CROWN CASTLE

1 Cityplace Dr, Suite 490

Creve Coeur, MO 63141

Phone: (314) 513-0147

www.crowncastle.com

May 26, 2022

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

RE: **Notice of Exempt Modification for AT&T**
Crown Site ID #801367; AT&T Site ID#CTL05263
1121 Summit Road Cheshire, Connecticut 06410
Latitude: 41.536444/ Longitude: -72.957306

Dear Ms. Bachman:

AT&T currently maintains nine (9) antennas at the 160-foot mounts on the existing 167-foot Monopole Tower located at 1121 Summit Road Cheshire. The property is owned by Timothy Didomizio and tower is owned by Crown Castle. AT&T now intends to replace nine (9) antennas and add three (3) antennas. This modification/proposal includes hardware that is both 4G(LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Planned Modifications:

Tower:

REMOVE AND REPLACE

(3) Andrew – SBNH-1D6565C Antennas (**REMOVE**), (3) QUINTEL - QD8616-7 Antennas (**REPLACE**)

(3) CCI - TPA-65R-LCUUUU-H8 Antennas (**REMOVE**), (3) Ericsson – AIR6449 B77D Antennas (antennas stacked) and Ericsson – AIR6419 B77G Antennas (antennas stacked) (**REPLACE**)

(3) POWERWAVE - 7770Antennas (**REMOVE**), (3) CCI - DMP65R-BU8DA Antennas (**REPLACE**)

REMOVE

(3) ERICSSON - RRUS-11 B12 RADIOS
(6) POWERWAVE - LGP21401 TMAS
(6) CCI - TPX-070821 TRIPLEXERS
(6) 1-5/8" COAX CABLE

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RELOCATE
(3) ERICSSON - RRUS-32 B2
(3) RRUS-32-B30 RADIOS

INSTALL
(3) SITE PRO1 - PM1 STAND-OFF MOUNTS
(6) DUAL RADIO MOUNTS
(3) ERICSSON - 4478 B14 RADIOS
(3) ERICSSON - 4426 B66 RADIOS
(3) ERICSSON - 4449 B5/B12 RADIOS
(1) RAYCAP - DC9-48-60-24-8C-EV SQUID
(3) 7/8" 6AWG DC CABLES
(1) 3/8" 24-PAIR FIBER CABLE
Y-CABLES ON NEW DUAL BAND RADIOS

Ground:

REMOVE:
(1) GSM CABINET
(6) CCI - TPX-070821 TRIPLEXERS
(6) POWERWAVE - LGP21903 DIPLEXERS

INSTALL:
(1) 6630 W/ IDLe
(1) 6648 W/ XCEDE
(4) RECTIFIERS IN EXISTING POWER PLANT
(4) BATTERIES IN EXISTING BATTERY RACK
(1) 23" FIF RACK
(1) DC12-48-60-RM IN NEW 23" FIF RACK
(1) 4-WAY GPS SPLITTER FOR BBU CONFIGURATION

The Facility was approved by Connecticut Siting Council Docket 199 on April 12, 2001.

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 Tim Slocum, Chairman of the Town of Cheshire, Michael Glidden, Town Planner for the Town of Cheshire and the property owner.

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

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

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

4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

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

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. §16-50j-72(b)(2).

Sincerely,

Colin Robinson

Colin Robinson
Project Manager
NETWORK BUILDING + CONSULTING
100 Apollo Drive Suite 303
Chelmsford, MA 01824
crobinson@nbcllc.com
(360) 561-3311

cc:

Tim Slocum, Chairman *(Via Federal Express)*
Town of Cheshire Town Hall
84 South Main Street
Cheshire, CT 06410
203 271-6670

Michael Glidden, Town Planner *(Via Federal Express)*
Town of Cheshire Town Hall
84 South Main Street
Cheshire, CT 06410
203 271-6670

Timothy DiDomizio *(Via Federal Express)*
1119 Summit Road
Cheshire, CT 06410

Colin Robinson

From: TrackingUpdates@fedex.com
Sent: Friday, May 27, 2022 10:11 AM
To: Colin Robinson
Subject: FedEx Shipment 776968259193: Your package has been delivered

Hi. Your package was delivered Fri, 05/27/2022 at 10:01am.

Delivered to 84 S MAIN ST, CHESHIRE, CT 06410
Received by J.OTLOWSKI

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	776968259193
FROM	NB+C 100 Apollo Dr. Suite 303 CHELMSFORD, MA, US, 01824
TO	Town of Cheshire Town Hall Michael Glidden, Town Planner

	84 South Main Street CHESHIRE, CT, US, 06410
REFERENCE	100788 NB+C
SHIPPER REFERENCE	100788 NB+C
SHIP DATE	Thu 5/26/2022 06:47 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	CHELMSFORD, MA, US, 01824
DESTINATION	CHESHIRE, CT, US, 06410
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Colin Robinson

From: TrackingUpdates@fedex.com
Sent: Friday, May 27, 2022 10:11 AM
To: Colin Robinson
Subject: FedEx Shipment 776968207120: Your package has been delivered

Hi. Your package was delivered Fri, 05/27/2022 at 10:01am.

Delivered to 84 S MAIN ST, CHESHIRE, CT 06410
Received by J.OTLOWSKI

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER	776968207120
FROM	NB+C 100 Apollo Dr. Suite 303 CHELMSFORD, MA, US, 01824
TO	Town of Cheshire Town Hall Tim Slocum, Chairman

	84 South Main Street CHESHIRE, CT, US, 06410
REFERENCE	100788 NB+C
SHIPPER REFERENCE	100788 NB+C
SHIP DATE	Thu 5/26/2022 06:47 PM
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DESTINATION	CHESHIRE, CT, US, 06410
SPECIAL HANDLING	Deliver Weekday
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	1.00 LB
SERVICE TYPE	FedEx Priority Overnight

Exhibit A

Original Facility Approval

Connecticut Siting Council (/CSC)

DOCKET NO. 199 - Crown Atlantic Company LLC and Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a cellular telecommunications facility at 1119 Summit Road, Cheshire, Connecticut.	} } }	Connecticut Siting Council April 12, 2001

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility at the proposed alternate site in Cheshire, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Crown Atlantic Company LLC and Cellco Partnership d/b/a Verizon Wireless for the construction, maintenance and operation of a cellular telecommunications facility at the proposed alternate site located at 1119 Summit Road, Cheshire, Connecticut. We deny certification of the proposed prime site located at 1119 Summit Road, Cheshire, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of AT&T, Voicestream, Sprint, the Town of Cheshire and other entities, both public and private, but such tower shall not exceed a height of 170 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include: a final site plan(s) for site development to include the location and specifications for the tower, tower foundation, antennas, a single equipment building capable to house all proposed users including the Town of Cheshire, security fence, access road, utility line, and landscaping plan. The D&M Plan shall also include construction plans to be submitted prior to construction for site clearing, water drainage, and erosion and sedimentation control consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall provide a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

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

6. If the facility does not initially provide, or permanently ceases to provide cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and ceases to function.

8. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant, The Cheshire Herald, The Waterbury Republican-American and The Record Journal.

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

The parties and intervenors to this proceeding are:

Crown Atlantic Company LLC And Cellco Partnership d/b/a Verizon Wireless	Robert Stanford, Project Manager Crown Atlantic Company LLC 703 Hebron Avenue Glastonbury, CT 06033 Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597
AT&T Wireless Services, Inc.	Anthony B. Gioffre III, Esq. Cuddy & Feder & Worby 90 Maple Avenue White Plains, NY 10601

Exhibit B

Property Card

Town of Cheshire, CT

Property Listing Report

Map Block Lot	24 2	Building #	1	Unique Identifier	00087800

Property Information

Property Location	1119 SUMMIT RD
Mailing Address	1119 SUMMIT ROAD CHESHIRE CT 06410
Land Use	Residential
Zoning Code	R-80
Neighborhood	2B

Owner	DIDOMIZIO TIMOTHY
Co-Owner	
Book / Page	2850/ 331
Land Class	Residential
Census Tract	3432
Acreage	22.52

Valuation Summary

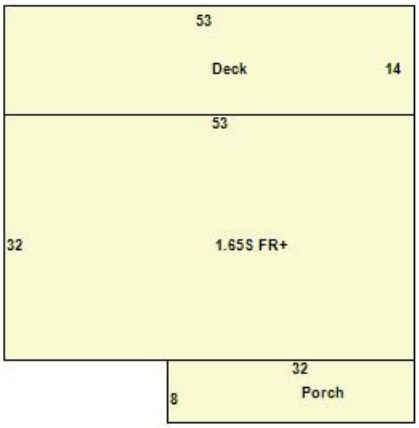
(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	543472	380430
Outbuildings	5880	4120
Land	572860	252980
T	1122212	637530

Utility Information

Electric	No
Gas	No
Sewer	No
Public Water	No
ll	Yes

0087800 03/08/2012



Primary Construction Details

Year Built	2018
Building Desc.	Residential
Building Style	Cape
Stories	1.65
Exterior Walls	Vinyl
Exterior Walls 2	
Interior Walls	Drywall
Interior Walls 2	
Interior Floors 1	Hardwood
Interior Floors 2	

Heating Fuel	Propane
Heating Type	FHA
AC Type	Central
Bedrooms	4
Full Bathrooms	2
Half Bathrooms	1
Extra Fixtures	0
Total Rooms	8
Bath Style	NA
Kitchen Style	Modern
Occupancy	1

Building Use	Single Family
Building Condition	Average
Frame Type	Wood Frame
Fireplaces	1
Bsmt Gar	2
Fin Bsmt Area	
Fin Bsmt Quality	
Building Grade	-10
Roof Style	Gable
Roof Cover	Arch Shingles

Report Created On 5/24/2022

Town of Cheshire, CT

Property Listing Report | Map Block Lot 24 2 | Building # 1 | Unique Identifier 00087800

Detached Outbuildings

Type	Description	Area (sq ft)	Condition	Year Built
Fencing	Fencing	1600	Average	2002

Attached Extra Features

Type	Description	Area (sq ft)	Condition	Year Built
Porch	Open	256	Average	2018
Deck	Wood	742	Average	2019

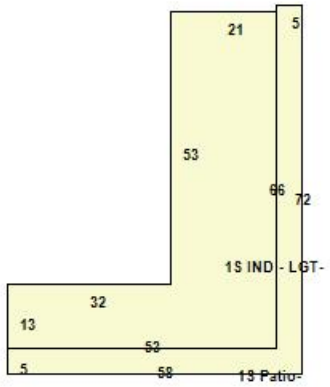
Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
DIDOMIZIO TIMOTHY	2850_ 331	5/21/2018	0
DIDOMIZIO M JOANNE	798_ 74	4/3/2017	0

Report Created On 5/24/2022

Town of Cheshire, CT

Property Listing Report | Map Block Lot 24 2 | Building # 2 | Unique Identifier 00087800



Primary Construction Details

Year Built	2002
Building Desc.	Light Industrial
Building Style	
Stories	1.00
Exterior Walls	Stone
Exterior Walls 2	
Interior Walls	
Interior Walls 2	
Interior Floors 1	
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	
Occupancy	0

Building Use	Commercial
Building Condition	Average
Frame Type	Good
Fireplaces	0
Bsmt Gar	0
Fin Bsmt Area	
Fin Bsmt Quality	
Building Grade	0
Roof Style	Flat
Roof Cover	

