211	5.5
39	MP-4	.061	4.333
40	MP-5	.104	5.5
41	MP-6	.102	5.5
42	MP-7	.076	4.333
43	MP-8	.147	5.5
44	MP-9	.144	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	.066	.25
2	MP-1	.009	1
3	MP-1	.005	2
4	MP-1	.005	2
5	MP-1	.016	3
6	MP-1	.022	5
7	MP-2	.127	.5
8	MP-2B	.056	1.5
9	MP-2B	.061	1.5
10	MP-3	.125	.5
11	MP-3	.054	2
12	MP-4	.05	.25
13	MP-4	.007	1
14	MP-4	.006	2
15	MP-4	.006	2
16	MP-4	.019	3
17	MP-4	.012	5
18	MP-5	.079	.5
19	MP-5B	.066	1.5
20	MP-5B	.065	1.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
21	MP-6	.077	.5
22	MP-6	.047	2
23	MP-7	.086	.25
24	MP-7	.011	1
25	MP-7	.003	2
26	MP-7	.003	2
27	MP-7	.013	3
28	MP-7	.033	5
29	MP-8	.187	.5
30	MP-8B	.044	1.5
31	MP-8B	.057	1.5
32	MP-9	.182	.5
33	MP-9	.063	2
34	MP-RRH1	.04	.5
35	MP-RRH2	.04	.5
36	MP-1	.066	4.333
37	MP-2	.127	5.5
38	MP-3	.125	5.5
39	MP-4	.05	4.333
40	MP-5	.079	5.5
41	MP-6	.077	5.5
42	MP-7	.086	4.333
43	MP-8	.187	5.5
44	MP-9	.182	5.5
45	MP-1	.038	.25
46	MP-1	.005	1
47	MP-1	.003	2
48	MP-1	.003	2
49	MP-1	.009	3
50	MP-1	.013	5
51	MP-2	.073	.5
52	MP-2B	.032	1.5
53	MP-2B	.035	1.5
54	MP-3	.072	.5
55	MP-3	.031	2
56	MP-4	.029	.25
57	MP-4	.004	1
58	MP-4	.003	2
59	MP-4	.003	2
60	MP-4	.011	3
61	MP-4	.007	5
62	MP-5	.045	.5
63	MP-5B	.038	1.5
64	MP-5B	.038	1.5
65	MP-6	.045	.5
66	MP-6	.027	2
67	MP-7	.05	.25
68	MP-7	.006	1
69	MP-7	.002	2
70	MP-7	.002	2
71	MP-7	.007	3
72	MP-7	.019	5
73	MP-8	.108	.5
74	MP-8B	.025	1.5
75	MP-8B	.033	1.5
76	MP-9	.105	.5
77	MP-9	.036	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
78	MP-RRH1	Z	.023
79	MP-RRH2	Z	.023
80	MP-1	Z	4.333
81	MP-2	Z	.073
82	MP-3	Z	.072
83	MP-4	Z	.029
84	MP-5	Z	.045
85	MP-6	Z	.045
86	MP-7	Z	.05
87	MP-8	Z	.108
88	MP-9	Z	.105

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.046
2	MP-1	X	.006
3	MP-1	X	.004
4	MP-1	X	.004
5	MP-1	X	.015
6	MP-1	X	.013
7	MP-2	X	.08
8	MP-2B	X	.051
9	MP-2B	X	.052
10	MP-3	X	.078
11	MP-3	X	.041
12	MP-4	X	.046
13	MP-4	X	.006
14	MP-4	X	.004
15	MP-4	X	.004
16	MP-4	X	.015
17	MP-4	X	.013
18	MP-5	X	.08
19	MP-5B	X	.051
20	MP-5B	X	.052
21	MP-6	X	.078
22	MP-6	X	.041
23	MP-7	X	.074
24	MP-7	X	.009
25	MP-7	X	.002
26	MP-7	X	.002
27	MP-7	X	.01
28	MP-7	X	.03
29	MP-8	X	.164
30	MP-8B	X	.034
31	MP-8B	X	.046
32	MP-9	X	.16
33	MP-9	X	.053
34	MP-RRH1	X	.033
35	MP-RRH2	X	.033
36	MP-1	X	.046
37	MP-2	X	.08
38	MP-3	X	.078
39	MP-4	X	.046
40	MP-5	X	.08
41	MP-6	X	.078
42	MP-7	X	.074



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
43	MP-8	X	.164
44	MP-9	X	.16
45	MP-1	Z	.046
46	MP-1	Z	.006
47	MP-1	Z	.004
48	MP-1	Z	.004
49	MP-1	Z	.015
50	MP-1	Z	.013
51	MP-2	Z	.08
52	MP-2B	Z	.051
53	MP-2B	Z	.052
54	MP-3	Z	.078
55	MP-3	Z	.041
56	MP-4	Z	.046
57	MP-4	Z	.006
58	MP-4	Z	.004
59	MP-4	Z	.004
60	MP-4	Z	.015
61	MP-4	Z	.013
62	MP-5	Z	.08
63	MP-5B	Z	.051
64	MP-5B	Z	.052
65	MP-6	Z	.078
66	MP-6	Z	.041
67	MP-7	Z	.074
68	MP-7	Z	.009
69	MP-7	Z	.002
70	MP-7	Z	.002
71	MP-7	Z	.01
72	MP-7	Z	.03
73	MP-8	Z	.164
74	MP-8B	Z	.034
75	MP-8B	Z	.046
76	MP-9	Z	.16
77	MP-9	Z	.053
78	MP-RRH1	Z	.033
79	MP-RRH2	Z	.033
80	MP-1	Z	.046
81	MP-2	Z	.08
82	MP-3	Z	.078
83	MP-4	Z	.046
84	MP-5	Z	.08
85	MP-6	Z	.078
86	MP-7	Z	.074
87	MP-8	Z	.164
88	MP-9	Z	.16

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.029
2	MP-1	X	.004
3	MP-1	X	.003
4	MP-1	X	.003
5	MP-1	X	.011
6	MP-1	X	.007
7	MP-2	X	.045



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
8	MP-2B	X	.038	1.5
9	MP-2B	X	.038	1.5
10	MP-3	X	.045	.5
11	MP-3	X	.027	2
12	MP-4	X	.038	.25
13	MP-4	X	.005	1
14	MP-4	X	.003	2
15	MP-4	X	.003	2
16	MP-4	X	.009	3
17	MP-4	X	.013	5
18	MP-5	X	.073	.5
19	MP-5B	X	.032	1.5
20	MP-5B	X	.035	1.5
21	MP-6	X	.072	.5
22	MP-6	X	.031	2
23	MP-7	X	.052	.25
24	MP-7	X	.007	1
25	MP-7	X	.002	2
26	MP-7	X	.002	2
27	MP-7	X	.007	3
28	MP-7	X	.021	5
29	MP-8	X	.114	.5
30	MP-8B	X	.024	1.5
31	MP-8B	X	.032	1.5
32	MP-9	X	.111	.5
33	MP-9	X	.037	2
34	MP-RRH1	X	.023	.5
35	MP-RRH2	X	.023	.5
36	MP-1	X	.029	4.333
37	MP-2	X	.045	5.5
38	MP-3	X	.045	5.5
39	MP-4	X	.038	4.333
40	MP-5	X	.073	5.5
41	MP-6	X	.072	5.5
42	MP-7	X	.052	4.333
43	MP-8	X	.114	5.5
44	MP-9	X	.111	5.5
45	MP-1	Z	.05	.25
46	MP-1	Z	.007	1
47	MP-1	Z	.006	2
48	MP-1	Z	.006	2
49	MP-1	Z	.019	3
50	MP-1	Z	.012	5
51	MP-2	Z	.079	.5
52	MP-2B	Z	.066	1.5
53	MP-2B	Z	.065	1.5
54	MP-3	Z	.077	.5
55	MP-3	Z	.047	2
56	MP-4	Z	.066	.25
57	MP-4	Z	.009	1
58	MP-4	Z	.005	2
59	MP-4	Z	.005	2
60	MP-4	Z	.016	3
61	MP-4	Z	.022	5
62	MP-5	Z	.127	.5
63	MP-5B	Z	.056	1.5
64	MP-5B	Z	.061	1.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
65	MP-6	Z	.125	.5
66	MP-6	Z	.054	2
67	MP-7	Z	.09	.25
68	MP-7	Z	.011	1
69	MP-7	Z	.003	2
70	MP-7	Z	.003	2
71	MP-7	Z	.012	3
72	MP-7	Z	.036	5
73	MP-8	Z	.198	.5
74	MP-8B	Z	.042	1.5
75	MP-8B	Z	.056	1.5
76	MP-9	Z	.193	.5
77	MP-9	Z	.064	2
78	MP-RRH1	Z	.04	.5
79	MP-RRH2	Z	.04	.5
80	MP-1	Z	.05	4.333
81	MP-2	Z	.079	5.5
82	MP-3	Z	.077	5.5
83	MP-4	Z	.066	4.333
84	MP-5	Z	.127	5.5
85	MP-6	Z	.125	5.5
86	MP-7	Z	.09	4.333
87	MP-8	Z	.198	5.5
88	MP-9	Z	.193	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	Z	.061	.25
2	MP-1	Z	.008	1
3	MP-1	Z	.006	2
4	MP-1	Z	.006	2
5	MP-1	Z	.021	3
6	MP-1	Z	.017	5
7	MP-2	Z	.104	.5
8	MP-2B	Z	.073	1.5
9	MP-2B	Z	.074	1.5
10	MP-3	Z	.102	.5
11	MP-3	Z	.056	2
12	MP-4	Z	.099	.25
13	MP-4	Z	.013	1
14	MP-4	Z	.004	2
15	MP-4	Z	.004	2
16	MP-4	Z	.015	3
17	MP-4	Z	.039	5
18	MP-5	Z	.216	.5
19	MP-5B	Z	.051	1.5
20	MP-5B	Z	.066	1.5
21	MP-6	Z	.211	.5
22	MP-6	Z	.072	2
23	MP-7	Z	.085	.25
24	MP-7	Z	.011	1
25	MP-7	Z	.005	2
26	MP-7	Z	.005	2
27	MP-7	Z	.017	3
28	MP-7	Z	.03	5
29	MP-8	Z	.172	.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
30	MP-8B	Z	.06	1.5
31	MP-8B	Z	.069	1.5
32	MP-9	Z	.168	.5
33	MP-9	Z	.066	2
34	MP-RRH1	Z	.046	.5
35	MP-RRH2	Z	.046	.5
36	MP-1	Z	.061	4.333
37	MP-2	Z	.104	5.5
38	MP-3	Z	.102	5.5
39	MP-4	Z	.099	4.333
40	MP-5	Z	.216	5.5
41	MP-6	Z	.211	5.5
42	MP-7	Z	.085	4.333
43	MP-8	Z	.172	5.5
44	MP-9	Z	.168	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.042	.25
2	MP-1	X	-.006	1
3	MP-1	X	-.002	2
4	MP-1	X	-.002	2
5	MP-1	X	-.009	3
6	MP-1	X	-.015	5
7	MP-2	X	-.086	.5
8	MP-2B	X	-.03	1.5
9	MP-2B	X	-.035	1.5
10	MP-3	X	-.084	.5
11	MP-3	X	-.033	2
12	MP-4	X	-.052	.25
13	MP-4	X	-.007	1
14	MP-4	X	-.002	2
15	MP-4	X	-.002	2
16	MP-4	X	-.007	3
17	MP-4	X	-.021	5
18	MP-5	X	-.114	.5
19	MP-5B	X	-.024	1.5
20	MP-5B	X	-.032	1.5
21	MP-6	X	-.111	.5
22	MP-6	X	-.037	2
23	MP-7	X	-.031	.25
24	MP-7	X	-.004	1
25	MP-7	X	-.003	2
26	MP-7	X	-.003	2
27	MP-7	X	-.011	3
28	MP-7	X	-.008	5
29	MP-8	X	-.052	.5
30	MP-8B	X	-.037	1.5
31	MP-8B	X	-.037	1.5
32	MP-9	X	-.051	.5
33	MP-9	X	-.028	2
34	MP-RRH1	X	-.023	.5
35	MP-RRH2	X	-.023	.5
36	MP-1	X	-.042	4.333
37	MP-2	X	-.086	5.5
38	MP-3	X	-.084	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
39	MP-4	X	-.052	4.333
40	MP-5	X	-.114	5.5
41	MP-6	X	-.111	5.5
42	MP-7	X	-.031	4.333
43	MP-8	X	-.052	5.5
44	MP-9	X	-.051	5.5
45	MP-1	Z	.073	.25
46	MP-1	Z	.01	1
47	MP-1	Z	.004	2
48	MP-1	Z	.004	2
49	MP-1	Z	.015	3
50	MP-1	Z	.026	5
51	MP-2	Z	.149	.5
52	MP-2B	Z	.052	1.5
53	MP-2B	Z	.06	1.5
54	MP-3	Z	.146	.5
55	MP-3	Z	.057	2
56	MP-4	Z	.09	.25
57	MP-4	Z	.011	1
58	MP-4	Z	.003	2
59	MP-4	Z	.003	2
60	MP-4	Z	.012	3
61	MP-4	Z	.036	5
62	MP-5	Z	.198	.5
63	MP-5B	Z	.042	1.5
64	MP-5B	Z	.056	1.5
65	MP-6	Z	.193	.5
66	MP-6	Z	.064	2
67	MP-7	Z	.053	.25
68	MP-7	Z	.007	1
69	MP-7	Z	.005	2
70	MP-7	Z	.005	2
71	MP-7	Z	.018	3
72	MP-7	Z	.014	5
73	MP-8	Z	.09	.5
74	MP-8B	Z	.064	1.5
75	MP-8B	Z	.064	1.5
76	MP-9	Z	.088	.5
77	MP-9	Z	.049	2
78	MP-RRH1	Z	.04	.5
79	MP-RRH2	Z	.04	.5
80	MP-1	Z	.073	4.333
81	MP-2	Z	.149	5.5
82	MP-3	Z	.146	5.5
83	MP-4	Z	.09	4.333
84	MP-5	Z	.198	5.5
85	MP-6	Z	.193	5.5
86	MP-7	Z	.053	4.333
87	MP-8	Z	.09	5.5
88	MP-9	Z	.088	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-.068	.25
2	MP-1	X	-.009	1
3	MP-1	X	-.003	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
4	MP-1	X	-0.03	2
5	MP-1	X	-0.11	3
6	MP-1	X	-0.26	5
7	MP-2	X	-0.146	.5
8	MP-2B	X	-0.37	1.5
9	MP-2B	X	-0.47	1.5
10	MP-3	X	-0.143	.5
11	MP-3	X	-0.05	2
12	MP-4	X	-0.068	.25
13	MP-4	X	-0.09	1
14	MP-4	X	-0.03	2
15	MP-4	X	-0.03	2
16	MP-4	X	-0.11	3
17	MP-4	X	-0.26	5
18	MP-5	X	-0.146	.5
19	MP-5B	X	-0.37	1.5
20	MP-5B	X	-0.47	1.5
21	MP-6	X	-0.143	.5
22	MP-6	X	-0.05	2
23	MP-7	X	-0.04	.25
24	MP-7	X	-0.06	1
25	MP-7	X	-0.05	2
26	MP-7	X	-0.05	2
27	MP-7	X	-0.16	3
28	MP-7	X	-0.09	5
29	MP-8	X	-0.62	.5
30	MP-8B	X	-0.54	1.5
31	MP-8B	X	-0.53	1.5
32	MP-9	X	-0.61	.5
33	MP-9	X	-0.38	2
34	MP-RRH1	X	-0.33	.5
35	MP-RRH2	X	-0.33	.5
36	MP-1	X	-0.68	4.333
37	MP-2	X	-0.146	5.5
38	MP-3	X	-0.143	5.5
39	MP-4	X	-0.68	4.333
40	MP-5	X	-0.146	5.5
41	MP-6	X	-0.143	5.5
42	MP-7	X	-0.04	4.333
43	MP-8	X	-0.62	5.5
44	MP-9	X	-0.61	5.5
45	MP-1	Z	.68	.25
46	MP-1	Z	.09	1
47	MP-1	Z	.03	2
48	MP-1	Z	.03	2
49	MP-1	Z	.11	3
50	MP-1	Z	.026	5
51	MP-2	Z	.146	.5
52	MP-2B	Z	.37	1.5
53	MP-2B	Z	.47	1.5
54	MP-3	Z	.143	.5
55	MP-3	Z	.05	2
56	MP-4	Z	.68	.25
57	MP-4	Z	.09	1
58	MP-4	Z	.03	2
59	MP-4	Z	.03	2
60	MP-4	Z	.11	3



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
61	MP-4	Z	.026	5
62	MP-5	Z	.146	.5
63	MP-5B	Z	.37	1.5
64	MP-5B	Z	.47	1.5
65	MP-6	Z	.143	.5
66	MP-6	Z	.05	2
67	MP-7	Z	.04	.25
68	MP-7	Z	.06	1
69	MP-7	Z	.05	2
70	MP-7	Z	.05	2
71	MP-7	Z	.16	3
72	MP-7	Z	.09	5
73	MP-8	Z	.62	.5
74	MP-8B	Z	.54	1.5
75	MP-8B	Z	.53	1.5
76	MP-9	Z	.61	.5
77	MP-9	Z	.38	2
78	MP-RRH1	Z	.33	.5
79	MP-RRH2	Z	.33	.5
80	MP-1	Z	.68	4.333
81	MP-2	Z	.146	5.5
82	MP-3	Z	.143	5.5
83	MP-4	Z	.68	4.333
84	MP-5	Z	.146	5.5
85	MP-6	Z	.143	5.5
86	MP-7	Z	.04	4.333
87	MP-8	Z	.62	5.5
88	MP-9	Z	.61	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-0.09	.25
2	MP-1	X	-0.11	1
3	MP-1	X	-0.03	2
4	MP-1	X	-0.03	2
5	MP-1	X	-0.12	3
6	MP-1	X	-0.36	5
7	MP-2	X	-0.198	.5
8	MP-2B	X	-0.42	1.5
9	MP-2B	X	-0.56	1.5
10	MP-3	X	-0.193	.5
11	MP-3	X	-0.64	2
12	MP-4	X	-0.73	.25
13	MP-4	X	-0.01	1
14	MP-4	X	-0.04	2
15	MP-4	X	-0.04	2
16	MP-4	X	-0.15	3
17	MP-4	X	-0.26	5
18	MP-5	X	-0.149	.5
19	MP-5B	X	-0.52	1.5
20	MP-5B	X	-0.06	1.5
21	MP-6	X	-0.146	.5
22	MP-6	X	-0.57	2
23	MP-7	X	-0.05	.25
24	MP-7	X	-0.07	1
25	MP-7	X	-0.06	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
26	MP-7	X	-0.06	2
27	MP-7	X	-0.19	3
28	MP-7	X	-0.12	5
29	MP-8	X	-0.79	.5
30	MP-8B	X	-0.66	1.5
31	MP-8B	X	-0.65	1.5
32	MP-9	X	-0.77	.5
33	MP-9	X	-0.47	2
34	MP-RRH1	X	-.04	.5
35	MP-RRH2	X	-.04	.5
36	MP-1	X	-.09	4.333
37	MP-2	X	-.198	5.5
38	MP-3	X	-.193	5.5
39	MP-4	X	-.073	4.333
40	MP-5	X	-.149	5.5
41	MP-6	X	-.146	5.5
42	MP-7	X	-.05	4.333
43	MP-8	X	-.079	5.5
44	MP-9	X	-.077	5.5
45	MP-1	Z	.052	.25
46	MP-1	Z	.007	1
47	MP-1	Z	.002	2
48	MP-1	Z	.002	2
49	MP-1	Z	.007	3
50	MP-1	Z	.021	5
51	MP-2	Z	.114	.5
52	MP-2B	Z	.024	1.5
53	MP-2B	Z	.032	1.5
54	MP-3	Z	.111	.5
55	MP-3	Z	.037	2
56	MP-4	Z	.042	.25
57	MP-4	Z	.006	1
58	MP-4	Z	.002	2
59	MP-4	Z	.002	2
60	MP-4	Z	.009	3
61	MP-4	Z	.015	5
62	MP-5	Z	.086	.5
63	MP-5B	Z	.03	1.5
64	MP-5B	Z	.035	1.5
65	MP-6	Z	.084	.5
66	MP-6	Z	.033	2
67	MP-7	Z	.029	.25
68	MP-7	Z	.004	1
69	MP-7	Z	.003	2
70	MP-7	Z	.003	2
71	MP-7	Z	.011	3
72	MP-7	Z	.007	5
73	MP-8	Z	.045	.5
74	MP-8B	Z	.038	1.5
75	MP-8B	Z	.038	1.5
76	MP-9	Z	.045	.5
77	MP-9	Z	.027	2
78	MP-RRH1	Z	.023	.5
79	MP-RRH2	Z	.023	.5
80	MP-1	Z	.052	4.333
81	MP-2	Z	.114	5.5
82	MP-3	Z	.111	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
83	MP-4	Z	.042	4.333
84	MP-5	Z	.086	5.5
85	MP-6	Z	.084	5.5
86	MP-7	Z	.029	4.333
87	MP-8	Z	.045	5.5
88	MP-9	Z	.045	5.5

Member Point Loads (BLC 18 : Ice Weight)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	Y	-.041	.25
2	MP-1	Y	-.017	1
3	MP-1	Y	-.005	2
4	MP-1	Y	-.005	2
5	MP-1	Y	-.016	3
6	MP-1	Y	-.019	5
7	MP-2	Y	-.09	.5
8	MP-2B	Y	-.044	1.5
9	MP-2B	Y	-.051	1.5
10	MP-3	Y	-.089	.5
11	MP-3	Y	-.046	2
12	MP-4	Y	-.041	.25
13	MP-4	Y	-.017	1
14	MP-4	Y	-.005	2
15	MP-4	Y	-.005	2
16	MP-4	Y	-.016	3
17	MP-4	Y	-.019	5
18	MP-5	Y	-.09	.5
19	MP-5B	Y	-.044	1.5
20	MP-5B	Y	-.051	1.5
21	MP-6	Y	-.089	.5
22	MP-6	Y	-.046	2
23	MP-7	Y	-.041	.25
24	MP-7	Y	-.017	1
25	MP-7	Y	-.005	2
26	MP-7	Y	-.005	2
27	MP-7	Y	-.016	3
28	MP-7	Y	-.019	5
29	MP-8	Y	-.09	.5
30	MP-8B	Y	-.044	1.5
31	MP-8B	Y	-.051	1.5
32	MP-9	Y	-.089	.5
33	MP-9	Y	-.046	2
34	MP-RRH1	Y	-.047	.5
35	MP-RRH2	Y	-.047	.5
36	MP-1	Y	-.041	4.333
37	MP-2	Y	-.09	5.5
38	MP-3	Y	-.089	5.5
39	MP-4	Y	-.041	4.333
40	MP-5	Y	-.09	5.5
41	MP-6	Y	-.089	5.5
42	MP-7	Y	-.041	4.333
43	MP-8	Y	-.09	5.5
44	MP-9	Y	-.089	5.5

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

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



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.19	.25
2	MP-1	X	-0.003	1
3	MP-1	X	-0.002	2
4	MP-1	X	-0.002	2
5	MP-1	X	-0.006	3
6	MP-1	X	-0.009	5
7	MP-2	X	-0.039	.5
8	MP-2B	X	-0.15	1.5
9	MP-2B	X	-0.15	1.5
10	MP-3	X	-0.038	.5
11	MP-3	X	-0.15	2
12	MP-4	X	-0.19	.25
13	MP-4	X	-0.003	1
14	MP-4	X	-0.002	2
15	MP-4	X	-0.002	2
16	MP-4	X	-0.006	3
17	MP-4	X	-0.009	5
18	MP-5	X	-0.039	.5
19	MP-5B	X	-0.15	1.5
20	MP-5B	X	-0.15	1.5
21	MP-6	X	-0.038	.5
22	MP-6	X	-0.15	2
23	MP-7	X	-0.19	.25
24	MP-7	X	-0.003	1
25	MP-7	X	-0.002	2
26	MP-7	X	-0.002	2
27	MP-7	X	-0.006	3
28	MP-7	X	-0.009	5
29	MP-8	X	-0.039	.5
30	MP-8B	X	-0.15	1.5
31	MP-8B	X	-0.15	1.5
32	MP-9	X	-0.038	.5
33	MP-9	X	-0.15	2
34	MP-RRH1	X	-0.009	.5
35	MP-RRH2	X	-0.009	.5
36	MP-1	X	-0.19	4.333
37	MP-2	X	-0.039	5.5
38	MP-3	X	-0.038	5.5
39	MP-4	X	-0.19	4.333
40	MP-5	X	-0.039	5.5
41	MP-6	X	-0.038	5.5
42	MP-7	X	-0.19	4.333
43	MP-8	X	-0.039	5.5
44	MP-9	X	-0.038	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.13	.25
2	MP-1	X	-0.003	1
3	MP-1	X	-0.002	2
4	MP-1	X	-0.002	2
5	MP-1	X	-0.005	3
6	MP-1	X	-0.005	5
7	MP-2	X	-0.022	.5
8	MP-2B	X	-0.11	1.5
9	MP-2B	X	-0.12	1.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
10	MP-3	X	-0.022	.5
11	MP-3	X	-0.11	2
12	MP-4	X	-0.01	.25
13	MP-4	X	-0.003	1
14	MP-4	X	-0.002	2
15	MP-4	X	-0.002	2
16	MP-4	X	-0.005	3
17	MP-4	X	-0.004	5
18	MP-5	X	-0.15	.5
19	MP-5B	X	-0.13	1.5
20	MP-5B	X	-0.13	1.5
21	MP-6	X	-0.15	.5
22	MP-6	X	-0.01	2
23	MP-7	X	-0.16	.25
24	MP-7	X	-0.004	1
25	MP-7	X	-0.001	2
26	MP-7	X	-0.001	2
27	MP-7	X	-0.004	3
28	MP-7	X	-0.007	5
29	MP-8	X	-0.031	.5
30	MP-8B	X	-0.009	1.5
31	MP-8B	X	-0.11	1.5
32	MP-9	X	-0.031	.5
33	MP-9	X	-0.12	2
34	MP-RRH1	X	-0.008	.5
35	MP-RRH2	X	-0.008	.5
36	MP-1	X	-0.13	4.333
37	MP-2	X	-0.022	5.5
38	MP-3	X	-0.022	5.5
39	MP-4	X	-0.01	4.333
40	MP-5	X	-0.15	5.5
41	MP-6	X	-0.15	5.5
42	MP-7	X	-0.16	4.333
43	MP-8	X	-0.031	5.5
44	MP-9	X	-0.031	5.5
45	MP-1	Z	-0.007	.25
46	MP-1	Z	-0.002	1
47	MP-1	Z	-0.000963	2
48	MP-1	Z	-0.000963	2
49	MP-1	Z	-0.003	3
50	MP-1	Z	-0.003	5
51	MP-2	Z	-0.13	.5
52	MP-2B	Z	-0.006	1.5
53	MP-2B	Z	-0.007	1.5
54	MP-3	Z	-0.13	.5
55	MP-3	Z	-0.006	2
56	MP-4	Z	-0.006	.25
57	MP-4	Z	-0.002	1
58	MP-4	Z	-0.001	2
59	MP-4	Z	-0.001	2
60	MP-4	Z	-0.003	3
61	MP-4	Z	-0.002	5
62	MP-5	Z	-0.009	.5
63	MP-5B	Z	-0.007	1.5
64	MP-5B	Z	-0.007	1.5
65	MP-6	Z	-0.008	.5
66	MP-6	Z	-0.006	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
67	MP-7	-0.09	.25
68	MP-7	-0.002	1
69	MP-7	-0.00787	2
70	MP-7	-0.00787	2
71	MP-7	-0.002	3
72	MP-7	-0.004	5
73	MP-8	-0.18	.5
74	MP-8B	-0.005	1.5
75	MP-8B	-0.007	1.5
76	MP-9	-0.18	.5
77	MP-9	-0.007	2
78	MP-RRH1	-0.004	.5
79	MP-RRH2	-0.004	.5
80	MP-1	-0.007	4.333
81	MP-2	-0.13	5.5
82	MP-3	-0.13	5.5
83	MP-4	-0.006	4.333
84	MP-5	-0.009	5.5
85	MP-6	-0.008	5.5
86	MP-7	-0.009	4.333
87	MP-8	-0.18	5.5
88	MP-9	-0.18	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	-0.009	.25
2	MP-1	-0.002	1
3	MP-1	-0.001	2
4	MP-1	-0.001	2
5	MP-1	-0.004	3
6	MP-1	-0.003	5
7	MP-2	-0.14	.5
8	MP-2B	-0.1	1.5
9	MP-2B	-0.1	1.5
10	MP-3	-0.14	.5
11	MP-3	-0.008	2
12	MP-4	-0.009	.25
13	MP-4	-0.002	1
14	MP-4	-0.001	2
15	MP-4	-0.001	2
16	MP-4	-0.004	3
17	MP-4	-0.003	5
18	MP-5	-0.14	.5
19	MP-5B	-0.1	1.5
20	MP-5B	-0.1	1.5
21	MP-6	-0.14	.5
22	MP-6	-0.008	2
23	MP-7	-0.13	.25
24	MP-7	-0.003	1
25	MP-7	-0.001	2
26	MP-7	-0.001	2
27	MP-7	-0.003	3
28	MP-7	-0.006	5
29	MP-8	-0.27	.5
30	MP-8B	-0.007	1.5
31	MP-8B	-0.009	1.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
32	MP-9	-0.27	.5
33	MP-9	-0.1	2
34	MP-RRH1	-0.006	.5
35	MP-RRH2	-0.006	.5
36	MP-1	-0.009	4.333
37	MP-2	-0.14	5.5
38	MP-3	-0.14	5.5
39	MP-4	-0.009	4.333
40	MP-5	-0.14	5.5
41	MP-6	-0.14	5.5
42	MP-7	-0.13	4.333
43	MP-8	-0.27	5.5
44	MP-9	-0.27	5.5
45	MP-1	-0.009	.25
46	MP-1	-0.002	1
47	MP-1	-0.001	2
48	MP-1	-0.001	2
49	MP-1	-0.004	3
50	MP-1	-0.003	5
51	MP-2	-0.14	.5
52	MP-2B	-0.1	1.5
53	MP-2B	-0.1	1.5
54	MP-3	-0.14	.5
55	MP-3	-0.008	2
56	MP-4	-0.009	.25
57	MP-4	-0.002	1
58	MP-4	-0.001	2
59	MP-4	-0.001	2
60	MP-4	-0.004	3
61	MP-4	-0.003	5
62	MP-5	-0.14	.5
63	MP-5B	-0.1	1.5
64	MP-5B	-0.1	1.5
65	MP-6	-0.14	.5
66	MP-6	-0.008	2
67	MP-7	-0.13	.25
68	MP-7	-0.003	1
69	MP-7	-0.001	2
70	MP-7	-0.001	2
71	MP-7	-0.003	3
72	MP-7	-0.006	5
73	MP-8	-0.27	.5
74	MP-8B	-0.007	1.5
75	MP-8B	-0.009	1.5
76	MP-9	-0.27	.5
77	MP-9	-0.1	2
78	MP-RRH1	-0.006	.5
79	MP-RRH2	-0.006	.5
80	MP-1	-0.009	4.333
81	MP-2	-0.14	5.5
82	MP-3	-0.14	5.5
83	MP-4	-0.009	4.333
84	MP-5	-0.14	5.5
85	MP-6	-0.14	5.5
86	MP-7	-0.13	4.333
87	MP-8	-0.27	5.5
88	MP-9	-0.27	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	-0.06	.25
2	MP-1	X	-0.02	1
3	MP-1	X	-0.01	2
4	MP-1	X	-0.01	2
5	MP-1	X	-0.03	3
6	MP-1	X	-0.02	5
7	MP-2	X	-0.09	.5
8	MP-2B	X	-0.07	1.5
9	MP-2B	X	-0.07	1.5
10	MP-3	X	-0.08	.5
11	MP-3	X	-0.06	2
12	MP-4	X	-0.07	.25
13	MP-4	X	-0.02	1
14	MP-4	X	-0.00963	2
15	MP-4	X	-0.00963	2
16	MP-4	X	-0.03	3
17	MP-4	X	-0.03	5
18	MP-5	X	-0.13	.5
19	MP-5B	X	-0.06	1.5
20	MP-5B	X	-0.07	1.5
21	MP-6	X	-0.13	.5
22	MP-6	X	-0.06	2
23	MP-7	X	-0.09	.25
24	MP-7	X	-0.02	1
25	MP-7	X	-0.00755	2
26	MP-7	X	-0.00755	2
27	MP-7	X	-0.02	3
28	MP-7	X	-0.04	5
29	MP-8	X	-0.19	.5
30	MP-8B	X	-0.05	1.5
31	MP-8B	X	-0.06	1.5
32	MP-9	X	-0.19	.5
33	MP-9	X	-0.07	2
34	MP-RRH1	X	-0.04	.5
35	MP-RRH2	X	-0.04	.5
36	MP-1	X	-0.06	4.333
37	MP-2	X	-0.09	5.5
38	MP-3	X	-0.08	5.5
39	MP-4	X	-0.07	4.333
40	MP-5	X	-0.13	5.5
41	MP-6	X	-0.13	5.5
42	MP-7	X	-0.09	4.333
43	MP-8	X	-0.19	5.5
44	MP-9	X	-0.19	5.5
45	MP-1	Z	-0.01	.25
46	MP-1	Z	-0.03	1
47	MP-1	Z	-0.02	2
48	MP-1	Z	-0.02	2
49	MP-1	Z	-0.05	3
50	MP-1	Z	-0.04	5
51	MP-2	Z	-0.15	.5
52	MP-2B	Z	-0.13	1.5
53	MP-2B	Z	-0.13	1.5
54	MP-3	Z	-0.15	.5
55	MP-3	Z	-0.01	2
56	MP-4	Z	-0.13	.25
57	MP-4	Z	-0.03	1



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-4	Z	-0.02	2
59	MP-4	Z	-0.02	2
60	MP-4	Z	-0.05	3
61	MP-4	Z	-0.05	5
62	MP-5	Z	-0.22	.5
63	MP-5B	Z	-0.11	1.5
64	MP-5B	Z	-0.12	1.5
65	MP-6	Z	-0.22	.5
66	MP-6	Z	-0.11	2
67	MP-7	Z	-0.16	.25
68	MP-7	Z	-0.04	1
69	MP-7	Z	-0.01	2
70	MP-7	Z	-0.01	2
71	MP-7	Z	-0.04	3
72	MP-7	Z	-0.08	5
73	MP-8	Z	-0.33	.5
74	MP-8B	Z	-0.09	1.5
75	MP-8B	Z	-0.11	1.5
76	MP-9	Z	-0.32	.5
77	MP-9	Z	-0.13	2
78	MP-RRH1	Z	-0.08	.5
79	MP-RRH2	Z	-0.08	.5
80	MP-1	Z	-0.01	4.333
81	MP-2	Z	-0.15	5.5
82	MP-3	Z	-0.15	5.5
83	MP-4	Z	-0.13	4.333
84	MP-5	Z	-0.22	5.5
85	MP-6	Z	-0.22	5.5
86	MP-7	Z	-0.16	4.333
87	MP-8	Z	-0.33	5.5
88	MP-9	Z	-0.32	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	Z	-0.12	.25
2	MP-1	Z	-0.05	1
3	MP-1	Z	-0.01	2
4	MP-1	Z	-0.01	2
5	MP-1	Z	-0.05	3
6	MP-1	Z	-0.04	5
7	MP-2	Z	-0.17	.5
8	MP-2B	Z	-0.01	1.5
9	MP-2B	Z	-0.13	1.5
10	MP-3	Z	-0.16	.5
11	MP-3	Z	-0.11	2
12	MP-4	Z	-0.12	.25
13	MP-4	Z	-0.05	1
14	MP-4	Z	-0.01	2
15	MP-4	Z	-0.01	2
16	MP-4	Z	-0.05	3
17	MP-4	Z	-0.04	5
18	MP-5	Z	-0.17	.5
19	MP-5B	Z	-0.01	1.5
20	MP-5B	Z	-0.13	1.5
21	MP-6	Z	-0.16	.5
22	MP-6	Z	-0.11	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
23	MP-7	Z	-.012	.25
24	MP-7	Z	-.005	1
25	MP-7	Z	-.001	2
26	MP-7	Z	-.001	2
27	MP-7	Z	-.005	3
28	MP-7	Z	-.004	5
29	MP-8	Z	-.017	.5
30	MP-8B	Z	-.01	1.5
31	MP-8B	Z	-.013	1.5
32	MP-9	Z	-.016	.5
33	MP-9	Z	-.011	2
34	MP-RRH1	Z	-.009	.5
35	MP-RRH2	Z	-.009	.5
36	MP-1	Z	-.012	4.333
37	MP-2	Z	-.017	5.5
38	MP-3	Z	-.016	5.5
39	MP-4	Z	-.012	4.333
40	MP-5	Z	-.017	5.5
41	MP-6	Z	-.016	5.5
42	MP-7	Z	-.012	4.333
43	MP-8	Z	-.017	5.5
44	MP-9	Z	-.016	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.008	.25
2	MP-1	X	.002	1
3	MP-1	X	.000898	2
4	MP-1	X	.000898	2
5	MP-1	X	.003	3
6	MP-1	X	.003	5
7	MP-2	X	.015	.5
8	MP-2B	X	.006	1.5
9	MP-2B	X	.007	1.5
10	MP-3	X	.014	.5
11	MP-3	X	.007	2
12	MP-4	X	.009	.25
13	MP-4	X	.002	1
14	MP-4	X	.000755	2
15	MP-4	X	.000755	2
16	MP-4	X	.002	3
17	MP-4	X	.004	5
18	MP-5	X	.019	.5
19	MP-5B	X	.005	1.5
20	MP-5B	X	.006	1.5
21	MP-6	X	.019	.5
22	MP-6	X	.007	2
23	MP-7	X	.006	.25
24	MP-7	X	.002	1
25	MP-7	X	.001	2
26	MP-7	X	.001	2
27	MP-7	X	.003	3
28	MP-7	X	.002	5
29	MP-8	X	.01	.5
30	MP-8B	X	.007	1.5
31	MP-8B	X	.007	1.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
32	MP-9	X	.009	.5
33	MP-9	X	.006	2
34	MP-RRH1	X	.004	.5
35	MP-RRH2	X	.004	.5
36	MP-1	X	.008	4.333
37	MP-2	X	.015	5.5
38	MP-3	X	.014	5.5
39	MP-4	X	.009	4.333
40	MP-5	X	.019	5.5
41	MP-6	X	.019	5.5
42	MP-7	X	.006	4.333
43	MP-8	X	.01	5.5
44	MP-9	X	.009	5.5
45	MP-1	Z	-.014	.25
46	MP-1	Z	-.004	1
47	MP-1	Z	-.002	2
48	MP-1	Z	-.002	2
49	MP-1	Z	-.005	3
50	MP-1	Z	-.006	5
51	MP-2	Z	-.026	.5
52	MP-2B	Z	-.01	1.5
53	MP-2B	Z	-.012	1.5
54	MP-3	Z	-.025	.5
55	MP-3	Z	-.011	2
56	MP-4	Z	-.016	.25
57	MP-4	Z	-.004	1
58	MP-4	Z	-.001	2
59	MP-4	Z	-.001	2
60	MP-4	Z	-.004	3
61	MP-4	Z	-.008	5
62	MP-5	Z	-.033	.5
63	MP-5B	Z	-.009	1.5
64	MP-5B	Z	-.011	1.5
65	MP-6	Z	-.032	.5
66	MP-6	Z	-.013	2
67	MP-7	Z	-.011	.25
68	MP-7	Z	-.003	1
69	MP-7	Z	-.002	2
70	MP-7	Z	-.002	2
71	MP-7	Z	-.005	3
72	MP-7	Z	-.004	5
73	MP-8	Z	-.017	.5
74	MP-8B	Z	-.012	1.5
75	MP-8B	Z	-.013	1.5
76	MP-9	Z	-.016	.5
77	MP-9	Z	-.01	2
78	MP-RRH1	Z	-.008	.5
79	MP-RRH2	Z	-.008	.5
80	MP-1	Z	-.014	4.333
81	MP-2	Z	-.026	5.5
82	MP-3	Z	-.025	5.5
83	MP-4	Z	-.016	4.333
84	MP-5	Z	-.033	5.5
85	MP-6	Z	-.032	5.5
86	MP-7	Z	-.011	4.333
87	MP-8	Z	-.017	5.5
88	MP-9	Z	-.016	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.013	.25
2	MP-1	X	.003	1
3	MP-1	X	.001	2
4	MP-1	X	.001	2
5	MP-1	X	.004	3
6	MP-1	X	.006	5
7	MP-2	X	.025	.5
8	MP-2B	X	.008	1.5
9	MP-2B	X	.009	1.5
10	MP-3	X	.024	.5
11	MP-3	X	.01	2
12	MP-4	X	.013	.25
13	MP-4	X	.003	1
14	MP-4	X	.001	2
15	MP-4	X	.001	2
16	MP-4	X	.004	3
17	MP-4	X	.006	5
18	MP-5	X	.025	.5
19	MP-5B	X	.008	1.5
20	MP-5B	X	.009	1.5
21	MP-6	X	.024	.5
22	MP-6	X	.01	2
23	MP-7	X	.008	.25
24	MP-7	X	.002	1
25	MP-7	X	.002	2
26	MP-7	X	.002	2
27	MP-7	X	.004	3
28	MP-7	X	.003	5
29	MP-8	X	.012	.5
30	MP-8B	X	.011	1.5
31	MP-8B	X	.01	1.5
32	MP-9	X	.012	.5
33	MP-9	X	.008	2
34	MP-RRH1	X	.006	.5
35	MP-RRH2	X	.006	.5
36	MP-1	X	.013	4.333
37	MP-2	X	.025	5.5
38	MP-3	X	.024	5.5
39	MP-4	X	.013	4.333
40	MP-5	X	.025	5.5
41	MP-6	X	.024	5.5
42	MP-7	X	.008	4.333
43	MP-8	X	.012	5.5
44	MP-9	X	.012	5.5
45	MP-1	Z	-.013	.25
46	MP-1	Z	-.003	1
47	MP-1	Z	-.001	2
48	MP-1	Z	-.001	2
49	MP-1	Z	-.004	3
50	MP-1	Z	-.006	5
51	MP-2	Z	-.025	.5
52	MP-2B	Z	-.008	1.5
53	MP-2B	Z	-.009	1.5
54	MP-3	Z	-.024	.5
55	MP-3	Z	-.01	2
56	MP-4	Z	-.013	.25
57	MP-4	Z	-.003	1