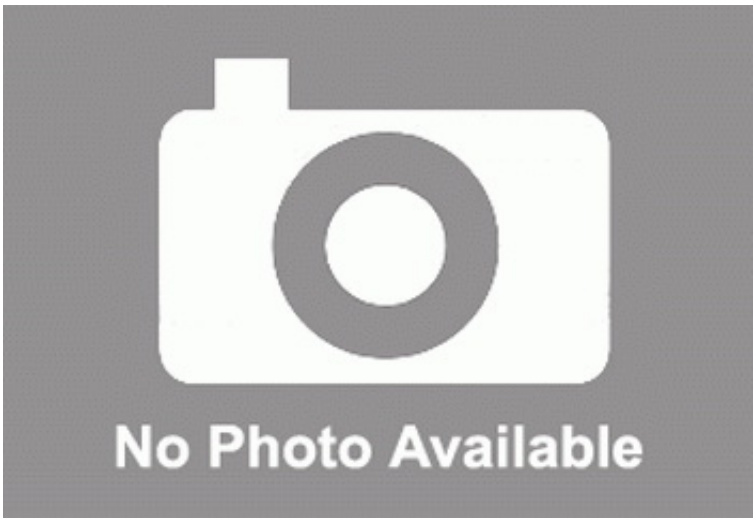
Attached Extra Features

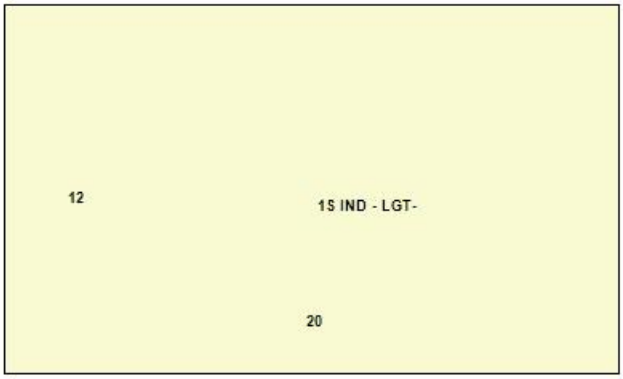
Type	Description	Area (sq ft)	Condition	Year Built
Patio	Concrete	625	Average	2002

Report Created On 5/24/2022

Town of Cheshire, CT

Property Listing Report | Map Block Lot 24 2 | Building # 3 | Unique Identifier 00087800





Primary Construction Details

Year Built	2004
Building Desc.	Light Industrial
Building Style	
Stories	1.00
Exterior Walls	Concrete Block
Exterior Walls 2	
Interior Walls	
Interior Walls 2	
Interior Floors 1	
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	
Occupancy	0

Building Use	Commercial
Building Condition	Average
Frame Type	Good
Fireplaces	0
Bsmt Gar	0
Fin Bsmt Area	
Fin Bsmt Quality	
Building Grade	0
Roof Style	Flat
Roof Cover	

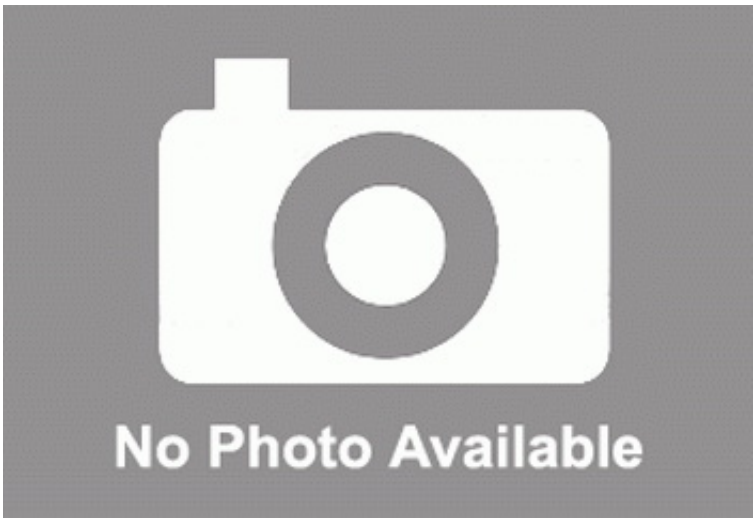
Attached Extra Features

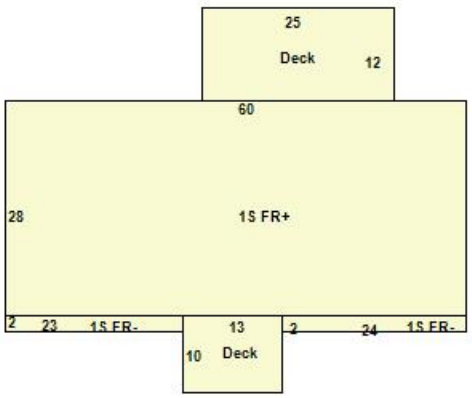
Type	Description	Area (sq ft)	Condition	Year Built

Report Created On 5/24/2022

Town of Cheshire, CT

Property Listing Report | Map Block Lot 24 2 | Building # 4 | Unique Identifier 00087800





Primary Construction Details

Year Built	1990
Building Desc.	Single Family
Building Style	Ranch
Stories	1.00
Exterior Walls	Clapboards
Exterior Walls 2	
Interior Walls	
Interior Walls 2	
Interior Floors 1	Hardwood
Interior Floors 2	

Heating Fuel	Oil
Heating Type	FHA
AC Type	
Bedrooms	2
Full Bathrooms	3
Half Bathrooms	1
Extra Fixtures	0
Total Rooms	7
Bath Style	NA
Kitchen Style	
Occupancy	1

Building Use	Residential
Building Condition	Average
Frame Type	Wood Frame
Fireplaces	0
Bsmt Gar	2
Fin Bsmt Area	
Fin Bsmt Quality	
Building Grade	-5
Roof Style	Gable
Roof Cover	Asphalt

Attached Extra Features

Type	Description	Area (sq ft)	Condition	Year Built
Deck	Wood	130	Average	1990
Deck	Wood	300	Average	1990

Report Created On 5/24/2022

Exhibit C

Construction Drawings

AT&T

AT&T SITE NUMBER:	**CTL05263**	**BUSINESS UNIT #:**	**801367**
AT&T SITE NAME:	**CHESHIRE LARSENS POND**	**SITE ADDRESS:**	**1121 SUMMIT ROAD CHESHIRE, CT 06410**
AT&T FA CODE:	**10090892**	**COUNTY:**	**NEW HAVEN**
AT&T PACE NUMBER:	**MRCTB056782, MRCTB054165, MRCTB054972, MRCTB056679, MRCTB055597, MRCTB055781, MRCTB053791**	**SITE TYPE:**	**MONOPOLE**
AT&T PROJECT:	**LTE 4C, 5G NR 1SR, 5G NR 1SR CBAND, 5G NR 1SR CBAND, 4TX4RX SOFTWARE RETROFIT, 5G NR 1DR-1, 5G NR ACTIVATION**	**TOWER HEIGHT:**	**167'-0"**

SITE INFORMATION

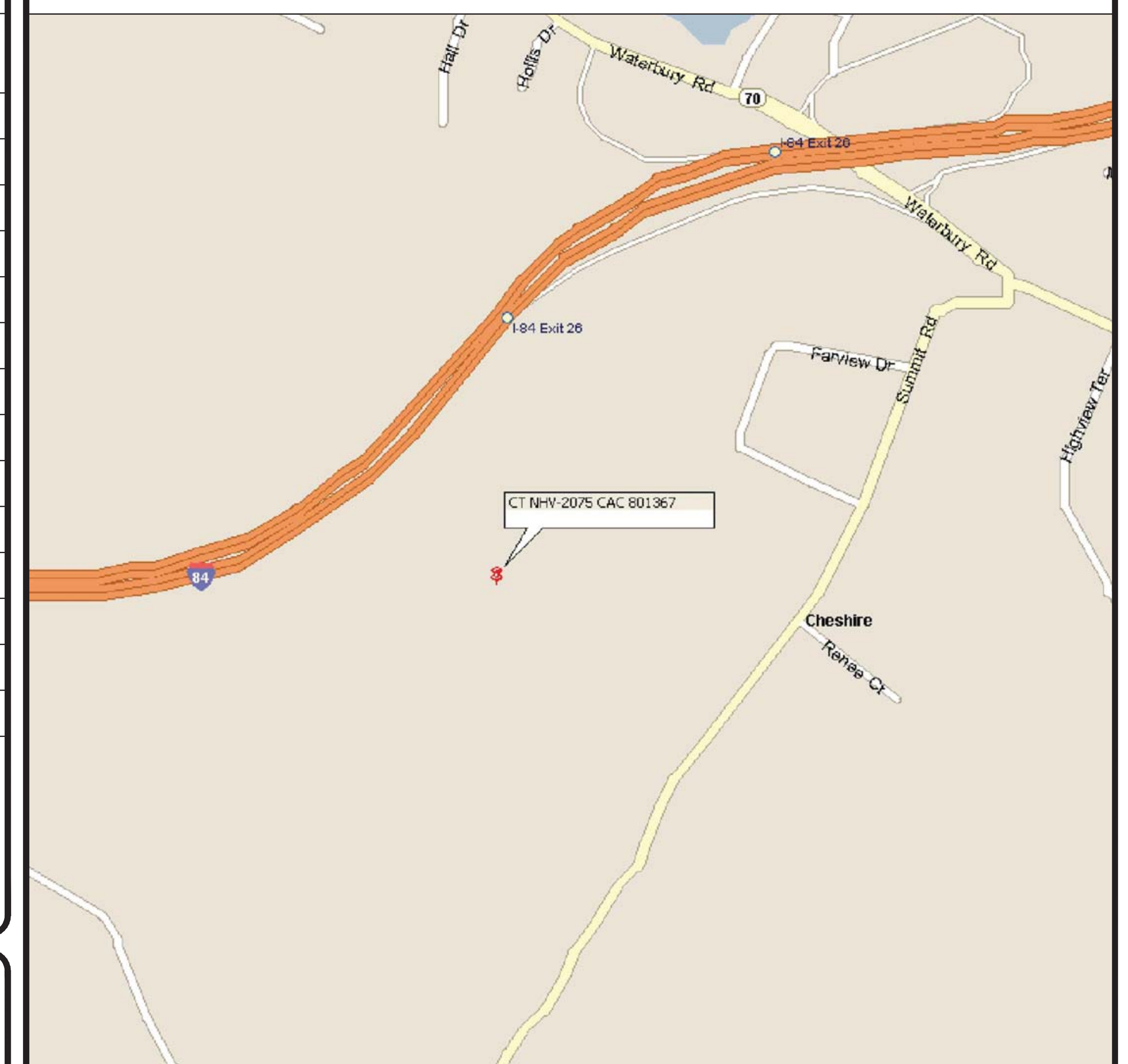
CROWN CASTLE USA INC. SITE NAME:	CT NHV-2075 CAC 801367
SITE ADDRESS:	1121 SUMMIT ROAD CHESHIRE, CT 06410
COUNTY:	NEW HAVEN
MAP/PARCEL #:	24-2
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.536444
LONGITUDE:	-72.957306
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	634'
CURRENT ZONING:	R-80
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	DIDOMIZIO TIMOTHY 1119 SUMMIT ROAD CHESHIRE, CT 06410
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:	CONNECTICUT LIGHT & POWER CO (860) 947-2000
TELCO PROVIDER:	LIGHTOWER (855) 91-FIBER

DRAWING INDEX

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. 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!

LOCATION MAP



NO SCALE

SITE PHOTO

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS MARVIN.PHILLIPS@BTGRP.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 PAUL PEDICONE - PROJECT MANAGER PAUL.PEDICONE@CROWNCASTLE.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.D'AMICO@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:
- REMOVE (3) ANDREW - SBNH-1D6565C ANTENNAS
- REMOVE (3) CCI - TPA-65R-LCUUUU-H8 ANTENNAS
- REMOVE (3) POWERWAVE - 7770 ANTENNAS
- REMOVE (3) ERICSSON - RRUS-11 B12 RADIOS
- REMOVE (6) POWERWAVE - LGP21401 TMAS
- REMOVE (6) CCI - TPX-070821 TRIPLEXERS
- REMOVE (6) 1-5/8" COAX CABLE
- RELOCATE (3) ERICSSON - RRUS-32 B2 & (3) RRUS-32-B30 RADIOS
- INSTALL (3) SITE PRO1 - PM1 STAND-OFF MOUNTS
- INSTALL (6) DUAL RADIO MOUNTS
- INSTALL (3) QUINTEL - QD8616-7 ANTENNAS
- INSTALL (6) ERICSSON - AIR 6449 B77D (BELOW) + AIR 6419 B77G (ABOVE) STACKED ANTENNAS
- INSTALL (3) CCI - DMP65R-BU8DA ANTENNAS
- INSTALL (3) ERICSSON - 4478 B14 RADIOS
- INSTALL (3) ERICSSON - 4426 B66 RADIOS
- INSTALL (3) ERICSSON - 4449 B5/B12 RADIOS
- INSTALL (1) RAYCAP - DC9-48-60-24-8C-EV SQUID
- INSTALL (3) 7/8" 6AWG DC CABLES
- INSTALL (1) 3/8" 24-PAIR FIBER CABLE
- INSTALL Y-CABLES ON NEW DUAL BAND RADIOS

GROUND SCOPE OF WORK:
- REMOVE RETIRED GSM CABINET
- INSTALL (1) 6630 W/ IDLe & (1) 6648 W/ XCEDE
- INSTALL (4) RECTIFIERS IN EXISTING POWER PLANT
- INSTALL (4) BATTERIES IN EXISTING BATTERY RACK
- INSTALL (1) 23" FIF RACK
- INSTALL (1) DC12-48-60-RM IN NEW 23" FIF RACK
- INSTALL (1) 4-WAY GPS SPLITTER FOR BBU CONFIGURATION
- REMOVE (6) CCI - TPX-070821 TRIPLEXERS
- REMOVE (6) POWERWAVE - LGP21903 DIPLEXERS

NOTE:
THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

APPLICABLE CODES/REFERENCE DOCUMENTS

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

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

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	B+T GROUP
DATED:	12/31/21
MOUNT ANALYSIS:	TEP
DATED:	12/27/21
AC ELECTRICAL POWER DESIGN:	BY OTHERS
DATED:	
RFDS REVISION:	PRELIMINARY
DATED:	5/2/22
ORDER ID:	586310
REVISION:	0

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

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

AT&T SITE NUMBER:
CTL05263

BU #: **801367**
CT NHV-2075 CAC 801367

1121 SUMMIT ROAD
CHESHIRE, CT 06410

EXISTING
167'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/31/21	KT	PRELIMINARY REVIEW	KT
B	2/23/22	TDG	PRELIMINARY REVIEW	KT
C	3/31/22	TDG	PRELIMINARY REVIEW	LR
0	5/12/22	TDG	CONSTRUCTION	LR

5/12/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. 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. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "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: PINCHING 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.
3. 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.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN 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).
5. 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."
6. 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 SUCH CHANGE OF INSTALLATION.
7. 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.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. 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.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. 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.
13. 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.
14. 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.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. 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.
18. 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.
19. 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.
20. 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.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. 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.

GENERAL NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. 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 SUCH CHANGE OF INSTALLATION.
11. 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.
12. 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.
13. 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.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. 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.
4. 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.
5. 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
6. 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"
7. 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.

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTAL 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.
3. 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.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. 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.
20. ALL GROUNDS 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).
21. 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).

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
   4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
   4.2. 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. VERYIFY 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.
5. 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.
6. 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).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. 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.
10. 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.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. 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.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. 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 LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "AT&T".
30. 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
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

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

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

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
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

AT&T

575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP

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

AT&T SITE NUMBER:
CTL05263

BU #: **801367**
CT NHV-2075 CAC 801367

1121 SUMMIT ROAD
CHESHIRE, CT 06410

EXISTING
167'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/31/21	KT	PRELIMINARY REVIEW	KT
B	2/23/22	TDG	PRELIMINARY REVIEW	KT
C	3/31/22	TDG	PRELIMINARY REVIEW	LR
0	5/12/22	TDG	CONSTRUCTION	LR

CHAD TUTTLE
No. 23924
5/12/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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SHEET NUMBER: T-2

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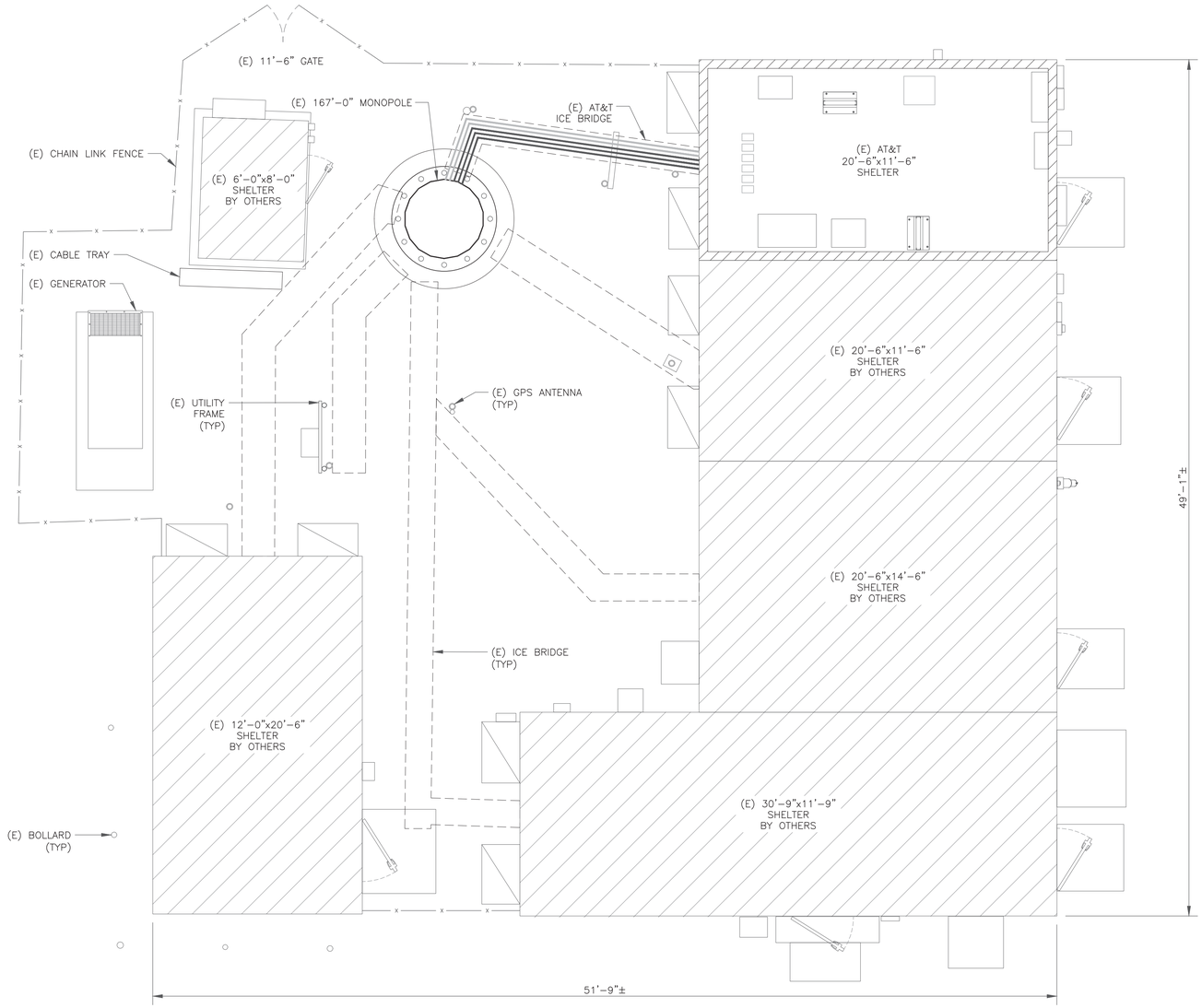

1 SITE PLAN

SCALE: 4' 3' 2' 1' 0 4' — 1/4"=1'-0" (FULL SIZE), 1/8"=1'-0" (11x17)

N

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STATE OF CONNECTICUT — GREGORY D. GOULET — No. 23924 — LICENSED PROFESSIONAL ENGINEER
5/12/22

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SHEET NUMBER: C-1.1

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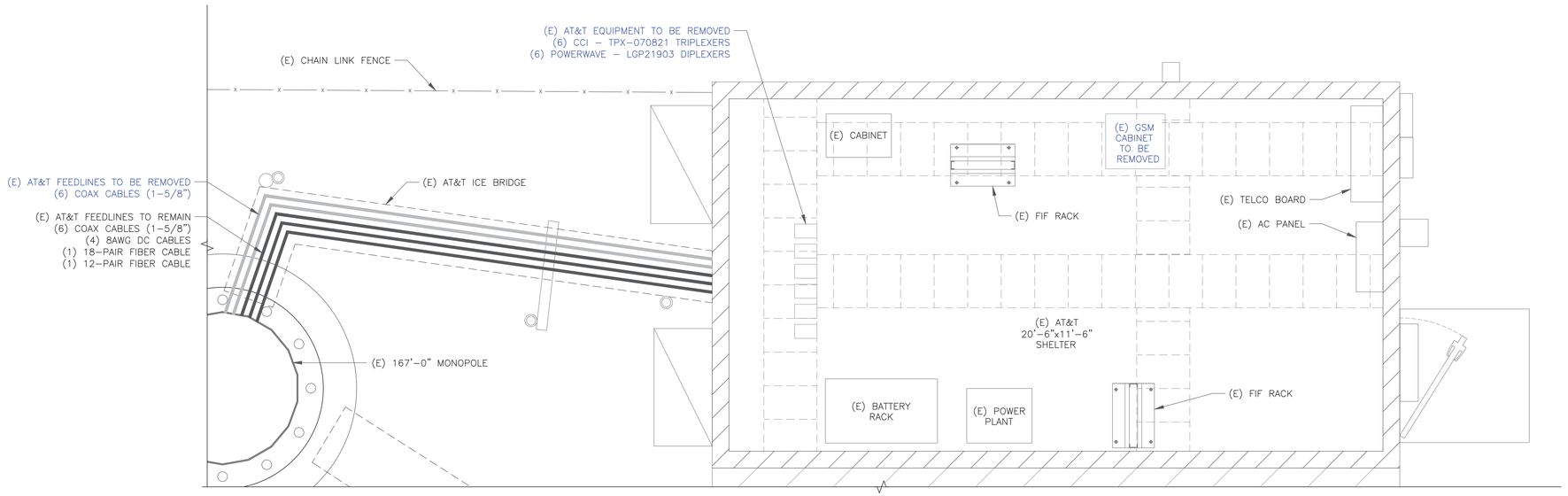
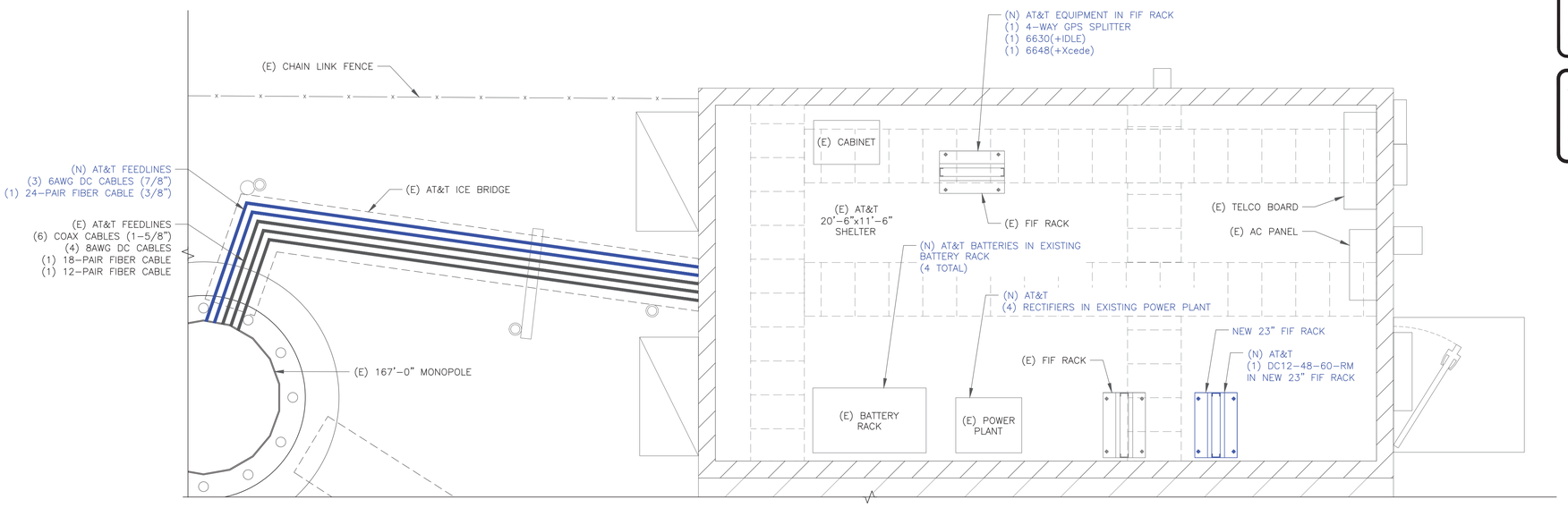