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-4	Z	-.001	2
59	MP-4	Z	-.001	2
60	MP-4	Z	-.004	3
61	MP-4	Z	-.006	5
62	MP-5	Z	-.025	.5
63	MP-5B	Z	-.008	1.5
64	MP-5B	Z	-.009	1.5
65	MP-6	Z	-.024	.5
66	MP-6	Z	-.01	2
67	MP-7	Z	-.008	.25
68	MP-7	Z	-.002	1
69	MP-7	Z	-.002	2
70	MP-7	Z	-.002	2
71	MP-7	Z	-.004	3
72	MP-7	Z	-.003	5
73	MP-8	Z	-.012	.5
74	MP-8B	Z	-.011	1.5
75	MP-8B	Z	-.01	1.5
76	MP-9	Z	-.012	.5
77	MP-9	Z	-.008	2
78	MP-RRH1	Z	-.006	.5
79	MP-RRH2	Z	-.006	.5
80	MP-1	Z	-.013	4.333
81	MP-2	Z	-.025	5.5
82	MP-3	Z	-.024	5.5
83	MP-4	Z	-.013	4.333
84	MP-5	Z	-.025	5.5
85	MP-6	Z	-.024	5.5
86	MP-7	Z	-.008	4.333
87	MP-8	Z	-.012	5.5
88	MP-9	Z	-.012	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.016	.25
2	MP-1	X	.004	1
3	MP-1	X	.001	2
4	MP-1	X	.001	2
5	MP-1	X	.004	3
6	MP-1	X	.008	5
7	MP-2	X	.033	.5
8	MP-2B	X	.009	1.5
9	MP-2B	X	.011	1.5
10	MP-3	X	.032	.5
11	MP-3	X	.013	2
12	MP-4	X	.014	.25
13	MP-4	X	.004	1
14	MP-4	X	.002	2
15	MP-4	X	.002	2
16	MP-4	X	.005	3
17	MP-4	X	.006	5
18	MP-5	X	.026	.5
19	MP-5B	X	.01	1.5
20	MP-5B	X	.012	1.5
21	MP-6	X	.025	.5
22	MP-6	X	.011	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
23	MP-7	X	.01	.25
24	MP-7	X	.003	1
25	MP-7	X	.002	2
26	MP-7	X	.002	2
27	MP-7	X	.005	3
28	MP-7	X	.004	5
29	MP-8	X	.015	.5
30	MP-8B	X	.013	1.5
31	MP-8B	X	.013	1.5
32	MP-9	X	.015	.5
33	MP-9	X	.01	2
34	MP-RRH1	X	.008	.5
35	MP-RRH2	X	.008	.5
36	MP-1	X	.016	4.333
37	MP-2	X	.033	5.5
38	MP-3	X	.032	5.5
39	MP-4	X	.014	4.333
40	MP-5	X	.026	5.5
41	MP-6	X	.025	5.5
42	MP-7	X	.01	4.333
43	MP-8	X	.015	5.5
44	MP-9	X	.015	5.5
45	MP-1	Z	-.009	.25
46	MP-1	Z	-.002	1
47	MP-1	Z	-.000755	2
48	MP-1	Z	-.000755	2
49	MP-1	Z	-.002	3
50	MP-1	Z	-.004	5
51	MP-2	Z	-.019	.5
52	MP-2B	Z	-.005	1.5
53	MP-2B	Z	-.006	1.5
54	MP-3	Z	-.019	.5
55	MP-3	Z	-.007	2
56	MP-4	Z	-.008	.25
57	MP-4	Z	-.002	1
58	MP-4	Z	-.000898	2
59	MP-4	Z	-.000898	2
60	MP-4	Z	-.003	3
61	MP-4	Z	-.003	5
62	MP-5	Z	-.015	.5
63	MP-5B	Z	-.006	1.5
64	MP-5B	Z	-.007	1.5
65	MP-6	Z	-.014	.5
66	MP-6	Z	-.007	2
67	MP-7	Z	-.006	.25
68	MP-7	Z	-.002	1
69	MP-7	Z	-.001	2
70	MP-7	Z	-.001	2
71	MP-7	Z	-.003	3
72	MP-7	Z	-.002	5
73	MP-8	Z	-.009	.5
74	MP-8B	Z	-.007	1.5
75	MP-8B	Z	-.007	1.5
76	MP-9	Z	-.008	.5
77	MP-9	Z	-.006	2
78	MP-RRH1	Z	-.004	.5
79	MP-RRH2	Z	-.004	.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
80	MP-1	Z	-.009	4.333
81	MP-2	Z	-.019	5.5
82	MP-3	Z	-.019	5.5
83	MP-4	Z	-.008	4.333
84	MP-5	Z	-.015	5.5
85	MP-6	Z	-.014	5.5
86	MP-7	Z	-.006	4.333
87	MP-8	Z	-.009	5.5
88	MP-9	Z	-.008	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	.019	.25
2	MP-1	X	.003	1
3	MP-1	X	.002	2
4	MP-1	X	.002	2
5	MP-1	X	.006	3
6	MP-1	X	.009	5
7	MP-2	X	.039	.5
8	MP-2B	X	.015	1.5
9	MP-2B	X	.015	1.5
10	MP-3	X	.038	.5
11	MP-3	X	.015	2
12	MP-4	X	.019	.25
13	MP-4	X	.003	1
14	MP-4	X	.002	2
15	MP-4	X	.002	2
16	MP-4	X	.006	3
17	MP-4	X	.009	5
18	MP-5	X	.039	.5
19	MP-5B	X	.015	1.5
20	MP-5B	X	.015	1.5
21	MP-6	X	.038	.5
22	MP-6	X	.015	2
23	MP-7	X	.019	.25
24	MP-7	X	.003	1
25	MP-7	X	.002	2
26	MP-7	X	.002	2
27	MP-7	X	.006	3
28	MP-7	X	.009	5
29	MP-8	X	.039	.5
30	MP-8B	X	.015	1.5
31	MP-8B	X	.015	1.5
32	MP-9	X	.038	.5
33	MP-9	X	.015	2
34	MP-RRH1	X	.009	.5
35	MP-RRH2	X	.009	.5
36	MP-1	X	.019	4.333
37	MP-2	X	.039	5.5
38	MP-3	X	.038	5.5
39	MP-4	X	.019	4.333
40	MP-5	X	.039	5.5
41	MP-6	X	.038	5.5
42	MP-7	X	.019	4.333
43	MP-8	X	.039	5.5
44	MP-9	X	.038	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.013	.25
2	MP-1	X	.003	1
3	MP-1	X	.002	2
4	MP-1	X	.002	2
5	MP-1	X	.005	3
6	MP-1	X	.005	5
7	MP-2	X	.022	.5
8	MP-2B	X	.011	1.5
9	MP-2B	X	.012	1.5
10	MP-3	X	.022	.5
11	MP-3	X	.011	2
12	MP-4	X	.01	.25
13	MP-4	X	.003	1
14	MP-4	X	.002	2
15	MP-4	X	.002	2
16	MP-4	X	.005	3
17	MP-4	X	.004	5
18	MP-5	X	.015	.5
19	MP-5B	X	.013	1.5
20	MP-5B	X	.013	1.5
21	MP-6	X	.015	.5
22	MP-6	X	.01	2
23	MP-7	X	.016	.25
24	MP-7	X	.004	1
25	MP-7	X	.001	2
26	MP-7	X	.001	2
27	MP-7	X	.004	3
28	MP-7	X	.007	5
29	MP-8	X	.031	.5
30	MP-8B	X	.009	1.5
31	MP-8B	X	.011	1.5
32	MP-9	X	.031	.5
33	MP-9	X	.012	2
34	MP-RRH1	X	.008	.5
35	MP-RRH2	X	.008	.5
36	MP-1	X	.013	4.333
37	MP-2	X	.022	5.5
38	MP-3	X	.022	5.5
39	MP-4	X	.01	4.333
40	MP-5	X	.015	5.5
41	MP-6	X	.015	5.5
42	MP-7	X	.016	4.333
43	MP-8	X	.031	5.5
44	MP-9	X	.031	5.5
45	MP-1	Z	.007	.25
46	MP-1	Z	.002	1
47	MP-1	Z	.000963	2
48	MP-1	Z	.000963	2
49	MP-1	Z	.003	3
50	MP-1	Z	.003	5
51	MP-2	Z	.013	.5
52	MP-2B	Z	.006	1.5
53	MP-2B	Z	.007	1.5
54	MP-3	Z	.013	.5
55	MP-3	Z	.006	2
56	MP-4	Z	.006	.25
57	MP-4	Z	.002	1



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
58	MP-4	Z	.001	2
59	MP-4	Z	.001	2
60	MP-4	Z	.003	3
61	MP-4	Z	.002	5
62	MP-5	Z	.009	.5
63	MP-5B	Z	.007	1.5
64	MP-5B	Z	.007	1.5
65	MP-6	Z	.008	.5
66	MP-6	Z	.006	2
67	MP-7	Z	.009	.25
68	MP-7	Z	.002	1
69	MP-7	Z	.000787	2
70	MP-7	Z	.000787	2
71	MP-7	Z	.002	3
72	MP-7	Z	.004	5
73	MP-8	Z	.018	.5
74	MP-8B	Z	.005	1.5
75	MP-8B	Z	.007	1.5
76	MP-9	Z	.018	.5
77	MP-9	Z	.007	2
78	MP-RRH1	Z	.004	.5
79	MP-RRH2	Z	.004	.5
80	MP-1	Z	.007	4.333
81	MP-2	Z	.013	5.5
82	MP-3	Z	.013	5.5
83	MP-4	Z	.006	4.333
84	MP-5	Z	.009	5.5
85	MP-6	Z	.008	5.5
86	MP-7	Z	.009	4.333
87	MP-8	Z	.018	5.5
88	MP-9	Z	.018	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.009	.25
2	MP-1	X	.002	1
3	MP-1	X	.001	2
4	MP-1	X	.001	2
5	MP-1	X	.004	3
6	MP-1	X	.003	5
7	MP-2	X	.014	.5
8	MP-2B	X	.01	1.5
9	MP-2B	X	.01	1.5
10	MP-3	X	.014	.5
11	MP-3	X	.008	2
12	MP-4	X	.009	.25
13	MP-4	X	.002	1
14	MP-4	X	.001	2
15	MP-4	X	.001	2
16	MP-4	X	.004	3
17	MP-4	X	.003	5
18	MP-5	X	.014	.5
19	MP-5B	X	.01	1.5
20	MP-5B	X	.01	1.5
21	MP-6	X	.014	.5
22	MP-6	X	.008	2



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
23	MP-7	X	.013
24	MP-7	X	.003
25	MP-7	X	.001
26	MP-7	X	.001
27	MP-7	X	.003
28	MP-7	X	.006
29	MP-8	X	.027
30	MP-8B	X	.007
31	MP-8B	X	.009
32	MP-9	X	.027
33	MP-9	X	.01
34	MP-RRH1	X	.006
35	MP-RRH2	X	.006
36	MP-1	X	.009
37	MP-2	X	.014
38	MP-3	X	.014
39	MP-4	X	.009
40	MP-5	X	.014
41	MP-6	X	.014
42	MP-7	X	.013
43	MP-8	X	.027
44	MP-9	X	.027
45	MP-1	Z	.009
46	MP-1	Z	.002
47	MP-1	Z	.001
48	MP-1	Z	.001
49	MP-1	Z	.004
50	MP-1	Z	.003
51	MP-2	Z	.014
52	MP-2B	Z	.01
53	MP-2B	Z	.01
54	MP-3	Z	.014
55	MP-3	Z	.008
56	MP-4	Z	.009
57	MP-4	Z	.002
58	MP-4	Z	.001
59	MP-4	Z	.001
60	MP-4	Z	.004
61	MP-4	Z	.003
62	MP-5	Z	.014
63	MP-5B	Z	.01
64	MP-5B	Z	.01
65	MP-6	Z	.014
66	MP-6	Z	.008
67	MP-7	Z	.013
68	MP-7	Z	.003
69	MP-7	Z	.001
70	MP-7	Z	.001
71	MP-7	Z	.003
72	MP-7	Z	.006
73	MP-8	Z	.027
74	MP-8B	Z	.007
75	MP-8B	Z	.009
76	MP-9	Z	.027
77	MP-9	Z	.01
78	MP-RRH1	Z	.006
79	MP-RRH2	Z	.006



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
80	MP-1	Z	.009
81	MP-2	Z	.014
82	MP-3	Z	.014
83	MP-4	Z	.009
84	MP-5	Z	.014
85	MP-6	Z	.014
86	MP-7	Z	.013
87	MP-8	Z	.027
88	MP-9	Z	.027

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	X	.006
2	MP-1	X	.002
3	MP-1	X	.001
4	MP-1	X	.001
5	MP-1	X	.003
6	MP-1	X	.002
7	MP-2	X	.009
8	MP-2B	X	.007
9	MP-2B	X	.007
10	MP-3	X	.008
11	MP-3	X	.006
12	MP-4	X	.007
13	MP-4	X	.002
14	MP-4	X	.000963
15	MP-4	X	.000963
16	MP-4	X	.003
17	MP-4	X	.003
18	MP-5	X	.013
19	MP-5B	X	.006
20	MP-5B	X	.007
21	MP-6	X	.013
22	MP-6	X	.006
23	MP-7	X	.009
24	MP-7	X	.002
25	MP-7	X	.000755
26	MP-7	X	.000755
27	MP-7	X	.002
28	MP-7	X	.004
29	MP-8	X	.019
30	MP-8B	X	.005
31	MP-8B	X	.006
32	MP-9	X	.019
33	MP-9	X	.007
34	MP-RRH1	X	.004
35	MP-RRH2	X	.004
36	MP-1	X	.006
37	MP-2	X	.009
38	MP-3	X	.008
39	MP-4	X	.007
40	MP-5	X	.013
41	MP-6	X	.013
42	MP-7	X	.009
43	MP-8	X	.019
44	MP-9	X	.019



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
45	MP-1	.01	.25
46	MP-1	.003	1
47	MP-1	.002	2
48	MP-1	.002	2
49	MP-1	.005	3
50	MP-1	.004	5
51	MP-2	.015	.5
52	MP-2B	.013	1.5
53	MP-2B	.013	1.5
54	MP-3	.015	.5
55	MP-3	.01	2
56	MP-4	.013	.25
57	MP-4	.003	1
58	MP-4	.002	2
59	MP-4	.002	2
60	MP-4	.005	3
61	MP-4	.005	5
62	MP-5	.022	.5
63	MP-5B	.011	1.5
64	MP-5B	.012	1.5
65	MP-6	.022	.5
66	MP-6	.011	2
67	MP-7	.016	.25
68	MP-7	.004	1
69	MP-7	.001	2
70	MP-7	.001	2
71	MP-7	.004	3
72	MP-7	.008	5
73	MP-8	.033	.5
74	MP-8B	.009	1.5
75	MP-8B	.011	1.5
76	MP-9	.032	.5
77	MP-9	.013	2
78	MP-RRH1	.008	.5
79	MP-RRH2	.008	.5
80	MP-1	.01	4.333
81	MP-2	.015	5.5
82	MP-3	.015	5.5
83	MP-4	.013	4.333
84	MP-5	.022	5.5
85	MP-6	.022	5.5
86	MP-7	.016	4.333
87	MP-8	.033	5.5
88	MP-9	.032	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	.012	.25
2	MP-1	.005	1
3	MP-1	.001	2
4	MP-1	.001	2
5	MP-1	.005	3
6	MP-1	.004	5
7	MP-2	.017	.5
8	MP-2B	.01	1.5
9	MP-2B	.013	1.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
10	MP-3	.016	.5
11	MP-3	.011	2
12	MP-4	.012	.25
13	MP-4	.005	1
14	MP-4	.001	2
15	MP-4	.001	2
16	MP-4	.005	3
17	MP-4	.004	5
18	MP-5	.017	.5
19	MP-5B	.01	1.5
20	MP-5B	.013	1.5
21	MP-6	.016	.5
22	MP-6	.011	2
23	MP-7	.012	.25
24	MP-7	.005	1
25	MP-7	.001	2
26	MP-7	.001	2
27	MP-7	.005	3
28	MP-7	.004	5
29	MP-8	.017	.5
30	MP-8B	.01	1.5
31	MP-8B	.013	1.5
32	MP-9	.016	.5
33	MP-9	.011	2
34	MP-RRH1	.009	.5
35	MP-RRH2	.009	.5
36	MP-1	.012	4.333
37	MP-2	.017	5.5
38	MP-3	.016	5.5
39	MP-4	.012	4.333
40	MP-5	.017	5.5
41	MP-6	.016	5.5
42	MP-7	.012	4.333
43	MP-8	.017	5.5
44	MP-9	.016	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]
1	MP-1	-.008	.25
2	MP-1	-.002	1
3	MP-1	-.000898	2
4	MP-1	-.000898	2
5	MP-1	-.003	3
6	MP-1	-.003	5
7	MP-2	-.015	.5
8	MP-2B	-.006	1.5
9	MP-2B	-.007	1.5
10	MP-3	-.014	.5
11	MP-3	-.007	2
12	MP-4	-.009	.25
13	MP-4	-.002	1
14	MP-4	-.000755	2
15	MP-4	-.000755	2
16	MP-4	-.002	3
17	MP-4	-.004	5
18	MP-5	-.019	.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]
19	MP-5B	X	-0.05	1.5
20	MP-5B	X	-0.06	1.5
21	MP-6	X	-0.19	.5
22	MP-6	X	-0.07	2
23	MP-7	X	-0.06	.25
24	MP-7	X	-0.02	1
25	MP-7	X	-0.01	2
26	MP-7	X	-0.01	2
27	MP-7	X	-0.03	3
28	MP-7	X	-0.02	5
29	MP-8	X	-.01	.5
30	MP-8B	X	-0.07	1.5
31	MP-8B	X	-0.07	1.5
32	MP-9	X	-0.09	.5
33	MP-9	X	-0.06	2
34	MP-RRH1	X	-0.04	.5
35	MP-RRH2	X	-0.04	.5
36	MP-1	X	-0.08	4.333
37	MP-2	X	-0.15	5.5
38	MP-3	X	-0.14	5.5
39	MP-4	X	-0.09	4.333
40	MP-5	X	-0.19	5.5
41	MP-6	X	-0.19	5.5
42	MP-7	X	-0.06	4.333
43	MP-8	X	-.01	5.5
44	MP-9	X	-0.09	5.5
45	MP-1	Z	.014	.25
46	MP-1	Z	.004	1
47	MP-1	Z	.002	2
48	MP-1	Z	.002	2
49	MP-1	Z	.005	3
50	MP-1	Z	.006	5
51	MP-2	Z	.026	.5
52	MP-2B	Z	.01	1.5
53	MP-2B	Z	.012	1.5
54	MP-3	Z	.025	.5
55	MP-3	Z	.011	2
56	MP-4	Z	.016	.25
57	MP-4	Z	.004	1
58	MP-4	Z	.001	2
59	MP-4	Z	.001	2
60	MP-4	Z	.004	3
61	MP-4	Z	.008	5
62	MP-5	Z	.033	.5
63	MP-5B	Z	.009	1.5
64	MP-5B	Z	.011	1.5
65	MP-6	Z	.032	.5
66	MP-6	Z	.013	2
67	MP-7	Z	.011	.25
68	MP-7	Z	.003	1
69	MP-7	Z	.002	2
70	MP-7	Z	.002	2
71	MP-7	Z	.005	3
72	MP-7	Z	.004	5
73	MP-8	Z	.017	.5
74	MP-8B	Z	.012	1.5
75	MP-8B	Z	.013	1.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]
76	MP-9	Z	.016	.5
77	MP-9	Z	.01	2
78	MP-RRH1	Z	.008	.5
79	MP-RRH2	Z	.008	.5
80	MP-1	Z	.014	4.333
81	MP-2	Z	.026	5.5
82	MP-3	Z	.025	5.5
83	MP-4	Z	.016	4.333
84	MP-5	Z	.033	5.5
85	MP-6	Z	.032	5.5
86	MP-7	Z	.011	4.333
87	MP-8	Z	.017	5.5
88	MP-9	Z	.016	5.5

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

	Member Label	Direction	Magnitude[k.k-ft]	Location[ft. %]
1	MP-1	X	-0.13	.25
2	MP-1	X	-0.03	1
3	MP-1	X	-0.01	2
4	MP-1	X	-0.01	2
5	MP-1	X	-0.04	3
6	MP-1	X	-0.06	5
7	MP-2	X	-0.25	.5
8	MP-2B	X	-0.08	1.5
9	MP-2B	X	-0.09	1.5
10	MP-3	X	-0.24	.5
11	MP-3	X	-.01	2
12	MP-4	X	-0.13	.25
13	MP-4	X	-0.03	1
14	MP-4	X	-0.01	2
15	MP-4	X	-0.01	2
16	MP-4	X	-0.04	3
17	MP-4	X	-0.06	5
18	MP-5	X	-0.25	.5
19	MP-5B	X	-0.08	1.5
20	MP-5B	X	-0.09	1.5
21	MP-6	X	-0.24	.5
22	MP-6	X	-.01	2
23	MP-7	X	-0.08	.25
24	MP-7	X	-0.02	1
25	MP-7	X	-0.02	2
26	MP-7	X	-0.02	2
27	MP-7	X	-0.04	3
28	MP-7	X	-0.03	5
29	MP-8	X	-0.12	.5
30	MP-8B	X	-0.11	1.5
31	MP-8B	X	-.01	1.5
32	MP-9	X	-0.12	.5
33	MP-9	X	-0.08	2
34	MP-RRH1	X	-0.06	.5
35	MP-RRH2	X	-0.06	.5
36	MP-1	X	-0.13	4.333
37	MP-2	X	-0.25	5.5
38	MP-3	X	-0.24	5.5
39	MP-4	X	-0.13	4.333
40	MP-5	X	-0.25	5.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
41	MP-6	X	-024	5.5
42	MP-7	X	-008	4.333
43	MP-8	X	-012	5.5
44	MP-9	X	-012	5.5
45	MP-1	Z	.013	.25
46	MP-1	Z	.003	1
47	MP-1	Z	.001	2
48	MP-1	Z	.001	2
49	MP-1	Z	.004	3
50	MP-1	Z	.006	5
51	MP-2	Z	.025	.5
52	MP-2B	Z	.008	1.5
53	MP-2B	Z	.009	1.5
54	MP-3	Z	.024	.5
55	MP-3	Z	.01	2
56	MP-4	Z	.013	.25
57	MP-4	Z	.003	1
58	MP-4	Z	.001	2
59	MP-4	Z	.001	2
60	MP-4	Z	.004	3
61	MP-4	Z	.006	5
62	MP-5	Z	.025	.5
63	MP-5B	Z	.008	1.5
64	MP-5B	Z	.009	1.5
65	MP-6	Z	.024	.5
66	MP-6	Z	.01	2
67	MP-7	Z	.008	.25
68	MP-7	Z	.002	1
69	MP-7	Z	.002	2
70	MP-7	Z	.002	2
71	MP-7	Z	.004	3
72	MP-7	Z	.003	5
73	MP-8	Z	.012	.5
74	MP-8B	Z	.011	1.5
75	MP-8B	Z	.01	1.5
76	MP-9	Z	.012	.5
77	MP-9	Z	.008	2
78	MP-RRH1	Z	.006	.5
79	MP-RRH2	Z	.006	.5
80	MP-1	Z	.013	4.333
81	MP-2	Z	.025	5.5
82	MP-3	Z	.024	5.5
83	MP-4	Z	.013	4.333
84	MP-5	Z	.025	5.5
85	MP-6	Z	.024	5.5
86	MP-7	Z	.008	4.333
87	MP-8	Z	.012	5.5
88	MP-9	Z	.012	5.5

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-016	.25
2	MP-1	X	-004	1
3	MP-1	X	-001	2
4	MP-1	X	-001	2
5	MP-1	X	-004	3



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
6	MP-1	X	-008	5
7	MP-2	X	-033	.5
8	MP-2B	X	-009	1.5
9	MP-2B	X	-011	1.5
10	MP-3	X	-032	.5
11	MP-3	X	-013	2
12	MP-4	X	-014	.25
13	MP-4	X	-004	1
14	MP-4	X	-002	2
15	MP-4	X	-002	2
16	MP-4	X	-005	3
17	MP-4	X	-006	5
18	MP-5	X	-026	.5
19	MP-5B	X	-.01	1.5
20	MP-5B	X	-012	1.5
21	MP-6	X	-025	.5
22	MP-6	X	-011	2
23	MP-7	X	-.01	.25
24	MP-7	X	-003	1
25	MP-7	X	-002	2
26	MP-7	X	-002	2
27	MP-7	X	-005	3
28	MP-7	X	-004	5
29	MP-8	X	-015	.5
30	MP-8B	X	-013	1.5
31	MP-8B	X	-013	1.5
32	MP-9	X	-015	.5
33	MP-9	X	-.01	2
34	MP-RRH1	X	-008	.5
35	MP-RRH2	X	-008	.5
36	MP-1	X	-016	4.333
37	MP-2	X	-033	5.5
38	MP-3	X	-032	5.5
39	MP-4	X	-014	4.333
40	MP-5	X	-026	5.5
41	MP-6	X	-025	5.5
42	MP-7	X	-.01	4.333
43	MP-8	X	-015	5.5
44	MP-9	X	-015	5.5
45	MP-1	Z	.009	.25
46	MP-1	Z	.002	1
47	MP-1	Z	.000755	2
48	MP-1	Z	.000755	2
49	MP-1	Z	.002	3
50	MP-1	Z	.004	5
51	MP-2	Z	.019	.5
52	MP-2B	Z	.005	1.5
53	MP-2B	Z	.006	1.5
54	MP-3	Z	.019	.5
55	MP-3	Z	.007	2
56	MP-4	Z	.008	.25
57	MP-4	Z	.002	1
58	MP-4	Z	.000898	2
59	MP-4	Z	.000898	2
60	MP-4	Z	.003	3
61	MP-4	Z	.003	5
62	MP-5	Z	.015	.5



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
63	MP-5B	Z	.006	1.5
64	MP-5B	Z	.007	1.5
65	MP-6	Z	.014	.5
66	MP-6	Z	.007	2
67	MP-7	Z	.006	.25
68	MP-7	Z	.002	1
69	MP-7	Z	.001	2
70	MP-7	Z	.001	2
71	MP-7	Z	.003	3
72	MP-7	Z	.002	5
73	MP-8	Z	.009	.5
74	MP-8B	Z	.007	1.5
75	MP-8B	Z	.007	1.5
76	MP-9	Z	.008	.5
77	MP-9	Z	.006	2
78	MP-RRH1	Z	.004	.5
79	MP-RRH2	Z	.004	.5
80	MP-1	Z	.009	4.333
81	MP-2	Z	.019	5.5
82	MP-3	Z	.019	5.5
83	MP-4	Z	.008	4.333
84	MP-5	Z	.015	5.5
85	MP-6	Z	.014	5.5
86	MP-7	Z	.006	4.333
87	MP-8	Z	.009	5.5
88	MP-9	Z	.008	5.5

Member Point Loads (BLC 37 : Seismic Load X)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	X	-.018	.25
2	MP-1	X	-.004	1
3	MP-1	X	-.002	2
4	MP-1	X	-.002	2
5	MP-1	X	-.011	3
6	MP-1	X	-.014	5
7	MP-2	X	-.032	.5
8	MP-2B	X	-.059	1.5
9	MP-2B	X	-.075	1.5
10	MP-3	X	-.045	.5
11	MP-3	X	-.071	2
12	MP-4	X	-.018	.25
13	MP-4	X	-.004	1
14	MP-4	X	-.002	2
15	MP-4	X	-.002	2
16	MP-4	X	-.011	3
17	MP-4	X	-.014	5
18	MP-5	X	-.032	.5
19	MP-5B	X	-.059	1.5
20	MP-5B	X	-.075	1.5
21	MP-6	X	-.045	.5
22	MP-6	X	-.071	2
23	MP-7	X	-.018	.25
24	MP-7	X	-.004	1
25	MP-7	X	-.002	2
26	MP-7	X	-.002	2
27	MP-7	X	-.011	3



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
28	MP-7	X	-.014	.5
29	MP-8	X	-.032	.5
30	MP-8B	X	-.059	1.5
31	MP-8B	X	-.075	1.5
32	MP-9	X	-.045	.5
33	MP-9	X	-.071	2
34	MP-RRH1	X	-.033	.5
35	MP-RRH2	X	-.033	.5
36	MP-1	X	-.018	4.333
37	MP-2	X	-.032	5.5
38	MP-3	X	-.045	5.5
39	MP-4	X	-.018	4.333
40	MP-5	X	-.032	5.5
41	MP-6	X	-.045	5.5
42	MP-7	X	-.018	4.333
43	MP-8	X	-.032	5.5
44	MP-9	X	-.045	5.5

Member Point Loads (BLC 38 : Seismic Load Z)

Member Label	Direction	Magnitude[k.k-ft]	Location[ft.%]	
1	MP-1	Z	-.018	.25
2	MP-1	Z	-.004	1
3	MP-1	Z	-.002	2
4	MP-1	Z	-.002	2
5	MP-1	Z	-.011	3
6	MP-1	Z	-.014	5
7	MP-2	Z	-.032	.5
8	MP-2B	Z	-.059	1.5
9	MP-2B	Z	-.075	1.5
10	MP-3	Z	-.045	.5
11	MP-3	Z	-.071	2
12	MP-4	Z	-.018	.25
13	MP-4	Z	-.004	1
14	MP-4	Z	-.002	2
15	MP-4	Z	-.002	2
16	MP-4	Z	-.011	3
17	MP-4	Z	-.014	5
18	MP-5	Z	-.032	.5
19	MP-5B	Z	-.059	1.5
20	MP-5B	Z	-.075	1.5
21	MP-6	Z	-.045	.5
22	MP-6	Z	-.071	2
23	MP-7	Z	-.018	.25
24	MP-7	Z	-.004	1
25	MP-7	Z	-.002	2
26	MP-7	Z	-.002	2
27	MP-7	Z	-.011	3
28	MP-7	Z	-.014	5
29	MP-8	Z	-.032	.5
30	MP-8B	Z	-.059	1.5
31	MP-8B	Z	-.075	1.5
32	MP-9	Z	-.045	.5
33	MP-9	Z	-.071	2
34	MP-RRH1	Z	-.033	.5
35	MP-RRH2	Z	-.033	.5
36	MP-1	Z	-.018	4.333



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Magnitude[k.k-ft]	Location(ft.%)	
37	MP-2	Z	-0.32	5.5
38	MP-3	Z	-0.45	5.5
39	MP-4	Z	-0.18	4.333
40	MP-5	Z	-0.32	5.5
41	MP-6	Z	-0.45	5.5
42	MP-7	Z	-0.18	4.333
43	MP-8	Z	-0.32	5.5
44	MP-9	Z	-0.45	5.5

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft. ...]	End Location[ft. ...]	
1	CP-1	X	-0.11	0	%100	
2	CP-2	X	-0.23	-0.23	0	%100
3	CP-3	X	-0.11	-0.11	0	%100
4	FF-TH	X	-0.11	-0.11	0	%100
5	SF1-TH	X	-0.05	-0.05	0	%100
6	SF2-TH	X	-0.05	-0.05	0	%100
7	GSIP-1A	X	-0.13	-0.13	0	%100
8	GSIP-1B	X	-0.05	-0.05	0	%100
9	GSIP-2A	X	-0.05	-0.05	0	%100
10	GSIP-2B	X	-0.05	-0.05	0	%100
11	GSIP-3A	X	-0.05	-0.05	0	%100
12	GSIP-3B	X	-0.13	-0.13	0	%100
13	GSI-1A	X	-0.08	-0.08	0	%100
14	GSI-1B	X	-0.08	-0.08	0	%100
15	GSI-2A	X	-0.18	-0.18	0	%100
16	GSI-2B	X	-0.18	-0.18	0	%100
17	GSI-3A	X	-0.08	-0.08	0	%100
18	GSI-3B	X	-0.08	-0.08	0	%100
19	MP-1	X	-0.09	-0.09	0	%100
20	MP-2	X	-0.09	-0.09	0	%100
21	MP-2B	X	-0.07	-0.07	0	%100
22	MP-3	X	-0.09	-0.09	0	%100
23	MP-4	X	-0.09	-0.09	0	%100
24	MP-5	X	-0.09	-0.09	0	%100
25	MP-5B	X	-0.07	-0.07	0	%100
26	MP-6	X	-0.09	-0.09	0	%100
27	MP-7	X	-0.09	-0.09	0	%100
28	MP-8	X	-0.09	-0.09	0	%100
29	MP-8B	X	-0.07	-0.07	0	%100
30	MP-9	X	-0.09	-0.09	0	%100
31	MP-RRH1	X	-0.07	-0.07	0	%100
32	MP-RRH2	X	-0.07	-0.07	0	%100
33	SA-1	X	-0.18	-0.18	0	%100
34	SA-2	X	0	0	0	%100
35	SA-3	X	-0.18	-0.18	0	%100
36	M26	X	0	0	0	%100
37	M27	X	0	0	0	%100
38	M30	X	0	0	0	%100
39	M31	X	0	0	0	%100
40	M38	X	-0.01	-0.01	0	%100
41	M39	X	-0.01	-0.01	0	%100
42	M42	X	-0.01	-0.01	0	%100
43	M43	X	-0.01	-0.01	0	%100
44	M50	X	-0.01	-0.01	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft. ...]	End Location[ft. ...]	
45	M51	X	-0.01	-0.01	0	%100
46	M54	X	-0.01	-0.01	0	%100
47	M55	X	-0.01	-0.01	0	%100
48	M28	X	-0.08	-0.08	0	%100
49	M29	X	-0.08	-0.08	0	%100
50	M32	X	-0.08	-0.08	0	%100
51	M33	X	-0.08	-0.08	0	%100
52	M40	X	-0.04	-0.04	0	%100
53	M41	X	-0.04	-0.04	0	%100
54	M44	X	-0.04	-0.04	0	%100
55	M45	X	-0.04	-0.04	0	%100
56	M52	X	-0.04	-0.04	0	%100
57	M53	X	-0.04	-0.04	0	%100
58	M56	X	-0.04	-0.04	0	%100
59	M57	X	-0.04	-0.04	0	%100
60	FF-HRK	X	-0.11	-0.11	0	%100
61	SF2-HRK	X	-0.05	-0.05	0	%100
62	SF1-HRK	X	-0.05	-0.05	0	%100
63	SRC-1	X	-0.05	-0.05	0	%100
64	SRC-2	X	-0.05	-0.05	0	%100
65	SRC-3	X	-0.11	-0.11	0	%100
66	BR-1	X	-0.04	-0.04	0	%100
67	BR-2	X	-0.04	-0.04	0	%100
68	BR-3	X	-0.09	-0.09	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft. ...]	End Location[ft. ...]	
1	CP-1	X	-0.17	-0.17	0	%100
2	CP-2	X	-0.17	-0.17	0	%100
3	CP-3	X	0	0	0	%100
4	FF-TH	X	-0.08	-0.08	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	-0.08	-0.08	0	%100
7	GSIP-1A	X	-0.09	-0.09	0	%100
8	GSIP-1B	X	0	0	0	%100
9	GSIP-2A	X	-0.00362	-0.00362	0	%100
10	GSIP-2B	X	-0.07	-0.07	0	%100
11	GSIP-3A	X	-0.08	-0.08	0	%100
12	GSIP-3B	X	-0.09	-0.09	0	%100
13	GSI-1A	X	-0.12	-0.12	0	%100
14	GSI-1B	X	-0.12	-0.12	0	%100
15	GSI-2A	X	-0.14	-0.14	0	%100
16	GSI-2B	X	-0.14	-0.14	0	%100
17	GSI-3A	X	0	0	0	%100
18	GSI-3B	X	0	0	0	%100
19	MP-1	X	-0.08	-0.08	0	%100
20	MP-2	X	-0.08	-0.08	0	%100
21	MP-2B	X	-0.06	-0.06	0	%100
22	MP-3	X	-0.08	-0.08	0	%100
23	MP-4	X	-0.08	-0.08	0	%100
24	MP-5	X	-0.08	-0.08	0	%100
25	MP-5B	X	-0.06	-0.06	0	%100
26	MP-6	X	-0.08	-0.08	0	%100
27	MP-7	X	-0.08	-0.08	0	%100
28	MP-8	X	-0.08	-0.08	0	%100
29	MP-8B	X	-0.06	-0.06	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
30	MP-9	X	-0.08	-0.08	0	%100
31	MP-RRH1	X	-0.06	-0.06	0	%100
32	MP-RRH2	X	-0.06	-0.06	0	%100
33	SA-1	X	-0.09	-0.09	0	%100
34	SA-2	X	-0.07	-0.07	0	%100
35	SA-3	X	-0.18	-0.18	0	%100
36	M26	X	-0.00479	-0.00479	0	%100
37	M27	X	-0.00479	-0.00479	0	%100
38	M30	X	-0.00479	-0.00479	0	%100
39	M31	X	-0.00479	-0.00479	0	%100
40	M38	X	-0.00598	-0.00598	0	%100
41	M39	X	-0.00598	-0.00598	0	%100
42	M42	X	-0.00598	-0.00598	0	%100
43	M43	X	-0.00598	-0.00598	0	%100
44	M50	X	-0.01	-0.01	0	%100
45	M51	X	-0.01	-0.01	0	%100
46	M54	X	-0.01	-0.01	0	%100
47	M55	X	-0.01	-0.01	0	%100
48	M28	X	-0.06	-0.06	0	%100
49	M29	X	-0.06	-0.06	0	%100
50	M32	X	-0.06	-0.06	0	%100
51	M33	X	-0.06	-0.06	0	%100
52	M40	X	-0.06	-0.06	0	%100
53	M41	X	-0.06	-0.06	0	%100
54	M44	X	-0.06	-0.06	0	%100
55	M45	X	-0.06	-0.06	0	%100
56	M52	X	0	0	0	%100
57	M53	X	0	0	0	%100
58	M56	X	0	0	0	%100
59	M57	X	0	0	0	%100
60	FF-HRK	X	-0.08	-0.08	0	%100
61	SF2-HRK	X	0	0	0	%100
62	SF1-HRK	X	-0.08	-0.08	0	%100
63	SRC-1	X	-0.07	-0.07	0	%100
64	SRC-2	X	0	0	0	%100
65	SRC-3	X	-0.08	-0.08	0	%100
66	BR-1	X	-0.05	-0.05	0	%100
67	BR-2	X	0	0	0	%100
68	BR-3	X	-0.07	-0.07	0	%100
69	CP-1	Z	-0.1	-0.1	0	%100
70	CP-2	Z	-0.1	-0.1	0	%100
71	CP-3	Z	0	0	0	%100
72	FF-TH	Z	-0.05	-0.05	0	%100
73	SF1-TH	Z	0	0	0	%100
74	SF2-TH	Z	-0.05	-0.05	0	%100
75	GSI-1A	Z	-0.05	-0.05	0	%100
76	GSI-1B	Z	0	0	0	%100
77	GSI-2A	Z	-0.00257	-0.00257	0	%100
78	GSI-2B	Z	-0.05	-0.05	0	%100
79	GSI-3A	Z	-0.05	-0.05	0	%100
80	GSI-3B	Z	-0.05	-0.05	0	%100
81	GSI-1A	Z	-0.08	-0.08	0	%100
82	GSI-1B	Z	-0.08	-0.08	0	%100
83	GSI-2A	Z	-0.08	-0.08	0	%100
84	GSI-2B	Z	-0.08	-0.08	0	%100
85	GSI-3A	Z	0	0	0	%100
86	GSI-3B	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
87	MP-1	Z	-0.04	-0.04	0	%100
88	MP-2	Z	-0.04	-0.04	0	%100
89	MP-2B	Z	-0.04	-0.04	0	%100
90	MP-3	Z	-0.04	-0.04	0	%100
91	MP-4	Z	-0.04	-0.04	0	%100
92	MP-5	Z	-0.04	-0.04	0	%100
93	MP-5B	Z	-0.04	-0.04	0	%100
94	MP-6	Z	-0.04	-0.04	0	%100
95	MP-7	Z	-0.04	-0.04	0	%100
96	MP-8	Z	-0.04	-0.04	0	%100
97	MP-8B	Z	-0.04	-0.04	0	%100
98	MP-9	Z	-0.04	-0.04	0	%100
99	MP-RRH1	Z	-0.04	-0.04	0	%100
100	MP-RRH2	Z	-0.04	-0.04	0	%100
101	SA-1	Z	-0.04	-0.04	0	%100
102	SA-2	Z	-0.05	-0.05	0	%100
103	SA-3	Z	-0.09	-0.09	0	%100
104	M26	Z	-0.0036	-0.0036	0	%100
105	M27	Z	-0.0036	-0.0036	0	%100
106	M30	Z	-0.0036	-0.0036	0	%100
107	M31	Z	-0.0036	-0.0036	0	%100
108	M38	Z	-0.00307	-0.00307	0	%100
109	M39	Z	-0.00307	-0.00307	0	%100
110	M42	Z	-0.00307	-0.00307	0	%100
111	M43	Z	-0.00307	-0.00307	0	%100
112	M50	Z	-0.00614	-0.00614	0	%100
113	M51	Z	-0.00614	-0.00614	0	%100
114	M54	Z	-0.00614	-0.00614	0	%100
115	M55	Z	-0.00614	-0.00614	0	%100
116	M28	Z	-0.03	-0.03	0	%100
117	M29	Z	-0.03	-0.03	0	%100
118	M32	Z	-0.03	-0.03	0	%100
119	M33	Z	-0.03	-0.03	0	%100
120	M40	Z	-0.03	-0.03	0	%100
121	M41	Z	-0.03	-0.03	0	%100
122	M44	Z	-0.03	-0.03	0	%100
123	M45	Z	-0.03	-0.03	0	%100
124	M52	Z	0	0	0	%100
125	M53	Z	0	0	0	%100
126	M56	Z	0	0	0	%100
127	M57	Z	0	0	0	%100
128	FF-HRK	Z	-0.05	-0.05	0	%100
129	SF2-HRK	Z	0	0	0	%100
130	SF1-HRK	Z	-0.05	-0.05	0	%100
131	SRC-1	Z	-0.05	-0.05	0	%100
132	SRC-2	Z	0	0	0	%100
133	SRC-3	Z	-0.05	-0.05	0	%100
134	BR-1	Z	-0.04	-0.04	0	%100
135	BR-2	Z	0	0	0	%100
136	BR-3	Z	-0.04	-0.04	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
1	CP-1	X	-0.16	-0.16	0	%100
2	CP-2	X	-0.11	-0.11	0	%100
3	CP-3	X	-0.04	-0.04	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude	Start Location[ft.]	End Location[ft.]	%100
4	FF-TH	X	-0.05	-0.05	0	%100
5	SF1-TH	X	-0.02	-0.02	0	%100
6	SF2-TH	X	-0.07	-0.07	0	%100
7	GSIP-1A	X	-0.06	-0.06	0	%100
8	GSIP-1B	X	-0.02	-0.02	0	%100
9	GSIP-2A	X	-0.02	-0.02	0	%100
10	GSIP-2B	X	-0.07	-0.07	0	%100
11	GSIP-3A	X	-0.07	-0.07	0	%100
12	GSIP-3B	X	-0.06	-0.06	0	%100
13	GSI-1A	X	-0.11	-0.11	0	%100
14	GSI-1B	X	-0.11	-0.11	0	%100
15	GSI-2A	X	-0.09	-0.09	0	%100
16	GSI-2B	X	-0.09	-0.09	0	%100
17	GSI-3A	X	-0.03	-0.03	0	%100
18	GSI-3B	X	-0.03	-0.03	0	%100
19	MP-1	X	-0.06	-0.06	0	%100
20	MP-2	X	-0.06	-0.06	0	%100
21	MP-2B	X	-0.05	-0.05	0	%100
22	MP-3	X	-0.06	-0.06	0	%100
23	MP-4	X	-0.06	-0.06	0	%100
24	MP-5	X	-0.06	-0.06	0	%100
25	MP-5B	X	-0.05	-0.05	0	%100
26	MP-6	X	-0.06	-0.06	0	%100
27	MP-7	X	-0.06	-0.06	0	%100
28	MP-8	X	-0.06	-0.06	0	%100
29	MP-8B	X	-0.05	-0.05	0	%100
30	MP-9	X	-0.06	-0.06	0	%100
31	MP-RRH1	X	-0.05	-0.05	0	%100
32	MP-RRH2	X	-0.05	-0.05	0	%100
33	SA-1	X	-0.04	-0.04	0	%100
34	SA-2	X	-0.08	-0.08	0	%100
35	SA-3	X	-0.14	-0.14	0	%100
36	M26	X	-0.00553	-0.00553	0	%100
37	M27	X	-0.00553	-0.00553	0	%100
38	M30	X	-0.00553	-0.00553	0	%100
39	M31	X	-0.00553	-0.00553	0	%100
40	M38	X	-0.00253	-0.00253	0	%100
41	M39	X	-0.00253	-0.00253	0	%100
42	M42	X	-0.00253	-0.00253	0	%100
43	M43	X	-0.00253	-0.00253	0	%100
44	M50	X	-0.00944	-0.00944	0	%100
45	M51	X	-0.00944	-0.00944	0	%100
46	M54	X	-0.00944	-0.00944	0	%100
47	M55	X	-0.00944	-0.00944	0	%100
48	M28	X	-0.04	-0.04	0	%100
49	M29	X	-0.04	-0.04	0	%100
50	M32	X	-0.04	-0.04	0	%100
51	M33	X	-0.04	-0.04	0	%100
52	M40	X	-0.05	-0.05	0	%100
53	M41	X	-0.05	-0.05	0	%100
54	M44	X	-0.05	-0.05	0	%100
55	M45	X	-0.05	-0.05	0	%100
56	M52	X	-0.01	-0.01	0	%100
57	M53	X	-0.01	-0.01	0	%100
58	M56	X	-0.01	-0.01	0	%100
59	M57	X	-0.01	-0.01	0	%100
60	FF-HRK	X	-0.05	-0.05	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude	Start Location[ft.]	End Location[ft.]	%100
61	SF2-HRK	X	-0.02	-0.02	0	%100
62	SF1-HRK	X	-0.07	-0.07	0	%100
63	SRC-1	X	-0.07	-0.07	0	%100
64	SRC-2	X	-0.02	-0.02	0	%100
65	SRC-3	X	-0.05	-0.05	0	%100
66	BR-1	X	-0.05	-0.05	0	%100
67	BR-2	X	-0.01	-0.01	0	%100
68	BR-3	X	-0.04	-0.04	0	%100
69	CP-1	Z	-0.16	-0.16	0	%100
70	CP-2	Z	-0.11	-0.11	0	%100
71	CP-3	Z	-0.04	-0.04	0	%100
72	FF-TH	Z	-0.05	-0.05	0	%100
73	SF1-TH	Z	-0.02	-0.02	0	%100
74	SF2-TH	Z	-0.08	-0.08	0	%100
75	GSIP-1A	Z	-0.06	-0.06	0	%100
76	GSIP-1B	Z	-0.02	-0.02	0	%100
77	GSIP-2A	Z	-0.03	-0.03	0	%100
78	GSIP-2B	Z	-0.08	-0.08	0	%100
79	GSIP-3A	Z	-0.08	-0.08	0	%100
80	GSIP-3B	Z	-0.06	-0.06	0	%100
81	GSI-1A	Z	-0.12	-0.12	0	%100
82	GSI-1B	Z	-0.12	-0.12	0	%100
83	GSI-2A	Z	-0.09	-0.09	0	%100
84	GSI-2B	Z	-0.09	-0.09	0	%100
85	GSI-3A	Z	-0.03	-0.03	0	%100
86	GSI-3B	Z	-0.03	-0.03	0	%100
87	MP-1	Z	-0.06	-0.06	0	%100
88	MP-2	Z	-0.06	-0.06	0	%100
89	MP-2B	Z	-0.05	-0.05	0	%100
90	MP-3	Z	-0.06	-0.06	0	%100
91	MP-4	Z	-0.06	-0.06	0	%100
92	MP-5	Z	-0.06	-0.06	0	%100
93	MP-5B	Z	-0.05	-0.05	0	%100
94	MP-6	Z	-0.06	-0.06	0	%100
95	MP-7	Z	-0.06	-0.06	0	%100
96	MP-8	Z	-0.06	-0.06	0	%100
97	MP-8B	Z	-0.05	-0.05	0	%100
98	MP-9	Z	-0.06	-0.06	0	%100
99	MP-RRH1	Z	-0.05	-0.05	0	%100
100	MP-RRH2	Z	-0.05	-0.05	0	%100
101	SA-1	Z	-0.03	-0.03	0	%100
102	SA-2	Z	-0.11	-0.11	0	%100
103	SA-3	Z	-0.12	-0.12	0	%100
104	M26	Z	-0.00719	-0.00719	0	%100
105	M27	Z	-0.00719	-0.00719	0	%100
106	M30	Z	-0.00719	-0.00719	0	%100
107	M31	Z	-0.00719	-0.00719	0	%100
108	M38	Z	-0.00225	-0.00225	0	%100
109	M39	Z	-0.00225	-0.00225	0	%100
110	M42	Z	-0.00225	-0.00225	0	%100
111	M43	Z	-0.00225	-0.00225	0	%100
112	M50	Z	-0.00839	-0.00839	0	%100
113	M51	Z	-0.00839	-0.00839	0	%100
114	M54	Z	-0.00839	-0.00839	0	%100
115	M55	Z	-0.00839	-0.00839	0	%100
116	M28	Z	-0.04	-0.04	0	%100
117	M29	Z	-0.04	-0.04	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
118	M32	Z	-0.04	-0.04	0	%100
119	M33	Z	-0.04	-0.04	0	%100
120	M40	Z	-0.05	-0.05	0	%100
121	M41	Z	-0.05	-0.05	0	%100
122	M44	Z	-0.05	-0.05	0	%100
123	M45	Z	-0.05	-0.05	0	%100
124	M52	Z	-0.01	-0.01	0	%100
125	M53	Z	-0.01	-0.01	0	%100
126	M56	Z	-0.01	-0.01	0	%100
127	M57	Z	-0.01	-0.01	0	%100
128	FF-HRK	Z	-0.05	-0.05	0	%100
129	SF2-HRK	Z	-0.02	-0.02	0	%100
130	SF1-HRK	Z	-0.07	-0.07	0	%100
131	SRC-1	Z	-0.07	-0.07	0	%100
132	SRC-2	Z	-0.02	-0.02	0	%100
133	SRC-3	Z	-0.05	-0.05	0	%100
134	BR-1	Z	-0.06	-0.06	0	%100
135	BR-2	Z	-0.02	-0.02	0	%100
136	BR-3	Z	-0.04	-0.04	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
1	CP-1	X	-0.11	-0.11	0	%100
2	CP-2	X	-0.06	-0.06	0	%100
3	CP-3	X	-0.06	-0.06	0	%100
4	FF-TH	X	-0.03	-0.03	0	%100
5	SF1-TH	X	-0.03	-0.03	0	%100
6	SF2-TH	X	-0.05	-0.05	0	%100
7	GSIP-1A	X	-0.03	-0.03	0	%100
8	GSIP-1B	X	-0.03	-0.03	0	%100
9	GSIP-2A	X	-0.03	-0.03	0	%100
10	GSIP-2B	X	-0.05	-0.05	0	%100
11	GSIP-3A	X	-0.05	-0.05	0	%100
12	GSIP-3B	X	-0.03	-0.03	0	%100
13	GSI-1A	X	-0.08	-0.08	0	%100
14	GSI-1B	X	-0.08	-0.08	0	%100
15	GSI-2A	X	-0.05	-0.05	0	%100
16	GSI-2B	X	-0.05	-0.05	0	%100
17	GSI-3A	X	-0.04	-0.04	0	%100
18	GSI-3B	X	-0.04	-0.04	0	%100
19	MP-1	X	-0.04	-0.04	0	%100
20	MP-2	X	-0.04	-0.04	0	%100
21	MP-2B	X	-0.04	-0.04	0	%100
22	MP-3	X	-0.04	-0.04	0	%100
23	MP-4	X	-0.04	-0.04	0	%100
24	MP-5	X	-0.04	-0.04	0	%100
25	MP-5B	X	-0.04	-0.04	0	%100
26	MP-6	X	-0.04	-0.04	0	%100
27	MP-7	X	-0.04	-0.04	0	%100
28	MP-8	X	-0.04	-0.04	0	%100
29	MP-8B	X	-0.04	-0.04	0	%100
30	MP-9	X	-0.04	-0.04	0	%100
31	MP-RRH1	X	-0.04	-0.04	0	%100
32	MP-RRH2	X	-0.04	-0.04	0	%100
33	SA-1	X	0	0	0	%100
34	SA-2	X	-0.07	-0.07	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
35	SA-3	X	-0.09	-0.09	0	%100
36	M26	X	-0.00479	-0.00479	0	%100
37	M27	X	-0.00479	-0.00479	0	%100
38	M30	X	-0.00479	-0.00479	0	%100
39	M31	X	-0.00479	-0.00479	0	%100
40	M38	X	0	0	0	%100
41	M39	X	0	0	0	%100
42	M42	X	0	0	0	%100
43	M43	X	0	0	0	%100
44	M50	X	-0.00598	-0.00598	0	%100
45	M51	X	-0.00598	-0.00598	0	%100
46	M54	X	-0.00598	-0.00598	0	%100
47	M55	X	-0.00598	-0.00598	0	%100
48	M28	X	-0.02	-0.02	0	%100
49	M29	X	-0.02	-0.02	0	%100
50	M32	X	-0.02	-0.02	0	%100
51	M33	X	-0.02	-0.02	0	%100
52	M40	X	-0.04	-0.04	0	%100
53	M41	X	-0.04	-0.04	0	%100
54	M44	X	-0.04	-0.04	0	%100
55	M45	X	-0.04	-0.04	0	%100
56	M52	X	-0.02	-0.02	0	%100
57	M53	X	-0.02	-0.02	0	%100
58	M56	X	-0.02	-0.02	0	%100
59	M57	X	-0.02	-0.02	0	%100
60	FF-HRK	X	-0.03	-0.03	0	%100
61	SF2-HRK	X	-0.03	-0.03	0	%100
62	SF1-HRK	X	-0.05	-0.05	0	%100
63	SRC-1	X	-0.05	-0.05	0	%100
64	SRC-2	X	-0.02	-0.02	0	%100
65	SRC-3	X	-0.03	-0.03	0	%100
66	BR-1	X	-0.04	-0.04	0	%100
67	BR-2	X	-0.02	-0.02	0	%100
68	BR-3	X	-0.02	-0.02	0	%100
69	CP-1	Z	-0.02	-0.02	0	%100
70	CP-2	Z	-0.01	-0.01	0	%100
71	CP-3	Z	-0.01	-0.01	0	%100
72	FF-TH	Z	-0.05	-0.05	0	%100
73	SF1-TH	Z	-0.05	-0.05	0	%100
74	SF2-TH	Z	-0.01	-0.01	0	%100
75	GSIP-1A	Z	-0.05	-0.05	0	%100
76	GSIP-1B	Z	-0.05	-0.05	0	%100
77	GSIP-2A	Z	-0.06	-0.06	0	%100
78	GSIP-2B	Z	-0.01	-0.01	0	%100
79	GSIP-3A	Z	-0.01	-0.01	0	%100
80	GSIP-3B	Z	-0.05	-0.05	0	%100
81	GSI-1A	Z	-0.15	-0.15	0	%100
82	GSI-1B	Z	-0.15	-0.15	0	%100
83	GSI-2A	Z	-0.08	-0.08	0	%100
84	GSI-2B	Z	-0.08	-0.08	0	%100
85	GSI-3A	Z	-0.08	-0.08	0	%100
86	GSI-3B	Z	-0.08	-0.08	0	%100
87	MP-1	Z	-0.08	-0.08	0	%100
88	MP-2	Z	-0.08	-0.08	0	%100
89	MP-2B	Z	-0.06	-0.06	0	%100
90	MP-3	Z	-0.08	-0.08	0	%100
91	MP-4	Z	-0.08	-0.08	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
92	MP-5	Z	-0.08	-0.08	0	%100
93	MP-5B	Z	-0.06	-0.06	0	%100
94	MP-6	Z	-0.08	-0.08	0	%100
95	MP-7	Z	-0.08	-0.08	0	%100
96	MP-8	Z	-0.08	-0.08	0	%100
97	MP-8B	Z	-0.06	-0.06	0	%100
98	MP-9	Z	-0.08	-0.08	0	%100
99	MP-RRH1	Z	-0.06	-0.06	0	%100
100	MP-RRH2	Z	-0.06	-0.06	0	%100
101	SA-1	Z	0	0	0	%100
102	SA-2	Z	-0.16	-0.16	0	%100
103	SA-3	Z	-0.13	-0.13	0	%100
104	M26	Z	-0.01	-0.01	0	%100
105	M27	Z	-0.01	-0.01	0	%100
106	M30	Z	-0.01	-0.01	0	%100
107	M31	Z	-0.01	-0.01	0	%100
108	M38	Z	0	0	0	%100
109	M39	Z	0	0	0	%100
110	M42	Z	0	0	0	%100
111	M43	Z	0	0	0	%100
112	M50	Z	-0.00921	-0.00921	0	%100
113	M51	Z	-0.00921	-0.00921	0	%100
114	M54	Z	-0.00921	-0.00921	0	%100
115	M55	Z	-0.00921	-0.00921	0	%100
116	M28	Z	-0.03	-0.03	0	%100
117	M29	Z	-0.03	-0.03	0	%100
118	M32	Z	-0.03	-0.03	0	%100
119	M33	Z	-0.03	-0.03	0	%100
120	M40	Z	-0.07	-0.07	0	%100
121	M41	Z	-0.07	-0.07	0	%100
122	M44	Z	-0.07	-0.07	0	%100
123	M45	Z	-0.07	-0.07	0	%100
124	M52	Z	-0.03	-0.03	0	%100
125	M53	Z	-0.03	-0.03	0	%100
126	M56	Z	-0.03	-0.03	0	%100
127	M57	Z	-0.03	-0.03	0	%100
128	FF-HRK	Z	-0.05	-0.05	0	%100
129	SF2-HRK	Z	-0.05	-0.05	0	%100
130	SF1-HRK	Z	-0.09	-0.09	0	%100
131	SRC-1	Z	-0.09	-0.09	0	%100
132	SRC-2	Z	-0.05	-0.05	0	%100
133	SRC-3	Z	-0.05	-0.05	0	%100
134	BR-1	Z	-0.07	-0.07	0	%100
135	BR-2	Z	-0.04	-0.04	0	%100
136	BR-3	Z	-0.04	-0.04	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	Z	-0.2	-0.2	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	-0.2	-0.2	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	-0.1	-0.1	0	%100
6	SF2-TH	Z	-0.1	-0.1	0	%100
7	GSIP-1A	Z	0	0	0	%100
8	GSIP-1B	Z	-0.1	-0.1	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
9	GSIP-2A	Z	-0.11	-0.11	0	%100
10	GSIP-2B	Z	-0.11	-0.11	0	%100
11	GSIP-3A	Z	-0.1	-0.1	0	%100
12	GSIP-3B	Z	0	0	0	%100
13	GSI-1A	Z	-0.15	-0.15	0	%100
14	GSI-1B	Z	-0.15	-0.15	0	%100
15	GSI-2A	Z	0	0	0	%100
16	GSI-2B	Z	0	0	0	%100
17	GSI-3A	Z	-0.15	-0.15	0	%100
18	GSI-3B	Z	-0.15	-0.15	0	%100
19	MP-1	Z	-0.09	-0.09	0	%100
20	MP-2	Z	-0.09	-0.09	0	%100
21	MP-2B	Z	-0.07	-0.07	0	%100
22	MP-3	Z	-0.09	-0.09	0	%100
23	MP-4	Z	-0.09	-0.09	0	%100
24	MP-5	Z	-0.09	-0.09	0	%100
25	MP-5B	Z	-0.07	-0.07	0	%100
26	MP-6	Z	-0.09	-0.09	0	%100
27	MP-7	Z	-0.09	-0.09	0	%100
28	MP-8	Z	-0.09	-0.09	0	%100
29	MP-8B	Z	-0.07	-0.07	0	%100
30	MP-9	Z	-0.09	-0.09	0	%100
31	MP-RRH1	Z	-0.07	-0.07	0	%100
32	MP-RRH2	Z	-0.07	-0.07	0	%100
33	SA-1	Z	-0.09	-0.09	0	%100
34	SA-2	Z	-0.21	-0.21	0	%100
35	SA-3	Z	-0.09	-0.09	0	%100
36	M26	Z	-0.01	-0.01	0	%100
37	M27	Z	-0.01	-0.01	0	%100
38	M30	Z	-0.01	-0.01	0	%100
39	M31	Z	-0.01	-0.01	0	%100
40	M38	Z	-0.00614	-0.00614	0	%100
41	M39	Z	-0.00614	-0.00614	0	%100
42	M42	Z	-0.00614	-0.00614	0	%100
43	M43	Z	-0.00614	-0.00614	0	%100
44	M50	Z	-0.00614	-0.00614	0	%100
45	M51	Z	-0.00614	-0.00614	0	%100
46	M54	Z	-0.00614	-0.00614	0	%100
47	M55	Z	-0.00614	-0.00614	0	%100
48	M28	Z	0	0	0	%100
49	M29	Z	0	0	0	%100
50	M32	Z	0	0	0	%100
51	M33	Z	0	0	0	%100
52	M40	Z	-0.07	-0.07	0	%100
53	M41	Z	-0.07	-0.07	0	%100
54	M44	Z	-0.07	-0.07	0	%100
55	M45	Z	-0.07	-0.07	0	%100
56	M52	Z	-0.07	-0.07	0	%100
57	M53	Z	-0.07	-0.07	0	%100
58	M56	Z	-0.07	-0.07	0	%100
59	M57	Z	-0.07	-0.07	0	%100
60	FF-HRK	Z	0	0	0	%100
61	SF2-HRK	Z	-0.09	-0.09	0	%100
62	SF1-HRK	Z	-0.09	-0.09	0	%100
63	SRC-1	Z	-0.09	-0.09	0	%100
64	SRC-2	Z	-0.09	-0.09	0	%100
65	SRC-3	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
66	BR-1	Z	-007	-007	0	%100
67	BR-2	Z	-007	-007	0	%100
68	BR-3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	X	.006	.006	0	%100
2	CP-2	X	.006	.006	0	%100
3	CP-3	X	.011	.011	0	%100
4	FF-TH	X	.003	.003	0	%100
5	SF1-TH	X	.005	.005	0	%100
6	SF2-TH	X	.003	.003	0	%100
7	GSIP-1A	X	.003	.003	0	%100
8	GSIP-1B	X	.005	.005	0	%100
9	GSIP-2A	X	.005	.005	0	%100
10	GSIP-2B	X	.003	.003	0	%100
11	GSIP-3A	X	.003	.003	0	%100
12	GSIP-3B	X	.003	.003	0	%100
13	GSI-1A	X	.004	.004	0	%100
14	GSI-1B	X	.004	.004	0	%100
15	GSI-2A	X	.005	.005	0	%100
16	GSI-2B	X	.005	.005	0	%100
17	GSI-3A	X	.008	.008	0	%100
18	GSI-3B	X	.008	.008	0	%100
19	MP-1	X	.004	.004	0	%100
20	MP-2	X	.004	.004	0	%100
21	MP-2B	X	.004	.004	0	%100
22	MP-3	X	.004	.004	0	%100
23	MP-4	X	.004	.004	0	%100
24	MP-5	X	.004	.004	0	%100
25	MP-5B	X	.004	.004	0	%100
26	MP-6	X	.004	.004	0	%100
27	MP-7	X	.004	.004	0	%100
28	MP-8	X	.004	.004	0	%100
29	MP-8B	X	.004	.004	0	%100
30	MP-9	X	.004	.004	0	%100
31	MP-RRH1	X	.004	.004	0	%100
32	MP-RRH2	X	.004	.004	0	%100
33	SA-1	X	.009	.009	0	%100
34	SA-2	X	.007	.007	0	%100
35	SA-3	X	0	0	0	%100
36	M26	X	.000479	.000479	0	%100
37	M27	X	.000479	.000479	0	%100
38	M30	X	.000479	.000479	0	%100
39	M31	X	.000479	.000479	0	%100
40	M38	X	.000598	.000598	0	%100
41	M39	X	.000598	.000598	0	%100
42	M42	X	.000598	.000598	0	%100
43	M43	X	.000598	.000598	0	%100
44	M50	X	0	0	0	%100
45	M51	X	0	0	0	%100
46	M54	X	0	0	0	%100
47	M55	X	0	0	0	%100
48	M28	X	.002	.002	0	%100
49	M29	X	.002	.002	0	%100
50	M32	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
51	M33	X	.002	.002	0	%100
52	M40	X	.002	.002	0	%100
53	M41	X	.002	.002	0	%100
54	M44	X	.002	.002	0	%100
55	M45	X	.002	.002	0	%100
56	M52	X	.004	.004	0	%100
57	M53	X	.004	.004	0	%100
58	M56	X	.004	.004	0	%100
59	M57	X	.004	.004	0	%100
60	FF-HRK	X	.003	.003	0	%100
61	SF2-HRK	X	.005	.005	0	%100
62	SF1-HRK	X	.003	.003	0	%100
63	SRC-1	X	.002	.002	0	%100
64	SRC-2	X	.005	.005	0	%100
65	SRC-3	X	.003	.003	0	%100
66	BR-1	X	.002	.002	0	%100
67	BR-2	X	.004	.004	0	%100
68	BR-3	X	.002	.002	0	%100
69	CP-1	Z	-.01	-.01	0	%100
70	CP-2	Z	-.01	-.01	0	%100
71	CP-3	Z	-.02	-.02	0	%100
72	FF-TH	Z	-.005	-.005	0	%100
73	SF1-TH	Z	-.01	-.01	0	%100
74	SF2-TH	Z	-.005	-.005	0	%100
75	GSIP-1A	Z	-.005	-.005	0	%100
76	GSIP-1B	Z	-.01	-.01	0	%100
77	GSIP-2A	Z	-.01	-.01	0	%100
78	GSIP-2B	Z	-.006	-.006	0	%100
79	GSIP-3A	Z	-.005	-.005	0	%100
80	GSIP-3B	Z	-.005	-.005	0	%100
81	GSI-1A	Z	-.008	-.008	0	%100
82	GSI-1B	Z	-.008	-.008	0	%100
83	GSI-2A	Z	-.008	-.008	0	%100
84	GSI-2B	Z	-.008	-.008	0	%100
85	GSI-3A	Z	-.015	-.015	0	%100
86	GSI-3B	Z	-.015	-.015	0	%100
87	MP-1	Z	-.008	-.008	0	%100
88	MP-2	Z	-.008	-.008	0	%100
89	MP-2B	Z	-.006	-.006	0	%100
90	MP-3	Z	-.008	-.008	0	%100
91	MP-4	Z	-.008	-.008	0	%100
92	MP-5	Z	-.008	-.008	0	%100
93	MP-5B	Z	-.006	-.006	0	%100
94	MP-6	Z	-.008	-.008	0	%100
95	MP-7	Z	-.008	-.008	0	%100
96	MP-8	Z	-.008	-.008	0	%100
97	MP-8B	Z	-.006	-.006	0	%100
98	MP-9	Z	-.008	-.008	0	%100
99	MP-RRH1	Z	-.006	-.006	0	%100
100	MP-RRH2	Z	-.006	-.006	0	%100
101	SA-1	Z	-.013	-.013	0	%100
102	SA-2	Z	-.016	-.016	0	%100
103	SA-3	Z	0	0	0	%100
104	M26	Z	-.001	-.001	0	%100
105	M27	Z	-.001	-.001	0	%100
106	M30	Z	-.001	-.001	0	%100
107	M31	Z	-.001	-.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]
108	M38	Z	-0.00921	-0.00921	0 %100
109	M39	Z	-0.00921	-0.00921	0 %100
110	M42	Z	-0.00921	-0.00921	0 %100
111	M43	Z	-0.00921	-0.00921	0 %100
112	M50	Z	0	0	0 %100
113	M51	Z	0	0	0 %100
114	M54	Z	0	0	0 %100
115	M55	Z	0	0	0 %100
116	M28	Z	-0.003	-0.003	0 %100
117	M29	Z	-0.003	-0.003	0 %100
118	M32	Z	-0.003	-0.003	0 %100
119	M33	Z	-0.003	-0.003	0 %100
120	M40	Z	-0.003	-0.003	0 %100
121	M41	Z	-0.003	-0.003	0 %100
122	M44	Z	-0.003	-0.003	0 %100
123	M45	Z	-0.003	-0.003	0 %100
124	M52	Z	-0.007	-0.007	0 %100
125	M53	Z	-0.007	-0.007	0 %100
126	M56	Z	-0.007	-0.007	0 %100
127	M57	Z	-0.007	-0.007	0 %100
128	FF-HRK	Z	-0.005	-0.005	0 %100
129	SF2-HRK	Z	-0.009	-0.009	0 %100
130	SF1-HRK	Z	-0.005	-0.005	0 %100
131	SRC-1	Z	-0.005	-0.005	0 %100
132	SRC-2	Z	-0.009	-0.009	0 %100
133	SRC-3	Z	-0.005	-0.005	0 %100
134	BR-1	Z	-0.004	-0.004	0 %100
135	BR-2	Z	-0.007	-0.007	0 %100
136	BR-3	Z	-0.004	-0.004	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]
1	CP-1	X	.004	.004	0 %100
2	CP-2	X	.011	.011	0 %100
3	CP-3	X	.016	.016	0 %100
4	FF-TH	X	.005	.005	0 %100
5	SF1-TH	X	.007	.007	0 %100
6	SF2-TH	X	.002	.002	0 %100
7	GSIP-1A	X	.006	.006	0 %100
8	GSIP-1B	X	.007	.007	0 %100
9	GSIP-2A	X	.007	.007	0 %100
10	GSIP-2B	X	.002	.002	0 %100
11	GSIP-3A	X	.002	.002	0 %100
12	GSIP-3B	X	.006	.006	0 %100
13	GSI-1A	X	.003	.003	0 %100
14	GSI-1B	X	.003	.003	0 %100
15	GSI-2A	X	.009	.009	0 %100
16	GSI-2B	X	.009	.009	0 %100
17	GSI-3A	X	.011	.011	0 %100
18	GSI-3B	X	.011	.011	0 %100
19	MP-1	X	.006	.006	0 %100
20	MP-2	X	.006	.006	0 %100
21	MP-2B	X	.005	.005	0 %100
22	MP-3	X	.006	.006	0 %100
23	MP-4	X	.006	.006	0 %100
24	MP-5	X	.006	.006	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]
25	MP-5B	X	.005	.005	0 %100
26	MP-6	X	.006	.006	0 %100
27	MP-7	X	.006	.006	0 %100
28	MP-8	X	.006	.006	0 %100
29	MP-8B	X	.005	.005	0 %100
30	MP-9	X	.006	.006	0 %100
31	MP-RRH1	X	.005	.005	0 %100
32	MP-RRH2	X	.005	.005	0 %100
33	SA-1	X	.014	.014	0 %100
34	SA-2	X	.008	.008	0 %100
35	SA-3	X	.004	.004	0 %100
36	M26	X	.000553	.000553	0 %100
37	M27	X	.000553	.000553	0 %100
38	M30	X	.000553	.000553	0 %100
39	M31	X	.000553	.000553	0 %100
40	M38	X	.000944	.000944	0 %100
41	M39	X	.000944	.000944	0 %100
42	M42	X	.000944	.000944	0 %100
43	M43	X	.000944	.000944	0 %100
44	M50	X	.000253	.000253	0 %100
45	M51	X	.000253	.000253	0 %100
46	M54	X	.000253	.000253	0 %100
47	M55	X	.000253	.000253	0 %100
48	M28	X	.004	.004	0 %100
49	M29	X	.004	.004	0 %100
50	M32	X	.004	.004	0 %100
51	M33	X	.004	.004	0 %100
52	M40	X	.001	.001	0 %100
53	M41	X	.001	.001	0 %100
54	M44	X	.001	.001	0 %100
55	M45	X	.001	.001	0 %100
56	M52	X	.005	.005	0 %100
57	M53	X	.005	.005	0 %100
58	M56	X	.005	.005	0 %100
59	M57	X	.005	.005	0 %100
60	FF-HRK	X	.005	.005	0 %100
61	SF2-HRK	X	.007	.007	0 %100
62	SF1-HRK	X	.002	.002	0 %100
63	SRC-1	X	.002	.002	0 %100
64	SRC-2	X	.007	.007	0 %100
65	SRC-3	X	.005	.005	0 %100
66	BR-1	X	.001	.001	0 %100
67	BR-2	X	.005	.005	0 %100
68	BR-3	X	.004	.004	0 %100
69	CP-1	Z	-.004	-.004	0 %100
70	CP-2	Z	-.011	-.011	0 %100
71	CP-3	Z	-.016	-.016	0 %100
72	FF-TH	Z	-.005	-.005	0 %100
73	SF1-TH	Z	-.008	-.008	0 %100
74	SF2-TH	Z	-.002	-.002	0 %100
75	GSIP-1A	Z	-.006	-.006	0 %100
76	GSIP-1B	Z	-.008	-.008	0 %100
77	GSIP-2A	Z	-.008	-.008	0 %100
78	GSIP-2B	Z	-.003	-.003	0 %100
79	GSIP-3A	Z	-.002	-.002	0 %100
80	GSIP-3B	Z	-.006	-.006	0 %100
81	GSI-1A	Z	-.003	-.003	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
82	GSI-1B	Z	-0.003	-0.003	0	%100
83	GSI-2A	Z	-0.009	-0.009	0	%100
84	GSI-2B	Z	-0.009	-0.009	0	%100
85	GSI-3A	Z	-0.012	-0.012	0	%100
86	GSI-3B	Z	-0.012	-0.012	0	%100
87	MP-1	Z	-0.006	-0.006	0	%100
88	MP-2	Z	-0.006	-0.006	0	%100
89	MP-2B	Z	-0.005	-0.005	0	%100
90	MP-3	Z	-0.006	-0.006	0	%100
91	MP-4	Z	-0.006	-0.006	0	%100
92	MP-5	Z	-0.006	-0.006	0	%100
93	MP-5B	Z	-0.005	-0.005	0	%100
94	MP-6	Z	-0.006	-0.006	0	%100
95	MP-7	Z	-0.006	-0.006	0	%100
96	MP-8	Z	-0.006	-0.006	0	%100
97	MP-8B	Z	-0.005	-0.005	0	%100
98	MP-9	Z	-0.006	-0.006	0	%100
99	MP-RRH1	Z	-0.005	-0.005	0	%100
100	MP-RRH2	Z	-0.005	-0.005	0	%100
101	SA-1	Z	-0.012	-0.012	0	%100
102	SA-2	Z	-0.011	-0.011	0	%100
103	SA-3	Z	-0.003	-0.003	0	%100
104	M26	Z	-0.000719	-0.000719	0	%100
105	M27	Z	-0.000719	-0.000719	0	%100
106	M30	Z	-0.000719	-0.000719	0	%100
107	M31	Z	-0.000719	-0.000719	0	%100
108	M38	Z	-0.000839	-0.000839	0	%100
109	M39	Z	-0.000839	-0.000839	0	%100
110	M42	Z	-0.000839	-0.000839	0	%100
111	M43	Z	-0.000839	-0.000839	0	%100
112	M50	Z	-0.000225	-0.000225	0	%100
113	M51	Z	-0.000225	-0.000225	0	%100
114	M54	Z	-0.000225	-0.000225	0	%100
115	M55	Z	-0.000225	-0.000225	0	%100
116	M28	Z	-0.004	-0.004	0	%100
117	M29	Z	-0.004	-0.004	0	%100
118	M32	Z	-0.004	-0.004	0	%100
119	M33	Z	-0.004	-0.004	0	%100
120	M40	Z	-0.001	-0.001	0	%100
121	M41	Z	-0.001	-0.001	0	%100
122	M44	Z	-0.001	-0.001	0	%100
123	M45	Z	-0.001	-0.001	0	%100
124	M52	Z	-0.005	-0.005	0	%100
125	M53	Z	-0.005	-0.005	0	%100
126	M56	Z	-0.005	-0.005	0	%100
127	M57	Z	-0.005	-0.005	0	%100
128	FF-HRK	Z	-0.005	-0.005	0	%100
129	SF2-HRK	Z	-0.007	-0.007	0	%100
130	SF1-HRK	Z	-0.002	-0.002	0	%100
131	SRC-1	Z	-0.002	-0.002	0	%100
132	SRC-2	Z	-0.007	-0.007	0	%100
133	SRC-3	Z	-0.005	-0.005	0	%100
134	BR-1	Z	-0.002	-0.002	0	%100
135	BR-2	Z	-0.006	-0.006	0	%100
136	BR-3	Z	-0.004	-0.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	X	0	0	0	%100
2	CP-2	X	.017	.017	0	%100
3	CP-3	X	.017	.017	0	%100
4	FF-TH	X	.008	.008	0	%100
5	SF1-TH	X	.008	.008	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1A	X	.009	.009	0	%100
8	GSIP-1B	X	.008	.008	0	%100
9	GSIP-2A	X	.007	.007	0	%100
10	GSIP-2B	X	.000362	.000362	0	%100
11	GSIP-3A	X	0	0	0	%100
12	GSIP-3B	X	.009	.009	0	%100
13	GSI-1A	X	0	0	0	%100
14	GSI-1B	X	0	0	0	%100
15	GSI-2A	X	.014	.014	0	%100
16	GSI-2B	X	.014	.014	0	%100
17	GSI-3A	X	.012	.012	0	%100
18	GSI-3B	X	.012	.012	0	%100
19	MP-1	X	.008	.008	0	%100
20	MP-2	X	.008	.008	0	%100
21	MP-2B	X	.006	.006	0	%100
22	MP-3	X	.008	.008	0	%100
23	MP-4	X	.008	.008	0	%100
24	MP-5	X	.008	.008	0	%100
25	MP-5B	X	.006	.006	0	%100
26	MP-6	X	.008	.008	0	%100
27	MP-7	X	.008	.008	0	%100
28	MP-8	X	.008	.008	0	%100
29	MP-8B	X	.006	.006	0	%100
30	MP-9	X	.008	.008	0	%100
31	MP-RRH1	X	.006	.006	0	%100
32	MP-RRH2	X	.006	.006	0	%100
33	SA-1	X	.018	.018	0	%100
34	SA-2	X	.007	.007	0	%100
35	SA-3	X	.009	.009	0	%100
36	M26	X	.000479	.000479	0	%100
37	M27	X	.000479	.000479	0	%100
38	M30	X	.000479	.000479	0	%100
39	M31	X	.000479	.000479	0	%100
40	M38	X	.001	.001	0	%100
41	M39	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100
44	M50	X	.000598	.000598	0	%100
45	M51	X	.000598	.000598	0	%100
46	M54	X	.000598	.000598	0	%100
47	M55	X	.000598	.000598	0	%100
48	M28	X	.006	.006	0	%100
49	M29	X	.006	.006	0	%100
50	M32	X	.006	.006	0	%100
51	M33	X	.006	.006	0	%100
52	M40	X	0	0	0	%100
53	M41	X	0	0	0	%100
54	M44	X	0	0	0	%100
55	M45	X	0	0	0	%100
56	M52	X	.006	.006	0	%100
57	M53	X	.006	.006	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
58	M56	X	.006	.006	0	%100
59	M57	X	.006	.006	0	%100
60	FF-HRK	X	.008	.008	0	%100
61	SF2-HRK	X	.008	.008	0	%100
62	SF1-HRK	X	0	0	0	%100
63	SRC-1	X	0	0	0	%100
64	SRC-2	X	.007	.007	0	%100
65	SRC-3	X	.008	.008	0	%100
66	BR-1	X	0	0	0	%100
67	BR-2	X	.005	.005	0	%100
68	BR-3	X	.007	.007	0	%100
69	CP-1	Z	0	0	0	%100
70	CP-2	Z	-.01	-.01	0	%100
71	CP-3	Z	-.01	-.01	0	%100
72	FF-TH	Z	-.005	-.005	0	%100
73	SF1-TH	Z	-.005	-.005	0	%100
74	SF2-TH	Z	0	0	0	%100
75	GSI-1A	Z	-.005	-.005	0	%100
76	GSI-1B	Z	-.005	-.005	0	%100
77	GSI-2A	Z	-.005	-.005	0	%100
78	GSI-2B	Z	-.000257	-.000257	0	%100
79	GSI-3A	Z	0	0	0	%100
80	GSI-3B	Z	-.005	-.005	0	%100
81	GSI-1A	Z	0	0	0	%100
82	GSI-1B	Z	0	0	0	%100
83	GSI-2A	Z	-.008	-.008	0	%100
84	GSI-2B	Z	-.008	-.008	0	%100
85	GSI-3A	Z	-.008	-.008	0	%100
86	GSI-3B	Z	-.008	-.008	0	%100
87	MP-1	Z	-.004	-.004	0	%100
88	MP-2	Z	-.004	-.004	0	%100
89	MP-2B	Z	-.004	-.004	0	%100
90	MP-3	Z	-.004	-.004	0	%100
91	MP-4	Z	-.004	-.004	0	%100
92	MP-5	Z	-.004	-.004	0	%100
93	MP-5B	Z	-.004	-.004	0	%100
94	MP-6	Z	-.004	-.004	0	%100
95	MP-7	Z	-.004	-.004	0	%100
96	MP-8	Z	-.004	-.004	0	%100
97	MP-8B	Z	-.004	-.004	0	%100
98	MP-9	Z	-.004	-.004	0	%100
99	MP-RRH1	Z	-.004	-.004	0	%100
100	MP-RRH2	Z	-.004	-.004	0	%100
101	SA-1	Z	-.009	-.009	0	%100
102	SA-2	Z	-.005	-.005	0	%100
103	SA-3	Z	-.004	-.004	0	%100
104	M26	Z	-.00036	-.00036	0	%100
105	M27	Z	-.00036	-.00036	0	%100
106	M30	Z	-.00036	-.00036	0	%100
107	M31	Z	-.00036	-.00036	0	%100
108	M38	Z	-.000614	-.000614	0	%100
109	M39	Z	-.000614	-.000614	0	%100
110	M42	Z	-.000614	-.000614	0	%100
111	M43	Z	-.000614	-.000614	0	%100
112	M50	Z	-.000307	-.000307	0	%100
113	M51	Z	-.000307	-.000307	0	%100
114	M54	Z	-.000307	-.000307	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
115	M55	Z	-.000307	-.000307	0	%100
116	M28	Z	-.003	-.003	0	%100
117	M29	Z	-.003	-.003	0	%100
118	M32	Z	-.003	-.003	0	%100
119	M33	Z	-.003	-.003	0	%100
120	M40	Z	0	0	0	%100
121	M41	Z	0	0	0	%100
122	M44	Z	0	0	0	%100
123	M45	Z	0	0	0	%100
124	M52	Z	-.003	-.003	0	%100
125	M53	Z	-.003	-.003	0	%100
126	M56	Z	-.003	-.003	0	%100
127	M57	Z	-.003	-.003	0	%100
128	FF-HRK	Z	-.005	-.005	0	%100
129	SF2-HRK	Z	-.005	-.005	0	%100
130	SF1-HRK	Z	0	0	0	%100
131	SRC-1	Z	0	0	0	%100
132	SRC-2	Z	-.005	-.005	0	%100
133	SRC-3	Z	-.005	-.005	0	%100
134	BR-1	Z	0	0	0	%100
135	BR-2	Z	-.004	-.004	0	%100
136	BR-3	Z	-.004	-.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
1	CP-1	X	.011	.011	0	%100
2	CP-2	X	.023	.023	0	%100
3	CP-3	X	.011	.011	0	%100
4	FF-TH	X	.011	.011	0	%100
5	SF1-TH	X	.005	.005	0	%100
6	SF2-TH	X	.005	.005	0	%100
7	GSI-1A	X	.013	.013	0	%100
8	GSI-1B	X	.005	.005	0	%100
9	GSI-2A	X	.005	.005	0	%100
10	GSI-2B	X	.005	.005	0	%100
11	GSI-3A	X	.005	.005	0	%100
12	GSI-3B	X	.013	.013	0	%100
13	GSI-1A	X	.008	.008	0	%100
14	GSI-1B	X	.008	.008	0	%100
15	GSI-2A	X	.018	.018	0	%100
16	GSI-2B	X	.018	.018	0	%100
17	GSI-3A	X	.008	.008	0	%100
18	GSI-3B	X	.008	.008	0	%100
19	MP-1	X	.009	.009	0	%100
20	MP-2	X	.009	.009	0	%100
21	MP-2B	X	.007	.007	0	%100
22	MP-3	X	.009	.009	0	%100
23	MP-4	X	.009	.009	0	%100
24	MP-5	X	.009	.009	0	%100
25	MP-5B	X	.007	.007	0	%100
26	MP-6	X	.009	.009	0	%100
27	MP-7	X	.009	.009	0	%100
28	MP-8	X	.009	.009	0	%100
29	MP-8B	X	.007	.007	0	%100
30	MP-9	X	.009	.009	0	%100
31	MP-RRH1	X	.007	.007	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
32	MP-RRH2	X	.007	.007	0	%100
33	SA-1	X	.018	.018	0	%100
34	SA-2	X	0	0	0	%100
35	SA-3	X	.018	.018	0	%100
36	M26	X	0	0	0	%100
37	M27	X	0	0	0	%100
38	M30	X	0	0	0	%100
39	M31	X	0	0	0	%100
40	M38	X	.001	.001	0	%100
41	M39	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100
44	M50	X	.001	.001	0	%100
45	M51	X	.001	.001	0	%100
46	M54	X	.001	.001	0	%100
47	M55	X	.001	.001	0	%100
48	M28	X	.008	.008	0	%100
49	M29	X	.008	.008	0	%100
50	M32	X	.008	.008	0	%100
51	M33	X	.008	.008	0	%100
52	M40	X	.004	.004	0	%100
53	M41	X	.004	.004	0	%100
54	M44	X	.004	.004	0	%100
55	M45	X	.004	.004	0	%100
56	M52	X	.004	.004	0	%100
57	M53	X	.004	.004	0	%100
58	M56	X	.004	.004	0	%100
59	M57	X	.004	.004	0	%100
60	FF-HRK	X	.011	.011	0	%100
61	SF2-HRK	X	.005	.005	0	%100
62	SF1-HRK	X	.005	.005	0	%100
63	SRC-1	X	.005	.005	0	%100
64	SRC-2	X	.005	.005	0	%100
65	SRC-3	X	.011	.011	0	%100
66	BR-1	X	.004	.004	0	%100
67	BR-2	X	.004	.004	0	%100
68	BR-3	X	.009	.009	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
1	CP-1	X	.017	.017	0	%100
2	CP-2	X	.017	.017	0	%100
3	CP-3	X	0	0	0	%100
4	FF-TH	X	.008	.008	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	.008	.008	0	%100
7	GSIP-1A	X	.009	.009	0	%100
8	GSIP-1B	X	0	0	0	%100
9	GSIP-2A	X	.000362	.000362	0	%100
10	GSIP-2B	X	.007	.007	0	%100
11	GSIP-3A	X	.008	.008	0	%100
12	GSIP-3B	X	.009	.009	0	%100
13	GSI-1A	X	.012	.012	0	%100
14	GSI-1B	X	.012	.012	0	%100
15	GSI-2A	X	.014	.014	0	%100
16	GSI-2B	X	.014	.014	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
17	GSI-3A	X	0	0	0	%100
18	GSI-3B	X	0	0	0	%100
19	MP-1	X	.008	.008	0	%100
20	MP-2	X	.008	.008	0	%100
21	MP-2B	X	.006	.006	0	%100
22	MP-3	X	.008	.008	0	%100
23	MP-4	X	.008	.008	0	%100
24	MP-5	X	.008	.008	0	%100
25	MP-5B	X	.006	.006	0	%100
26	MP-6	X	.008	.008	0	%100
27	MP-7	X	.008	.008	0	%100
28	MP-8	X	.008	.008	0	%100
29	MP-8B	X	.006	.006	0	%100
30	MP-9	X	.008	.008	0	%100
31	MP-RRH1	X	.006	.006	0	%100
32	MP-RRH2	X	.006	.006	0	%100
33	SA-1	X	.009	.009	0	%100
34	SA-2	X	.007	.007	0	%100
35	SA-3	X	.018	.018	0	%100
36	M26	X	.000479	.000479	0	%100
37	M27	X	.000479	.000479	0	%100
38	M30	X	.000479	.000479	0	%100
39	M31	X	.000479	.000479	0	%100
40	M38	X	.000598	.000598	0	%100
41	M39	X	.000598	.000598	0	%100
42	M42	X	.000598	.000598	0	%100
43	M43	X	.000598	.000598	0	%100
44	M50	X	.001	.001	0	%100
45	M51	X	.001	.001	0	%100
46	M54	X	.001	.001	0	%100
47	M55	X	.001	.001	0	%100
48	M28	X	.006	.006	0	%100
49	M29	X	.006	.006	0	%100
50	M32	X	.006	.006	0	%100
51	M33	X	.006	.006	0	%100
52	M40	X	.006	.006	0	%100
53	M41	X	.006	.006	0	%100
54	M44	X	.006	.006	0	%100
55	M45	X	.006	.006	0	%100
56	M52	X	0	0	0	%100
57	M53	X	0	0	0	%100
58	M56	X	0	0	0	%100
59	M57	X	0	0	0	%100
60	FF-HRK	X	.008	.008	0	%100
61	SF2-HRK	X	0	0	0	%100
62	SF1-HRK	X	.008	.008	0	%100
63	SRC-1	X	.007	.007	0	%100
64	SRC-2	X	0	0	0	%100
65	SRC-3	X	.008	.008	0	%100
66	BR-1	X	.005	.005	0	%100
67	BR-2	X	0	0	0	%100
68	BR-3	X	.007	.007	0	%100
69	CP-1	Z	.01	.01	0	%100
70	CP-2	Z	.01	.01	0	%100
71	CP-3	Z	0	0	0	%100
72	FF-TH	Z	.005	.005	0	%100
73	SF1-TH	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
74	SF2-TH	Z	.005	.005	0	%100
75	GSIP-1A	Z	.005	.005	0	%100
76	GSIP-1B	Z	0	0	0	%100
77	GSIP-2A	Z	.000257	.000257	0	%100
78	GSIP-2B	Z	.005	.005	0	%100
79	GSIP-3A	Z	.005	.005	0	%100
80	GSIP-3B	Z	.005	.005	0	%100
81	GSI-1A	Z	.008	.008	0	%100
82	GSI-1B	Z	.008	.008	0	%100
83	GSI-2A	Z	.008	.008	0	%100
84	GSI-2B	Z	.008	.008	0	%100
85	GSI-3A	Z	0	0	0	%100
86	GSI-3B	Z	0	0	0	%100
87	MP-1	Z	.004	.004	0	%100
88	MP-2	Z	.004	.004	0	%100
89	MP-2B	Z	.004	.004	0	%100
90	MP-3	Z	.004	.004	0	%100
91	MP-4	Z	.004	.004	0	%100
92	MP-5	Z	.004	.004	0	%100
93	MP-5B	Z	.004	.004	0	%100
94	MP-6	Z	.004	.004	0	%100
95	MP-7	Z	.004	.004	0	%100
96	MP-8	Z	.004	.004	0	%100
97	MP-8B	Z	.004	.004	0	%100
98	MP-9	Z	.004	.004	0	%100
99	MP-RRH1	Z	.004	.004	0	%100
100	MP-RRH2	Z	.004	.004	0	%100
101	SA-1	Z	.004	.004	0	%100
102	SA-2	Z	.005	.005	0	%100
103	SA-3	Z	.009	.009	0	%100
104	M26	Z	.00036	.00036	0	%100
105	M27	Z	.00036	.00036	0	%100
106	M30	Z	.00036	.00036	0	%100
107	M31	Z	.00036	.00036	0	%100
108	M38	Z	.000307	.000307	0	%100
109	M39	Z	.000307	.000307	0	%100
110	M42	Z	.000307	.000307	0	%100
111	M43	Z	.000307	.000307	0	%100
112	M50	Z	.000614	.000614	0	%100
113	M51	Z	.000614	.000614	0	%100
114	M54	Z	.000614	.000614	0	%100
115	M55	Z	.000614	.000614	0	%100
116	M28	Z	.003	.003	0	%100
117	M29	Z	.003	.003	0	%100
118	M32	Z	.003	.003	0	%100
119	M33	Z	.003	.003	0	%100
120	M40	Z	.003	.003	0	%100
121	M41	Z	.003	.003	0	%100
122	M44	Z	.003	.003	0	%100
123	M45	Z	.003	.003	0	%100
124	M52	Z	0	0	0	%100
125	M53	Z	0	0	0	%100
126	M56	Z	0	0	0	%100
127	M57	Z	0	0	0	%100
128	FF-HRK	Z	.005	.005	0	%100
129	SF2-HRK	Z	0	0	0	%100
130	SF1-HRK	Z	.005	.005	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
131	SRC-1	Z	.005	.005	0	%100
132	SRC-2	Z	0	0	0	%100
133	SRC-3	Z	.005	.005	0	%100
134	BR-1	Z	.004	.004	0	%100
135	BR-2	Z	0	0	0	%100
136	BR-3	Z	.004	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	X	.016	.016	0	%100
2	CP-2	X	.011	.011	0	%100
3	CP-3	X	.004	.004	0	%100
4	FF-TH	X	.005	.005	0	%100
5	SF1-TH	X	.002	.002	0	%100
6	SF2-TH	X	.007	.007	0	%100
7	GSIP-1A	X	.006	.006	0	%100
8	GSIP-1B	X	.002	.002	0	%100
9	GSIP-2A	X	.002	.002	0	%100
10	GSIP-2B	X	.007	.007	0	%100
11	GSIP-3A	X	.007	.007	0	%100
12	GSIP-3B	X	.006	.006	0	%100
13	GSI-1A	X	.011	.011	0	%100
14	GSI-1B	X	.011	.011	0	%100
15	GSI-2A	X	.009	.009	0	%100
16	GSI-2B	X	.009	.009	0	%100
17	GSI-3A	X	.003	.003	0	%100
18	GSI-3B	X	.003	.003	0	%100
19	MP-1	X	.006	.006	0	%100
20	MP-2	X	.006	.006	0	%100
21	MP-2B	X	.005	.005	0	%100
22	MP-3	X	.006	.006	0	%100
23	MP-4	X	.006	.006	0	%100
24	MP-5	X	.006	.006	0	%100
25	MP-5B	X	.005	.005	0	%100
26	MP-6	X	.006	.006	0	%100
27	MP-7	X	.006	.006	0	%100
28	MP-8	X	.006	.006	0	%100
29	MP-8B	X	.005	.005	0	%100
30	MP-9	X	.006	.006	0	%100
31	MP-RRH1	X	.005	.005	0	%100
32	MP-RRH2	X	.005	.005	0	%100
33	SA-1	X	.004	.004	0	%100
34	SA-2	X	.008	.008	0	%100
35	SA-3	X	.014	.014	0	%100
36	M26	X	.000553	.000553	0	%100
37	M27	X	.000553	.000553	0	%100
38	M30	X	.000553	.000553	0	%100
39	M31	X	.000553	.000553	0	%100
40	M38	X	.000253	.000253	0	%100
41	M39	X	.000253	.000253	0	%100
42	M42	X	.000253	.000253	0	%100
43	M43	X	.000253	.000253	0	%100
44	M50	X	.000944	.000944	0	%100
45	M51	X	.000944	.000944	0	%100
46	M54	X	.000944	.000944	0	%100
47	M55	X	.000944	.000944	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
48	M28	X	.004	0	%100	
49	M29	X	.004	0	%100	
50	M32	X	.004	0	%100	
51	M33	X	.004	0	%100	
52	M40	X	.005	0	%100	
53	M41	X	.005	0	%100	
54	M44	X	.005	0	%100	
55	M45	X	.005	0	%100	
56	M52	X	.001	0	%100	
57	M53	X	.001	0	%100	
58	M56	X	.001	0	%100	
59	M57	X	.001	0	%100	
60	FF-HRK	X	.005	0	%100	
61	SF2-HRK	X	.002	0	%100	
62	SF1-HRK	X	.007	0	%100	
63	SRC-1	X	.007	0	%100	
64	SRC-2	X	.002	0	%100	
65	SRC-3	X	.005	0	%100	
66	BR-1	X	.005	0	%100	
67	BR-2	X	.001	0	%100	
68	BR-3	X	.004	0	%100	
69	CP-1	Z	.016	0	%100	
70	CP-2	Z	.011	0	%100	
71	CP-3	Z	.004	0	%100	
72	FF-TH	Z	.005	0	%100	
73	SF1-TH	Z	.002	0	%100	
74	SF2-TH	Z	.008	0	%100	
75	GSI-1A	Z	.006	0	%100	
76	GSI-1B	Z	.002	0	%100	
77	GSI-2A	Z	.003	0	%100	
78	GSI-2B	Z	.008	0	%100	
79	GSI-3A	Z	.008	0	%100	
80	GSI-3B	Z	.006	0	%100	
81	GSI-1A	Z	.012	0	%100	
82	GSI-1B	Z	.012	0	%100	
83	GSI-2A	Z	.009	0	%100	
84	GSI-2B	Z	.009	0	%100	
85	GSI-3A	Z	.003	0	%100	
86	GSI-3B	Z	.003	0	%100	
87	MP-1	Z	.006	0	%100	
88	MP-2	Z	.006	0	%100	
89	MP-2B	Z	.005	0	%100	
90	MP-3	Z	.006	0	%100	
91	MP-4	Z	.006	0	%100	
92	MP-5	Z	.006	0	%100	
93	MP-5B	Z	.005	0	%100	
94	MP-6	Z	.006	0	%100	
95	MP-7	Z	.006	0	%100	
96	MP-8	Z	.006	0	%100	
97	MP-8B	Z	.005	0	%100	
98	MP-9	Z	.006	0	%100	
99	MP-RRH1	Z	.005	0	%100	
100	MP-RRH2	Z	.005	0	%100	
101	SA-1	Z	.003	0	%100	
102	SA-2	Z	.011	0	%100	
103	SA-3	Z	.012	0	%100	
104	M26	Z	.000719	.000719	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
105	M27	Z	.000719	0	%100
106	M30	Z	.000719	0	%100
107	M31	Z	.000719	0	%100
108	M38	Z	.000225	0	%100
109	M39	Z	.000225	0	%100
110	M42	Z	.000225	0	%100
111	M43	Z	.000225	0	%100
112	M50	Z	.000839	0	%100
113	M51	Z	.000839	0	%100
114	M54	Z	.000839	0	%100
115	M55	Z	.000839	0	%100
116	M28	Z	.004	0	%100
117	M29	Z	.004	0	%100
118	M32	Z	.004	0	%100
119	M33	Z	.004	0	%100
120	M40	Z	.005	0	%100
121	M41	Z	.005	0	%100
122	M44	Z	.005	0	%100
123	M45	Z	.005	0	%100
124	M52	Z	.001	0	%100
125	M53	Z	.001	0	%100
126	M56	Z	.001	0	%100
127	M57	Z	.001	0	%100
128	FF-HRK	Z	.005	0	%100
129	SF2-HRK	Z	.002	0	%100
130	SF1-HRK	Z	.007	0	%100
131	SRC-1	Z	.007	0	%100
132	SRC-2	Z	.002	0	%100
133	SRC-3	Z	.005	0	%100
134	BR-1	Z	.006	0	%100
135	BR-2	Z	.002	0	%100
136	BR-3	Z	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	CP-1	X	.011	0	%100
2	CP-2	X	.006	0	%100
3	CP-3	X	.006	0	%100
4	FF-TH	X	.003	0	%100
5	SF1-TH	X	.003	0	%100
6	SF2-TH	X	.005	0	%100
7	GSI-1A	X	.003	0	%100
8	GSI-1B	X	.003	0	%100
9	GSI-2A	X	.003	0	%100
10	GSI-2B	X	.005	0	%100
11	GSI-3A	X	.005	0	%100
12	GSI-3B	X	.003	0	%100
13	GSI-1A	X	.008	0	%100
14	GSI-1B	X	.008	0	%100
15	GSI-2A	X	.005	0	%100
16	GSI-2B	X	.005	0	%100
17	GSI-3A	X	.004	0	%100
18	GSI-3B	X	.004	0	%100
19	MP-1	X	.004	0	%100
20	MP-2	X	.004	0	%100
21	MP-2B	X	.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude...	Start Location[ft...	End Location[ft...	
22	MP-3	X	.004	.004	0	%100
23	MP-4	X	.004	.004	0	%100
24	MP-5	X	.004	.004	0	%100
25	MP-5B	X	.004	.004	0	%100
26	MP-6	X	.004	.004	0	%100
27	MP-7	X	.004	.004	0	%100
28	MP-8	X	.004	.004	0	%100
29	MP-8B	X	.004	.004	0	%100
30	MP-9	X	.004	.004	0	%100
31	MP-RRH1	X	.004	.004	0	%100
32	MP-RRH2	X	.004	.004	0	%100
33	SA-1	X	0	0	0	%100
34	SA-2	X	.007	.007	0	%100
35	SA-3	X	.009	.009	0	%100
36	M26	X	.000479	.000479	0	%100
37	M27	X	.000479	.000479	0	%100
38	M30	X	.000479	.000479	0	%100
39	M31	X	.000479	.000479	0	%100
40	M38	X	0	0	0	%100
41	M39	X	0	0	0	%100
42	M42	X	0	0	0	%100
43	M43	X	0	0	0	%100
44	M50	X	.000598	.000598	0	%100
45	M51	X	.000598	.000598	0	%100
46	M54	X	.000598	.000598	0	%100
47	M55	X	.000598	.000598	0	%100
48	M28	X	.002	.002	0	%100
49	M29	X	.002	.002	0	%100
50	M32	X	.002	.002	0	%100
51	M33	X	.002	.002	0	%100
52	M40	X	.004	.004	0	%100
53	M41	X	.004	.004	0	%100
54	M44	X	.004	.004	0	%100
55	M45	X	.004	.004	0	%100
56	M52	X	.002	.002	0	%100
57	M53	X	.002	.002	0	%100
58	M56	X	.002	.002	0	%100
59	M57	X	.002	.002	0	%100
60	FF-HRK	X	.003	.003	0	%100
61	SF2-HRK	X	.003	.003	0	%100
62	SF1-HRK	X	.005	.005	0	%100
63	SRC-1	X	.005	.005	0	%100
64	SRC-2	X	.002	.002	0	%100
65	SRC-3	X	.003	.003	0	%100
66	BR-1	X	.004	.004	0	%100
67	BR-2	X	.002	.002	0	%100
68	BR-3	X	.002	.002	0	%100
69	CP-1	Z	.02	.02	0	%100
70	CP-2	Z	.01	.01	0	%100
71	CP-3	Z	.01	.01	0	%100
72	FF-TH	Z	.005	.005	0	%100
73	SF1-TH	Z	.005	.005	0	%100
74	SF2-TH	Z	.01	.01	0	%100
75	GSIP-1A	Z	.005	.005	0	%100
76	GSIP-1B	Z	.005	.005	0	%100
77	GSIP-2A	Z	.006	.006	0	%100
78	GSIP-2B	Z	.01	.01	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude...	Start Location[ft...	End Location[ft...	
79	GSIP-3A	Z	.01	.01	0	%100
80	GSIP-3B	Z	.005	.005	0	%100
81	GSI-1A	Z	.015	.015	0	%100
82	GSI-1B	Z	.015	.015	0	%100
83	GSI-2A	Z	.008	.008	0	%100
84	GSI-2B	Z	.008	.008	0	%100
85	GSI-3A	Z	.008	.008	0	%100
86	GSI-3B	Z	.008	.008	0	%100
87	MP-1	Z	.008	.008	0	%100
88	MP-2	Z	.008	.008	0	%100
89	MP-2B	Z	.006	.006	0	%100
90	MP-3	Z	.008	.008	0	%100
91	MP-4	Z	.008	.008	0	%100
92	MP-5	Z	.008	.008	0	%100
93	MP-5B	Z	.006	.006	0	%100
94	MP-6	Z	.008	.008	0	%100
95	MP-7	Z	.008	.008	0	%100
96	MP-8	Z	.008	.008	0	%100
97	MP-8B	Z	.006	.006	0	%100
98	MP-9	Z	.008	.008	0	%100
99	MP-RRH1	Z	.006	.006	0	%100
100	MP-RRH2	Z	.006	.006	0	%100
101	SA-1	Z	0	0	0	%100
102	SA-2	Z	.016	.016	0	%100
103	SA-3	Z	.013	.013	0	%100
104	M26	Z	.001	.001	0	%100
105	M27	Z	.001	.001	0	%100
106	M30	Z	.001	.001	0	%100
107	M31	Z	.001	.001	0	%100
108	M38	Z	0	0	0	%100
109	M39	Z	0	0	0	%100
110	M42	Z	0	0	0	%100
111	M43	Z	0	0	0	%100
112	M50	Z	.000921	.000921	0	%100
113	M51	Z	.000921	.000921	0	%100
114	M54	Z	.000921	.000921	0	%100
115	M55	Z	.000921	.000921	0	%100
116	M28	Z	.003	.003	0	%100
117	M29	Z	.003	.003	0	%100
118	M32	Z	.003	.003	0	%100
119	M33	Z	.003	.003	0	%100
120	M40	Z	.007	.007	0	%100
121	M41	Z	.007	.007	0	%100
122	M44	Z	.007	.007	0	%100
123	M45	Z	.007	.007	0	%100
124	M52	Z	.003	.003	0	%100
125	M53	Z	.003	.003	0	%100
126	M56	Z	.003	.003	0	%100
127	M57	Z	.003	.003	0	%100
128	FF-HRK	Z	.005	.005	0	%100
129	SF2-HRK	Z	.005	.005	0	%100
130	SF1-HRK	Z	.009	.009	0	%100
131	SRC-1	Z	.009	.009	0	%100
132	SRC-2	Z	.005	.005	0	%100
133	SRC-3	Z	.005	.005	0	%100
134	BR-1	Z	.007	.007	0	%100
135	BR-2	Z	.004	.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
136	BR-3	Z	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	CP-1	Z	.02	0	%100
2	CP-2	Z	0	0	%100
3	CP-3	Z	.02	0	%100
4	FF-TH	Z	0	0	%100
5	SF1-TH	Z	.01	0	%100
6	SF2-TH	Z	.01	0	%100
7	GSIP-1A	Z	0	0	%100
8	GSIP-1B	Z	.01	0	%100
9	GSIP-2A	Z	.011	0	%100
10	GSIP-2B	Z	.011	0	%100
11	GSIP-3A	Z	.01	0	%100
12	GSIP-3B	Z	0	0	%100
13	GSI-1A	Z	.015	0	%100
14	GSI-1B	Z	.015	0	%100
15	GSI-2A	Z	0	0	%100
16	GSI-2B	Z	0	0	%100
17	GSI-3A	Z	.015	0	%100
18	GSI-3B	Z	.015	0	%100
19	MP-1	Z	.009	0	%100
20	MP-2	Z	.009	0	%100
21	MP-2B	Z	.007	0	%100
22	MP-3	Z	.009	0	%100
23	MP-4	Z	.009	0	%100
24	MP-5	Z	.009	0	%100
25	MP-5B	Z	.007	0	%100
26	MP-6	Z	.009	0	%100
27	MP-7	Z	.009	0	%100
28	MP-8	Z	.009	0	%100
29	MP-8B	Z	.007	0	%100
30	MP-9	Z	.009	0	%100
31	MP-RRH1	Z	.007	0	%100
32	MP-RRH2	Z	.007	0	%100
33	SA-1	Z	.009	0	%100
34	SA-2	Z	.021	0	%100
35	SA-3	Z	.009	0	%100
36	M26	Z	.001	0	%100
37	M27	Z	.001	0	%100
38	M30	Z	.001	0	%100
39	M31	Z	.001	0	%100
40	M38	Z	.000614	0	%100
41	M39	Z	.000614	0	%100
42	M42	Z	.000614	0	%100
43	M43	Z	.000614	0	%100
44	M50	Z	.000614	0	%100
45	M51	Z	.000614	0	%100
46	M54	Z	.000614	0	%100
47	M55	Z	.000614	0	%100
48	M28	Z	0	0	%100
49	M29	Z	0	0	%100
50	M32	Z	0	0	%100
51	M33	Z	0	0	%100
52	M40	Z	.007	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
53	M41	Z	.007	0	%100
54	M44	Z	.007	0	%100
55	M45	Z	.007	0	%100
56	M52	Z	.007	0	%100
57	M53	Z	.007	0	%100
58	M56	Z	.007	0	%100
59	M57	Z	.007	0	%100
60	FF-HRK	Z	0	0	%100
61	SF2-HRK	Z	.009	0	%100
62	SF1-HRK	Z	.009	0	%100
63	SRC-1	Z	.009	0	%100
64	SRC-2	Z	.009	0	%100
65	SRC-3	Z	0	0	%100
66	BR-1	Z	.007	0	%100
67	BR-2	Z	.007	0	%100
68	BR-3	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	CP-1	X	-.006	0	%100
2	CP-2	X	-.006	0	%100
3	CP-3	X	-.011	0	%100
4	FF-TH	X	-.003	0	%100
5	SF1-TH	X	-.005	0	%100
6	SF2-TH	X	-.003	0	%100
7	GSIP-1A	X	-.003	0	%100
8	GSIP-1B	X	-.005	0	%100
9	GSIP-2A	X	-.005	0	%100
10	GSIP-2B	X	-.003	0	%100
11	GSIP-3A	X	-.003	0	%100
12	GSIP-3B	X	-.003	0	%100
13	GSI-1A	X	-.004	0	%100
14	GSI-1B	X	-.004	0	%100
15	GSI-2A	X	-.005	0	%100
16	GSI-2B	X	-.005	0	%100
17	GSI-3A	X	-.008	0	%100
18	GSI-3B	X	-.008	0	%100
19	MP-1	X	-.004	0	%100
20	MP-2	X	-.004	0	%100
21	MP-2B	X	-.004	0	%100
22	MP-3	X	-.004	0	%100
23	MP-4	X	-.004	0	%100
24	MP-5	X	-.004	0	%100
25	MP-5B	X	-.004	0	%100
26	MP-6	X	-.004	0	%100
27	MP-7	X	-.004	0	%100
28	MP-8	X	-.004	0	%100
29	MP-8B	X	-.004	0	%100
30	MP-9	X	-.004	0	%100
31	MP-RRH1	X	-.004	0	%100
32	MP-RRH2	X	-.004	0	%100
33	SA-1	X	-.009	0	%100
34	SA-2	X	-.007	0	%100
35	SA-3	X	0	0	%100
36	M26	X	-.000479	0	%100
37	M27	X	-.000479	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
38	M30	X	-0.00479	0	%100	
39	M31	X	-0.00479	0	%100	
40	M38	X	-0.00598	0	%100	
41	M39	X	-0.00598	0	%100	
42	M42	X	-0.00598	0	%100	
43	M43	X	-0.00598	0	%100	
44	M50	X	0	0	%100	
45	M51	X	0	0	%100	
46	M54	X	0	0	%100	
47	M55	X	0	0	%100	
48	M28	X	-0.002	-0.002	0	%100
49	M29	X	-0.002	-0.002	0	%100
50	M32	X	-0.002	-0.002	0	%100
51	M33	X	-0.002	-0.002	0	%100
52	M40	X	-0.002	-0.002	0	%100
53	M41	X	-0.002	-0.002	0	%100
54	M44	X	-0.002	-0.002	0	%100
55	M45	X	-0.002	-0.002	0	%100
56	M52	X	-0.004	-0.004	0	%100
57	M53	X	-0.004	-0.004	0	%100
58	M56	X	-0.004	-0.004	0	%100
59	M57	X	-0.004	-0.004	0	%100
60	FF-HRK	X	-0.003	-0.003	0	%100
61	SF2-HRK	X	-0.005	-0.005	0	%100
62	SF1-HRK	X	-0.003	-0.003	0	%100
63	SRC-1	X	-0.002	-0.002	0	%100
64	SRC-2	X	-0.005	-0.005	0	%100
65	SRC-3	X	-0.003	-0.003	0	%100
66	BR-1	X	-0.002	-0.002	0	%100
67	BR-2	X	-0.004	-0.004	0	%100
68	BR-3	X	-0.002	-0.002	0	%100
69	CP-1	Z	.01	.01	0	%100
70	CP-2	Z	.01	.01	0	%100
71	CP-3	Z	.02	.02	0	%100
72	FF-TH	Z	.005	.005	0	%100
73	SF1-TH	Z	.01	.01	0	%100
74	SF2-TH	Z	.005	.005	0	%100
75	GSIP-1A	Z	.005	.005	0	%100
76	GSIP-1B	Z	.01	.01	0	%100
77	GSIP-2A	Z	.01	.01	0	%100
78	GSIP-2B	Z	.006	.006	0	%100
79	GSIP-3A	Z	.005	.005	0	%100
80	GSIP-3B	Z	.005	.005	0	%100
81	GSI-1A	Z	.008	.008	0	%100
82	GSI-1B	Z	.008	.008	0	%100
83	GSI-2A	Z	.008	.008	0	%100
84	GSI-2B	Z	.008	.008	0	%100
85	GSI-3A	Z	.015	.015	0	%100
86	GSI-3B	Z	.015	.015	0	%100
87	MP-1	Z	.008	.008	0	%100
88	MP-2	Z	.008	.008	0	%100
89	MP-2B	Z	.006	.006	0	%100
90	MP-3	Z	.008	.008	0	%100
91	MP-4	Z	.008	.008	0	%100
92	MP-5	Z	.008	.008	0	%100
93	MP-5B	Z	.006	.006	0	%100
94	MP-6	Z	.008	.008	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
95	MP-7	Z	.008	.008	0	%100
96	MP-8	Z	.008	.008	0	%100
97	MP-8B	Z	.006	.006	0	%100
98	MP-9	Z	.008	.008	0	%100
99	MP-RRH1	Z	.006	.006	0	%100
100	MP-RRH2	Z	.006	.006	0	%100
101	SA-1	Z	.013	.013	0	%100
102	SA-2	Z	.016	.016	0	%100
103	SA-3	Z	0	0	0	%100
104	M26	Z	.001	.001	0	%100
105	M27	Z	.001	.001	0	%100
106	M30	Z	.001	.001	0	%100
107	M31	Z	.001	.001	0	%100
108	M38	Z	.000921	.000921	0	%100
109	M39	Z	.000921	.000921	0	%100
110	M42	Z	.000921	.000921	0	%100
111	M43	Z	.000921	.000921	0	%100
112	M50	Z	0	0	0	%100
113	M51	Z	0	0	0	%100
114	M54	Z	0	0	0	%100
115	M55	Z	0	0	0	%100
116	M28	Z	.003	.003	0	%100
117	M29	Z	.003	.003	0	%100
118	M32	Z	.003	.003	0	%100
119	M33	Z	.003	.003	0	%100
120	M40	Z	.003	.003	0	%100
121	M41	Z	.003	.003	0	%100
122	M44	Z	.003	.003	0	%100
123	M45	Z	.003	.003	0	%100
124	M52	Z	.007	.007	0	%100
125	M53	Z	.007	.007	0	%100
126	M56	Z	.007	.007	0	%100
127	M57	Z	.007	.007	0	%100
128	FF-HRK	Z	.005	.005	0	%100
129	SF2-HRK	Z	.009	.009	0	%100
130	SF1-HRK	Z	.005	.005	0	%100
131	SRC-1	Z	.005	.005	0	%100
132	SRC-2	Z	.009	.009	0	%100
133	SRC-3	Z	.005	.005	0	%100
134	BR-1	Z	.004	.004	0	%100
135	BR-2	Z	.007	.007	0	%100
136	BR-3	Z	.004	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	X	-0.004	-0.004	0	%100
2	CP-2	X	-0.011	-0.011	0	%100
3	CP-3	X	-0.016	-0.016	0	%100
4	FF-TH	X	-0.005	-0.005	0	%100
5	SF1-TH	X	-0.007	-0.007	0	%100
6	SF2-TH	X	-0.002	-0.002	0	%100
7	GSIP-1A	X	-0.006	-0.006	0	%100
8	GSIP-1B	X	-0.007	-0.007	0	%100
9	GSIP-2A	X	-0.007	-0.007	0	%100
10	GSIP-2B	X	-0.002	-0.002	0	%100
11	GSIP-3A	X	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
12	GSIP-3B	X	-0.006	-0.006	0	%100
13	GSI-1A	X	-0.003	-0.003	0	%100
14	GSI-1B	X	-0.003	-0.003	0	%100
15	GSI-2A	X	-0.009	-0.009	0	%100
16	GSI-2B	X	-0.009	-0.009	0	%100
17	GSI-3A	X	-0.011	-0.011	0	%100
18	GSI-3B	X	-0.011	-0.011	0	%100
19	MP-1	X	-0.006	-0.006	0	%100
20	MP-2	X	-0.006	-0.006	0	%100
21	MP-2B	X	-0.005	-0.005	0	%100
22	MP-3	X	-0.006	-0.006	0	%100
23	MP-4	X	-0.006	-0.006	0	%100
24	MP-5	X	-0.006	-0.006	0	%100
25	MP-5B	X	-0.005	-0.005	0	%100
26	MP-6	X	-0.006	-0.006	0	%100
27	MP-7	X	-0.006	-0.006	0	%100
28	MP-8	X	-0.006	-0.006	0	%100
29	MP-8B	X	-0.005	-0.005	0	%100
30	MP-9	X	-0.006	-0.006	0	%100
31	MP-RRH1	X	-0.005	-0.005	0	%100
32	MP-RRH2	X	-0.005	-0.005	0	%100
33	SA-1	X	-0.014	-0.014	0	%100
34	SA-2	X	-0.008	-0.008	0	%100
35	SA-3	X	-0.004	-0.004	0	%100
36	M26	X	-0.000553	-0.000553	0	%100
37	M27	X	-0.000553	-0.000553	0	%100
38	M30	X	-0.000553	-0.000553	0	%100
39	M31	X	-0.000553	-0.000553	0	%100
40	M38	X	-0.000944	-0.000944	0	%100
41	M39	X	-0.000944	-0.000944	0	%100
42	M42	X	-0.000944	-0.000944	0	%100
43	M43	X	-0.000944	-0.000944	0	%100
44	M50	X	-0.000253	-0.000253	0	%100
45	M51	X	-0.000253	-0.000253	0	%100
46	M54	X	-0.000253	-0.000253	0	%100
47	M55	X	-0.000253	-0.000253	0	%100
48	M28	X	-0.004	-0.004	0	%100
49	M29	X	-0.004	-0.004	0	%100
50	M32	X	-0.004	-0.004	0	%100
51	M33	X	-0.004	-0.004	0	%100
52	M40	X	-0.001	-0.001	0	%100
53	M41	X	-0.001	-0.001	0	%100
54	M44	X	-0.001	-0.001	0	%100
55	M45	X	-0.001	-0.001	0	%100
56	M52	X	-0.005	-0.005	0	%100
57	M53	X	-0.005	-0.005	0	%100
58	M56	X	-0.005	-0.005	0	%100
59	M57	X	-0.005	-0.005	0	%100
60	FF-HRK	X	-0.005	-0.005	0	%100
61	SF2-HRK	X	-0.007	-0.007	0	%100
62	SF1-HRK	X	-0.002	-0.002	0	%100
63	SRC-1	X	-0.002	-0.002	0	%100
64	SRC-2	X	-0.007	-0.007	0	%100
65	SRC-3	X	-0.005	-0.005	0	%100
66	BR-1	X	-0.001	-0.001	0	%100
67	BR-2	X	-0.005	-0.005	0	%100
68	BR-3	X	-0.004	-0.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
69	CP-1	Z	.004	.004	0	%100
70	CP-2	Z	.011	.011	0	%100
71	CP-3	Z	.016	.016	0	%100
72	FF-TH	Z	.005	.005	0	%100
73	SF1-TH	Z	.008	.008	0	%100
74	SF2-TH	Z	.002	.002	0	%100
75	GSIP-1A	Z	.006	.006	0	%100
76	GSIP-1B	Z	.008	.008	0	%100
77	GSIP-2A	Z	.008	.008	0	%100
78	GSIP-2B	Z	.003	.003	0	%100
79	GSIP-3A	Z	.002	.002	0	%100
80	GSIP-3B	Z	.006	.006	0	%100
81	GSI-1A	Z	.003	.003	0	%100
82	GSI-1B	Z	.003	.003	0	%100
83	GSI-2A	Z	.009	.009	0	%100
84	GSI-2B	Z	.009	.009	0	%100
85	GSI-3A	Z	.012	.012	0	%100
86	GSI-3B	Z	.012	.012	0	%100
87	MP-1	Z	.006	.006	0	%100
88	MP-2	Z	.006	.006	0	%100
89	MP-2B	Z	.005	.005	0	%100
90	MP-3	Z	.006	.006	0	%100
91	MP-4	Z	.006	.006	0	%100
92	MP-5	Z	.006	.006	0	%100
93	MP-5B	Z	.005	.005	0	%100
94	MP-6	Z	.006	.006	0	%100
95	MP-7	Z	.006	.006	0	%100
96	MP-8	Z	.006	.006	0	%100
97	MP-8B	Z	.005	.005	0	%100
98	MP-9	Z	.006	.006	0	%100
99	MP-RRH1	Z	.005	.005	0	%100
100	MP-RRH2	Z	.005	.005	0	%100
101	SA-1	Z	.012	.012	0	%100
102	SA-2	Z	.011	.011	0	%100
103	SA-3	Z	.003	.003	0	%100
104	M26	Z	.000719	.000719	0	%100
105	M27	Z	.000719	.000719	0	%100
106	M30	Z	.000719	.000719	0	%100
107	M31	Z	.000719	.000719	0	%100
108	M38	Z	.000839	.000839	0	%100
109	M39	Z	.000839	.000839	0	%100
110	M42	Z	.000839	.000839	0	%100
111	M43	Z	.000839	.000839	0	%100
112	M50	Z	.000225	.000225	0	%100
113	M51	Z	.000225	.000225	0	%100
114	M54	Z	.000225	.000225	0	%100
115	M55	Z	.000225	.000225	0	%100
116	M28	Z	.004	.004	0	%100
117	M29	Z	.004	.004	0	%100
118	M32	Z	.004	.004	0	%100
119	M33	Z	.004	.004	0	%100
120	M40	Z	.001	.001	0	%100
121	M41	Z	.001	.001	0	%100
122	M44	Z	.001	.001	0	%100
123	M45	Z	.001	.001	0	%100
124	M52	Z	.005	.005	0	%100
125	M53	Z	.005	.005	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
126	M56	Z	.005	.005	0	%100
127	M57	Z	.005	.005	0	%100
128	FF-HRK	Z	.005	.005	0	%100
129	SF2-HRK	Z	.007	.007	0	%100
130	SF1-HRK	Z	.002	.002	0	%100
131	SRC-1	Z	.002	.002	0	%100
132	SRC-2	Z	.007	.007	0	%100
133	SRC-3	Z	.005	.005	0	%100
134	BR-1	Z	.002	.002	0	%100
135	BR-2	Z	.006	.006	0	%100
136	BR-3	Z	.004	.004	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
1	CP-1	X	0	0	0	%100
2	CP-2	X	-.017	-.017	0	%100
3	CP-3	X	-.017	-.017	0	%100
4	FF-TH	X	-.008	-.008	0	%100
5	SF1-TH	X	-.008	-.008	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSI-1A	X	-.009	-.009	0	%100
8	GSI-1B	X	-.008	-.008	0	%100
9	GSI-2A	X	-.007	-.007	0	%100
10	GSI-2B	X	-.000362	-.000362	0	%100
11	GSI-3A	X	0	0	0	%100
12	GSI-3B	X	-.009	-.009	0	%100
13	GSI-1A	X	0	0	0	%100
14	GSI-1B	X	0	0	0	%100
15	GSI-2A	X	-.014	-.014	0	%100
16	GSI-2B	X	-.014	-.014	0	%100
17	GSI-3A	X	-.012	-.012	0	%100
18	GSI-3B	X	-.012	-.012	0	%100
19	MP-1	X	-.008	-.008	0	%100
20	MP-2	X	-.008	-.008	0	%100
21	MP-2B	X	-.006	-.006	0	%100
22	MP-3	X	-.008	-.008	0	%100
23	MP-4	X	-.008	-.008	0	%100
24	MP-5	X	-.008	-.008	0	%100
25	MP-5B	X	-.006	-.006	0	%100
26	MP-6	X	-.008	-.008	0	%100
27	MP-7	X	-.008	-.008	0	%100
28	MP-8	X	-.008	-.008	0	%100
29	MP-8B	X	-.006	-.006	0	%100
30	MP-9	X	-.008	-.008	0	%100
31	MP-RRH1	X	-.006	-.006	0	%100
32	MP-RRH2	X	-.006	-.006	0	%100
33	SA-1	X	-.018	-.018	0	%100
34	SA-2	X	-.007	-.007	0	%100
35	SA-3	X	-.009	-.009	0	%100
36	M26	X	-.000479	-.000479	0	%100
37	M27	X	-.000479	-.000479	0	%100
38	M30	X	-.000479	-.000479	0	%100
39	M31	X	-.000479	-.000479	0	%100
40	M38	X	-.001	-.001	0	%100
41	M39	X	-.001	-.001	0	%100
42	M42	X	-.001	-.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
43	M43	X	-.001	-.001	0	%100
44	M50	X	-.000598	-.000598	0	%100
45	M51	X	-.000598	-.000598	0	%100
46	M54	X	-.000598	-.000598	0	%100
47	M55	X	-.000598	-.000598	0	%100
48	M28	X	-.006	-.006	0	%100
49	M29	X	-.006	-.006	0	%100
50	M32	X	-.006	-.006	0	%100
51	M33	X	-.006	-.006	0	%100
52	M40	X	0	0	0	%100
53	M41	X	0	0	0	%100
54	M44	X	0	0	0	%100
55	M45	X	0	0	0	%100
56	M52	X	-.006	-.006	0	%100
57	M53	X	-.006	-.006	0	%100
58	M56	X	-.006	-.006	0	%100
59	M57	X	-.006	-.006	0	%100
60	FF-HRK	X	-.008	-.008	0	%100
61	SF2-HRK	X	-.008	-.008	0	%100
62	SF1-HRK	X	0	0	0	%100
63	SRC-1	X	0	0	0	%100
64	SRC-2	X	-.007	-.007	0	%100
65	SRC-3	X	-.008	-.008	0	%100
66	BR-1	X	0	0	0	%100
67	BR-2	X	-.005	-.005	0	%100
68	BR-3	X	-.007	-.007	0	%100
69	CP-1	Z	0	0	0	%100
70	CP-2	Z	.01	.01	0	%100
71	CP-3	Z	.01	.01	0	%100
72	FF-TH	Z	.005	.005	0	%100
73	SF1-TH	Z	.005	.005	0	%100
74	SF2-TH	Z	0	0	0	%100
75	GSI-1A	Z	.005	.005	0	%100
76	GSI-1B	Z	.005	.005	0	%100
77	GSI-2A	Z	.005	.005	0	%100
78	GSI-2B	Z	.000257	.000257	0	%100
79	GSI-3A	Z	0	0	0	%100
80	GSI-3B	Z	.005	.005	0	%100
81	GSI-1A	Z	0	0	0	%100
82	GSI-1B	Z	0	0	0	%100
83	GSI-2A	Z	.008	.008	0	%100
84	GSI-2B	Z	.008	.008	0	%100
85	GSI-3A	Z	.008	.008	0	%100
86	GSI-3B	Z	.008	.008	0	%100
87	MP-1	Z	.004	.004	0	%100
88	MP-2	Z	.004	.004	0	%100
89	MP-2B	Z	.004	.004	0	%100
90	MP-3	Z	.004	.004	0	%100
91	MP-4	Z	.004	.004	0	%100
92	MP-5	Z	.004	.004	0	%100
93	MP-5B	Z	.004	.004	0	%100
94	MP-6	Z	.004	.004	0	%100
95	MP-7	Z	.004	.004	0	%100
96	MP-8	Z	.004	.004	0	%100
97	MP-8B	Z	.004	.004	0	%100
98	MP-9	Z	.004	.004	0	%100
99	MP-RRH1	Z	.004	.004	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
100	MP-RRH2	Z	.004	.004	0	%100
101	SA-1	Z	.009	.009	0	%100
102	SA-2	Z	.005	.005	0	%100
103	SA-3	Z	.004	.004	0	%100
104	M26	Z	.00036	.00036	0	%100
105	M27	Z	.00036	.00036	0	%100
106	M30	Z	.00036	.00036	0	%100
107	M31	Z	.00036	.00036	0	%100
108	M38	Z	.000614	.000614	0	%100
109	M39	Z	.000614	.000614	0	%100
110	M42	Z	.000614	.000614	0	%100
111	M43	Z	.000614	.000614	0	%100
112	M50	Z	.000307	.000307	0	%100
113	M51	Z	.000307	.000307	0	%100
114	M54	Z	.000307	.000307	0	%100
115	M55	Z	.000307	.000307	0	%100
116	M28	Z	.003	.003	0	%100
117	M29	Z	.003	.003	0	%100
118	M32	Z	.003	.003	0	%100
119	M33	Z	.003	.003	0	%100
120	M40	Z	0	0	0	%100
121	M41	Z	0	0	0	%100
122	M44	Z	0	0	0	%100
123	M45	Z	0	0	0	%100
124	M52	Z	.003	.003	0	%100
125	M53	Z	.003	.003	0	%100
126	M56	Z	.003	.003	0	%100
127	M57	Z	.003	.003	0	%100
128	FF-HRK	Z	.005	.005	0	%100
129	SF2-HRK	Z	.005	.005	0	%100
130	SF1-HRK	Z	0	0	0	%100
131	SRC-1	Z	0	0	0	%100
132	SRC-2	Z	.005	.005	0	%100
133	SRC-3	Z	.005	.005	0	%100
134	BR-1	Z	0	0	0	%100
135	BR-2	Z	.004	.004	0	%100
136	BR-3	Z	.004	.004	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	Y	-.007	-.007	0	%100
2	CP-2	Y	-.007	-.007	0	%100
3	CP-3	Y	-.007	-.007	0	%100
4	FF-TH	Y	-.007	-.007	0	%100
5	SF1-TH	Y	-.007	-.007	0	%100
6	SF2-TH	Y	-.007	-.007	0	%100
7	GSIP-1A	Y	-.004	-.004	0	%100
8	GSIP-1B	Y	-.004	-.004	0	%100
9	GSIP-2A	Y	-.004	-.004	0	%100
10	GSIP-2B	Y	-.004	-.004	0	%100
11	GSIP-3A	Y	-.004	-.004	0	%100
12	GSIP-3B	Y	-.004	-.004	0	%100
13	GSI-1A	Y	-.008	-.008	0	%100
14	GSI-1B	Y	-.008	-.008	0	%100
15	GSI-2A	Y	-.008	-.008	0	%100
16	GSI-2B	Y	-.008	-.008	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
17	GSI-3A	Y	-.008	-.008	0	%100
18	GSI-3B	Y	-.008	-.008	0	%100
19	MP-1	Y	-.005	-.005	0	%100
20	MP-2	Y	-.005	-.005	0	%100
21	MP-2B	Y	-.005	-.005	0	%100
22	MP-3	Y	-.005	-.005	0	%100
23	MP-4	Y	-.005	-.005	0	%100
24	MP-5	Y	-.005	-.005	0	%100
25	MP-5B	Y	-.005	-.005	0	%100
26	MP-6	Y	-.005	-.005	0	%100
27	MP-7	Y	-.005	-.005	0	%100
28	MP-8	Y	-.005	-.005	0	%100
29	MP-8B	Y	-.005	-.005	0	%100
30	MP-9	Y	-.005	-.005	0	%100
31	MP-RRH1	Y	-.005	-.005	0	%100
32	MP-RRH2	Y	-.005	-.005	0	%100
33	SA-1	Y	-.007	-.007	0	%100
34	SA-2	Y	-.007	-.007	0	%100
35	SA-3	Y	-.007	-.007	0	%100
36	M26	Y	-.003	-.003	0	%100
37	M27	Y	-.003	-.003	0	%100
38	M30	Y	-.003	-.003	0	%100
39	M31	Y	-.003	-.003	0	%100
40	M38	Y	-.003	-.003	0	%100
41	M39	Y	-.003	-.003	0	%100
42	M42	Y	-.003	-.003	0	%100
43	M43	Y	-.003	-.003	0	%100
44	M50	Y	-.003	-.003	0	%100
45	M51	Y	-.003	-.003	0	%100
46	M54	Y	-.003	-.003	0	%100
47	M55	Y	-.003	-.003	0	%100
48	M28	Y	-.003	-.003	0	%100
49	M29	Y	-.003	-.003	0	%100
50	M32	Y	-.003	-.003	0	%100
51	M33	Y	-.003	-.003	0	%100
52	M40	Y	-.003	-.003	0	%100
53	M41	Y	-.003	-.003	0	%100
54	M44	Y	-.003	-.003	0	%100
55	M45	Y	-.003	-.003	0	%100
56	M52	Y	-.003	-.003	0	%100
57	M53	Y	-.003	-.003	0	%100
58	M56	Y	-.003	-.003	0	%100
59	M57	Y	-.003	-.003	0	%100
60	FF-HRK	Y	-.006	-.006	0	%100
61	SF2-HRK	Y	-.006	-.006	0	%100
62	SF1-HRK	Y	-.006	-.006	0	%100
63	SRC-1	Y	-.005	-.005	0	%100
64	SRC-2	Y	-.005	-.005	0	%100
65	SRC-3	Y	-.005	-.005	0	%100
66	BR-1	Y	-.005	-.005	0	%100
67	BR-2	Y	-.005	-.005	0	%100
68	BR-3	Y	-.005	-.005	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	X	-.005	-.005	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
2	CP-2	X	-0.05	-0.05	0	%100
3	CP-3	X	-0.05	-0.05	0	%100
4	FF-TH	X	-0.03	-0.03	0	%100
5	SF1-TH	X	-0.03	-0.03	0	%100
6	SF2-TH	X	-0.03	-0.03	0	%100
7	GSIP-1A	X	-0.03	-0.03	0	%100
8	GSIP-1B	X	-0.03	-0.03	0	%100
9	GSIP-2A	X	-0.03	-0.03	0	%100
10	GSIP-2B	X	-0.03	-0.03	0	%100