1 EXISTING EQUIPMENT PLAN

SCALE: 2' 1' 0 2' 1/2"=1'–0" (FULL SIZE) 1/4"=1'–0" (11x17)



2 FINAL EQUIPMENT PLAN

SCALE: 2' 1' 0 2' 1/2"=1'–0" (FULL SIZE) 1/4"=1'–0" (11x17)

GROUND SCOPE OF WORK:

- REMOVE RETIRED GSM CABINET
- INSTALL (1) 6630 W/ IDLe & (1) 6648 W/ XCEDE
- INSTALL (4) RECTIFIERS IN EXISTING POWER PLANT
- INSTALL (4) BATTERIES IN EXISTING BATTERY RACK
- INSTALL (1) 23" FIF RACK
- INSTALL (1) DC12–48–60–RM IN NEW 23" FIF RACK
- INSTALL (1) 4–WAY GPS SPLITTER FOR BBU CONFIGURATION
- REMOVE (6) CCI – TPX–070821 TRIPLEXERS
- REMOVE (6) POWERWAVE – LGP21903 DIPLEXERS

NOTE:

THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

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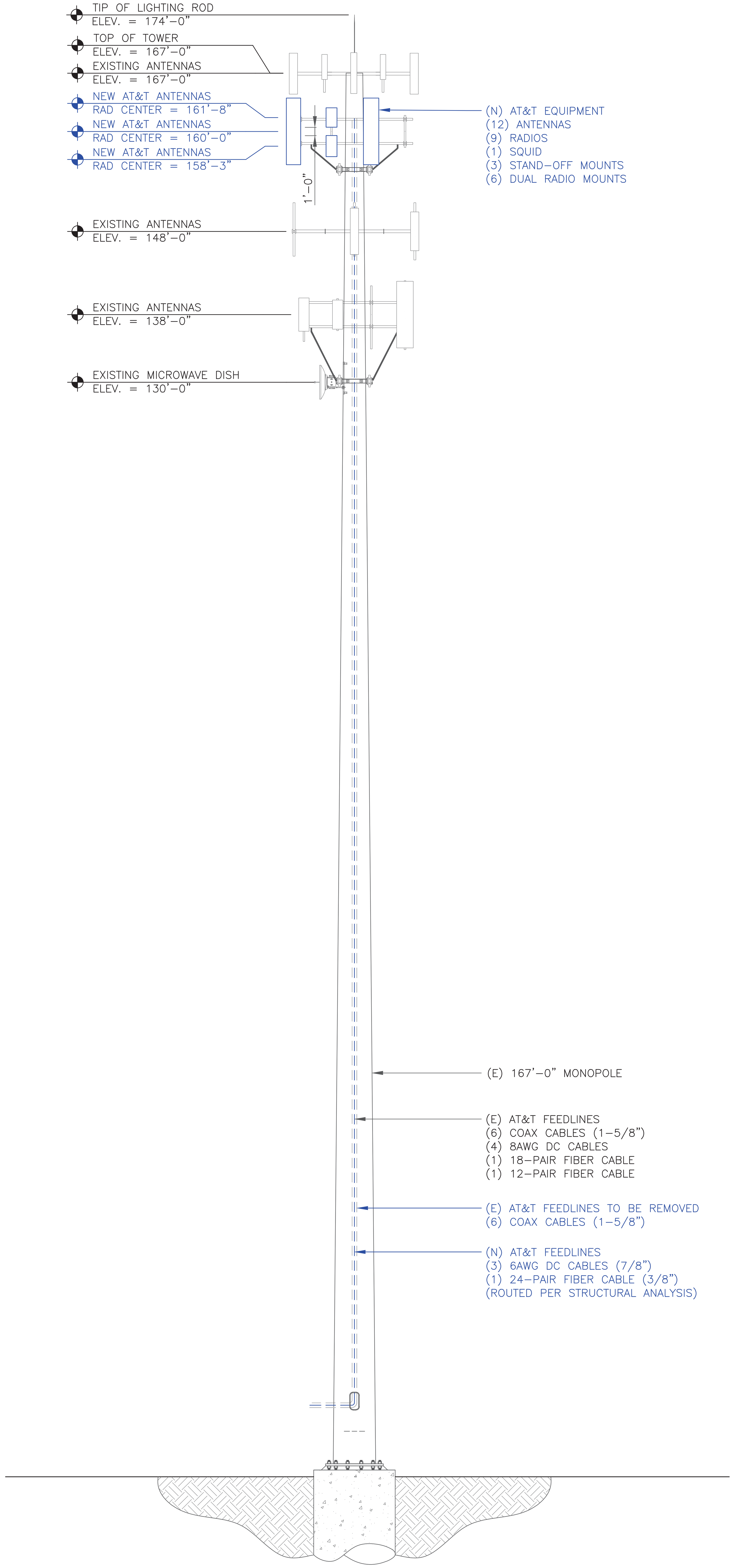
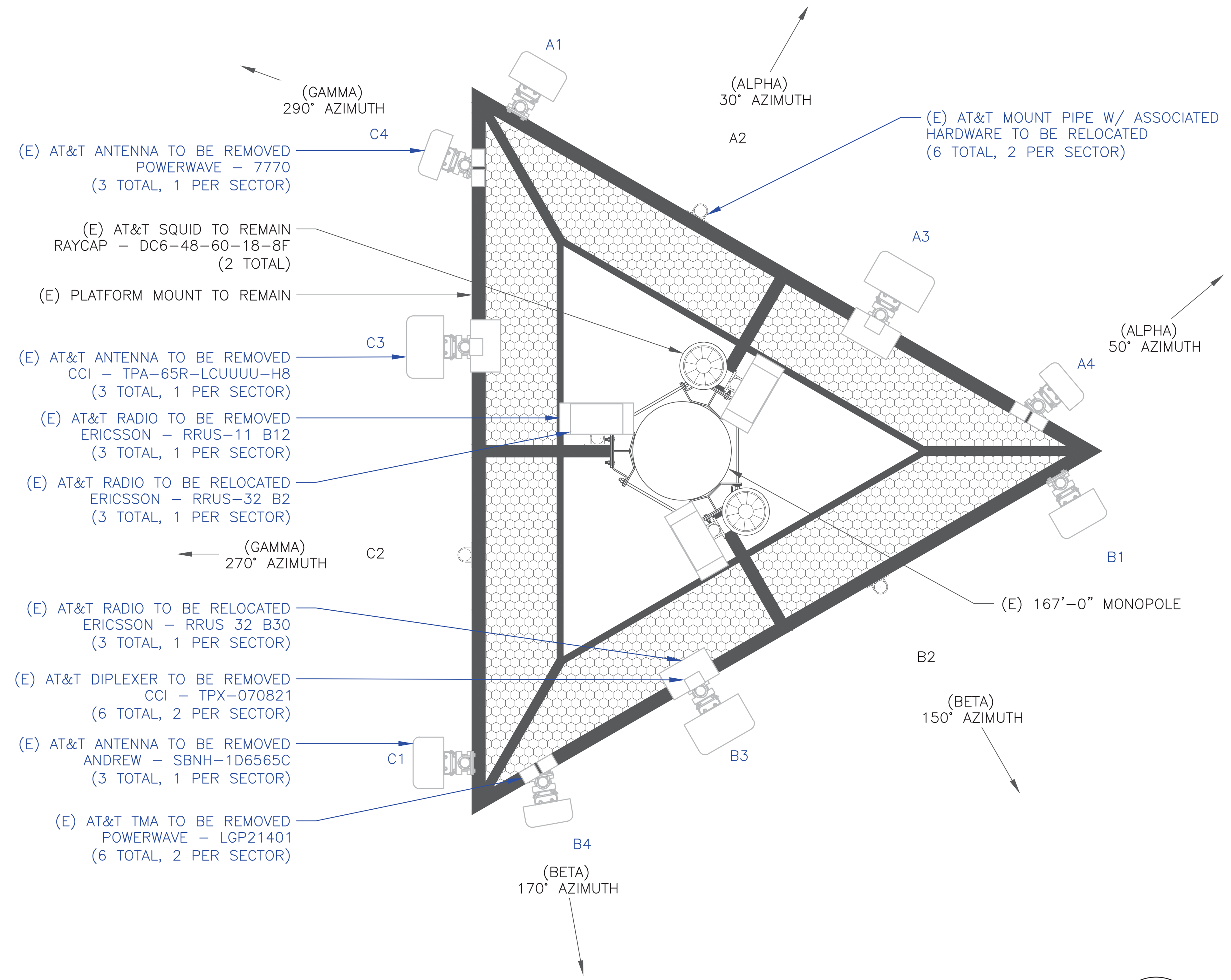
SHEET NUMBER: C-1.2

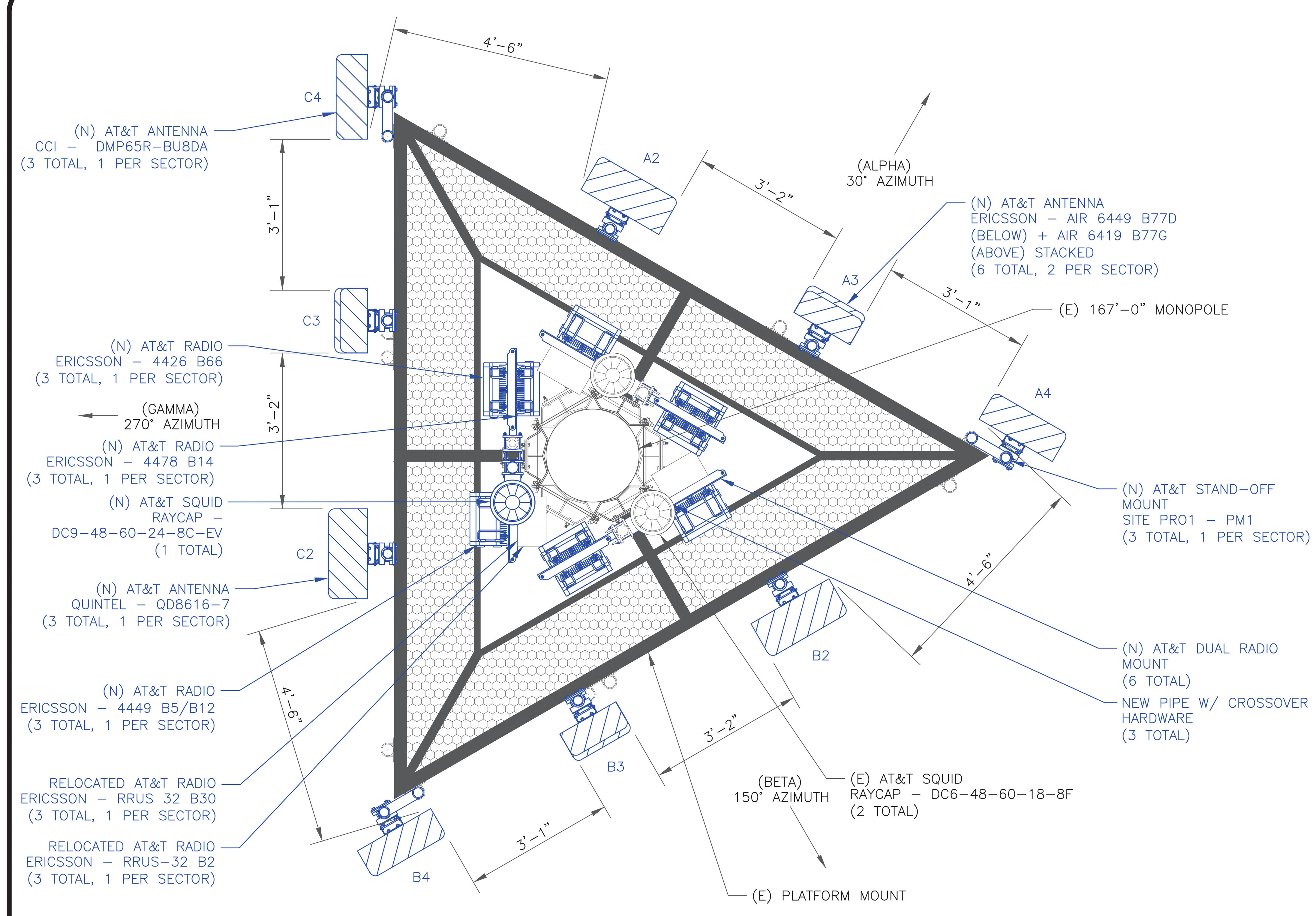
REVISION: 0



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)

"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: PINCHING 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.