11	GSIP-3A	X	-0.03	-0.03	0	%100
12	GSIP-3B	X	-0.03	-0.03	0	%100
13	GSI-1A	X	-0.04	-0.04	0	%100
14	GSI-1B	X	-0.04	-0.04	0	%100
15	GSI-2A	X	-0.04	-0.04	0	%100
16	GSI-2B	X	-0.04	-0.04	0	%100
17	GSI-3A	X	-0.04	-0.04	0	%100
18	GSI-3B	X	-0.04	-0.04	0	%100
19	MP-1	X	-0.02	-0.02	0	%100
20	MP-2	X	-0.02	-0.02	0	%100
21	MP-2B	X	-0.02	-0.02	0	%100
22	MP-3	X	-0.02	-0.02	0	%100
23	MP-4	X	-0.02	-0.02	0	%100
24	MP-5	X	-0.02	-0.02	0	%100
25	MP-5B	X	-0.02	-0.02	0	%100
26	MP-6	X	-0.02	-0.02	0	%100
27	MP-7	X	-0.02	-0.02	0	%100
28	MP-8	X	-0.02	-0.02	0	%100
29	MP-8B	X	-0.02	-0.02	0	%100
30	MP-9	X	-0.02	-0.02	0	%100
31	MP-RRH1	X	-0.02	-0.02	0	%100
32	MP-RRH2	X	-0.02	-0.02	0	%100
33	SA-1	X	-0.04	-0.04	0	%100
34	SA-2	X	-0.04	-0.04	0	%100
35	SA-3	X	-0.04	-0.04	0	%100
36	M26	X	-0.01	-0.01	0	%100
37	M27	X	-0.01	-0.01	0	%100
38	M30	X	-0.01	-0.01	0	%100
39	M31	X	-0.01	-0.01	0	%100
40	M38	X	-0.01	-0.01	0	%100
41	M39	X	-0.01	-0.01	0	%100
42	M42	X	-0.01	-0.01	0	%100
43	M43	X	-0.01	-0.01	0	%100
44	M50	X	-0.01	-0.01	0	%100
45	M51	X	-0.01	-0.01	0	%100
46	M54	X	-0.01	-0.01	0	%100
47	M55	X	-0.01	-0.01	0	%100
48	M28	X	-0.03	-0.03	0	%100
49	M29	X	-0.03	-0.03	0	%100
50	M32	X	-0.03	-0.03	0	%100
51	M33	X	-0.03	-0.03	0	%100
52	M40	X	-0.03	-0.03	0	%100
53	M41	X	-0.03	-0.03	0	%100
54	M44	X	-0.03	-0.03	0	%100
55	M45	X	-0.03	-0.03	0	%100
56	M52	X	-0.03	-0.03	0	%100
57	M53	X	-0.03	-0.03	0	%100
58	M56	X	-0.03	-0.03	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
59	M57	X	-0.03	-0.03	0	%100
60	FF-HRK	X	-0.03	-0.03	0	%100
61	SF2-HRK	X	-0.02	-0.02	0	%100
62	SF1-HRK	X	-0.02	-0.02	0	%100
63	SRC-1	X	-0.03	-0.03	0	%100
64	SRC-2	X	-0.03	-0.03	0	%100
65	SRC-3	X	-0.03	-0.03	0	%100
66	BR-1	X	-0.02	-0.02	0	%100
67	BR-2	X	-0.02	-0.02	0	%100
68	BR-3	X	-0.02	-0.02	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
1	CP-1	X	-0.04	-0.04	0	%100
2	CP-2	X	-0.04	-0.04	0	%100
3	CP-3	X	0	0	0	%100
4	FF-TH	X	-0.02	-0.02	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	-0.02	-0.02	0	%100
7	GSIP-1A	X	-0.02	-0.02	0	%100
8	GSIP-1B	X	0	0	0	%100
9	GSIP-2A	X	-0.00104	-0.00104	0	%100
10	GSIP-2B	X	-0.02	-0.02	0	%100
11	GSIP-3A	X	-0.02	-0.02	0	%100
12	GSIP-3B	X	-0.02	-0.02	0	%100
13	GSI-1A	X	-0.03	-0.03	0	%100
14	GSI-1B	X	-0.03	-0.03	0	%100
15	GSI-2A	X	-0.03	-0.03	0	%100
16	GSI-2B	X	-0.03	-0.03	0	%100
17	GSI-3A	X	0	0	0	%100
18	GSI-3B	X	0	0	0	%100
19	MP-1	X	-0.02	-0.02	0	%100
20	MP-2	X	-0.02	-0.02	0	%100
21	MP-2B	X	-0.01	-0.01	0	%100
22	MP-3	X	-0.02	-0.02	0	%100
23	MP-4	X	-0.02	-0.02	0	%100
24	MP-5	X	-0.02	-0.02	0	%100
25	MP-5B	X	-0.01	-0.01	0	%100
26	MP-6	X	-0.02	-0.02	0	%100
27	MP-7	X	-0.02	-0.02	0	%100
28	MP-8	X	-0.02	-0.02	0	%100
29	MP-8B	X	-0.01	-0.01	0	%100
30	MP-9	X	-0.02	-0.02	0	%100
31	MP-RRH1	X	-0.01	-0.01	0	%100
32	MP-RRH2	X	-0.01	-0.01	0	%100
33	SA-1	X	-0.02	-0.02	0	%100
34	SA-2	X	-0.02	-0.02	0	%100
35	SA-3	X	-0.04	-0.04	0	%100
36	M26	X	-0.00541	-0.00541	0	%100
37	M27	X	-0.00541	-0.00541	0	%100
38	M30	X	-0.00541	-0.00541	0	%100
39	M31	X	-0.00541	-0.00541	0	%100
40	M38	X	-0.00545	-0.00545	0	%100
41	M39	X	-0.00545	-0.00545	0	%100
42	M42	X	-0.00545	-0.00545	0	%100
43	M43	X	-0.00545	-0.00545	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
44	M50	X	-0.01	-0.01	0	%100
45	M51	X	-0.01	-0.01	0	%100
46	M54	X	-0.01	-0.01	0	%100
47	M55	X	-0.01	-0.01	0	%100
48	M28	X	-0.02	-0.02	0	%100
49	M29	X	-0.02	-0.02	0	%100
50	M32	X	-0.02	-0.02	0	%100
51	M33	X	-0.02	-0.02	0	%100
52	M40	X	-0.02	-0.02	0	%100
53	M41	X	-0.02	-0.02	0	%100
54	M44	X	-0.02	-0.02	0	%100
55	M45	X	-0.02	-0.02	0	%100
56	M52	X	0	0	0	%100
57	M53	X	0	0	0	%100
58	M56	X	0	0	0	%100
59	M57	X	0	0	0	%100
60	FF-HRK	X	-0.02	-0.02	0	%100
61	SF2-HRK	X	0	0	0	%100
62	SF1-HRK	X	-0.02	-0.02	0	%100
63	SRC-1	X	-0.02	-0.02	0	%100
64	SRC-2	X	0	0	0	%100
65	SRC-3	X	-0.02	-0.02	0	%100
66	BR-1	X	-0.01	-0.01	0	%100
67	BR-2	X	0	0	0	%100
68	BR-3	X	-0.02	-0.02	0	%100
69	CP-1	Z	-0.02	-0.02	0	%100
70	CP-2	Z	-0.02	-0.02	0	%100
71	CP-3	Z	0	0	0	%100
72	FF-TH	Z	-0.01	-0.01	0	%100
73	SF1-TH	Z	0	0	0	%100
74	SF2-TH	Z	-0.01	-0.01	0	%100
75	GSIP-1A	Z	-0.01	-0.01	0	%100
76	GSIP-1B	Z	0	0	0	%100
77	GSIP-2A	Z	-6.8e-5	-6.8e-5	0	%100
78	GSIP-2B	Z	-0.01	-0.01	0	%100
79	GSIP-3A	Z	-0.01	-0.01	0	%100
80	GSIP-3B	Z	-0.01	-0.01	0	%100
81	GSI-1A	Z	-0.02	-0.02	0	%100
82	GSI-1B	Z	-0.02	-0.02	0	%100
83	GSI-2A	Z	-0.02	-0.02	0	%100
84	GSI-2B	Z	-0.02	-0.02	0	%100
85	GSI-3A	Z	0	0	0	%100
86	GSI-3B	Z	0	0	0	%100
87	MP-1	Z	-0.01	-0.01	0	%100
88	MP-2	Z	-0.01	-0.01	0	%100
89	MP-2B	Z	-0.00955	-0.00955	0	%100
90	MP-3	Z	-0.01	-0.01	0	%100
91	MP-4	Z	-0.01	-0.01	0	%100
92	MP-5	Z	-0.01	-0.01	0	%100
93	MP-5B	Z	-0.00955	-0.00955	0	%100
94	MP-6	Z	-0.01	-0.01	0	%100
95	MP-7	Z	-0.01	-0.01	0	%100
96	MP-8	Z	-0.01	-0.01	0	%100
97	MP-8B	Z	-0.00955	-0.00955	0	%100
98	MP-9	Z	-0.01	-0.01	0	%100
99	MP-RRH1	Z	-0.00955	-0.00955	0	%100
100	MP-RRH2	Z	-0.00955	-0.00955	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
101	SA-1	Z	-0.01	-0.01	0	%100
102	SA-2	Z	-0.01	-0.01	0	%100
103	SA-3	Z	-0.02	-0.02	0	%100
104	M26	Z	-0.00317	-0.00317	0	%100
105	M27	Z	-0.00317	-0.00317	0	%100
106	M30	Z	-0.00317	-0.00317	0	%100
107	M31	Z	-0.00317	-0.00317	0	%100
108	M38	Z	-0.00313	-0.00313	0	%100
109	M39	Z	-0.00313	-0.00313	0	%100
110	M42	Z	-0.00313	-0.00313	0	%100
111	M43	Z	-0.00313	-0.00313	0	%100
112	M50	Z	-0.00625	-0.00625	0	%100
113	M51	Z	-0.00625	-0.00625	0	%100
114	M54	Z	-0.00625	-0.00625	0	%100
115	M55	Z	-0.00625	-0.00625	0	%100
116	M28	Z	-0.01	-0.01	0	%100
117	M29	Z	-0.01	-0.01	0	%100
118	M32	Z	-0.01	-0.01	0	%100
119	M33	Z	-0.01	-0.01	0	%100
120	M40	Z	-0.01	-0.01	0	%100
121	M41	Z	-0.01	-0.01	0	%100
122	M44	Z	-0.01	-0.01	0	%100
123	M45	Z	-0.01	-0.01	0	%100
124	M52	Z	0	0	0	%100
125	M53	Z	0	0	0	%100
126	M56	Z	0	0	0	%100
127	M57	Z	0	0	0	%100
128	FF-HRK	Z	-0.01	-0.01	0	%100
129	SF2-HRK	Z	0	0	0	%100
130	SF1-HRK	Z	-0.01	-0.01	0	%100
131	SRC-1	Z	-0.01	-0.01	0	%100
132	SRC-2	Z	0	0	0	%100
133	SRC-3	Z	-0.01	-0.01	0	%100
134	BR-1	Z	-0.00889	-0.00889	0	%100
135	BR-2	Z	0	0	0	%100
136	BR-3	Z	-0.00834	-0.00834	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
1	CP-1	X	-0.04	-0.04	0	%100
2	CP-2	X	-0.03	-0.03	0	%100
3	CP-3	X	-0.00977	-0.00977	0	%100
4	FF-TH	X	-0.02	-0.02	0	%100
5	SF1-TH	X	-0.00488	-0.00488	0	%100
6	SF2-TH	X	-0.02	-0.02	0	%100
7	GSIP-1A	X	-0.02	-0.02	0	%100
8	GSIP-1B	X	-0.00526	-0.00526	0	%100
9	GSIP-2A	X	-0.00599	-0.00599	0	%100
10	GSIP-2B	X	-0.02	-0.02	0	%100
11	GSIP-3A	X	-0.02	-0.02	0	%100
12	GSIP-3B	X	-0.02	-0.02	0	%100
13	GSI-1A	X	-0.03	-0.03	0	%100
14	GSI-1B	X	-0.03	-0.03	0	%100
15	GSI-2A	X	-0.02	-0.02	0	%100
16	GSI-2B	X	-0.02	-0.02	0	%100
17	GSI-3A	X	-0.00701	-0.00701	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
18	GS1-3B	X	-0.00701	-0.00701	0	%100
19	MP-1	X	-0.002	-0.002	0	%100
20	MP-2	X	-0.001	-0.001	0	%100
21	MP-2B	X	-0.001	-0.001	0	%100
22	MP-3	X	-0.002	-0.002	0	%100
23	MP-4	X	-0.002	-0.002	0	%100
24	MP-5	X	-0.001	-0.001	0	%100
25	MP-5B	X	-0.001	-0.001	0	%100
26	MP-6	X	-0.002	-0.002	0	%100
27	MP-7	X	-0.002	-0.002	0	%100
28	MP-8	X	-0.001	-0.001	0	%100
29	MP-8B	X	-0.001	-0.001	0	%100
30	MP-9	X	-0.002	-0.002	0	%100
31	MP-RRH1	X	-0.001	-0.001	0	%100
32	MP-RRH2	X	-0.001	-0.001	0	%100
33	SA-1	X	-0.000814	-0.000814	0	%100
34	SA-2	X	-0.002	-0.002	0	%100
35	SA-3	X	-0.003	-0.003	0	%100
36	M26	X	-0.000625	-0.000625	0	%100
37	M27	X	-0.000625	-0.000625	0	%100
38	M30	X	-0.000625	-0.000625	0	%100
39	M31	X	-0.000625	-0.000625	0	%100
40	M38	X	-0.00023	-0.00023	0	%100
41	M39	X	-0.00023	-0.00023	0	%100
42	M42	X	-0.00023	-0.00023	0	%100
43	M43	X	-0.00023	-0.00023	0	%100
44	M50	X	-0.000859	-0.000859	0	%100
45	M51	X	-0.000859	-0.000859	0	%100
46	M54	X	-0.000859	-0.000859	0	%100
47	M55	X	-0.000859	-0.000859	0	%100
48	M28	X	-0.002	-0.002	0	%100
49	M29	X	-0.002	-0.002	0	%100
50	M32	X	-0.002	-0.002	0	%100
51	M33	X	-0.002	-0.002	0	%100
52	M40	X	-0.002	-0.002	0	%100
53	M41	X	-0.002	-0.002	0	%100
54	M44	X	-0.002	-0.002	0	%100
55	M45	X	-0.002	-0.002	0	%100
56	M52	X	-0.000604	-0.000604	0	%100
57	M53	X	-0.000604	-0.000604	0	%100
58	M56	X	-0.000604	-0.000604	0	%100
59	M57	X	-0.000604	-0.000604	0	%100
60	FF-HRK	X	-0.001	-0.001	0	%100
61	SF2-HRK	X	-0.000454	-0.000454	0	%100
62	SF1-HRK	X	-0.002	-0.002	0	%100
63	SRC-1	X	-0.002	-0.002	0	%100
64	SRC-2	X	-0.000562	-0.000562	0	%100
65	SRC-3	X	-0.002	-0.002	0	%100
66	BR-1	X	-0.001	-0.001	0	%100
67	BR-2	X	-0.000331	-0.000331	0	%100
68	BR-3	X	-0.001	-0.001	0	%100
69	CP-1	Z	-0.004	-0.004	0	%100
70	CP-2	Z	-0.002	-0.002	0	%100
71	CP-3	Z	-0.000977	-0.000977	0	%100
72	FF-TH	Z	-0.001	-0.001	0	%100
73	SF1-TH	Z	-0.0006	-0.0006	0	%100
74	SF2-TH	Z	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
75	GSIP-1A	Z	-0.001	-0.001	0	%100
76	GSIP-1B	Z	-0.000584	-0.000584	0	%100
77	GSIP-2A	Z	-0.000677	-0.000677	0	%100
78	GSIP-2B	Z	-0.002	-0.002	0	%100
79	GSIP-3A	Z	-0.002	-0.002	0	%100
80	GSIP-3B	Z	-0.001	-0.001	0	%100
81	GSI-1A	Z	-0.003	-0.003	0	%100
82	GSI-1B	Z	-0.003	-0.003	0	%100
83	GSI-2A	Z	-0.002	-0.002	0	%100
84	GSI-2B	Z	-0.002	-0.002	0	%100
85	GSI-3A	Z	-0.00075	-0.00075	0	%100
86	GSI-3B	Z	-0.00075	-0.00075	0	%100
87	MP-1	Z	-0.002	-0.002	0	%100
88	MP-2	Z	-0.002	-0.002	0	%100
89	MP-2B	Z	-0.001	-0.001	0	%100
90	MP-3	Z	-0.002	-0.002	0	%100
91	MP-4	Z	-0.002	-0.002	0	%100
92	MP-5	Z	-0.002	-0.002	0	%100
93	MP-5B	Z	-0.001	-0.001	0	%100
94	MP-6	Z	-0.002	-0.002	0	%100
95	MP-7	Z	-0.002	-0.002	0	%100
96	MP-8	Z	-0.002	-0.002	0	%100
97	MP-8B	Z	-0.001	-0.001	0	%100
98	MP-9	Z	-0.002	-0.002	0	%100
99	MP-RRH1	Z	-0.001	-0.001	0	%100
100	MP-RRH2	Z	-0.001	-0.001	0	%100
101	SA-1	Z	-0.000736	-0.000736	0	%100
102	SA-2	Z	-0.002	-0.002	0	%100
103	SA-3	Z	-0.003	-0.003	0	%100
104	M26	Z	-0.000635	-0.000635	0	%100
105	M27	Z	-0.000635	-0.000635	0	%100
106	M30	Z	-0.000635	-0.000635	0	%100
107	M31	Z	-0.000635	-0.000635	0	%100
108	M38	Z	-0.000229	-0.000229	0	%100
109	M39	Z	-0.000229	-0.000229	0	%100
110	M42	Z	-0.000229	-0.000229	0	%100
111	M43	Z	-0.000229	-0.000229	0	%100
112	M50	Z	-0.000854	-0.000854	0	%100
113	M51	Z	-0.000854	-0.000854	0	%100
114	M54	Z	-0.000854	-0.000854	0	%100
115	M55	Z	-0.000854	-0.000854	0	%100
116	M28	Z	-0.001	-0.001	0	%100
117	M29	Z	-0.001	-0.001	0	%100
118	M32	Z	-0.001	-0.001	0	%100
119	M33	Z	-0.001	-0.001	0	%100
120	M40	Z	-0.002	-0.002	0	%100
121	M41	Z	-0.002	-0.002	0	%100
122	M44	Z	-0.002	-0.002	0	%100
123	M45	Z	-0.002	-0.002	0	%100
124	M52	Z	-0.000604	-0.000604	0	%100
125	M53	Z	-0.000604	-0.000604	0	%100
126	M56	Z	-0.000604	-0.000604	0	%100
127	M57	Z	-0.000604	-0.000604	0	%100
128	FF-HRK	Z	-0.001	-0.001	0	%100
129	SF2-HRK	Z	-0.000535	-0.000535	0	%100
130	SF1-HRK	Z	-0.002	-0.002	0	%100
131	SRC-1	Z	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
132	SRC-2	Z	-0.00578	-0.00578	0	%100
133	SRC-3	Z	-0.001	-0.001	0	%100
134	BR-1	Z	-0.001	-0.001	0	%100
135	BR-2	Z	-0.000376	-0.000376	0	%100
136	BR-3	Z	-0.000964	-0.000964	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
1	CP-1	X	-0.003	-0.003	0	%100
2	CP-2	X	-0.001	-0.001	0	%100
3	CP-3	X	-0.001	-0.001	0	%100
4	FF-TH	X	-0.00082	-0.00082	0	%100
5	SF1-TH	X	-0.000667	-0.000667	0	%100
6	SF2-TH	X	-0.001	-0.001	0	%100
7	GSIP-1A	X	-0.000826	-0.000826	0	%100
8	GSIP-1B	X	-0.000719	-0.000719	0	%100
9	GSIP-2A	X	-0.000758	-0.000758	0	%100
10	GSIP-2B	X	-0.001	-0.001	0	%100
11	GSIP-3A	X	-0.001	-0.001	0	%100
12	GSIP-3B	X	-0.000826	-0.000826	0	%100
13	GSI-1A	X	-0.002	-0.002	0	%100
14	GSI-1B	X	-0.002	-0.002	0	%100
15	GSI-2A	X	-0.001	-0.001	0	%100
16	GSI-2B	X	-0.001	-0.001	0	%100
17	GSI-3A	X	-0.000957	-0.000957	0	%100
18	GSI-3B	X	-0.000957	-0.000957	0	%100
19	MP-1	X	-0.001	-0.001	0	%100
20	MP-2	X	-0.001	-0.001	0	%100
21	MP-2B	X	-0.000859	-0.000859	0	%100
22	MP-3	X	-0.001	-0.001	0	%100
23	MP-4	X	-0.001	-0.001	0	%100
24	MP-5	X	-0.001	-0.001	0	%100
25	MP-5B	X	-0.000859	-0.000859	0	%100
26	MP-6	X	-0.001	-0.001	0	%100
27	MP-7	X	-0.001	-0.001	0	%100
28	MP-8	X	-0.001	-0.001	0	%100
29	MP-8B	X	-0.000859	-0.000859	0	%100
30	MP-9	X	-0.001	-0.001	0	%100
31	MP-RRH1	X	-0.000859	-0.000859	0	%100
32	MP-RRH2	X	-0.000859	-0.000859	0	%100
33	SA-1	X	0	0	0	%100
34	SA-2	X	-0.002	-0.002	0	%100
35	SA-3	X	-0.002	-0.002	0	%100
36	M26	X	-0.000541	-0.000541	0	%100
37	M27	X	-0.000541	-0.000541	0	%100
38	M30	X	-0.000541	-0.000541	0	%100
39	M31	X	-0.000541	-0.000541	0	%100
40	M38	X	0	0	0	%100
41	M39	X	0	0	0	%100
42	M42	X	0	0	0	%100
43	M43	X	0	0	0	%100
44	M50	X	-0.000545	-0.000545	0	%100
45	M51	X	-0.000545	-0.000545	0	%100
46	M54	X	-0.000545	-0.000545	0	%100
47	M55	X	-0.000545	-0.000545	0	%100
48	M28	X	-0.000826	-0.000826	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
49	M29	X	-0.000826	-0.000826	0	%100
50	M32	X	-0.000826	-0.000826	0	%100
51	M33	X	-0.000826	-0.000826	0	%100
52	M40	X	-0.002	-0.002	0	%100
53	M41	X	-0.002	-0.002	0	%100
54	M44	X	-0.002	-0.002	0	%100
55	M45	X	-0.002	-0.002	0	%100
56	M52	X	-0.000826	-0.000826	0	%100
57	M53	X	-0.000826	-0.000826	0	%100
58	M56	X	-0.000826	-0.000826	0	%100
59	M57	X	-0.000826	-0.000826	0	%100
60	FF-HRK	X	-0.000731	-0.000731	0	%100
61	SF2-HRK	X	-0.00062	-0.00062	0	%100
62	SF1-HRK	X	-0.001	-0.001	0	%100
63	SRC-1	X	-0.002	-0.002	0	%100
64	SRC-2	X	-0.000768	-0.000768	0	%100
65	SRC-3	X	-0.000802	-0.000802	0	%100
66	BR-1	X	-0.000904	-0.000904	0	%100
67	BR-2	X	-0.000452	-0.000452	0	%100
68	BR-3	X	-0.000535	-0.000535	0	%100
69	CP-1	Z	-0.005	-0.005	0	%100
70	CP-2	Z	-0.002	-0.002	0	%100
71	CP-3	Z	-0.002	-0.002	0	%100
72	FF-TH	Z	-0.001	-0.001	0	%100
73	SF1-TH	Z	-0.001	-0.001	0	%100
74	SF2-TH	Z	-0.003	-0.003	0	%100
75	GSIP-1A	Z	-0.001	-0.001	0	%100
76	GSIP-1B	Z	-0.001	-0.001	0	%100
77	GSIP-2A	Z	-0.001	-0.001	0	%100
78	GSIP-2B	Z	-0.003	-0.003	0	%100
79	GSIP-3A	Z	-0.003	-0.003	0	%100
80	GSIP-3B	Z	-0.001	-0.001	0	%100
81	GSI-1A	Z	-0.004	-0.004	0	%100
82	GSI-1B	Z	-0.004	-0.004	0	%100
83	GSI-2A	Z	-0.002	-0.002	0	%100
84	GSI-2B	Z	-0.002	-0.002	0	%100
85	GSI-3A	Z	-0.002	-0.002	0	%100
86	GSI-3B	Z	-0.002	-0.002	0	%100
87	MP-1	Z	-0.002	-0.002	0	%100
88	MP-2	Z	-0.002	-0.002	0	%100
89	MP-2B	Z	-0.002	-0.002	0	%100
90	MP-3	Z	-0.002	-0.002	0	%100
91	MP-4	Z	-0.002	-0.002	0	%100
92	MP-5	Z	-0.002	-0.002	0	%100
93	MP-5B	Z	-0.002	-0.002	0	%100
94	MP-6	Z	-0.002	-0.002	0	%100
95	MP-7	Z	-0.002	-0.002	0	%100
96	MP-8	Z	-0.002	-0.002	0	%100
97	MP-8B	Z	-0.002	-0.002	0	%100
98	MP-9	Z	-0.002	-0.002	0	%100
99	MP-RRH1	Z	-0.002	-0.002	0	%100
100	MP-RRH2	Z	-0.002	-0.002	0	%100
101	SA-1	Z	0	0	0	%100
102	SA-2	Z	-0.003	-0.003	0	%100
103	SA-3	Z	-0.003	-0.003	0	%100
104	M26	Z	-0.000952	-0.000952	0	%100
105	M27	Z	-0.000952	-0.000952	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
106	M30	Z	-0.00952	-0.00952	0	%100
107	M31	Z	-0.00952	-0.00952	0	%100
108	M38	Z	0	0	0	%100
109	M39	Z	0	0	0	%100
110	M42	Z	0	0	0	%100
111	M43	Z	0	0	0	%100
112	M50	Z	-0.00938	-0.00938	0	%100
113	M51	Z	-0.00938	-0.00938	0	%100
114	M54	Z	-0.00938	-0.00938	0	%100
115	M55	Z	-0.00938	-0.00938	0	%100
116	M28	Z	-0.001	-0.001	0	%100
117	M29	Z	-0.001	-0.001	0	%100
118	M32	Z	-0.001	-0.001	0	%100
119	M33	Z	-0.001	-0.001	0	%100
120	M40	Z	-0.003	-0.003	0	%100
121	M41	Z	-0.003	-0.003	0	%100
122	M44	Z	-0.003	-0.003	0	%100
123	M45	Z	-0.003	-0.003	0	%100
124	M52	Z	-0.001	-0.001	0	%100
125	M53	Z	-0.001	-0.001	0	%100
126	M56	Z	-0.001	-0.001	0	%100
127	M57	Z	-0.001	-0.001	0	%100
128	FF-HRK	Z	-0.001	-0.001	0	%100
129	SF2-HRK	Z	-0.001	-0.001	0	%100
130	SF1-HRK	Z	-0.003	-0.003	0	%100
131	SRC-1	Z	-0.003	-0.003	0	%100
132	SRC-2	Z	-0.001	-0.001	0	%100
133	SRC-3	Z	-0.001	-0.001	0	%100
134	BR-1	Z	-0.002	-0.002	0	%100
135	BR-2	Z	-0.00889	-0.00889	0	%100
136	BR-3	Z	-0.00834	-0.00834	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
1	CP-1	Z	-0.005	-0.005	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	-0.005	-0.005	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	-0.003	-0.003	0	%100
6	SF2-TH	Z	-0.003	-0.003	0	%100
7	GSIP-1A	Z	0	0	0	%100
8	GSIP-1B	Z	-0.003	-0.003	0	%100
9	GSIP-2A	Z	-0.003	-0.003	0	%100
10	GSIP-2B	Z	-0.003	-0.003	0	%100
11	GSIP-3A	Z	-0.003	-0.003	0	%100
12	GSIP-3B	Z	0	0	0	%100
13	GSI-1A	Z	-0.004	-0.004	0	%100
14	GSI-1B	Z	-0.004	-0.004	0	%100
15	GSI-2A	Z	0	0	0	%100
16	GSI-2B	Z	0	0	0	%100
17	GSI-3A	Z	-0.004	-0.004	0	%100
18	GSI-3B	Z	-0.004	-0.004	0	%100
19	MP-1	Z	-0.002	-0.002	0	%100
20	MP-2	Z	-0.002	-0.002	0	%100
21	MP-2B	Z	-0.002	-0.002	0	%100
22	MP-3	Z	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
23	MP-4	Z	-0.002	-0.002	0	%100
24	MP-5	Z	-0.002	-0.002	0	%100
25	MP-5B	Z	-0.002	-0.002	0	%100
26	MP-6	Z	-0.002	-0.002	0	%100
27	MP-7	Z	-0.002	-0.002	0	%100
28	MP-8	Z	-0.002	-0.002	0	%100
29	MP-8B	Z	-0.002	-0.002	0	%100
30	MP-9	Z	-0.002	-0.002	0	%100
31	MP-RRH1	Z	-0.002	-0.002	0	%100
32	MP-RRH2	Z	-0.002	-0.002	0	%100
33	SA-1	Z	-0.002	-0.002	0	%100
34	SA-2	Z	-0.005	-0.005	0	%100
35	SA-3	Z	-0.002	-0.002	0	%100
36	M26	Z	-0.001	-0.001	0	%100
37	M27	Z	-0.001	-0.001	0	%100
38	M30	Z	-0.001	-0.001	0	%100
39	M31	Z	-0.001	-0.001	0	%100
40	M38	Z	-0.000625	-0.000625	0	%100
41	M39	Z	-0.000625	-0.000625	0	%100
42	M42	Z	-0.000625	-0.000625	0	%100
43	M43	Z	-0.000625	-0.000625	0	%100
44	M50	Z	-0.000625	-0.000625	0	%100
45	M51	Z	-0.000625	-0.000625	0	%100
46	M54	Z	-0.000625	-0.000625	0	%100
47	M55	Z	-0.000625	-0.000625	0	%100
48	M28	Z	0	0	0	%100
49	M29	Z	0	0	0	%100
50	M32	Z	0	0	0	%100
51	M33	Z	0	0	0	%100
52	M40	Z	-0.003	-0.003	0	%100
53	M41	Z	-0.003	-0.003	0	%100
54	M44	Z	-0.003	-0.003	0	%100
55	M45	Z	-0.003	-0.003	0	%100
56	M52	Z	-0.003	-0.003	0	%100
57	M53	Z	-0.003	-0.003	0	%100
58	M56	Z	-0.003	-0.003	0	%100
59	M57	Z	-0.003	-0.003	0	%100
60	FF-HRK	Z	0	0	0	%100
61	SF2-HRK	Z	-0.003	-0.003	0	%100
62	SF1-HRK	Z	-0.003	-0.003	0	%100
63	SRC-1	Z	-0.003	-0.003	0	%100
64	SRC-2	Z	-0.003	-0.003	0	%100
65	SRC-3	Z	0	0	0	%100
66	BR-1	Z	-0.002	-0.002	0	%100
67	BR-2	Z	-0.002	-0.002	0	%100
68	BR-3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
1	CP-1	X	.001	.001	0	%100
2	CP-2	X	.001	.001	0	%100
3	CP-3	X	.003	.003	0	%100
4	FF-TH	X	.00082	.00082	0	%100
5	SF1-TH	X	.001	.001	0	%100
6	SF2-TH	X	.000667	.000667	0	%100
7	GSIP-1A	X	.000826	.000826	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
8	GSIP-1B	X	.001	.001	0	%100
9	GSIP-2A	X	.001	.001	0	%100
10	GSIP-2B	X	.000758	.000758	0	%100
11	GSIP-3A	X	.000719	.000719	0	%100
12	GSIP-3B	X	.000826	.000826	0	%100
13	GSI-1A	X	.000957	.000957	0	%100
14	GSI-1B	X	.000957	.000957	0	%100
15	GSI-2A	X	.001	.001	0	%100
16	GSI-2B	X	.001	.001	0	%100
17	GSI-3A	X	.002	.002	0	%100
18	GSI-3B	X	.002	.002	0	%100
19	MP-1	X	.001	.001	0	%100
20	MP-2	X	.001	.001	0	%100
21	MP-2B	X	.000859	.000859	0	%100
22	MP-3	X	.001	.001	0	%100
23	MP-4	X	.001	.001	0	%100
24	MP-5	X	.001	.001	0	%100
25	MP-5B	X	.000859	.000859	0	%100
26	MP-6	X	.001	.001	0	%100
27	MP-7	X	.001	.001	0	%100
28	MP-8	X	.001	.001	0	%100
29	MP-8B	X	.000859	.000859	0	%100
30	MP-9	X	.001	.001	0	%100
31	MP-RRH1	X	.000859	.000859	0	%100
32	MP-RRH2	X	.000859	.000859	0	%100
33	SA-1	X	.002	.002	0	%100
34	SA-2	X	.002	.002	0	%100
35	SA-3	X	0	0	0	%100
36	M26	X	.000541	.000541	0	%100
37	M27	X	.000541	.000541	0	%100
38	M30	X	.000541	.000541	0	%100
39	M31	X	.000541	.000541	0	%100
40	M38	X	.000545	.000545	0	%100
41	M39	X	.000545	.000545	0	%100
42	M42	X	.000545	.000545	0	%100
43	M43	X	.000545	.000545	0	%100
44	M50	X	0	0	0	%100
45	M51	X	0	0	0	%100
46	M54	X	0	0	0	%100
47	M55	X	0	0	0	%100
48	M28	X	.000826	.000826	0	%100
49	M29	X	.000826	.000826	0	%100
50	M32	X	.000826	.000826	0	%100
51	M33	X	.000826	.000826	0	%100
52	M40	X	.000826	.000826	0	%100
53	M41	X	.000826	.000826	0	%100
54	M44	X	.000826	.000826	0	%100
55	M45	X	.000826	.000826	0	%100
56	M52	X	.002	.002	0	%100
57	M53	X	.002	.002	0	%100
58	M56	X	.002	.002	0	%100
59	M57	X	.002	.002	0	%100
60	FF-HRK	X	.000731	.000731	0	%100
61	SF2-HRK	X	.001	.001	0	%100
62	SF1-HRK	X	.00062	.00062	0	%100
63	SRC-1	X	.000768	.000768	0	%100
64	SRC-2	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
65	SRC-3	X	.000802	.000802	0	%100
66	BR-1	X	.000452	.000452	0	%100
67	BR-2	X	.000904	.000904	0	%100
68	BR-3	X	.000535	.000535	0	%100
69	CP-1	Z	-.002	-.002	0	%100
70	CP-2	Z	-.002	-.002	0	%100
71	CP-3	Z	-.005	-.005	0	%100
72	FF-TH	Z	-.001	-.001	0	%100
73	SF1-TH	Z	-.003	-.003	0	%100
74	SF2-TH	Z	-.001	-.001	0	%100
75	GSIP-1A	Z	-.001	-.001	0	%100
76	GSIP-1B	Z	-.003	-.003	0	%100
77	GSIP-2A	Z	-.003	-.003	0	%100
78	GSIP-2B	Z	-.001	-.001	0	%100
79	GSIP-3A	Z	-.001	-.001	0	%100
80	GSIP-3B	Z	-.001	-.001	0	%100
81	GSI-1A	Z	-.002	-.002	0	%100
82	GSI-1B	Z	-.002	-.002	0	%100
83	GSI-2A	Z	-.002	-.002	0	%100
84	GSI-2B	Z	-.002	-.002	0	%100
85	GSI-3A	Z	-.004	-.004	0	%100
86	GSI-3B	Z	-.004	-.004	0	%100
87	MP-1	Z	-.002	-.002	0	%100
88	MP-2	Z	-.002	-.002	0	%100
89	MP-2B	Z	-.002	-.002	0	%100
90	MP-3	Z	-.002	-.002	0	%100
91	MP-4	Z	-.002	-.002	0	%100
92	MP-5	Z	-.002	-.002	0	%100
93	MP-5B	Z	-.002	-.002	0	%100
94	MP-6	Z	-.002	-.002	0	%100
95	MP-7	Z	-.002	-.002	0	%100
96	MP-8	Z	-.002	-.002	0	%100
97	MP-8B	Z	-.002	-.002	0	%100
98	MP-9	Z	-.002	-.002	0	%100
99	MP-RRH1	Z	-.002	-.002	0	%100
100	MP-RRH2	Z	-.002	-.002	0	%100
101	SA-1	Z	-.003	-.003	0	%100
102	SA-2	Z	-.003	-.003	0	%100
103	SA-3	Z	0	0	0	%100
104	M26	Z	-.000952	-.000952	0	%100
105	M27	Z	-.000952	-.000952	0	%100
106	M30	Z	-.000952	-.000952	0	%100
107	M31	Z	-.000952	-.000952	0	%100
108	M38	Z	-.000938	-.000938	0	%100
109	M39	Z	-.000938	-.000938	0	%100
110	M42	Z	-.000938	-.000938	0	%100
111	M43	Z	-.000938	-.000938	0	%100
112	M50	Z	0	0	0	%100
113	M51	Z	0	0	0	%100
114	M54	Z	0	0	0	%100
115	M55	Z	0	0	0	%100
116	M28	Z	-.001	-.001	0	%100
117	M29	Z	-.001	-.001	0	%100
118	M32	Z	-.001	-.001	0	%100
119	M33	Z	-.001	-.001	0	%100
120	M40	Z	-.001	-.001	0	%100
121	M41	Z	-.001	-.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
122	M44	Z	-0.01	-0.01	0	%100
123	M45	Z	-0.01	-0.01	0	%100
124	M52	Z	-0.003	-0.003	0	%100
125	M53	Z	-0.003	-0.003	0	%100
126	M56	Z	-0.003	-0.003	0	%100
127	M57	Z	-0.003	-0.003	0	%100
128	FF-HRK	Z	-0.001	-0.001	0	%100
129	SF2-HRK	Z	-0.003	-0.003	0	%100
130	SF1-HRK	Z	-0.001	-0.001	0	%100
131	SRC-1	Z	-0.001	-0.001	0	%100
132	SRC-2	Z	-0.003	-0.003	0	%100
133	SRC-3	Z	-0.001	-0.001	0	%100
134	BR-1	Z	-0.000889	-0.000889	0	%100
135	BR-2	Z	-0.002	-0.002	0	%100
136	BR-3	Z	-0.000834	-0.000834	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	X	.000977	.000977	0	%100
2	CP-2	X	.003	.003	0	%100
3	CP-3	X	.004	.004	0	%100
4	FF-TH	X	.002	.002	0	%100
5	SF1-TH	X	.002	.002	0	%100
6	SF2-TH	X	.000488	.000488	0	%100
7	GSI-1A	X	.002	.002	0	%100
8	GSI-1B	X	.002	.002	0	%100
9	GSI-2A	X	.002	.002	0	%100
10	GSI-2B	X	.000599	.000599	0	%100
11	GSI-3A	X	.000526	.000526	0	%100
12	GSI-3B	X	.002	.002	0	%100
13	GSI-1A	X	.000701	.000701	0	%100
14	GSI-1B	X	.000701	.000701	0	%100
15	GSI-2A	X	.002	.002	0	%100
16	GSI-2B	X	.002	.002	0	%100
17	GSI-3A	X	.003	.003	0	%100
18	GSI-3B	X	.003	.003	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.001	.001	0	%100
21	MP-2B	X	.001	.001	0	%100
22	MP-3	X	.002	.002	0	%100
23	MP-4	X	.002	.002	0	%100
24	MP-5	X	.001	.001	0	%100
25	MP-5B	X	.001	.001	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-7	X	.002	.002	0	%100
28	MP-8	X	.001	.001	0	%100
29	MP-8B	X	.001	.001	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-RRH1	X	.001	.001	0	%100
32	MP-RRH2	X	.001	.001	0	%100
33	SA-1	X	.003	.003	0	%100
34	SA-2	X	.002	.002	0	%100
35	SA-3	X	.000814	.000814	0	%100
36	M26	X	.000625	.000625	0	%100
37	M27	X	.000625	.000625	0	%100
38	M30	X	.000625	.000625	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.kst]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
39	M31	X	.000625	.000625	0	%100
40	M38	X	.000859	.000859	0	%100
41	M39	X	.000859	.000859	0	%100
42	M42	X	.000859	.000859	0	%100
43	M43	X	.000859	.000859	0	%100
44	M50	X	.00023	.00023	0	%100
45	M51	X	.00023	.00023	0	%100
46	M54	X	.00023	.00023	0	%100
47	M55	X	.00023	.00023	0	%100
48	M28	X	.002	.002	0	%100
49	M29	X	.002	.002	0	%100
50	M32	X	.002	.002	0	%100
51	M33	X	.002	.002	0	%100
52	M40	X	.000604	.000604	0	%100
53	M41	X	.000604	.000604	0	%100
54	M44	X	.000604	.000604	0	%100
55	M45	X	.000604	.000604	0	%100
56	M52	X	.002	.002	0	%100
57	M53	X	.002	.002	0	%100
58	M56	X	.002	.002	0	%100
59	M57	X	.002	.002	0	%100
60	FF-HRK	X	.001	.001	0	%100
61	SF2-HRK	X	.002	.002	0	%100
62	SF1-HRK	X	.000454	.000454	0	%100
63	SRC-1	X	.000562	.000562	0	%100
64	SRC-2	X	.002	.002	0	%100
65	SRC-3	X	.002	.002	0	%100
66	BR-1	X	.000331	.000331	0	%100
67	BR-2	X	.001	.001	0	%100
68	BR-3	X	.001	.001	0	%100
69	CP-1	Z	-.000977	-.000977	0	%100
70	CP-2	Z	-.002	-.002	0	%100
71	CP-3	Z	-.004	-.004	0	%100
72	FF-TH	Z	-.001	-.001	0	%100
73	SF1-TH	Z	-.002	-.002	0	%100
74	SF2-TH	Z	-.0006	-.0006	0	%100
75	GSI-1A	Z	-.001	-.001	0	%100
76	GSI-1B	Z	-.002	-.002	0	%100
77	GSI-2A	Z	-.002	-.002	0	%100
78	GSI-2B	Z	-.000677	-.000677	0	%100
79	GSI-3A	Z	-.000584	-.000584	0	%100
80	GSI-3B	Z	-.001	-.001	0	%100
81	GSI-1A	Z	-.00075	-.00075	0	%100
82	GSI-1B	Z	-.00075	-.00075	0	%100
83	GSI-2A	Z	-.002	-.002	0	%100
84	GSI-2B	Z	-.002	-.002	0	%100
85	GSI-3A	Z	-.003	-.003	0	%100
86	GSI-3B	Z	-.003	-.003	0	%100
87	MP-1	Z	-.002	-.002	0	%100
88	MP-2	Z	-.002	-.002	0	%100
89	MP-2B	Z	-.001	-.001	0	%100
90	MP-3	Z	-.002	-.002	0	%100
91	MP-4	Z	-.002	-.002	0	%100
92	MP-5	Z	-.002	-.002	0	%100
93	MP-5B	Z	-.001	-.001	0	%100
94	MP-6	Z	-.002	-.002	0	%100
95	MP-7	Z	-.002	-.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
96	MP-8	Z	-0.02	-0.02	0	%100
97	MP-8B	Z	-0.01	-0.01	0	%100
98	MP-9	Z	-0.02	-0.02	0	%100
99	MP-RRH1	Z	-0.01	-0.01	0	%100
100	MP-RRH2	Z	-0.01	-0.01	0	%100
101	SA-1	Z	-0.03	-0.03	0	%100
102	SA-2	Z	-0.02	-0.02	0	%100
103	SA-3	Z	-0.00736	-0.00736	0	%100
104	M26	Z	-0.00635	-0.00635	0	%100
105	M27	Z	-0.00635	-0.00635	0	%100
106	M30	Z	-0.00635	-0.00635	0	%100
107	M31	Z	-0.00635	-0.00635	0	%100
108	M38	Z	-0.00854	-0.00854	0	%100
109	M39	Z	-0.00854	-0.00854	0	%100
110	M42	Z	-0.00854	-0.00854	0	%100
111	M43	Z	-0.00854	-0.00854	0	%100
112	M50	Z	-0.00229	-0.00229	0	%100
113	M51	Z	-0.00229	-0.00229	0	%100
114	M54	Z	-0.00229	-0.00229	0	%100
115	M55	Z	-0.00229	-0.00229	0	%100
116	M28	Z	-0.01	-0.01	0	%100
117	M29	Z	-0.01	-0.01	0	%100
118	M32	Z	-0.01	-0.01	0	%100
119	M33	Z	-0.01	-0.01	0	%100
120	M40	Z	-0.00604	-0.00604	0	%100
121	M41	Z	-0.00604	-0.00604	0	%100
122	M44	Z	-0.00604	-0.00604	0	%100
123	M45	Z	-0.00604	-0.00604	0	%100
124	M52	Z	-0.02	-0.02	0	%100
125	M53	Z	-0.02	-0.02	0	%100
126	M56	Z	-0.02	-0.02	0	%100
127	M57	Z	-0.02	-0.02	0	%100
128	FF-HRK	Z	-0.01	-0.01	0	%100
129	SF2-HRK	Z	-0.02	-0.02	0	%100
130	SF1-HRK	Z	-0.00535	-0.00535	0	%100
131	SRC-1	Z	-0.00578	-0.00578	0	%100
132	SRC-2	Z	-0.02	-0.02	0	%100
133	SRC-3	Z	-0.01	-0.01	0	%100
134	BR-1	Z	-0.00376	-0.00376	0	%100
135	BR-2	Z	-0.01	-0.01	0	%100
136	BR-3	Z	-0.00964	-0.00964	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
1	CP-1	X	0	0	0	%100
2	CP-2	X	.004	.004	0	%100
3	CP-3	X	.004	.004	0	%100
4	FF-TH	X	.002	.002	0	%100
5	SF1-TH	X	.002	.002	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1A	X	.002	.002	0	%100
8	GSIP-1B	X	.002	.002	0	%100
9	GSIP-2A	X	.002	.002	0	%100
10	GSIP-2B	X	.000104	.000104	0	%100
11	GSIP-3A	X	0	0	0	%100
12	GSIP-3B	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
13	GS1-1A	X	0	0	0	%100
14	GS1-1B	X	0	0	0	%100
15	GS1-2A	X	.003	.003	0	%100
16	GS1-2B	X	.003	.003	0	%100
17	GS1-3A	X	.003	.003	0	%100
18	GS1-3B	X	.003	.003	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.002	.002	0	%100
21	MP-2B	X	.001	.001	0	%100
22	MP-3	X	.002	.002	0	%100
23	MP-4	X	.002	.002	0	%100
24	MP-5	X	.002	.002	0	%100
25	MP-5B	X	.001	.001	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-7	X	.002	.002	0	%100
28	MP-8	X	.002	.002	0	%100
29	MP-8B	X	.001	.001	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-RRH1	X	.001	.001	0	%100
32	MP-RRH2	X	.001	.001	0	%100
33	SA-1	X	.004	.004	0	%100
34	SA-2	X	.002	.002	0	%100
35	SA-3	X	.002	.002	0	%100
36	M26	X	.000541	.000541	0	%100
37	M27	X	.000541	.000541	0	%100
38	M30	X	.000541	.000541	0	%100
39	M31	X	.000541	.000541	0	%100
40	M38	X	.001	.001	0	%100
41	M39	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100
44	M50	X	.000545	.000545	0	%100
45	M51	X	.000545	.000545	0	%100
46	M54	X	.000545	.000545	0	%100
47	M55	X	.000545	.000545	0	%100
48	M28	X	.002	.002	0	%100
49	M29	X	.002	.002	0	%100
50	M32	X	.002	.002	0	%100
51	M33	X	.002	.002	0	%100
52	M40	X	0	0	0	%100
53	M41	X	0	0	0	%100
54	M44	X	0	0	0	%100
55	M45	X	0	0	0	%100
56	M52	X	.002	.002	0	%100
57	M53	X	.002	.002	0	%100
58	M56	X	.002	.002	0	%100
59	M57	X	.002	.002	0	%100
60	FF-HRK	X	.002	.002	0	%100
61	SF2-HRK	X	.002	.002	0	%100
62	SF1-HRK	X	0	0	0	%100
63	SRC-1	X	0	0	0	%100
64	SRC-2	X	.002	.002	0	%100
65	SRC-3	X	.002	.002	0	%100
66	BR-1	X	0	0	0	%100
67	BR-2	X	.001	.001	0	%100
68	BR-3	X	.002	.002	0	%100
69	CP-1	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
70	CP-2	Z	-0.02	-0.02	0	%100
71	CP-3	Z	-0.02	-0.02	0	%100
72	FF-TH	Z	-0.01	-0.01	0	%100
73	SF1-TH	Z	-0.01	-0.01	0	%100
74	SF2-TH	Z	0	0	0	%100
75	GSIP-1A	Z	-0.01	-0.01	0	%100
76	GSIP-1B	Z	-0.01	-0.01	0	%100
77	GSIP-2A	Z	-0.01	-0.01	0	%100
78	GSIP-2B	Z	-6.8e-5	-6.8e-5	0	%100
79	GSIP-3A	Z	0	0	0	%100
80	GSIP-3B	Z	-0.01	-0.01	0	%100
81	GSI-1A	Z	0	0	0	%100
82	GSI-1B	Z	0	0	0	%100
83	GSI-2A	Z	-0.02	-0.02	0	%100
84	GSI-2B	Z	-0.02	-0.02	0	%100
85	GSI-3A	Z	-0.02	-0.02	0	%100
86	GSI-3B	Z	-0.02	-0.02	0	%100
87	MP-1	Z	-0.01	-0.01	0	%100
88	MP-2	Z	-0.01	-0.01	0	%100
89	MP-2B	Z	-0.00955	-0.00955	0	%100
90	MP-3	Z	-0.01	-0.01	0	%100
91	MP-4	Z	-0.01	-0.01	0	%100
92	MP-5	Z	-0.01	-0.01	0	%100
93	MP-5B	Z	-0.00955	-0.00955	0	%100
94	MP-6	Z	-0.01	-0.01	0	%100
95	MP-7	Z	-0.01	-0.01	0	%100
96	MP-8	Z	-0.01	-0.01	0	%100
97	MP-8B	Z	-0.00955	-0.00955	0	%100
98	MP-9	Z	-0.01	-0.01	0	%100
99	MP-RRH1	Z	-0.00955	-0.00955	0	%100
100	MP-RRH2	Z	-0.00955	-0.00955	0	%100
101	SA-1	Z	-0.02	-0.02	0	%100
102	SA-2	Z	-0.01	-0.01	0	%100
103	SA-3	Z	-0.01	-0.01	0	%100
104	M26	Z	-0.00317	-0.00317	0	%100
105	M27	Z	-0.00317	-0.00317	0	%100
106	M30	Z	-0.00317	-0.00317	0	%100
107	M31	Z	-0.00317	-0.00317	0	%100
108	M38	Z	-0.00625	-0.00625	0	%100
109	M39	Z	-0.00625	-0.00625	0	%100
110	M42	Z	-0.00625	-0.00625	0	%100
111	M43	Z	-0.00625	-0.00625	0	%100
112	M50	Z	-0.00313	-0.00313	0	%100
113	M51	Z	-0.00313	-0.00313	0	%100
114	M54	Z	-0.00313	-0.00313	0	%100
115	M55	Z	-0.00313	-0.00313	0	%100
116	M28	Z	-0.01	-0.01	0	%100
117	M29	Z	-0.01	-0.01	0	%100
118	M32	Z	-0.01	-0.01	0	%100
119	M33	Z	-0.01	-0.01	0	%100
120	M40	Z	0	0	0	%100
121	M41	Z	0	0	0	%100
122	M44	Z	0	0	0	%100
123	M45	Z	0	0	0	%100
124	M52	Z	-0.01	-0.01	0	%100
125	M53	Z	-0.01	-0.01	0	%100
126	M56	Z	-0.01	-0.01	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
127	M57	Z	-0.01	-0.01	0	%100
128	FF-HRK	Z	-0.01	-0.01	0	%100
129	SF2-HRK	Z	-0.01	-0.01	0	%100
130	SF1-HRK	Z	0	0	0	%100
131	SRC-1	Z	0	0	0	%100
132	SRC-2	Z	-0.01	-0.01	0	%100
133	SRC-3	Z	-0.01	-0.01	0	%100
134	BR-1	Z	0	0	0	%100
135	BR-2	Z	-0.00889	-0.00889	0	%100
136	BR-3	Z	-0.00834	-0.00834	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	X	.005	.005	0	%100
2	CP-2	X	.005	.005	0	%100
3	CP-3	X	.005	.005	0	%100
4	FF-TH	X	.003	.003	0	%100
5	SF1-TH	X	.003	.003	0	%100
6	SF2-TH	X	.003	.003	0	%100
7	GSIP-1A	X	.003	.003	0	%100
8	GSIP-1B	X	.003	.003	0	%100
9	GSIP-2A	X	.003	.003	0	%100
10	GSIP-2B	X	.003	.003	0	%100
11	GSIP-3A	X	.003	.003	0	%100
12	GSIP-3B	X	.003	.003	0	%100
13	GSI-1A	X	.004	.004	0	%100
14	GSI-1B	X	.004	.004	0	%100
15	GSI-2A	X	.004	.004	0	%100
16	GSI-2B	X	.004	.004	0	%100
17	GSI-3A	X	.004	.004	0	%100
18	GSI-3B	X	.004	.004	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.002	.002	0	%100
21	MP-2B	X	.002	.002	0	%100
22	MP-3	X	.002	.002	0	%100
23	MP-4	X	.002	.002	0	%100
24	MP-5	X	.002	.002	0	%100
25	MP-5B	X	.002	.002	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-7	X	.002	.002	0	%100
28	MP-8	X	.002	.002	0	%100
29	MP-8B	X	.002	.002	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-RRH1	X	.002	.002	0	%100
32	MP-RRH2	X	.002	.002	0	%100
33	SA-1	X	.004	.004	0	%100
34	SA-2	X	.004	.004	0	%100
35	SA-3	X	.004	.004	0	%100
36	M26	X	.001	.001	0	%100
37	M27	X	.001	.001	0	%100
38	M30	X	.001	.001	0	%100
39	M31	X	.001	.001	0	%100
40	M38	X	.001	.001	0	%100
41	M39	X	.001	.001	0	%100
42	M42	X	.001	.001	0	%100
43	M43	X	.001	.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude	Start Location[ft.]	End Location[ft.]	%100
44	M50	X	.001	.001	0	%100
45	M51	X	.001	.001	0	%100
46	M54	X	.001	.001	0	%100
47	M55	X	.001	.001	0	%100
48	M28	X	.003	.003	0	%100
49	M29	X	.003	.003	0	%100
50	M32	X	.003	.003	0	%100
51	M33	X	.003	.003	0	%100
52	M40	X	.003	.003	0	%100
53	M41	X	.003	.003	0	%100
54	M44	X	.003	.003	0	%100
55	M45	X	.003	.003	0	%100
56	M52	X	.003	.003	0	%100
57	M53	X	.003	.003	0	%100
58	M56	X	.003	.003	0	%100
59	M57	X	.003	.003	0	%100
60	FF-HRK	X	.003	.003	0	%100
61	SF2-HRK	X	.002	.002	0	%100
62	SF1-HRK	X	.002	.002	0	%100
63	SRC-1	X	.003	.003	0	%100
64	SRC-2	X	.003	.003	0	%100
65	SRC-3	X	.003	.003	0	%100
66	BR-1	X	.002	.002	0	%100
67	BR-2	X	.002	.002	0	%100
68	BR-3	X	.002	.002	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude	Start Location[ft.]	End Location[ft.]	%100
1	CP-1	X	.004	.004	0	%100
2	CP-2	X	.004	.004	0	%100
3	CP-3	X	0	0	0	%100
4	FF-TH	X	.002	.002	0	%100
5	SF1-TH	X	0	0	0	%100
6	SF2-TH	X	.002	.002	0	%100
7	GSIP-1A	X	.002	.002	0	%100
8	GSIP-1B	X	0	0	0	%100
9	GSIP-2A	X	.000104	.000104	0	%100
10	GSIP-2B	X	.002	.002	0	%100
11	GSIP-3A	X	.002	.002	0	%100
12	GSIP-3B	X	.002	.002	0	%100
13	GSI-1A	X	.003	.003	0	%100
14	GSI-1B	X	.003	.003	0	%100
15	GSI-2A	X	.003	.003	0	%100
16	GSI-2B	X	.003	.003	0	%100
17	GSI-3A	X	0	0	0	%100
18	GSI-3B	X	0	0	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.002	.002	0	%100
21	MP-2B	X	.001	.001	0	%100
22	MP-3	X	.002	.002	0	%100
23	MP-4	X	.002	.002	0	%100
24	MP-5	X	.002	.002	0	%100
25	MP-5B	X	.001	.001	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-7	X	.002	.002	0	%100
28	MP-8	X	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude	Start Location[ft.]	End Location[ft.]	%100
29	MP-8B	X	.001	.001	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-RRH1	X	.001	.001	0	%100
32	MP-RRH2	X	.001	.001	0	%100
33	SA-1	X	.002	.002	0	%100
34	SA-2	X	.002	.002	0	%100
35	SA-3	X	.004	.004	0	%100
36	M26	X	.000541	.000541	0	%100
37	M27	X	.000541	.000541	0	%100
38	M30	X	.000541	.000541	0	%100
39	M31	X	.000541	.000541	0	%100
40	M38	X	.000545	.000545	0	%100
41	M39	X	.000545	.000545	0	%100
42	M42	X	.000545	.000545	0	%100
43	M43	X	.000545	.000545	0	%100
44	M50	X	.001	.001	0	%100
45	M51	X	.001	.001	0	%100
46	M54	X	.001	.001	0	%100
47	M55	X	.001	.001	0	%100
48	M28	X	.002	.002	0	%100
49	M29	X	.002	.002	0	%100
50	M32	X	.002	.002	0	%100
51	M33	X	.002	.002	0	%100
52	M40	X	.002	.002	0	%100
53	M41	X	.002	.002	0	%100
54	M44	X	.002	.002	0	%100
55	M45	X	.002	.002	0	%100
56	M52	X	0	0	0	%100
57	M53	X	0	0	0	%100
58	M56	X	0	0	0	%100
59	M57	X	0	0	0	%100
60	FF-HRK	X	.002	.002	0	%100
61	SF2-HRK	X	0	0	0	%100
62	SF1-HRK	X	.002	.002	0	%100
63	SRC-1	X	.002	.002	0	%100
64	SRC-2	X	0	0	0	%100
65	SRC-3	X	.002	.002	0	%100
66	BR-1	X	.001	.001	0	%100
67	BR-2	X	0	0	0	%100
68	BR-3	X	.002	.002	0	%100
69	CP-1	Z	.002	.002	0	%100
70	CP-2	Z	.002	.002	0	%100
71	CP-3	Z	0	0	0	%100
72	FF-TH	Z	.001	.001	0	%100
73	SF1-TH	Z	0	0	0	%100
74	SF2-TH	Z	.001	.001	0	%100
75	GSIP-1A	Z	.001	.001	0	%100
76	GSIP-1B	Z	0	0	0	%100
77	GSIP-2A	Z	6.8e-5	6.8e-5	0	%100
78	GSIP-2B	Z	.001	.001	0	%100
79	GSIP-3A	Z	.001	.001	0	%100
80	GSIP-3B	Z	.001	.001	0	%100
81	GSI-1A	Z	.002	.002	0	%100
82	GSI-1B	Z	.002	.002	0	%100
83	GSI-2A	Z	.002	.002	0	%100
84	GSI-2B	Z	.002	.002	0	%100
85	GSI-3A	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
86	GSI-3B	Z	0	0	0	%100
87	MP-1	Z	.001	.001	0	%100
88	MP-2	Z	.001	.001	0	%100
89	MP-2B	Z	.000955	.000955	0	%100
90	MP-3	Z	.001	.001	0	%100
91	MP-4	Z	.001	.001	0	%100
92	MP-5	Z	.001	.001	0	%100
93	MP-5B	Z	.000955	.000955	0	%100
94	MP-6	Z	.001	.001	0	%100
95	MP-7	Z	.001	.001	0	%100
96	MP-8	Z	.001	.001	0	%100
97	MP-8B	Z	.000955	.000955	0	%100
98	MP-9	Z	.001	.001	0	%100
99	MP-RRH1	Z	.000955	.000955	0	%100
100	MP-RRH2	Z	.000955	.000955	0	%100
101	SA-1	Z	.001	.001	0	%100
102	SA-2	Z	.001	.001	0	%100
103	SA-3	Z	.002	.002	0	%100
104	M26	Z	.000317	.000317	0	%100
105	M27	Z	.000317	.000317	0	%100
106	M30	Z	.000317	.000317	0	%100
107	M31	Z	.000317	.000317	0	%100
108	M38	Z	.000313	.000313	0	%100
109	M39	Z	.000313	.000313	0	%100
110	M42	Z	.000313	.000313	0	%100
111	M43	Z	.000313	.000313	0	%100
112	M50	Z	.000625	.000625	0	%100
113	M51	Z	.000625	.000625	0	%100
114	M54	Z	.000625	.000625	0	%100
115	M55	Z	.000625	.000625	0	%100
116	M28	Z	.001	.001	0	%100
117	M29	Z	.001	.001	0	%100
118	M32	Z	.001	.001	0	%100
119	M33	Z	.001	.001	0	%100
120	M40	Z	.001	.001	0	%100
121	M41	Z	.001	.001	0	%100
122	M44	Z	.001	.001	0	%100
123	M45	Z	.001	.001	0	%100
124	M52	Z	0	0	0	%100
125	M53	Z	0	0	0	%100
126	M56	Z	0	0	0	%100
127	M57	Z	0	0	0	%100
128	FF-HRK	Z	.001	.001	0	%100
129	SF2-HRK	Z	0	0	0	%100
130	SF1-HRK	Z	.001	.001	0	%100
131	SRC-1	Z	.001	.001	0	%100
132	SRC-2	Z	0	0	0	%100
133	SRC-3	Z	.001	.001	0	%100
134	BR-1	Z	.000889	.000889	0	%100
135	BR-2	Z	0	0	0	%100
136	BR-3	Z	.000834	.000834	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
1	CP-1	X	.004	.004	0	%100
2	CP-2	X	.003	.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	%100
3	CP-3	X	.000977	.000977	0	%100
4	FF-TH	X	.002	.002	0	%100
5	SF1-TH	X	.000488	.000488	0	%100
6	SF2-TH	X	.002	.002	0	%100
7	GSIP-1A	X	.002	.002	0	%100
8	GSIP-1B	X	.000526	.000526	0	%100
9	GSIP-2A	X	.000599	.000599	0	%100
10	GSIP-2B	X	.002	.002	0	%100
11	GSIP-3A	X	.002	.002	0	%100
12	GSIP-3B	X	.002	.002	0	%100
13	GSI-1A	X	.003	.003	0	%100
14	GSI-1B	X	.003	.003	0	%100
15	GSI-2A	X	.002	.002	0	%100
16	GSI-2B	X	.002	.002	0	%100
17	GSI-3A	X	.000701	.000701	0	%100
18	GSI-3B	X	.000701	.000701	0	%100
19	MP-1	X	.002	.002	0	%100
20	MP-2	X	.001	.001	0	%100
21	MP-2B	X	.001	.001	0	%100
22	MP-3	X	.002	.002	0	%100
23	MP-4	X	.002	.002	0	%100
24	MP-5	X	.001	.001	0	%100
25	MP-5B	X	.001	.001	0	%100
26	MP-6	X	.002	.002	0	%100
27	MP-7	X	.002	.002	0	%100
28	MP-8	X	.001	.001	0	%100
29	MP-8B	X	.001	.001	0	%100
30	MP-9	X	.002	.002	0	%100
31	MP-RRH1	X	.001	.001	0	%100
32	MP-RRH2	X	.001	.001	0	%100
33	SA-1	X	.000814	.000814	0	%100
34	SA-2	X	.002	.002	0	%100
35	SA-3	X	.003	.003	0	%100
36	M26	X	.000625	.000625	0	%100
37	M27	X	.000625	.000625	0	%100
38	M30	X	.000625	.000625	0	%100
39	M31	X	.000625	.000625	0	%100
40	M38	X	.00023	.00023	0	%100
41	M39	X	.00023	.00023	0	%100
42	M42	X	.00023	.00023	0	%100
43	M43	X	.00023	.00023	0	%100
44	M50	X	.000859	.000859	0	%100
45	M51	X	.000859	.000859	0	%100
46	M54	X	.000859	.000859	0	%100
47	M55	X	.000859	.000859	0	%100
48	M28	X	.002	.002	0	%100
49	M29	X	.002	.002	0	%100
50	M32	X	.002	.002	0	%100
51	M33	X	.002	.002	0	%100
52	M40	X	.002	.002	0	%100
53	M41	X	.002	.002	0	%100
54	M44	X	.002	.002	0	%100
55	M45	X	.002	.002	0	%100
56	M52	X	.000604	.000604	0	%100
57	M53	X	.000604	.000604	0	%100
58	M56	X	.000604	.000604	0	%100
59	M57	X	.000604	.000604	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
60	FF-HRK	X	.001	.001	0	%100
61	SF2-HRK	X	.000454	.000454	0	%100
62	SF1-HRK	X	.002	.002	0	%100
63	SRC-1	X	.002	.002	0	%100
64	SRC-2	X	.000562	.000562	0	%100
65	SRC-3	X	.002	.002	0	%100
66	BR-1	X	.001	.001	0	%100
67	BR-2	X	.000331	.000331	0	%100
68	BR-3	X	.001	.001	0	%100
69	CP-1	Z	.004	.004	0	%100
70	CP-2	Z	.002	.002	0	%100
71	CP-3	Z	.000977	.000977	0	%100
72	FF-TH	Z	.001	.001	0	%100
73	SF1-TH	Z	.0006	.0006	0	%100
74	SF2-TH	Z	.002	.002	0	%100
75	GSIP-1A	Z	.001	.001	0	%100
76	GSIP-1B	Z	.000584	.000584	0	%100
77	GSIP-2A	Z	.000677	.000677	0	%100
78	GSIP-2B	Z	.002	.002	0	%100
79	GSIP-3A	Z	.002	.002	0	%100
80	GSIP-3B	Z	.001	.001	0	%100
81	GSI-1A	Z	.003	.003	0	%100
82	GSI-1B	Z	.003	.003	0	%100
83	GSI-2A	Z	.002	.002	0	%100
84	GSI-2B	Z	.002	.002	0	%100
85	GSI-3A	Z	.00075	.00075	0	%100
86	GSI-3B	Z	.00075	.00075	0	%100
87	MP-1	Z	.002	.002	0	%100
88	MP-2	Z	.002	.002	0	%100
89	MP-2B	Z	.001	.001	0	%100
90	MP-3	Z	.002	.002	0	%100
91	MP-4	Z	.002	.002	0	%100
92	MP-5	Z	.002	.002	0	%100
93	MP-5B	Z	.001	.001	0	%100
94	MP-6	Z	.002	.002	0	%100
95	MP-7	Z	.002	.002	0	%100
96	MP-8	Z	.002	.002	0	%100
97	MP-8B	Z	.001	.001	0	%100
98	MP-9	Z	.002	.002	0	%100
99	MP-RRH1	Z	.001	.001	0	%100
100	MP-RRH2	Z	.001	.001	0	%100
101	SA-1	Z	.000736	.000736	0	%100
102	SA-2	Z	.002	.002	0	%100
103	SA-3	Z	.003	.003	0	%100
104	M26	Z	.000635	.000635	0	%100
105	M27	Z	.000635	.000635	0	%100
106	M30	Z	.000635	.000635	0	%100
107	M31	Z	.000635	.000635	0	%100
108	M38	Z	.000229	.000229	0	%100
109	M39	Z	.000229	.000229	0	%100
110	M42	Z	.000229	.000229	0	%100
111	M43	Z	.000229	.000229	0	%100
112	M50	Z	.000854	.000854	0	%100
113	M51	Z	.000854	.000854	0	%100
114	M54	Z	.000854	.000854	0	%100
115	M55	Z	.000854	.000854	0	%100
116	M28	Z	.001	.001	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
117	M29	Z	.001	.001	0	%100
118	M32	Z	.001	.001	0	%100
119	M33	Z	.001	.001	0	%100
120	M40	Z	.002	.002	0	%100
121	M41	Z	.002	.002	0	%100
122	M44	Z	.002	.002	0	%100
123	M45	Z	.002	.002	0	%100
124	M52	Z	.000604	.000604	0	%100
125	M53	Z	.000604	.000604	0	%100
126	M56	Z	.000604	.000604	0	%100
127	M57	Z	.000604	.000604	0	%100
128	FF-HRK	Z	.001	.001	0	%100
129	SF2-HRK	Z	.000535	.000535	0	%100
130	SF1-HRK	Z	.002	.002	0	%100
131	SRC-1	Z	.002	.002	0	%100
132	SRC-2	Z	.000578	.000578	0	%100
133	SRC-3	Z	.001	.001	0	%100
134	BR-1	Z	.001	.001	0	%100
135	BR-2	Z	.000376	.000376	0	%100
136	BR-3	Z	.000964	.000964	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft....]	End Location[ft....]	
1	CP-1	X	.003	.003	0	%100
2	CP-2	X	.001	.001	0	%100
3	CP-3	X	.001	.001	0	%100
4	FF-TH	X	.00082	.00082	0	%100
5	SF1-TH	X	.000667	.000667	0	%100
6	SF2-TH	X	.001	.001	0	%100
7	GSIP-1A	X	.000826	.000826	0	%100
8	GSIP-1B	X	.000719	.000719	0	%100
9	GSIP-2A	X	.000758	.000758	0	%100
10	GSIP-2B	X	.001	.001	0	%100
11	GSIP-3A	X	.001	.001	0	%100
12	GSIP-3B	X	.000826	.000826	0	%100
13	GSI-1A	X	.002	.002	0	%100
14	GSI-1B	X	.002	.002	0	%100
15	GSI-2A	X	.001	.001	0	%100
16	GSI-2B	X	.001	.001	0	%100
17	GSI-3A	X	.000957	.000957	0	%100
18	GSI-3B	X	.000957	.000957	0	%100
19	MP-1	X	.001	.001	0	%100
20	MP-2	X	.001	.001	0	%100
21	MP-2B	X	.000859	.000859	0	%100
22	MP-3	X	.001	.001	0	%100
23	MP-4	X	.001	.001	0	%100
24	MP-5	X	.001	.001	0	%100
25	MP-5B	X	.000859	.000859	0	%100
26	MP-6	X	.001	.001	0	%100
27	MP-7	X	.001	.001	0	%100
28	MP-8	X	.001	.001	0	%100
29	MP-8B	X	.000859	.000859	0	%100
30	MP-9	X	.001	.001	0	%100
31	MP-RRH1	X	.000859	.000859	0	%100
32	MP-RRH2	X	.000859	.000859	0	%100
33	SA-1	X	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
34	SA-2	X	.002	.002	0	%100
35	SA-3	X	.002	.002	0	%100
36	M26	X	.000541	.000541	0	%100
37	M27	X	.000541	.000541	0	%100
38	M30	X	.000541	.000541	0	%100
39	M31	X	.000541	.000541	0	%100
40	M38	X	0	0	0	%100
41	M39	X	0	0	0	%100
42	M42	X	0	0	0	%100
43	M43	X	0	0	0	%100
44	M50	X	.000545	.000545	0	%100
45	M51	X	.000545	.000545	0	%100
46	M54	X	.000545	.000545	0	%100
47	M55	X	.000545	.000545	0	%100
48	M28	X	.000826	.000826	0	%100
49	M29	X	.000826	.000826	0	%100
50	M32	X	.000826	.000826	0	%100
51	M33	X	.000826	.000826	0	%100
52	M40	X	.002	.002	0	%100
53	M41	X	.002	.002	0	%100
54	M44	X	.002	.002	0	%100
55	M45	X	.002	.002	0	%100
56	M52	X	.000826	.000826	0	%100
57	M53	X	.000826	.000826	0	%100
58	M56	X	.000826	.000826	0	%100
59	M57	X	.000826	.000826	0	%100
60	FF-HRK	X	.000731	.000731	0	%100
61	SF2-HRK	X	.00062	.00062	0	%100
62	SF1-HRK	X	.001	.001	0	%100
63	SRC-1	X	.002	.002	0	%100
64	SRC-2	X	.000768	.000768	0	%100
65	SRC-3	X	.000802	.000802	0	%100
66	BR-1	X	.000904	.000904	0	%100
67	BR-2	X	.000452	.000452	0	%100
68	BR-3	X	.000535	.000535	0	%100
69	CP-1	Z	.005	.005	0	%100
70	CP-2	Z	.002	.002	0	%100
71	CP-3	Z	.002	.002	0	%100
72	FF-TH	Z	.001	.001	0	%100
73	SF1-TH	Z	.001	.001	0	%100
74	SF2-TH	Z	.003	.003	0	%100
75	GSIP-1A	Z	.001	.001	0	%100
76	GSIP-1B	Z	.001	.001	0	%100
77	GSIP-2A	Z	.001	.001	0	%100
78	GSIP-2B	Z	.003	.003	0	%100
79	GSIP-3A	Z	.003	.003	0	%100
80	GSIP-3B	Z	.001	.001	0	%100
81	GSI-1A	Z	.004	.004	0	%100
82	GSI-1B	Z	.004	.004	0	%100
83	GSI-2A	Z	.002	.002	0	%100
84	GSI-2B	Z	.002	.002	0	%100
85	GSI-3A	Z	.002	.002	0	%100
86	GSI-3B	Z	.002	.002	0	%100
87	MP-1	Z	.002	.002	0	%100
88	MP-2	Z	.002	.002	0	%100
89	MP-2B	Z	.002	.002	0	%100
90	MP-3	Z	.002	.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
91	MP-4	Z	.002	.002	0	%100
92	MP-5	Z	.002	.002	0	%100
93	MP-5B	Z	.002	.002	0	%100
94	MP-6	Z	.002	.002	0	%100
95	MP-7	Z	.002	.002	0	%100
96	MP-8	Z	.002	.002	0	%100
97	MP-8B	Z	.002	.002	0	%100
98	MP-9	Z	.002	.002	0	%100
99	MP-RRH1	Z	.002	.002	0	%100
100	MP-RRH2	Z	.002	.002	0	%100
101	SA-1	Z	0	0	0	%100
102	SA-2	Z	.003	.003	0	%100
103	SA-3	Z	.003	.003	0	%100
104	M26	Z	.000952	.000952	0	%100
105	M27	Z	.000952	.000952	0	%100
106	M30	Z	.000952	.000952	0	%100
107	M31	Z	.000952	.000952	0	%100
108	M38	Z	0	0	0	%100
109	M39	Z	0	0	0	%100
110	M42	Z	0	0	0	%100
111	M43	Z	0	0	0	%100
112	M50	Z	.000938	.000938	0	%100
113	M51	Z	.000938	.000938	0	%100
114	M54	Z	.000938	.000938	0	%100
115	M55	Z	.000938	.000938	0	%100
116	M28	Z	.001	.001	0	%100
117	M29	Z	.001	.001	0	%100
118	M32	Z	.001	.001	0	%100
119	M33	Z	.001	.001	0	%100
120	M40	Z	.003	.003	0	%100
121	M41	Z	.003	.003	0	%100
122	M44	Z	.003	.003	0	%100
123	M45	Z	.003	.003	0	%100
124	M52	Z	.001	.001	0	%100
125	M53	Z	.001	.001	0	%100
126	M56	Z	.001	.001	0	%100
127	M57	Z	.001	.001	0	%100
128	FF-HRK	Z	.001	.001	0	%100
129	SF2-HRK	Z	.001	.001	0	%100
130	SF1-HRK	Z	.003	.003	0	%100
131	SRC-1	Z	.003	.003	0	%100
132	SRC-2	Z	.001	.001	0	%100
133	SRC-3	Z	.001	.001	0	%100
134	BR-1	Z	.002	.002	0	%100
135	BR-2	Z	.000889	.000889	0	%100
136	BR-3	Z	.000834	.000834	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	Z	.005	.005	0	%100
2	CP-2	Z	0	0	0	%100
3	CP-3	Z	.005	.005	0	%100
4	FF-TH	Z	0	0	0	%100
5	SF1-TH	Z	.003	.003	0	%100
6	SF2-TH	Z	.003	.003	0	%100
7	GSIP-1A	Z	0	0	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
8	GSIP-1B	Z	.003	.003	0	%100
9	GSIP-2A	Z	.003	.003	0	%100
10	GSIP-2B	Z	.003	.003	0	%100
11	GSIP-3A	Z	.003	.003	0	%100
12	GSIP-3B	Z	0	0	0	%100
13	GSI-1A	Z	.004	.004	0	%100
14	GSI-1B	Z	.004	.004	0	%100
15	GSI-2A	Z	0	0	0	%100
16	GSI-2B	Z	0	0	0	%100
17	GSI-3A	Z	.004	.004	0	%100
18	GSI-3B	Z	.004	.004	0	%100
19	MP-1	Z	.002	.002	0	%100
20	MP-2	Z	.002	.002	0	%100
21	MP-2B	Z	.002	.002	0	%100
22	MP-3	Z	.002	.002	0	%100
23	MP-4	Z	.002	.002	0	%100
24	MP-5	Z	.002	.002	0	%100
25	MP-5B	Z	.002	.002	0	%100
26	MP-6	Z	.002	.002	0	%100
27	MP-7	Z	.002	.002	0	%100
28	MP-8	Z	.002	.002	0	%100
29	MP-8B	Z	.002	.002	0	%100
30	MP-9	Z	.002	.002	0	%100
31	MP-RRH1	Z	.002	.002	0	%100
32	MP-RRH2	Z	.002	.002	0	%100
33	SA-1	Z	.002	.002	0	%100
34	SA-2	Z	.005	.005	0	%100
35	SA-3	Z	.002	.002	0	%100
36	M26	Z	.001	.001	0	%100
37	M27	Z	.001	.001	0	%100
38	M30	Z	.001	.001	0	%100
39	M31	Z	.001	.001	0	%100
40	M38	Z	.000625	.000625	0	%100
41	M39	Z	.000625	.000625	0	%100
42	M42	Z	.000625	.000625	0	%100
43	M43	Z	.000625	.000625	0	%100
44	M50	Z	.000625	.000625	0	%100
45	M51	Z	.000625	.000625	0	%100
46	M54	Z	.000625	.000625	0	%100
47	M55	Z	.000625	.000625	0	%100
48	M28	Z	0	0	0	%100
49	M29	Z	0	0	0	%100
50	M32	Z	0	0	0	%100
51	M33	Z	0	0	0	%100
52	M40	Z	.003	.003	0	%100
53	M41	Z	.003	.003	0	%100
54	M44	Z	.003	.003	0	%100
55	M45	Z	.003	.003	0	%100
56	M52	Z	.003	.003	0	%100
57	M53	Z	.003	.003	0	%100
58	M56	Z	.003	.003	0	%100
59	M57	Z	.003	.003	0	%100
60	FF-HRK	Z	0	0	0	%100
61	SF2-HRK	Z	.003	.003	0	%100
62	SF1-HRK	Z	.003	.003	0	%100
63	SRC-1	Z	.003	.003	0	%100
64	SRC-2	Z	.003	.003	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
65	SRC-3	Z	0	0	0	%100
66	BR-1	Z	.002	.002	0	%100
67	BR-2	Z	.002	.002	0	%100
68	BR-3	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	X	-.001	-.001	0	%100
2	CP-2	X	-.001	-.001	0	%100
3	CP-3	X	-.003	-.003	0	%100
4	FF-TH	X	-.00082	-.00082	0	%100
5	SF1-TH	X	-.001	-.001	0	%100
6	SF2-TH	X	-.000667	-.000667	0	%100
7	GSIP-1A	X	-.000826	-.000826	0	%100
8	GSIP-1B	X	-.001	-.001	0	%100
9	GSIP-2A	X	-.001	-.001	0	%100
10	GSIP-2B	X	-.000758	-.000758	0	%100
11	GSIP-3A	X	-.000719	-.000719	0	%100
12	GSIP-3B	X	-.000826	-.000826	0	%100
13	GSI-1A	X	-.000957	-.000957	0	%100
14	GSI-1B	X	-.000957	-.000957	0	%100
15	GSI-2A	X	-.001	-.001	0	%100
16	GSI-2B	X	-.001	-.001	0	%100
17	GSI-3A	X	-.002	-.002	0	%100
18	GSI-3B	X	-.002	-.002	0	%100
19	MP-1	X	-.001	-.001	0	%100
20	MP-2	X	-.001	-.001	0	%100
21	MP-2B	X	-.000859	-.000859	0	%100
22	MP-3	X	-.001	-.001	0	%100
23	MP-4	X	-.001	-.001	0	%100
24	MP-5	X	-.001	-.001	0	%100
25	MP-5B	X	-.000859	-.000859	0	%100
26	MP-6	X	-.001	-.001	0	%100
27	MP-7	X	-.001	-.001	0	%100
28	MP-8	X	-.001	-.001	0	%100
29	MP-8B	X	-.000859	-.000859	0	%100
30	MP-9	X	-.001	-.001	0	%100
31	MP-RRH1	X	-.000859	-.000859	0	%100
32	MP-RRH2	X	-.000859	-.000859	0	%100
33	SA-1	X	-.002	-.002	0	%100
34	SA-2	X	-.002	-.002	0	%100
35	SA-3	X	0	0	0	%100
36	M26	X	-.000541	-.000541	0	%100
37	M27	X	-.000541	-.000541	0	%100
38	M30	X	-.000541	-.000541	0	%100
39	M31	X	-.000541	-.000541	0	%100
40	M38	X	-.000545	-.000545	0	%100
41	M39	X	-.000545	-.000545	0	%100
42	M42	X	-.000545	-.000545	0	%100
43	M43	X	-.000545	-.000545	0	%100
44	M50	X	0	0	0	%100
45	M51	X	0	0	0	%100
46	M54	X	0	0	0	%100
47	M55	X	0	0	0	%100
48	M28	X	-.000826	-.000826	0	%100
49	M29	X	-.000826	-.000826	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
50	M32	X	-0.00826	-0.00826	0 %100
51	M33	X	-0.00826	-0.00826	0 %100
52	M40	X	-0.00826	-0.00826	0 %100
53	M41	X	-0.00826	-0.00826	0 %100
54	M44	X	-0.00826	-0.00826	0 %100
55	M45	X	-0.00826	-0.00826	0 %100
56	M52	X	-.002	-.002	0 %100
57	M53	X	-.002	-.002	0 %100
58	M56	X	-.002	-.002	0 %100
59	M57	X	-.002	-.002	0 %100
60	FF-HRK	X	-0.00731	-0.00731	0 %100
61	SF2-HRK	X	-.001	-.001	0 %100
62	SF1-HRK	X	-0.0062	-0.0062	0 %100
63	SRC-1	X	-0.00768	-0.00768	0 %100
64	SRC-2	X	-.002	-.002	0 %100
65	SRC-3	X	-0.00802	-0.00802	0 %100
66	BR-1	X	-0.00452	-0.00452	0 %100
67	BR-2	X	-0.00904	-0.00904	0 %100
68	BR-3	X	-0.00535	-0.00535	0 %100
69	CP-1	Z	.002	.002	0 %100
70	CP-2	Z	.002	.002	0 %100
71	CP-3	Z	.005	.005	0 %100
72	FF-TH	Z	.001	.001	0 %100
73	SF1-TH	Z	.003	.003	0 %100
74	SF2-TH	Z	.001	.001	0 %100
75	GSI-1A	Z	.001	.001	0 %100
76	GSI-1B	Z	.003	.003	0 %100
77	GSI-2A	Z	.003	.003	0 %100
78	GSI-2B	Z	.001	.001	0 %100
79	GSI-3A	Z	.001	.001	0 %100
80	GSI-3B	Z	.001	.001	0 %100
81	GSI-1A	Z	.002	.002	0 %100
82	GSI-1B	Z	.002	.002	0 %100
83	GSI-2A	Z	.002	.002	0 %100
84	GSI-2B	Z	.002	.002	0 %100
85	GSI-3A	Z	.004	.004	0 %100
86	GSI-3B	Z	.004	.004	0 %100
87	MP-1	Z	.002	.002	0 %100
88	MP-2	Z	.002	.002	0 %100
89	MP-2B	Z	.002	.002	0 %100
90	MP-3	Z	.002	.002	0 %100
91	MP-4	Z	.002	.002	0 %100
92	MP-5	Z	.002	.002	0 %100
93	MP-5B	Z	.002	.002	0 %100
94	MP-6	Z	.002	.002	0 %100
95	MP-7	Z	.002	.002	0 %100
96	MP-8	Z	.002	.002	0 %100
97	MP-8B	Z	.002	.002	0 %100
98	MP-9	Z	.002	.002	0 %100
99	MP-RRH1	Z	.002	.002	0 %100
100	MP-RRH2	Z	.002	.002	0 %100
101	SA-1	Z	.003	.003	0 %100
102	SA-2	Z	.003	.003	0 %100
103	SA-3	Z	0	0	0 %100
104	M26	Z	.000952	.000952	0 %100
105	M27	Z	.000952	.000952	0 %100
106	M30	Z	.000952	.000952	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
107	M31	Z	.000952	.000952	0 %100
108	M38	Z	.000938	.000938	0 %100
109	M39	Z	.000938	.000938	0 %100
110	M42	Z	.000938	.000938	0 %100
111	M43	Z	.000938	.000938	0 %100
112	M50	Z	0	0	0 %100
113	M51	Z	0	0	0 %100
114	M54	Z	0	0	0 %100
115	M55	Z	0	0	0 %100
116	M28	Z	.001	.001	0 %100
117	M29	Z	.001	.001	0 %100
118	M32	Z	.001	.001	0 %100
119	M33	Z	.001	.001	0 %100
120	M40	Z	.001	.001	0 %100
121	M41	Z	.001	.001	0 %100
122	M44	Z	.001	.001	0 %100
123	M45	Z	.001	.001	0 %100
124	M52	Z	.003	.003	0 %100
125	M53	Z	.003	.003	0 %100
126	M56	Z	.003	.003	0 %100
127	M57	Z	.003	.003	0 %100
128	FF-HRK	Z	.001	.001	0 %100
129	SF2-HRK	Z	.003	.003	0 %100
130	SF1-HRK	Z	.001	.001	0 %100
131	SRC-1	Z	.001	.001	0 %100
132	SRC-2	Z	.003	.003	0 %100
133	SRC-3	Z	.001	.001	0 %100
134	BR-1	Z	.000889	.000889	0 %100
135	BR-2	Z	.002	.002	0 %100
136	BR-3	Z	.000834	.000834	0 %100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	CP-1	X	-.000977	-.000977	0 %100
2	CP-2	X	-.003	-.003	0 %100
3	CP-3	X	-.004	-.004	0 %100
4	FF-TH	X	-.002	-.002	0 %100
5	SF1-TH	X	-.002	-.002	0 %100
6	SF2-TH	X	-.000488	-.000488	0 %100
7	GSI-1A	X	-.002	-.002	0 %100
8	GSI-1B	X	-.002	-.002	0 %100
9	GSI-2A	X	-.002	-.002	0 %100
10	GSI-2B	X	-.000599	-.000599	0 %100
11	GSI-3A	X	-.000526	-.000526	0 %100
12	GSI-3B	X	-.002	-.002	0 %100
13	GSI-1A	X	-.000701	-.000701	0 %100
14	GSI-1B	X	-.000701	-.000701	0 %100
15	GSI-2A	X	-.002	-.002	0 %100
16	GSI-2B	X	-.002	-.002	0 %100
17	GSI-3A	X	-.003	-.003	0 %100
18	GSI-3B	X	-.003	-.003	0 %100
19	MP-1	X	-.002	-.002	0 %100
20	MP-2	X	-.001	-.001	0 %100
21	MP-2B	X	-.001	-.001	0 %100
22	MP-3	X	-.002	-.002	0 %100
23	MP-4	X	-.002	-.002	0 %100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
24	MP-5	X	-0.01	-0.01	0	%100
25	MP-5B	X	-0.01	-0.01	0	%100
26	MP-6	X	-0.02	-0.02	0	%100
27	MP-7	X	-0.02	-0.02	0	%100
28	MP-8	X	-0.01	-0.01	0	%100
29	MP-8B	X	-0.01	-0.01	0	%100
30	MP-9	X	-0.02	-0.02	0	%100
31	MP-RRH1	X	-0.01	-0.01	0	%100
32	MP-RRH2	X	-0.01	-0.01	0	%100
33	SA-1	X	-0.03	-0.03	0	%100
34	SA-2	X	-0.02	-0.02	0	%100
35	SA-3	X	-0.00814	-0.00814	0	%100
36	M26	X	-0.00625	-0.00625	0	%100
37	M27	X	-0.00625	-0.00625	0	%100
38	M30	X	-0.00625	-0.00625	0	%100
39	M31	X	-0.00625	-0.00625	0	%100
40	M38	X	-0.00859	-0.00859	0	%100
41	M39	X	-0.00859	-0.00859	0	%100
42	M42	X	-0.00859	-0.00859	0	%100
43	M43	X	-0.00859	-0.00859	0	%100
44	M50	X	-0.0023	-0.0023	0	%100
45	M51	X	-0.0023	-0.0023	0	%100
46	M54	X	-0.0023	-0.0023	0	%100
47	M55	X	-0.0023	-0.0023	0	%100
48	M28	X	-0.02	-0.02	0	%100
49	M29	X	-0.02	-0.02	0	%100
50	M32	X	-0.02	-0.02	0	%100
51	M33	X	-0.02	-0.02	0	%100
52	M40	X	-0.00604	-0.00604	0	%100
53	M41	X	-0.00604	-0.00604	0	%100
54	M44	X	-0.00604	-0.00604	0	%100
55	M45	X	-0.00604	-0.00604	0	%100
56	M52	X	-0.02	-0.02	0	%100
57	M53	X	-0.02	-0.02	0	%100
58	M56	X	-0.02	-0.02	0	%100
59	M57	X	-0.02	-0.02	0	%100
60	FF-HRK	X	-0.01	-0.01	0	%100
61	SF2-HRK	X	-0.02	-0.02	0	%100
62	SF1-HRK	X	-0.00454	-0.00454	0	%100
63	SRC-1	X	-0.00562	-0.00562	0	%100
64	SRC-2	X	-0.02	-0.02	0	%100
65	SRC-3	X	-0.02	-0.02	0	%100
66	BR-1	X	-0.00331	-0.00331	0	%100
67	BR-2	X	-0.01	-0.01	0	%100
68	BR-3	X	-0.01	-0.01	0	%100
69	CP-1	Z	0.00977	0.00977	0	%100
70	CP-2	Z	0.02	0.02	0	%100
71	CP-3	Z	0.04	0.04	0	%100
72	FF-TH	Z	0.01	0.01	0	%100
73	SF1-TH	Z	0.02	0.02	0	%100
74	SF2-TH	Z	0.006	0.006	0	%100
75	GSIP-1A	Z	0.01	0.01	0	%100
76	GSIP-1B	Z	0.02	0.02	0	%100
77	GSIP-2A	Z	0.02	0.02	0	%100
78	GSIP-2B	Z	0.00677	0.00677	0	%100
79	GSIP-3A	Z	0.00584	0.00584	0	%100
80	GSIP-3B	Z	0.01	0.01	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
81	GSI-1A	Z	0.0075	0.0075	0	%100
82	GSI-1B	Z	0.0075	0.0075	0	%100
83	GSI-2A	Z	0.02	0.02	0	%100
84	GSI-2B	Z	0.02	0.02	0	%100
85	GSI-3A	Z	0.03	0.03	0	%100
86	GSI-3B	Z	0.03	0.03	0	%100
87	MP-1	Z	0.02	0.02	0	%100
88	MP-2	Z	0.02	0.02	0	%100
89	MP-2B	Z	0.01	0.01	0	%100
90	MP-3	Z	0.02	0.02	0	%100
91	MP-4	Z	0.02	0.02	0	%100
92	MP-5	Z	0.02	0.02	0	%100
93	MP-5B	Z	0.01	0.01	0	%100
94	MP-6	Z	0.02	0.02	0	%100
95	MP-7	Z	0.02	0.02	0	%100
96	MP-8	Z	0.02	0.02	0	%100
97	MP-8B	Z	0.01	0.01	0	%100
98	MP-9	Z	0.02	0.02	0	%100
99	MP-RRH1	Z	0.01	0.01	0	%100
100	MP-RRH2	Z	0.01	0.01	0	%100
101	SA-1	Z	0.03	0.03	0	%100
102	SA-2	Z	0.02	0.02	0	%100
103	SA-3	Z	0.00736	0.00736	0	%100
104	M26	Z	0.00635	0.00635	0	%100
105	M27	Z	0.00635	0.00635	0	%100
106	M30	Z	0.00635	0.00635	0	%100
107	M31	Z	0.00635	0.00635	0	%100
108	M38	Z	0.00854	0.00854	0	%100
109	M39	Z	0.00854	0.00854	0	%100
110	M42	Z	0.00854	0.00854	0	%100
111	M43	Z	0.00854	0.00854	0	%100
112	M50	Z	0.00229	0.00229	0	%100
113	M51	Z	0.00229	0.00229	0	%100
114	M54	Z	0.00229	0.00229	0	%100
115	M55	Z	0.00229	0.00229	0	%100
116	M28	Z	0.01	0.01	0	%100
117	M29	Z	0.01	0.01	0	%100
118	M32	Z	0.01	0.01	0	%100
119	M33	Z	0.01	0.01	0	%100
120	M40	Z	0.00604	0.00604	0	%100
121	M41	Z	0.00604	0.00604	0	%100
122	M44	Z	0.00604	0.00604	0	%100
123	M45	Z	0.00604	0.00604	0	%100
124	M52	Z	0.02	0.02	0	%100
125	M53	Z	0.02	0.02	0	%100
126	M56	Z	0.02	0.02	0	%100
127	M57	Z	0.02	0.02	0	%100
128	FF-HRK	Z	0.01	0.01	0	%100
129	SF2-HRK	Z	0.02	0.02	0	%100
130	SF1-HRK	Z	0.00535	0.00535	0	%100
131	SRC-1	Z	0.00578	0.00578	0	%100
132	SRC-2	Z	0.02	0.02	0	%100
133	SRC-3	Z	0.01	0.01	0	%100
134	BR-1	Z	0.00376	0.00376	0	%100
135	BR-2	Z	0.01	0.01	0	%100
136	BR-3	Z	0.00964	0.00964	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Location[ft.]	End Location[ft.]	%100
1	CP-1	X	0	0	0	%100
2	CP-2	X	-0.004	-0.004	0	%100
3	CP-3	X	-0.004	-0.004	0	%100
4	FF-TH	X	-0.002	-0.002	0	%100
5	SF1-TH	X	-0.002	-0.002	0	%100
6	SF2-TH	X	0	0	0	%100
7	GSIP-1A	X	-0.002	-0.002	0	%100
8	GSIP-1B	X	-0.002	-0.002	0	%100
9	GSIP-2A	X	-0.002	-0.002	0	%100
10	GSIP-2B	X	-0.000104	-0.000104	0	%100
11	GSIP-3A	X	0	0	0	%100
12	GSIP-3B	X	-0.002	-0.002	0	%100
13	GSI-1A	X	0	0	0	%100
14	GSI-1B	X	0	0	0	%100
15	GSI-2A	X	-0.003	-0.003	0	%100
16	GSI-2B	X	-0.003	-0.003	0	%100
17	GSI-3A	X	-0.003	-0.003	0	%100
18	GSI-3B	X	-0.003	-0.003	0	%100
19	MP-1	X	-0.002	-0.002	0	%100
20	MP-2	X	-0.002	-0.002	0	%100
21	MP-2B	X	-0.001	-0.001	0	%100
22	MP-3	X	-0.002	-0.002	0	%100
23	MP-4	X	-0.002	-0.002	0	%100
24	MP-5	X	-0.002	-0.002	0	%100
25	MP-5B	X	-0.001	-0.001	0	%100
26	MP-6	X	-0.002	-0.002	0	%100
27	MP-7	X	-0.002	-0.002	0	%100
28	MP-8	X	-0.002	-0.002	0	%100
29	MP-8B	X	-0.001	-0.001	0	%100
30	MP-9	X	-0.002	-0.002	0	%100
31	MP-RRH1	X	-0.001	-0.001	0	%100
32	MP-RRH2	X	-0.001	-0.001	0	%100
33	SA-1	X	-0.004	-0.004	0	%100
34	SA-2	X	-0.002	-0.002	0	%100
35	SA-3	X	-0.002	-0.002	0	%100
36	M26	X	-0.000541	-0.000541	0	%100
37	M27	X	-0.000541	-0.000541	0	%100
38	M30	X	-0.000541	-0.000541	0	%100
39	M31	X	-0.000541	-0.000541	0	%100
40	M38	X	-0.001	-0.001	0	%100
41	M39	X	-0.001	-0.001	0	%100
42	M42	X	-0.001	-0.001	0	%100
43	M43	X	-0.001	-0.001	0	%100
44	M50	X	-0.000545	-0.000545	0	%100
45	M51	X	-0.000545	-0.000545	0	%100
46	M54	X	-0.000545	-0.000545	0	%100
47	M55	X	-0.000545	-0.000545	0	%100
48	M28	X	-0.002	-0.002	0	%100
49	M29	X	-0.002	-0.002	0	%100
50	M32	X	-0.002	-0.002	0	%100
51	M33	X	-0.002	-0.002	0	%100
52	M40	X	0	0	0	%100
53	M41	X	0	0	0	%100
54	M44	X	0	0	0	%100
55	M45	X	0	0	0	%100
56	M52	X	-0.002	-0.002	0	%100
57	M53	X	-0.002	-0.002	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[k/ft.F.ksf]	Start Location[ft.]	End Location[ft.]	%100
58	M56	X	-0.002	-0.002	0	%100
59	M57	X	-0.002	-0.002	0	%100
60	FF-HRK	X	-0.002	-0.002	0	%100
61	SF2-HRK	X	-0.002	-0.002	0	%100
62	SF1-HRK	X	0	0	0	%100
63	SRC-1	X	0	0	0	%100
64	SRC-2	X	-0.002	-0.002	0	%100
65	SRC-3	X	-0.002	-0.002	0	%100
66	BR-1	X	0	0	0	%100
67	BR-2	X	-0.001	-0.001	0	%100
68	BR-3	X	-0.002	-0.002	0	%100
69	CP-1	Z	0	0	0	%100
70	CP-2	Z	.002	.002	0	%100
71	CP-3	Z	.002	.002	0	%100
72	FF-TH	Z	.001	.001	0	%100
73	SF1-TH	Z	.001	.001	0	%100
74	SF2-TH	Z	0	0	0	%100
75	GSIP-1A	Z	.001	.001	0	%100
76	GSIP-1B	Z	.001	.001	0	%100
77	GSIP-2A	Z	.001	.001	0	%100
78	GSIP-2B	Z	6.8e-5	6.8e-5	0	%100
79	GSIP-3A	Z	0	0	0	%100
80	GSIP-3B	Z	.001	.001	0	%100
81	GSI-1A	Z	0	0	0	%100
82	GSI-1B	Z	0	0	0	%100
83	GSI-2A	Z	.002	.002	0	%100
84	GSI-2B	Z	.002	.002	0	%100
85	GSI-3A	Z	.002	.002	0	%100
86	GSI-3B	Z	.002	.002	0	%100
87	MP-1	Z	.001	.001	0	%100
88	MP-2	Z	.001	.001	0	%100
89	MP-2B	Z	.000955	.000955	0	%100
90	MP-3	Z	.001	.001	0	%100
91	MP-4	Z	.001	.001	0	%100
92	MP-5	Z	.001	.001	0	%100
93	MP-5B	Z	.000955	.000955	0	%100
94	MP-6	Z	.001	.001	0	%100
95	MP-7	Z	.001	.001	0	%100
96	MP-8	Z	.001	.001	0	%100
97	MP-8B	Z	.000955	.000955	0	%100
98	MP-9	Z	.001	.001	0	%100
99	MP-RRH1	Z	.000955	.000955	0	%100
100	MP-RRH2	Z	.000955	.000955	0	%100
101	SA-1	Z	.002	.002	0	%100
102	SA-2	Z	.001	.001	0	%100
103	SA-3	Z	.001	.001	0	%100
104	M26	Z	.000317	.000317	0	%100
105	M27	Z	.000317	.000317	0	%100
106	M30	Z	.000317	.000317	0	%100
107	M31	Z	.000317	.000317	0	%100
108	M38	Z	.000625	.000625	0	%100
109	M39	Z	.000625	.000625	0	%100
110	M42	Z	.000625	.000625	0	%100
111	M43	Z	.000625	.000625	0	%100
112	M50	Z	.000313	.000313	0	%100
113	M51	Z	.000313	.000313	0	%100
114	M54	Z	.000313	.000313	0	%100