INSTALLER NOTES:

1. REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
2. REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
3. CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
4. 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR.
5. 6'-0" MINIMUM DISTANCE REQUIRED BETWEEN 700BC & 700DE ANTENNAS ON SAME SECTOR.
6. 4'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE 700 ANTENNAS ON OPPOSING SECTORS.
7. ALL ANTENNA MEASUREMENT DISTANCES MUST BE EDGE TO EDGE (RELOCATE ANTENNAS AS NEEDED).
8. 8" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO. SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.

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AT&T SITE NUMBER:
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BU #: **801367**
CT NHV-2075 CAC 801367

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STATE OF CONNECTICUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
5/12/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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SHEET NUMBER:	REVISION:
C-2	0

NOTE: RFDS BEING USED
DATED 5/2/22 V
PRELIMINARY

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	–	–	–	–	–	–	–	–	–	–	–	(1)(E) DC6-48-60-18-8F	(2)(E) 8AWG DC CABLES (1)(E) 18-PAIR FIBER CABLE	–	TOWER	N	N	N
A2	LTE/5G	NEW	30°	QUINTEL – QD8616-7	160'-0"	–	3°/3°/3°/5°/5°/5°	–	–	–	–			(1) ERICSSON – 4478 B14 (1) ERICSSON – RRUS-32 B2 (1) ERICSSON – 4426 B66	TOWER	N	N	N
A3	5G CBAND; 5G 3.5GHz	NEW	30°	ERICSSON – AIR 6449 B77D (BELOW) + AIR 6419 B77G (ABOVE) STACKED	158'-3" 161'-8"	–	0° 0°	–	–	–	–			–	TOWER	N	N	N
A4	LTE/5G	NEW	30°	CCI – DMP65R-BU8DA	160'-0"	–	8°/3°/4°	–	–	–	–			(1) ERICSSON – 4449 B5/B12 (1) ERICSSON – RRUS 32 B30	TOWER	N	N	N
BETA SECTOR																		
B1	–	–	–	–	–	–	–	–	–	–	–	(1)(E) DC6-48-60-18-8F	(2)(E) 8AWG DC CABLES (1)(E) 12-PAIR FIBER CABLE	–	TOWER	N	N	N
B2	LTE/5G	NEW	150°	QUINTEL – QD8616-7	160'-0"	–	3°/3°/3°/5°/5°/5°	–	–	–	–			(1) ERICSSON – 4478 B14 (1) ERICSSON – RRUS-32 B2 (1) ERICSSON – 4426 B66	TOWER	N	N	N
B3	5G CBAND; 5G 3.5GHz	NEW	150°	ERICSSON – AIR 6449 B77D (BELOW) + AIR 6419 B77G (ABOVE) STACKED	158'-3" 161'-8"	–	0° 0°	–	–	–	–			–	TOWER	N	N	N
B4	LTE/5G	NEW	150°	CCI – DMP65R-BU8DA	160'-0"	–	8°/3°/4°	–	–	–	–			(1) ERICSSON – 4449 B5/B12 (1) ERICSSON – RRUS 32 B30	TOWER	N	N	N
GAMMA SECTOR																		
C1	–	–	–	–	–	–	–	–	–	–	–	(1)(N) DC9-48-60-24-8C-EV	(1)(N) 24-PAIR FIBER CABLE (3/8") (3)(N) 6AWG DC CABLES (7/8")	–	TOWER	N	N	N
C2	LTE/5G	NEW	270°	QUINTEL – QD8616-7	160'-0"	–	3°/3°/3°/5°/5°/5°	–	–	–	–			(1) ERICSSON – 4478 B14 (1) ERICSSON – RRUS-32 B2 (1) ERICSSON – 4426 B66	TOWER	N	N	N
C3	5G CBAND; 5G 3.5GHz	NEW	270°	ERICSSON – AIR 6449 B77D (BELOW) + AIR 6419 B77G (ABOVE) STACKED	158'-3" 161'-8"	–	0° 0°	–	–	–	–			–	TOWER	N	N	N
C4	LTE/5G	NEW	270°	CCI – DMP65R-BU8DA	160'-0"	–	8°/3°/4°	–	–	–	–			(1) ERICSSON – 4449 B5/B12 (1) ERICSSON – RRUS 32 B30	TOWER	N	N	N
							UNUSED FEEDLINES	1-5/8"	210'-0"	6								

NOTE: BLUE DENOTES NEW EQUIPMENT

1 FINAL ANTENNA AND FEEDLINE SCHEDULE
SCALE: NOT TO SCALE

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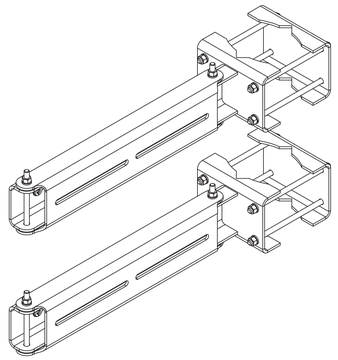
SHEET NUMBER: C-3

REVISION: 0

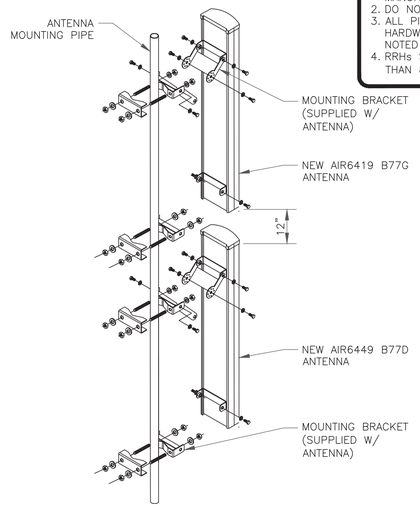


DUAL RADIO MOUNT
(2 SWIVEL MOUNTS PER KIT)

1 DUAL RADIO MOUNT
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. RRHs SHALL NOT BE INSTALLED CLOSER THAN 8" TO ANTENNAS.



2 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

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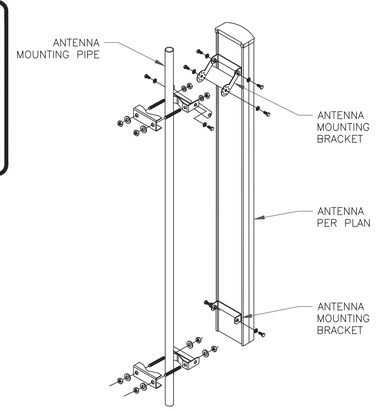
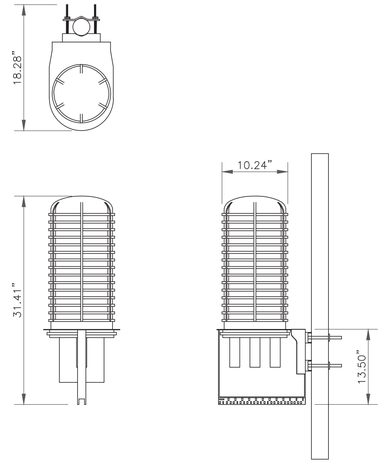


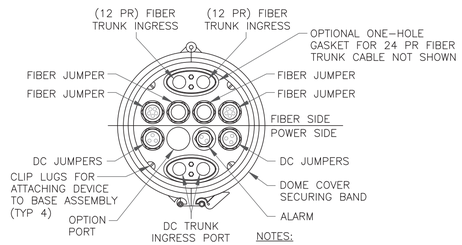
3 ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

RAYCAP
DC9-48-60-24-8C-EV

RAYCAP - DC9-48-60-24-8C-EV
SIZE: 10.24x31.40 IN.
WEIGHT: 26.2 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 330 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





NOTES:

1. 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.

6 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

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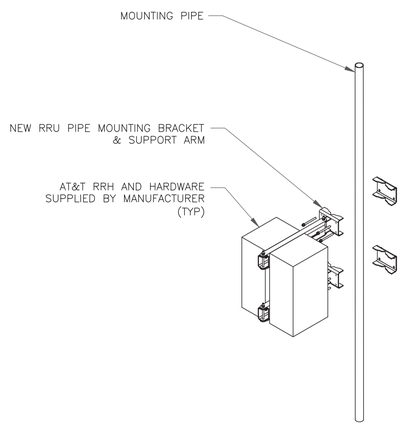
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
4. RRHs SHALL NOT BE INSTALLED CLOSER THAN 8" TO ANTENNAS.