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
115	M55	Z	.000313	.000313	0	%100
116	M28	Z	.001	.001	0	%100
117	M29	Z	.001	.001	0	%100
118	M32	Z	.001	.001	0	%100
119	M33	Z	.001	.001	0	%100
120	M40	Z	0	0	0	%100
121	M41	Z	0	0	0	%100
122	M44	Z	0	0	0	%100
123	M45	Z	0	0	0	%100
124	M52	Z	.001	.001	0	%100
125	M53	Z	.001	.001	0	%100
126	M56	Z	.001	.001	0	%100
127	M57	Z	.001	.001	0	%100
128	FF-HRK	Z	.001	.001	0	%100
129	SF2-HRK	Z	.001	.001	0	%100
130	SF1-HRK	Z	0	0	0	%100
131	SRC-1	Z	0	0	0	%100
132	SRC-2	Z	.001	.001	0	%100
133	SRC-3	Z	.001	.001	0	%100
134	BR-1	Z	0	0	0	%100
135	BR-2	Z	.000889	.000889	0	%100
136	BR-3	Z	.000834	.000834	0	%100

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	Y	-.001	-.001	.514	.736
2	GSIP-1A	Y	-.0001779	-.007	.428	1.199
3	GSIP-1A	Y	-.007	-.009	1.199	1.97
4	GSIP-1A	Y	-.009	-.005	1.199	2.741
5	GSIP-1A	Y	-.005	-.004	2.741	3.512
6	GSIP-1A	Y	-.004	-.0007375	3.512	4.282
7	GSIP-1B	Y	-.0007375	-.004	0	.771
8	GSIP-1B	Y	-.004	-.005	.771	1.542
9	GSIP-1B	Y	-.005	-.009	1.542	2.312
10	GSIP-1B	Y	-.009	-.007	2.312	3.083
11	GSIP-1B	Y	-.007	-.0001779	3.083	3.854
12	GSI-1A	Y	-.008	-.008	.645	2.766
13	GSI-1B	Y	-.008	-.008	0	2.121
14	SA-1	Y	-.0001047	-.014	1.55	2.273
15	SA-1	Y	-.014	-.021	2.273	2.997
16	SA-1	Y	-.021	-.01	2.997	3.72
17	SA-1	Y	-.01	-.006	3.72	4.444
18	SA-1	Y	-.006	-.004	4.444	5.167
19	CP-2	Y	-.002	-.002	.227	1.023
20	GSIP-2A	Y	-.002	-.006	.418	1.36
21	GSIP-2A	Y	-.006	-.007	1.36	2.301
22	GSIP-2A	Y	-.007	-.005	2.301	3.242
23	GSIP-2A	Y	-.005	-.0004725	3.242	4.183
24	GSIP-2B	Y	-.0004725	-.005	0	.941
25	GSIP-2B	Y	-.005	-.007	.941	1.882
26	GSIP-2B	Y	-.007	-.006	1.882	2.824
27	GSIP-2B	Y	-.006	-.008	2.824	3.765
28	GSI-2A	Y	-.008	-.008	.664	2.766
29	GSI-2B	Y	-.008	-.008	0	2.102
30	SA-2	Y	-.016	-.012	1.55	2.454
31	SA-2	Y	-.012	-.013	2.454	3.359