4 DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

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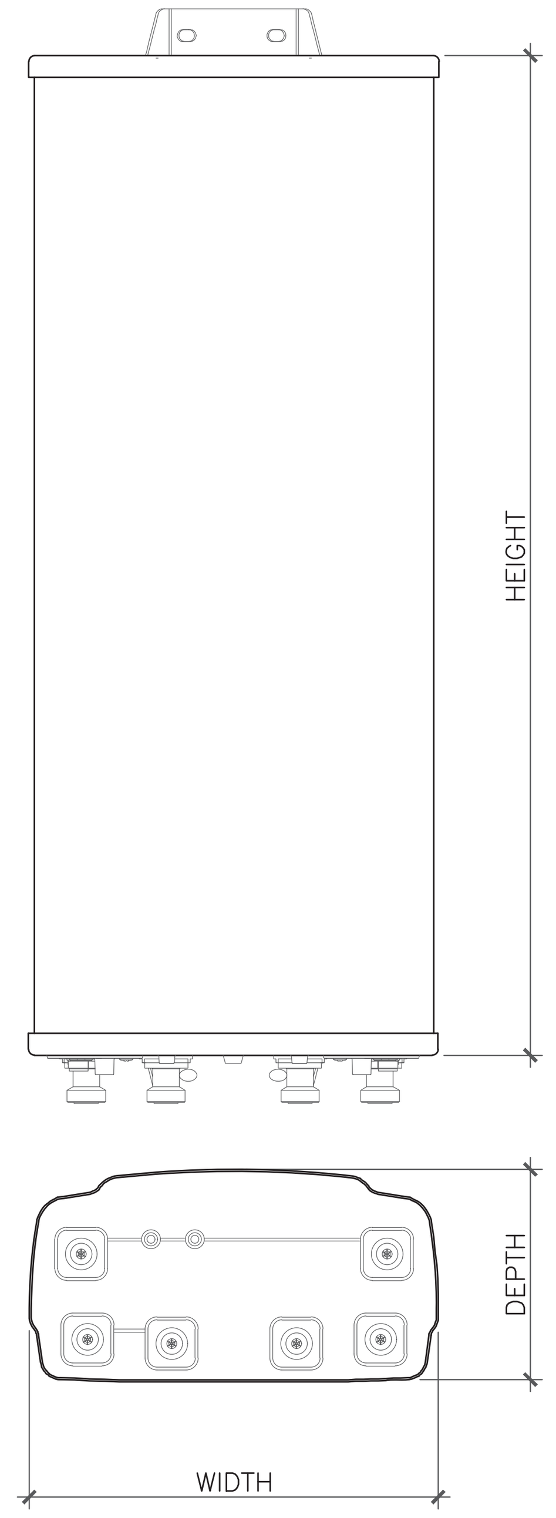
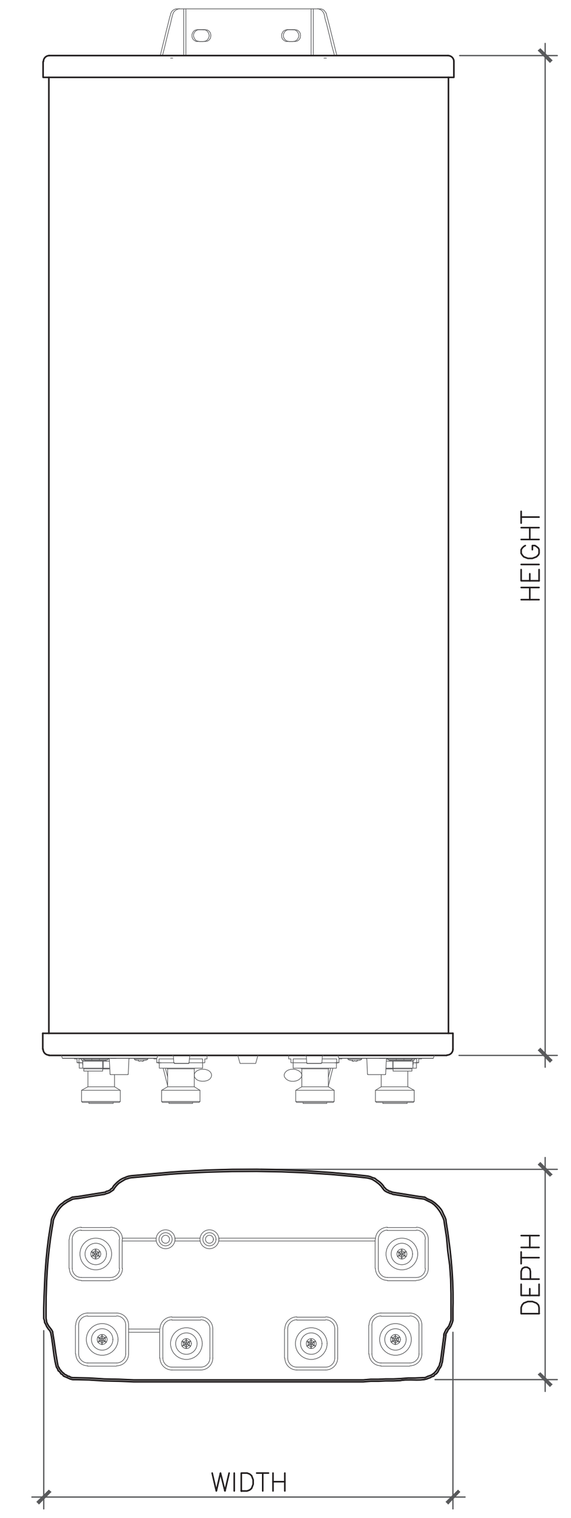
SHEET NUMBER: C-4

REVISION: 0



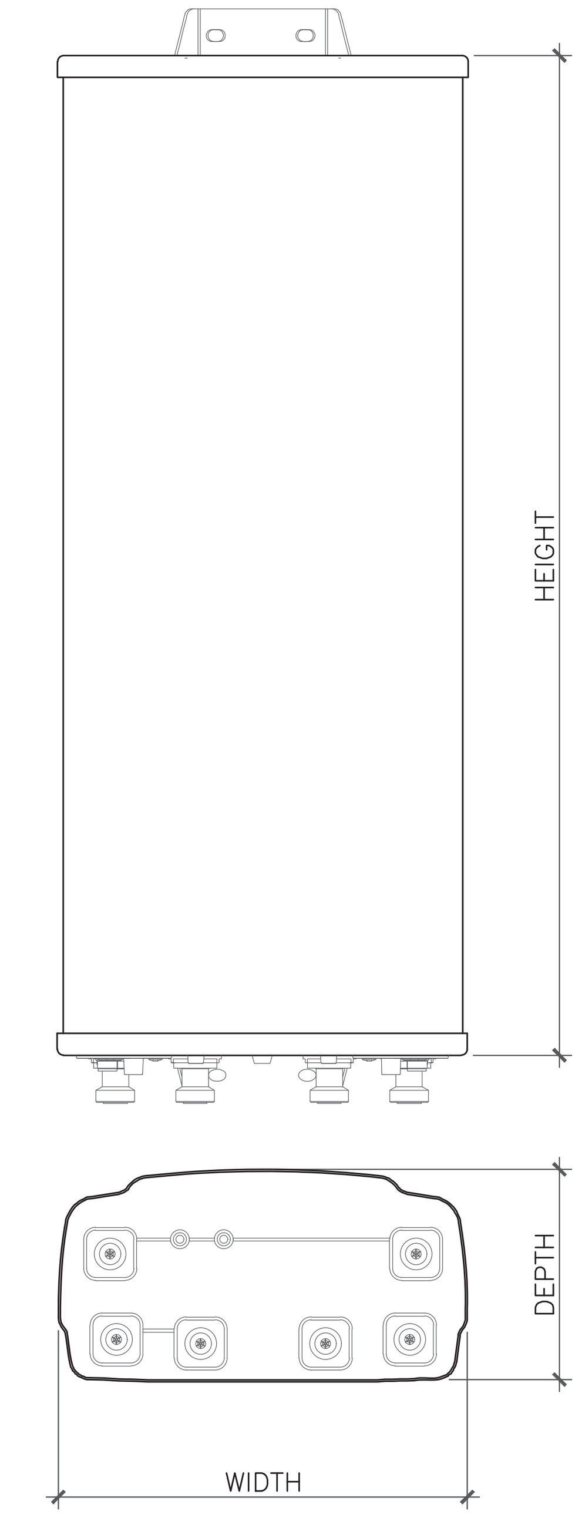
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU8D	96"	20.7"	7.7"	105.6 lbs

(1) ANTENNA DETAIL
SCALE: NOT TO SCALE



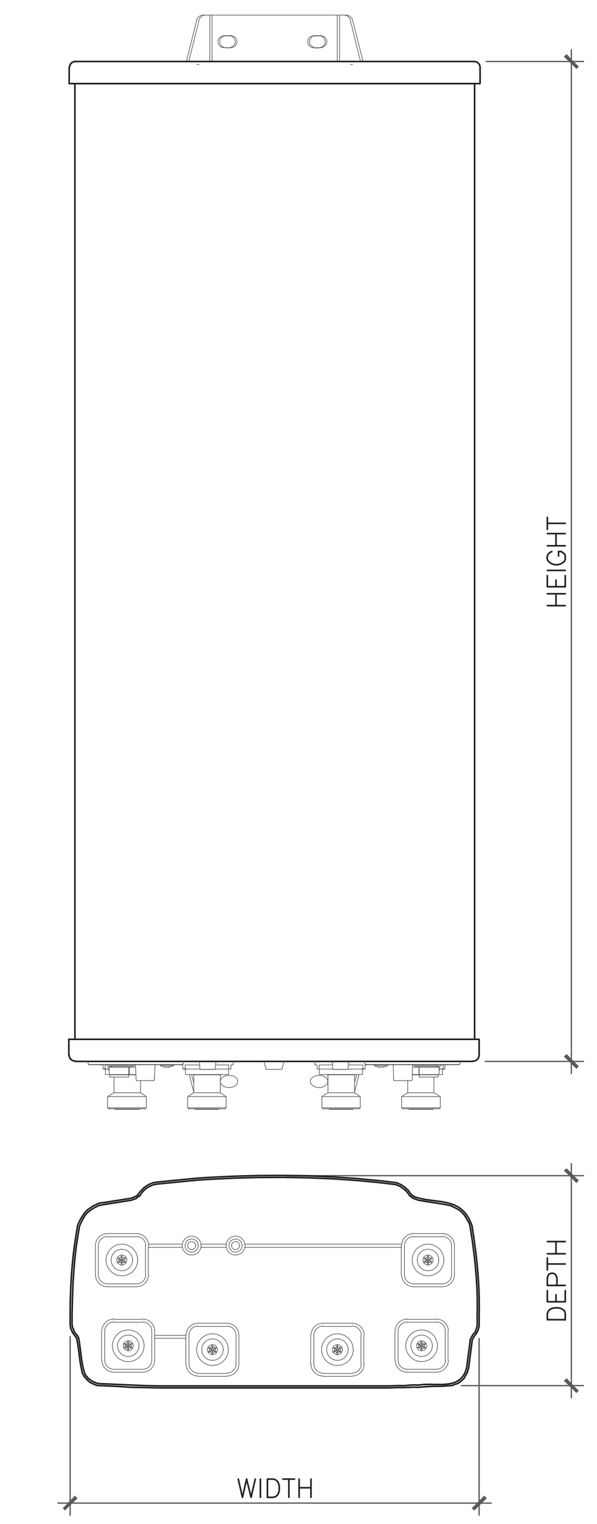
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR 6419 B77G	27.95"	15.75"	6.68"	66.2 lbs

(2) ANTENNA DETAIL
SCALE: NOT TO SCALE



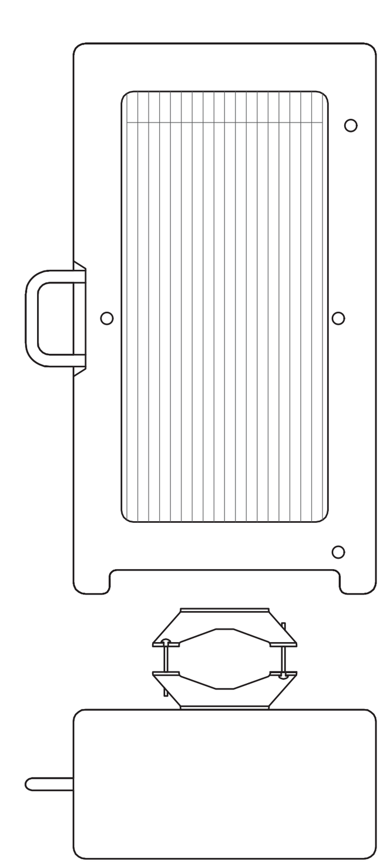
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
AIR 6449 B77D	30.39"	15.87"	8.07"	81.6 lbs

(3) ANTENNA DETAIL
SCALE: NOT TO SCALE



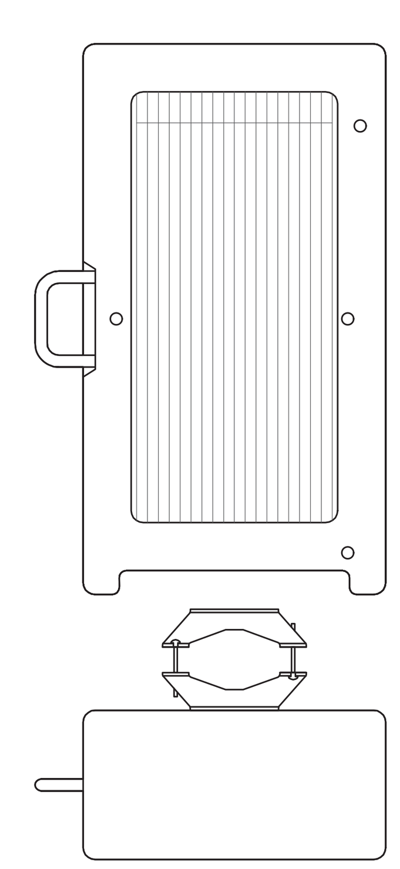
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
QD8616-7	96"	22"	9.6"	150 lbs