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
32	SA-2	Y	-.013	-.011	3.359	4.263
33	SA-2	Y	-.011	-.001	4.263	5.167
34	CP-3	Y	-.001	-.001	.514	.736
35	GSIP-3A	Y	-.0001779	-.007	.428	1.199
36	GSIP-3A	Y	-.007	-.009	1.199	1.97
37	GSIP-3A	Y	-.009	-.005	1.97	2.741
38	GSIP-3A	Y	-.005	-.004	2.741	3.512
39	GSIP-3A	Y	-.004	-.0007375	3.512	4.282
40	GSIP-3B	Y	-.0007375	-.004	0	.771
41	GSIP-3B	Y	-.004	-.005	.771	1.542
42	GSIP-3B	Y	-.005	-.009	1.542	2.312
43	GSIP-3B	Y	-.009	-.007	2.312	3.083
44	GSIP-3B	Y	-.007	-.0001779	3.083	3.854
45	GSI-3A	Y	-.008	-.008	.645	2.766
46	GSI-3B	Y	-.008	-.008	0	2.121
47	SA-3	Y	-.0001047	-.014	1.55	2.273
48	SA-3	Y	-.014	-.021	2.273	2.997
49	SA-3	Y	-.021	-.01	2.997	3.72
50	SA-3	Y	-.01	-.006	3.72	4.444
51	SA-3	Y	-.006	-.004	4.444	5.167

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]	
1	CP-1	Y	-.0005341	-.005341	.514	.736
2	GSIP-1A	Y	-7.415e-5	-.003	.428	1.199
3	GSIP-1A	Y	-.003	-.004	1.199	1.97
4	GSIP-1A	Y	-.004	-.002	1.97	2.741
5	GSIP-1A	Y	-.002	-.002	2.741	3.512
6	GSIP-1A	Y	-.002	-.0003073	3.512	4.282
7	GSIP-1B	Y	-.0003073	-.002	0	.771
8	GSIP-1B	Y	-.002	-.002	.771	1.542
9	GSIP-1B	Y	-.002	-.004	1.542	2.312
10	GSIP-1B	Y	-.004	-.003	2.312	3.083
11	GSIP-1B	Y	-.003	-7.415e-5	3.083	3.854
12	GSI-1A	Y	-.003	-.003	.645	2.766
13	GSI-1B	Y	-.003	-.003	0	2.121
14	SA-1	Y	-4.361e-5	-.006	1.55	2.273
15	SA-1	Y	-.006	-.009	2.273	2.997
16	SA-1	Y	-.009	-.004	2.997	3.72
17	SA-1	Y	-.004	-.002	3.72	4.444
18	SA-1	Y	-.002	-.002	4.444	5.167
19	CP-2	Y	-.0008743	-.0008743	.227	1.023
20	GSIP-2A	Y	-.003	-.002	.418	1.36
21	GSIP-2A	Y	-.002	-.003	1.36	2.301
22	GSIP-2A	Y	-.003	-.002	2.301	3.242
23	GSIP-2A	Y	-.002	-.0001969	3.242	4.183
24	GSIP-2B	Y	-.0001969	-.002	0	.941
25	GSIP-2B	Y	-.002	-.003	.941	1.882
26	GSIP-2B	Y	-.003	-.002	1.882	2.824
27	GSIP-2B	Y	-.002	-.003	2.824	3.765
28	GSI-2A	Y	-.003	-.003	.664	2.766
29	GSI-2B	Y	-.003	-.003	0	2.102
30	SA-2	Y	-.007	-.005	1.55	2.454
31	SA-2	Y	-.005	-.006	2.454	3.359
32	SA-2	Y	-.006	-.005	3.359	4.263
33	SA-2	Y	-.005	-.0004591	4.263	5.167