(4) ANTENNA DETAIL
SCALE: NOT TO SCALE



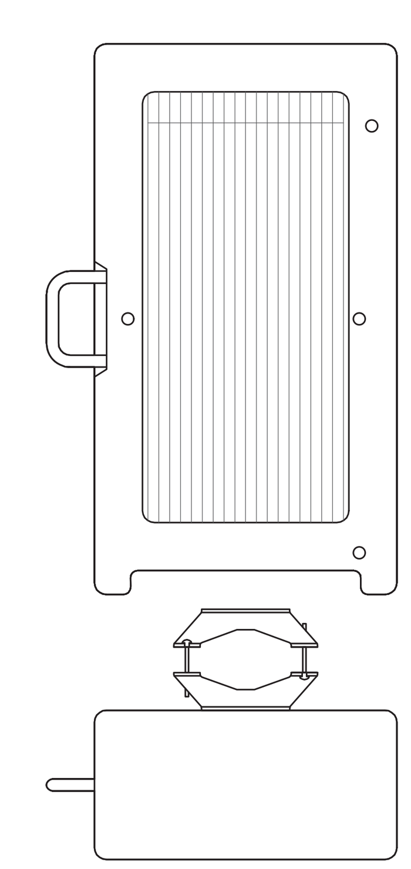
ERICSSON – 4478 B14
WEIGHT (FULLY EQUIPPED): 59.40 LBS
SIZE (HxWxD): 18.1x13.4x8.26IN.
CONNECTOR TYPE: 4.3–10 FEMALE (4 TOTAL PORTS)

(5) ERICSSON – 4478 B14
SCALE: NOT TO SCALE



ERICSSON – 4426 B66
WEIGHT (FULLY EQUIPPED): 48.4 LBS
SIZE (HxWxD): 14.96x13.19x5.8 IN.
CONNECTOR TYPE: 4.3–10 FEMALE (4 TOTAL PORTS)

(6) ERICSSON – 4426 B66
SCALE: NOT TO SCALE



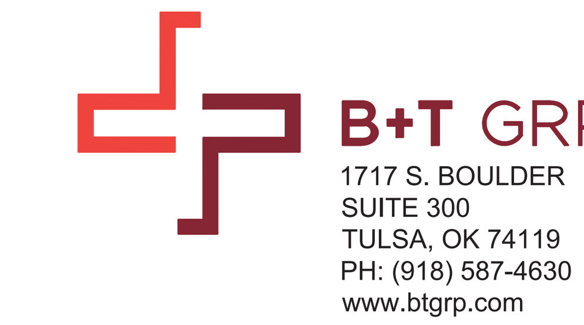
ERICSSON – 4449 B5/B12
WEIGHT (FULLY EQUIPPED): 71.0 LBS
SIZE (HxWxD): 17.9x13.19x9.44 IN.
CONNECTOR TYPE: 4.3–10 FEMALE (4 TOTAL PORTS)

(7) ERICSSON – 4449 B5/B12
SCALE: NOT TO SCALE

(8) NOT USED
SCALE: NOT TO SCALE

AT&T
575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065



AT&T SITE NUMBER:
CTL05263

BU #: **801367**
CT NHV-2075 CAC 801367

1121 SUMMIT ROAD
CHESHIRE, CT 06410

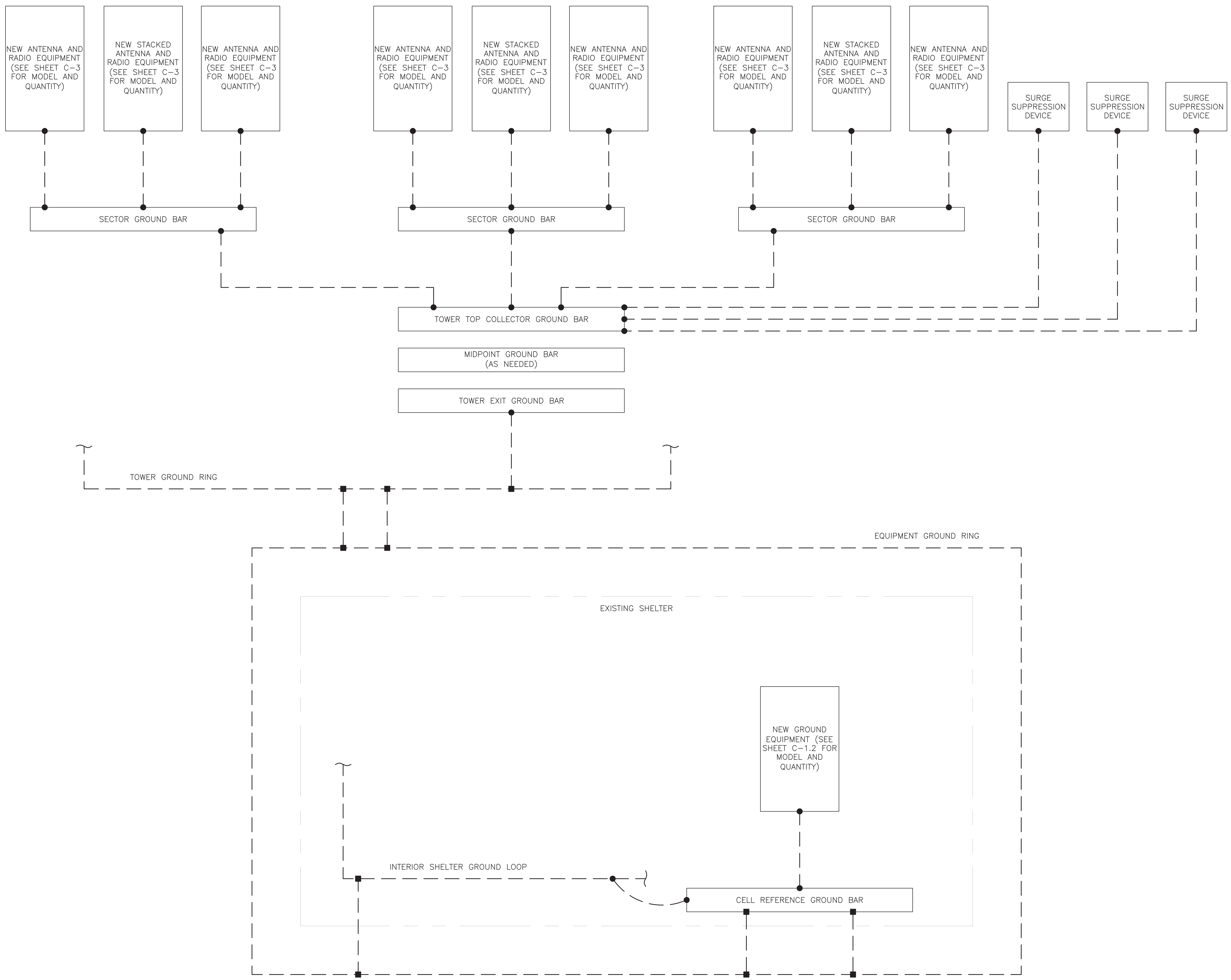
EXISTING
167'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/31/21	KT	PRELIMINARY REVIEW	KT
B	2/23/22	TDG	PRELIMINARY REVIEW	KT
C	3/31/22	TDG	PRELIMINARY REVIEW	LR
0	5/12/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

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



1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

GROUNDING PLAN LEGEND:

- GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- COPPER GROUND ROD
- GROUND ROD W/ TEST WELL

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.

AT&T
575 MOROSGO DRIVE
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1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

AT&T SITE NUMBER:
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0	5/12/22	TDG	CONSTRUCTION	LR

5/12/22

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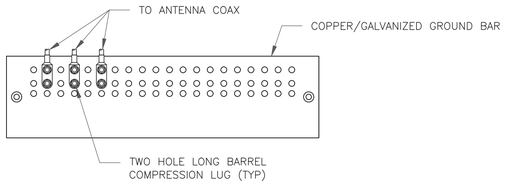
SHEET NUMBER: G-1

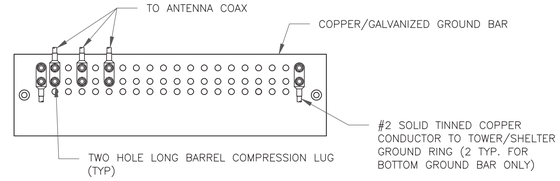
REVISION: 0



NOTES:

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

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

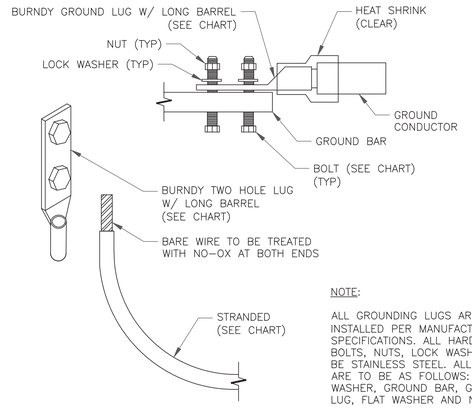


NOTES:

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

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

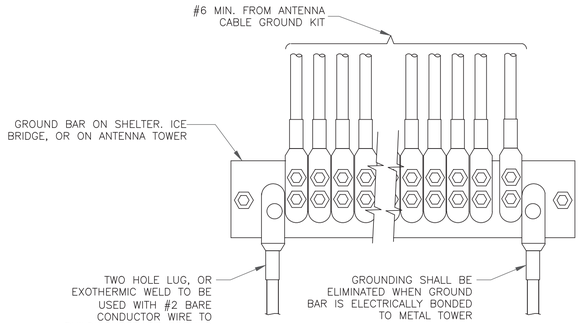
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



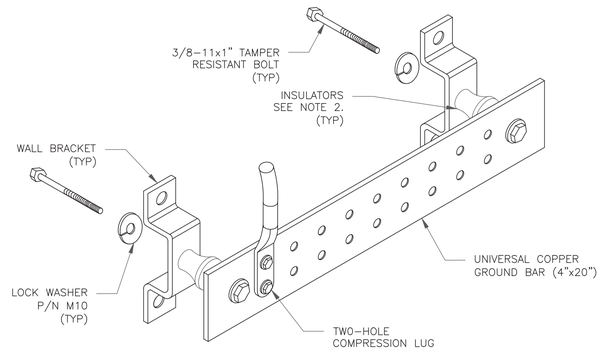
NOTE:

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

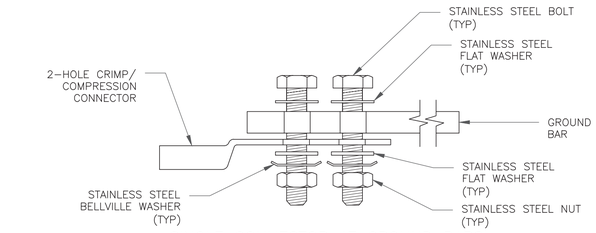


NOTES:

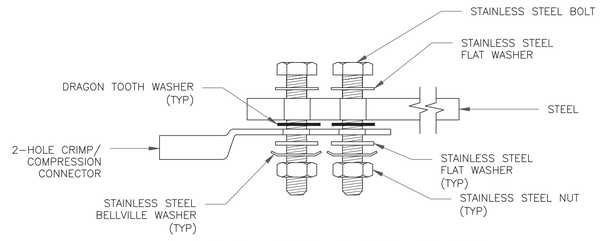
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

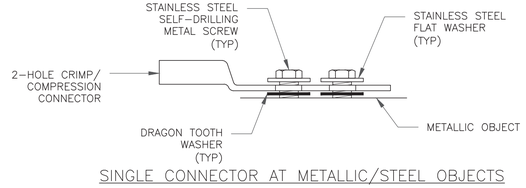
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