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member Label	Direction	Start Magnitude[k/ft.F.ksf]	End Magnitude...	Start Locationft...	End Locationft...
34	CP-3	Y	-0.005341	.514	.736
35	GSIP-3A	Y	-7.415e-5	-.003	.428
36	GSIP-3A	Y	-.003	-.004	1.199
37	GSIP-3A	Y	-.004	-.002	1.97
38	GSIP-3A	Y	-.002	-.002	2.741
39	GSIP-3A	Y	-.002	-.0003073	3.512
40	GSIP-3B	Y	-.0003073	-.002	0
41	GSIP-3B	Y	-.002	-.002	.771
42	GSIP-3B	Y	-.002	-.004	1.542
43	GSIP-3B	Y	-.004	-.003	2.312
44	GSIP-3B	Y	-.003	-7.415e-5	3.083
45	GSI-3A	Y	-.003	-.003	3.854
46	GSI-3B	Y	-.003	-.003	6.45
47	SA-3	Y	-4.361e-5	-.006	1.55
48	SA-3	Y	-.006	-.009	2.273
49	SA-3	Y	-.009	-.004	2.997
50	SA-3	Y	-.004	-.002	3.72
51	SA-3	Y	-.002	-.002	4.444

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	SA-1A	max	1.736	18	2.821	29	2.425	21	2.314	5	1.667	17	3.291
2		min	-1.729	10	-.633	5	-2.413	13	-5.565	29	-1.671	9	-1.352
3	SA-3A	max	1.729	18	2.883	23	2.557	7	5.704	23	1.58	11	3.398
4		min	-1.725	10	-.695	15	-2.569	31	-2.406	15	-1.581	3	-1.543
5	SA-2A	max	1.808	2	2.772	18	1.198	6	.74	6	1.438	6	2.643
6		min	-1.82	26	-.678	10	-1.196	14	-.788	30	-1.441	14	-6.257
7	Totals:	max	5.273	18	7.266	49	5.282	22					
8		min	-5.273	10	2.632	83	-5.282	14					

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

Member	Shape	Code Check	Locf...	LC	Shea...	Locf...	Dir	LC	Pn[k]	Tn[k]	Mny[k-ft]	Mnz[k-ft]	Cb	Cmy	Cmz	Eqn
1	M54	0.5 Threa...	.657	.5	42	.086	.5	27	3.886	4.596	.033	.033	2	..	..	H1-1b
2	M43	0.5 Threa...	.650	.5	42	.088	.5	24	3.886	4.596	.033	.033	2	..	..	H1-1b
3	MP-8	PIPE 2.0	.649	.5	32	.150	3.25	32	27.327	32.13	1.872	1.872	2	..	..	H1-1b
4	MP-2	PIPE 2.0	.647	.5	22	.148	3.25	22	27.327	32.13	1.872	1.872	1	..	..	H1-1b
5	M42	0.5 Threa...	.646	.5	47	.090	.5	32	3.886	4.596	.033	.033	2	..	..	H1-1b
6	M30	0.5 Threa...	.645	.5	37	.088	.5	22	3.886	4.596	.033	.033	2	..	..	H1-1b
7	M31	0.5 Threa...	.643	.5	48	.087	.5	30	3.886	4.596	.033	.033	2	..	..	H1-1b
8	M55	0.5 Threa...	.640	.5	37	.084	.5	19	3.886	4.596	.033	.033	2	..	..	H1-1b
9	MP-6	PIPE 2.0	.624	3.167	30	.131	6.167	29	18.908	32.13	1.872	1.872	1	..	..	H1-1b
10	MP-3	PIPE 2.0	.621	3.167	25	.139	6.167	24	18.908	32.13	1.872	1.872	2	..	..	H1-1b
11	MP-5	PIPE 2.0	.619	.5	27	.144	3.25	27	27.327	32.13	1.872	1.872	2	..	..	H1-1b
12	MP-7	PIPE 2.0	.596	6.167	23	.133	6.167	23	19.964	32.13	1.872	1.872	1	..	..	H1-1b
13	MP-1	PIPE 2.0	.577	6.167	29	.129	6.167	28	19.964	32.13	1.872	1.872	1	..	..	H1-1b
14	MP-9	PIPE 2.0	.576	6.167	18	.129	6.167	18	19.964	32.13	1.872	1.872	1	..	..	H1-1b
15	MP-4	PIPE 2.0	.574	6.167	18	.128	6.167	18	19.964	32.13	1.872	1.872	1	..	..	H1-1b
16	M51	0.5 Threa...	.562	.5	47	.036	.5	34	3.886	4.596	.033	.033	2	..	..	H1-1b
17	M39	0.5 Threa...	.562	.5	37	.037	.5	40	3.886	4.596	.033	.033	2	..	..	H1-1b
18	M27	0.5 Threa...	.561	.5	42	.037	.5	45	3.886	4.596	.033	.033	2	..	..	H1-1b
19	M38	0.5 Threa...	.561	.5	36	.038	.5	48	3.886	4.596	.033	.033	2	..	..	H1-1b
20	M50	0.5 Threa...	.560	.5	47	.037	.5	43	3.886	4.596	.033	.033	2	..	..	H1-1b
21	M26	0.5 Threa...	.560	.5	42	.037	.5	37	3.886	4.596	.033	.033	2	..	..	H1-1b
22	SA-3	HSS4X4X4	.557	0	23	.138	0	21	72.966	106.155	12.311	12.311	2	..	..	H1-1b



Company : Tower Engineering Professionals, Inc.
 Designer : NPD
 Job Number : TEP No. 47567.451774
 Model Name : CCI BU No.806382

Nov 12, 2020
 9:57 AM
 Checked By: CKL

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

Member	Shape	Code Check	Locf...	LC	Shea...	Locf...	Dir	LC	Pn[k]	Tn[k]	Mny[k-ft]	Mnz[k-ft]	Cb	Cmy	Cmz	Eqn
23	SA-1	HSS4X4X4	.542	0	29	.138	0	28	72.966	106.155	12.311	12.311	2	..	..	H1-1b
24	SA-2	HSS4X4X4	.521	0	18	.135	0	31	72.966	106.155	12.311	12.311	2	..	..	H1-1b
25	FF-TH	PIPE 3.0	.399	5.396	25	.079	5.396	20	5.173	65.205	5.749	5.749	2	..	..	H1-1a
26	SRC-2	L2.5x2.5x4	.395	1.284	28	.145	0	27	37.689	38.556	1.114	2.537	2	..	..	H2-1
27	SRC-1	L2.5x2.5x4	.389	1.284	33	.152	0	33	37.689	38.556	1.114	2.537	2	..	..	H2-1
28	SRC-3	L2.5x2.5x4	.385	1.284	22	.150	0	22	37.689	38.556	1.114	2.537	2	..	..	H2-1
29	SF1-TH	PIPE 3.0	.357	5.396	29	.078	5.396	25	5.173	65.205	5.749	5.749	1	..	..	H1-1a
30	FF-HRK	PIPE 2.5	.351	11.8	9	.193	12.8	33	2.632	50.715	3.596	3.596	2	..	..	H1-1b
31	SF2-TH	PIPE 3.0	.349	8.604	23	.079	5.396	31	5.173	65.205	5.749	5.749	1	..	..	H1-1a
32	SF2-HRK	PIPE 2.5	.347	11.8	14	.191	12.8	22	2.632	50.715	3.596	3.596	2	..	..	H1-1b
33	SF1-HRK	PIPE 2.5	.342	11.8	4	.194	12.8	28	2.632	50.715	3.596	3.596	2	..	..	H1-1b
34	CP-3	PL6x1/2	.309	.625	24	.124	.625	27	76.578	94.5	.984	11.813	1	..	..	H1-1b
35	CP-1	PL6x1/2	.295	.625	28	.129	.625	32	76.578	94.5	.984	11.813	1	..	..	H1-1b
36	GSI-2A	HSS4X4X4	.281	2.766	33	.111	.461	23	104.512	106.155	12.311	12.311	1	..	..	H1-1b
37	GSI-2B	HSS4X4X4	.279	0	18	.109	2.305	29	104.512	106.155	12.311	12.311	1	..	..	H1-1b
38	CP-2	PL6x1/2	.270	.625	33	.126	.625	22	76.578	94.5	.984	11.813	1	..	..	H1-1b
39	GSI-3B	HSS4X4X4	.266	0	24	.122	2.334	18	104.512	106.155	12.311	12.311	1	..	..	H1-1b
40	GSI-1A	HSS4X4X4	.259	2.766	28	.123	.432	18	104.512	106.155	12.311	12.311	1	..	..	H1-1b
41	GSI-3A	HSS4X4X4	.257	2.766	23	.109	.432	29	104.512	106.155	12.311	12.311	1	..	..	H1-1b
42	GSI-1B	HSS4X4X4	.253	0	29	.111	2.334	23	104.512	106.155	12.311	12.311	1	..	..	H1-1b
43	GSIP-3B	L2x2x4	.205	2.186	24	.007	0	42	12.06	29.736	.672	1.431	1	..	..	H2-1
44	GSIP-1A	L2x2x4	.197	2.097	27	.006	4.282	42	12.06	29.736	.672	1.456	1	..	..	H2-1
45	GSIP-3A	L2x2x4	.192	2.097	23	.006	4.282	37	12.06	29.736	.672	1.426	1	..	..	H2-1
46	GSIP-1B	L2x2x4	.188	2.186	29	.007	0	47	12.06	29.736	.672	1.426	1	..	..	H2-1
47	GSIP-2A	L2x2x4	.136	2.092	33	.007	0	34	12.569	29.736	.672	1.43	1	..	..	H2-1
48	GSIP-2B	L2x2x4	.132	2.092	19	.008	4.183	34	12.569	29.736	.672	1.43	1	..	..	H2-1
49	M29	PL2x1/2	.107	.25	21	.086	.25	42	29.583	32.4	.338	1.35	1	..	..	H1-1b
50	M41	PL2x1/2	.107	.25	32	.086	.25	37	29.583	32.4	.338	1.35	1	..	..	H1-1b
51	M53	PL2x1/2	.106	.25	26	.086	.25	47	29.583	32.4	.338	1.35	1	..	..	H1-1b
52	MP-RRH2	PIPE 2.0	.081	3	23	.007	3	23	19.964	32.13	1.872	1.872	1	..	..	H1-1b
53	MP-RRH1	PIPE 2.0	.081	3	29	.007	3	29	19.964	32.13	1.872	1.872	1	..	..	H1-1b
54	M33	PL2x1/2	.074	.25	29	.098	.25	37	29.583	32.4	.338	1.35	1	..	..	H1-1b
55	M57	PL2x1/2	.072	.25	18	.100	.25	47	29.583	32.4	.338	1.35	1	..	..	H1-1b
56	M45	PL2x1/2	.072	.25	23	.099	.25	42	29.583	32.4	.338	1.35	1	..	..	H1-1b
57	MP-8B	PIPE 2.0	.059	1.5	32	.017	.25	32	23.088	32.13	1.872	1.872	1	..	..	H1-1b
58	MP-5B	PIPE 2.0	.058	1.5	27	.017	.25	26	23.088	32.13	1.872	1.872	1	..	..	H1-1b
59	MP-2B	PIPE 2.0	.058	1.5	21	.017	.25	21	23.088	32.13	1.872	1.872	1	..	..	H1-1b
60	M32	PL2x1/2	.054	.25	28	.093	0	37	29.583	32.4	.338	1.35	1	..	..	H1-1b
61	M56	PL2x1/2	.052	.25	33	.094	.5	42	29.583	32.4	.338	1.35	1	..	..	H1-1b
62	M44	PL2x1/2	.051	.25	19	.093	.5	34	29.583	32.4	.338	1.35	1	..	..	H1-1b
63	M28	PL2x1/2	.050	.25	20	.084	.5	41	29.583	32.4	.338	1.35	1	..	..	H1-1b
64	M52	PL2x1/2	.049	.25	25	.084	0	47	29.583	32.4	.338	1.35	1	..</		

APPENDIX D
ADDITIONAL CALCULATIONS



**TOWER
ENGINEERING
PROFESSIONALS**

CCI BU No. 806382

TEP No. 47567.451774

Analysis By: NPD 11/12/2020

Checked By: CKL 11/12/2020

Moment Bolt Group -Support Arm

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

Connection Inputs:

Bolt Size:	0.625	in
# Bolts:	4	
Plate Width:	10.000	in
Plate Height:	10.00	in
Bolt H Gap:	7.0000	in
Bolt V Gap:	7.000	in
Plate T:	0.625	in
Slip Member Ø:	N/A	in
Bolt Grade:	A325N	

Capacities:

Bolt Capacity=	31.8%	PASS
Plate Capacity=	60.5%	PASS
Weld Capacity=	67.4%	PASS

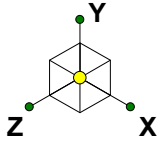
Bolt Properties:

$F_{y\text{bolt}}$:	92.0	ksi
$F_{u\text{bolt}}$:	120.0	ksi
r:	4.9	in
J:	98.0	in ⁴ /in ²
A_{bolt} :	0.3	in ²
$A_{\text{bolt, Net Tensile}}$:	0.2	in ²
Pretension:	19.0	kips

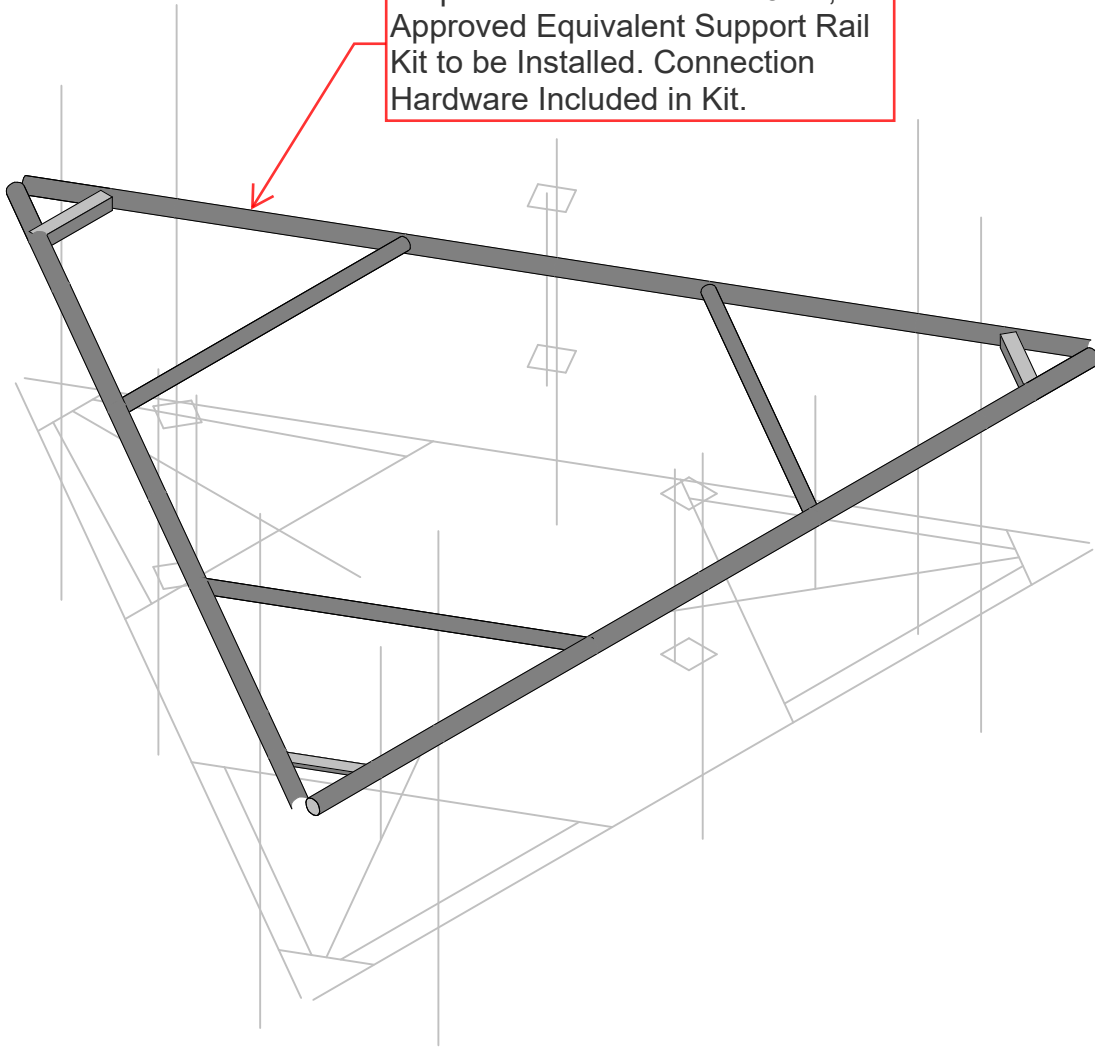
Member Properties:

Member Shape:	Flat	
Plate F_y :	36.0	ksi
Plate F_u :	58.0	ksi
Member Height:	4.0	in
Member Width:	4.0	in
Weld Strength:	70.0	ksi
Weld Size:	0.2500	in
S_{weld} :	5.7060	in ³
A_{weld} :	4.2500	in ²
ϕR_n :	47.2500	ksi
R_u :	14.5613	ksi
Base Metal Strength:	21.6	ksi

APPENDIX E
MOUNT MODIFICATION DESIGN DRAWINGS

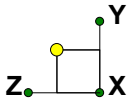


Proposed SitePro HRK14-3HD, or Approved Equivalent Support Rail Kit to be Installed. Connection Hardware Included in Kit.

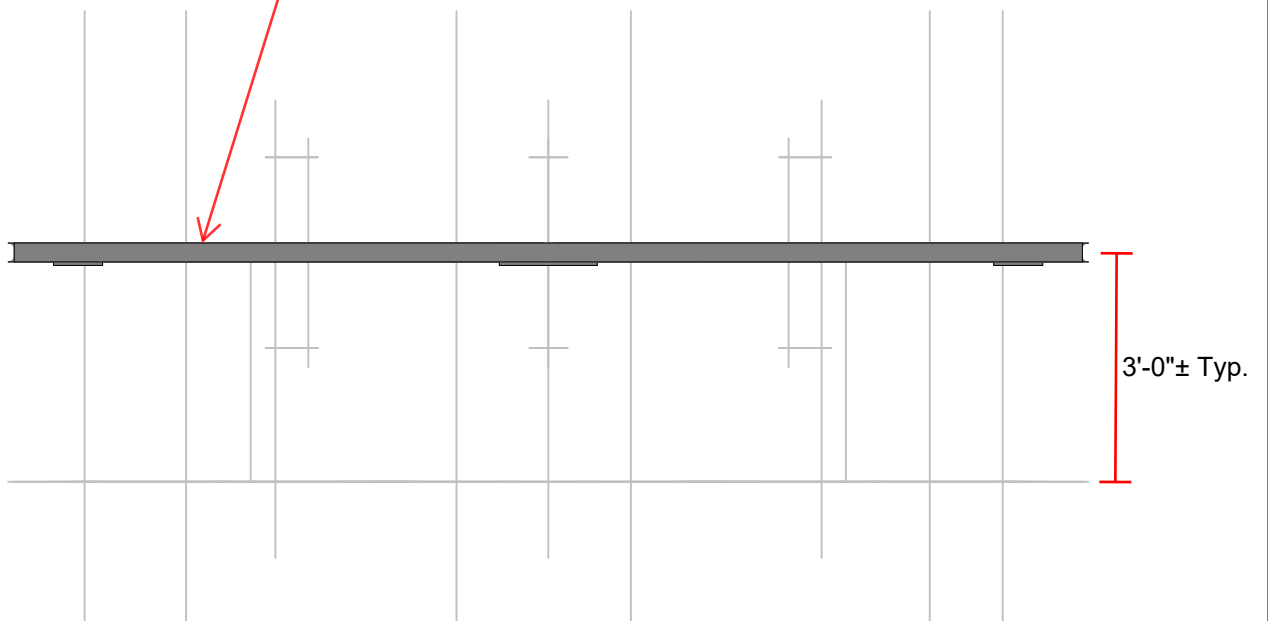


Envelope Only Solution

Tower Engineering Profes...	CCI BU No.806382	SK - 7
NPD		Nov 12, 2020 at 9:57 AM
TEP No. 47567.451774		Mount Rev H.r3d

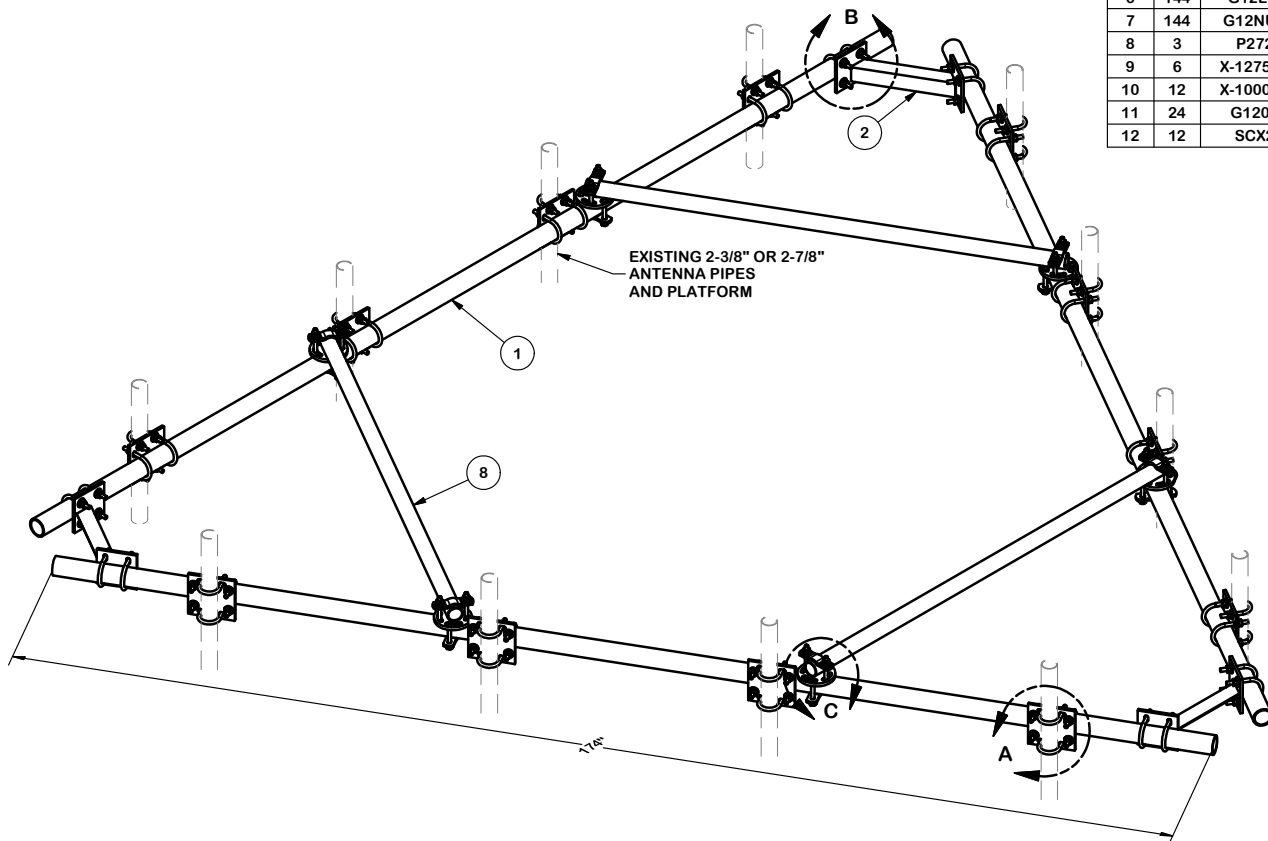


Proposed SitePro HRK14-3HD, or Approved Equivalent Support Rail Kit to be Installed. Connection Hardware Included in Kit.

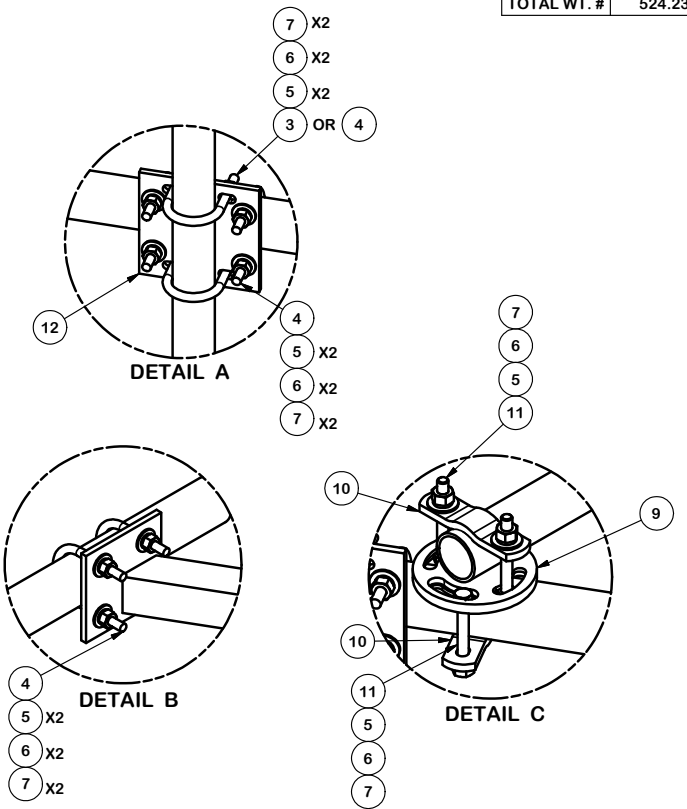


Envelope Only Solution

Tower Engineering Profes...	CCI BU No.806382	SK - 8
NPD		Nov 12, 2020 at 9:57 AM
TEP No. 47567.451774		Mount Rev H.r3d



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



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

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

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

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

Exhibit F

Power Density/RF Emissions Report

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

AT&T Existing Facility

Site ID: 806382

CTV5836

74 Goodrich Lane
Portland, Connecticut 06480

December 9, 2020

EBI Project Number: 6220006190

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	17.41%

December 9, 2020

Emissions Analysis for Site: 806382 - CTV5836

EBI Consulting was directed to analyze the proposed AT&T facility located at **74 Goodrich Lane** in **Portland, Connecticut** for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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

Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed AT&T Wireless antenna facility located at 74 Goodrich Lane in Portland, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 4 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 2) 4 LTE FN channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 3) 2 UMTS channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 4) 4 LTE/5G channels (850 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 4 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 6) 4 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 7) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC

- OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
 - 9) The antennas used in this modeling are the Powerwave 7770 for the 850 MHz channel(s), the CCI OPA65R-BU6DA for the 700 MHz / 1900 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2100 MHz channel(s) in Sector A, the Powerwave 7770 for the 850 MHz channel(s), the CCI OPA65R-BU6DA for the 700 MHz / 1900 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2100 MHz channel(s) in Sector B, the Powerwave 7770 for the 850 MHz channel(s), the CCI OPA65R-BU6DA for the 700 MHz / 1900 MHz channel(s), the CCI DMP65R-BU6DA for the 700 MHz / 850 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
 - 10) The antenna mounting height centerline of the proposed antennas is 120 feet above ground level (AGL).
 - 11) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
 - 12) All calculations were done with respect to uncontrolled / general population threshold limits.

AT&T Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Powerwave 7770	Make / Model:	Powerwave 7770	Make / Model:	Powerwave 7770
Frequency Bands:	850 MHz	Frequency Bands:	850 MHz	Frequency Bands:	850 MHz
Gain:	11.5 dBd	Gain:	11.5 dBd	Gain:	11.5 dBd
Height (AGL):	120 feet	Height (AGL):	120 feet	Height (AGL):	120 feet
Channel Count:	2	Channel Count:	2	Channel Count:	2
Total TX Power (W):	80 Watts	Total TX Power (W):	80 Watts	Total TX Power (W):	80 Watts
ERP (W):	1,130.03	ERP (W):	1,130.03	ERP (W):	1,130.03
Antenna A1 MPE %:	0.50%	Antenna B1 MPE %:	0.50%	Antenna C1 MPE %:	0.50%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	CCI OPA65R-BU6DA	Make / Model:	CCI OPA65R-BU6DA	Make / Model:	CCI OPA65R-BU6DA
Frequency Bands:	700 MHz / 1900 MHz	Frequency Bands:	700 MHz / 1900 MHz	Frequency Bands:	700 MHz / 1900 MHz
Gain:	12.15 dBd / 15.95 dBd	Gain:	12.15 dBd / 15.95 dBd	Gain:	12.15 dBd / 15.95 dBd
Height (AGL):	120 feet	Height (AGL):	120 feet	Height (AGL):	120 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts
ERP (W):	8,921.74	ERP (W):	8,921.74	ERP (W):	8,921.74
Antenna A2 MPE %:	2.98%	Antenna B2 MPE %:	2.98%	Antenna C2 MPE %:	2.98%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA	Make / Model:	CCI DMP65R-BU6DA
Frequency Bands:	700 MHz / 850 MHz / 2100 MHz	Frequency Bands:	700 MHz / 850 MHz / 2100 MHz	Frequency Bands:	700 MHz / 850 MHz / 2100 MHz
Gain:	11.85 dBd / 12.45 dBd / 15.95 dBd	Gain:	11.85 dBd / 12.45 dBd / 15.95 dBd	Gain:	11.85 dBd / 12.45 dBd / 15.95 dBd
Height (AGL):	120 feet	Height (AGL):	120 feet	Height (AGL):	120 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	480 Watts	Total TX Power (W):	480 Watts	Total TX Power (W):	480 Watts
ERP (W):	11,559.22	ERP (W):	11,559.22	ERP (W):	11,559.22
Antenna A3 MPE %:	4.12%	Antenna B3 MPE %:	4.12%	Antenna C3 MPE %:	4.12%

Site Composite MPE %	
Carrier	MPE %
AT&T (Max at Sector A):	7.59%
Verizon	4.04%
Clearwire	0.1%
Sprint	2.7%
T-Mobile	2.98%
Site Total MPE % :	17.41%

AT&T MPE % Per Sector	
AT&T Sector A Total:	7.59%
AT&T Sector B Total:	7.59%
AT&T Sector C Total:	7.59%
Site Total MPE % :	17.41%

AT&T Maximum MPE Power Values (Sector A)

AT&T Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
AT&T 850 MHz UMTS	2	565.02	120.0	2.82	850 MHz UMTS	567	0.50%
AT&T 700 MHz LTE FN	4	656.24	120.0	6.55	700 MHz LTE FN	467	1.40%
AT&T 1900 MHz LTE	4	1574.20	120.0	15.72	1900 MHz LTE	1000	1.57%
AT&T 700 MHz LTE	4	612.43	120.0	6.12	700 MHz LTE	467	1.31%
AT&T 850 MHz LTE/5G	4	703.17	120.0	7.02	850 MHz LTE/5G	567	1.24%
AT&T 2100 MHz LTE	4	1574.20	120.0	15.72	2100 MHz LTE	1000	1.57%
						Total:	7.59%

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the AT&T facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

AT&T Sector	Power Density Value (%)
Sector A:	7.59%
Sector B:	7.59%
Sector C:	7.59%
AT&T Maximum MPE % (Sector A):	7.59%
Site Total:	17.41%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **17.41%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.