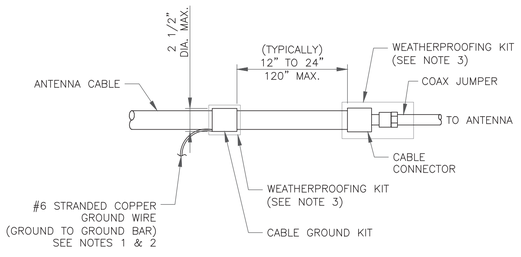


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

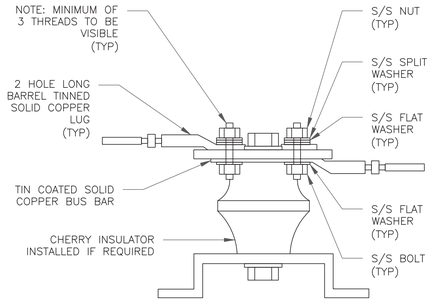
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

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AT&T SITE NUMBER:
CTL05263

BU #: **801367**
CT NHV-2075 CAC 801367

1121 SUMMIT ROAD
CHESHIRE, CT 06410

EXISTING
167'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/31/21	KT	PRELIMINARY REVIEW	KT
B	2/23/22	TDG	PRELIMINARY REVIEW	KT
C	3/31/22	TDG	PRELIMINARY REVIEW	LR
0	5/12/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/22

SHEET NUMBER: G-2

REVISION: 0

ANTENNA POSITION 1

EMPTY

Antenna 2
LTE B14 / PCS /AWS

BA 12PORT

Low 700/850 +45/-45 | Low 700/850 +45/-45 | AWS/WCS/ PCS 4Tx/4Rx +45/-45 | AWS/WCS/ PCS 4Tx/4Rx +45/-45 | AWS/WCS/ PCS 4Tx/4Rx +45/-45 | AWS/WCS/ PCS 4Tx/4Rx +45/-45

RET | RET | RET | RET | RET | RET

LTE RRUS-4478 700 B-14

LTE PCS RRH

LTE AWS RRH

Antenna 3
DoD + Cband

DoD
+45/-45

E//
AIR
C-BAND
+45/-45

Antenna 4
LTE 700 BC / 850 / WCS

Broadband Octo Low 700/850 +45/-45 | Broadband Octo Low 700/850 +45/-45 | Broadband Octo High 4Tx/4Rx +45/-45 | Broadband Octo High 4Tx/4Rx +45/-45

RET | RET | RET | RET

LTE RRUS-4449 850/700 BC

LTE WCS RRH

(Y- Cable)

Fiber/DC Demarcation Box (Squid)

Fiber/DC Demarcation Box (Squid)

Fiber/DC Demarcation Box (Squid)

DC Plant

DC Plant

DC Plant

- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

6648

6630 | XMU

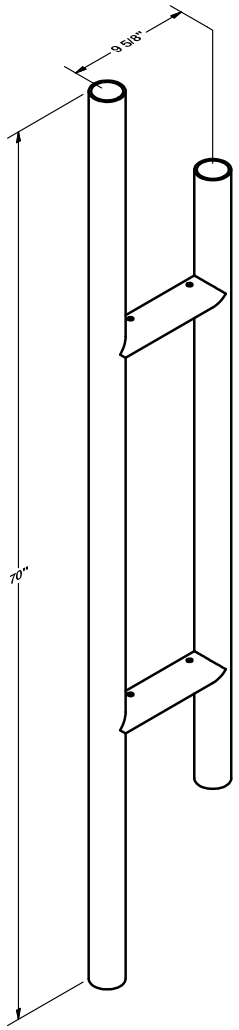
6630

IDLe

IDLe Xcede

IDLe Xcede

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-PM1	PM1 STANDOFF MOUNT WELDMENT		43.30	43.30



TOLERANCE NOTES

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

DESCRIPTION: 1' PANEL STAND-OFF MOUNT

SITE PRO 1 — A valmont COMPANY

Engineering Support Team: 1-888-753-7446

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

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CEK 8/9/2019		PM1	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 8/21/2019	PM1

Exhibit D

Structural Analysis Report

Date: **December 31, 2021**

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject:	**Structural Analysis Report**	
Carrier Designation:	***AT&T Mobility* Co-Locate**	
	Site Number:	CTL05263
	Site Name:	Cheshire Larsens Pond
	FA Number:	10090892
Crown Castle Designation:	**BU Number:**	801367
	Site Name:	CT NHV-2075 CAC 801367
	JDE Job Number:	686184
	Work Order Number:	2054311
	Order Number:	586310 Rev. 0
Engineering Firm Designation:	**B+T Group Project Number:**	156975.004.01
Site Data:	**1121 Summit Road, Cheshire, New Haven County, CT** **Latitude *41° 32' 11.2"*, Longitude *-72° 57' 26.3"*** **167 Foot - Monopole Tower**	

B+T Group is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

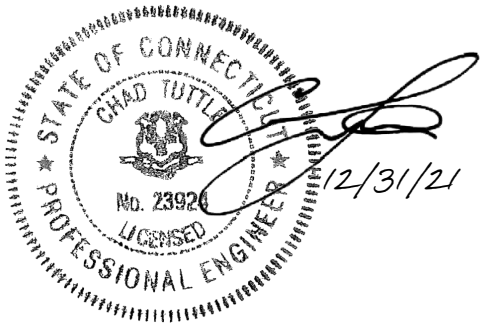
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity**

This analysis utilizes an ultimate 3-second gust wind speed of 118 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: Rose Denny

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 02/10/2022



Chad E. Tuttle, P.E.

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 167 ft Monopole tower designed by Summit Manufacturing Inc. The tower has been modified multiple times to accommodate additional loading. The modification has been considered ineffective in this analysis.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	118 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 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)
160.0	163.0	3	Ericsson	RRUS 32 B2	6 5 4 3	1-5/8 7/8 13/16 3/8
	162.0	3	Ericsson	AIR 6419 B77G		
	160.0	3	Cci Antennas	DMP65R-BU8D		
		3	Ericsson	RRUS 32 B30		
		3	Ericsson	RRUS 4426 B66		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 4478 B14_CCIV2		
		3	Quintel Tech.	QD8616-7		
		3	Raycap	DC9-48-60-24-8C-EV_CCIV2		
		1	--	Platform Mount [LP 1201-1_KCKR-HR-1]		
	158.0	3	Ericsson	AIR 6449 B77D		

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)
167.0	169.0	1	Gps	GPS_A	19 2 1	1-5/8 7/8 1/2
		1	Rfi Antennas	FSA10-41-DIN		
	168.5	3	SitePro 1	HRK12 Support Rail Kit		
	168.0	1	Rfi Antennas	FSA10-67-DIN		
	167.0	6	Antel	LPA-80063-6CF-EDIN		
		6	Jma Wireless	MX06FRO660-03		
		1	Raycap	RVZDC-6627-PF-48		
		3	Samsung Telecom.	MT6407-77A		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	Samsung Telecom.	RFV01U-D1A		
		3	Samsung Telecom.	RFV01U-D2A		
		1	--	Platform Mount [LP 1201-1]		
	165.5	3	SitePro 1	HRK12 Support Rail Kit		
	164.5	6	SitePro 1	PRK-SFS		
150.0	152.0	3	Alcatel Lucent	800MHZ 2X50W RRH W/Filter	--	--
	150.0	3	Alcatel Lucent	PCS 1900MHZ 4X45W-65MHZ		
		1	Tower Mounts	Pipe Mount [PM 601-3]		
		1	Tower Mounts	Side Arm Mount [SO 102-3]		
148.0	150.0	3	Alcatel Lucent	TD-RRH8X20-25	4	1-1/4
	148.0	3	Rfs Celwave	APXVSPP18-C-A20		
		3	Rfs Celwave	APXVTM14-ALU-I20		
		1	--	Platform Mount [LP 1201-1]		
138.0	138.0	3	Ericsson	AIR6449 B41_T-MOBILE	2 2	1-5/8 1-3/8
		3	Ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	Ericsson	Radio 4480_TMOV2		
		3	Rfs Celwave	APXVAARR24_43-U-NA20		
		1	--	Platform Mount [LP 1201-1_KCKR-HR-1]		
130.0	130.0	1	Rfs Celwave	SC3-W100AC	1	EW90
		1	--	Pipe Mount [PM 601-1]		
		1	--	Side Arm Mount [SO 701-1]		
123.0	123.0	1	--	Commscope MC-PK8-DSH	1	1-3/8
		3	Fujitsu	TA08025-B604		
		3	Fujitsu	TA08025-B605		
		3	Jma Wireless	MX08FRO665-21		
		1	Raycap	RDIDC-9181-PF-48		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
Tower Manufacturer Drawing	799210	CCI Sites
Mount Analysis Report	10121481	CCI Sites
Tower Modification Drawing	3245562	CCI Sites
Post Modification Inspection	3379750	CCI Sites
Tower Modification Drawing	3461318	CCI Sites
Post Modification Inspection	3847627	CCI Sites
Foundation Mapping	842573	CCI Sites
Geotech Report	445076	CCI Sites
Crown CAD Package	Date: 12/10/2021	CCI Sites

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

1) The tower and 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. B+T Group 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	167 - 118.25	Pole	TP32.36x24x0.25	1	-28.302	1527.456	70.2	Pass
L2	118.25 - 77.75	Pole	TP44.297x31.088x0.313	2	-38.386	2581.435	76.0	Pass
L3	77.75 - 38.25	Pole	TP52.877x42.058x0.375	3	-52.404	3719.824	71.3	Pass
L4	38.25 - 0	Pole	TP61.04x50.504x0.438	4	-72.320	5169.171	64.8	Pass
							Summary	
						Pole (L2)	76.0	Pass
						Rating =	76.0	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	Base	62.2	Pass
1	Base Plate	Base	50.2	Pass
1	Base Foundation (Structure)	Base	41.1	Pass
1	Base Foundation (Soil Interaction)	Base	58.0	Pass

Structure Rating (max from all components) =	**76.0%**

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

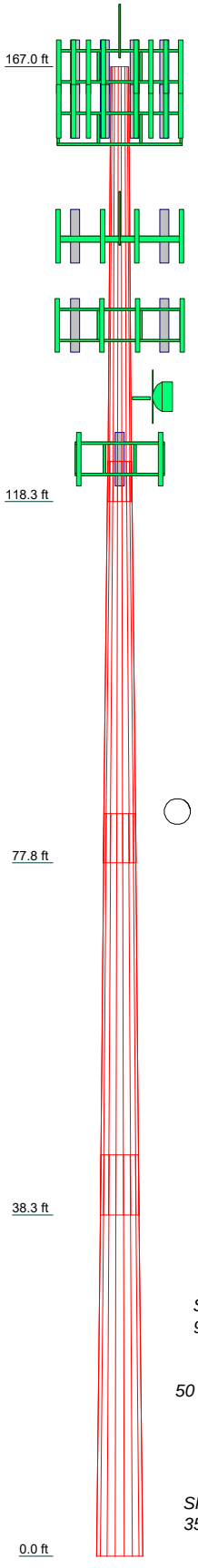
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	48.750	18	0.250	4.500	24.000	32.360		3.7
2	45.000	18	0.313	5.500	31.088	44.297		5.7
3	45.000	18	0.375	6.750	42.058	52.877		8.6
4	45.000	18	0.438		50.504	61.040		11.8
							A607-65	29.7



ALL REACTIONS ARE FACTORED

AXIAL 102 K

SHEAR 9 K

MOMENT 1265 kip-ft

TORQUE 1 kip-ft
50 mph WIND - 1.000 in ICE

AXIAL 72 K

SHEAR 35 K

MOMENT 4618 kip-ft

TORQUE 2 kip-ft
REACTIONS - 118 mph WIND

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 118 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING: 76%

B+T Group
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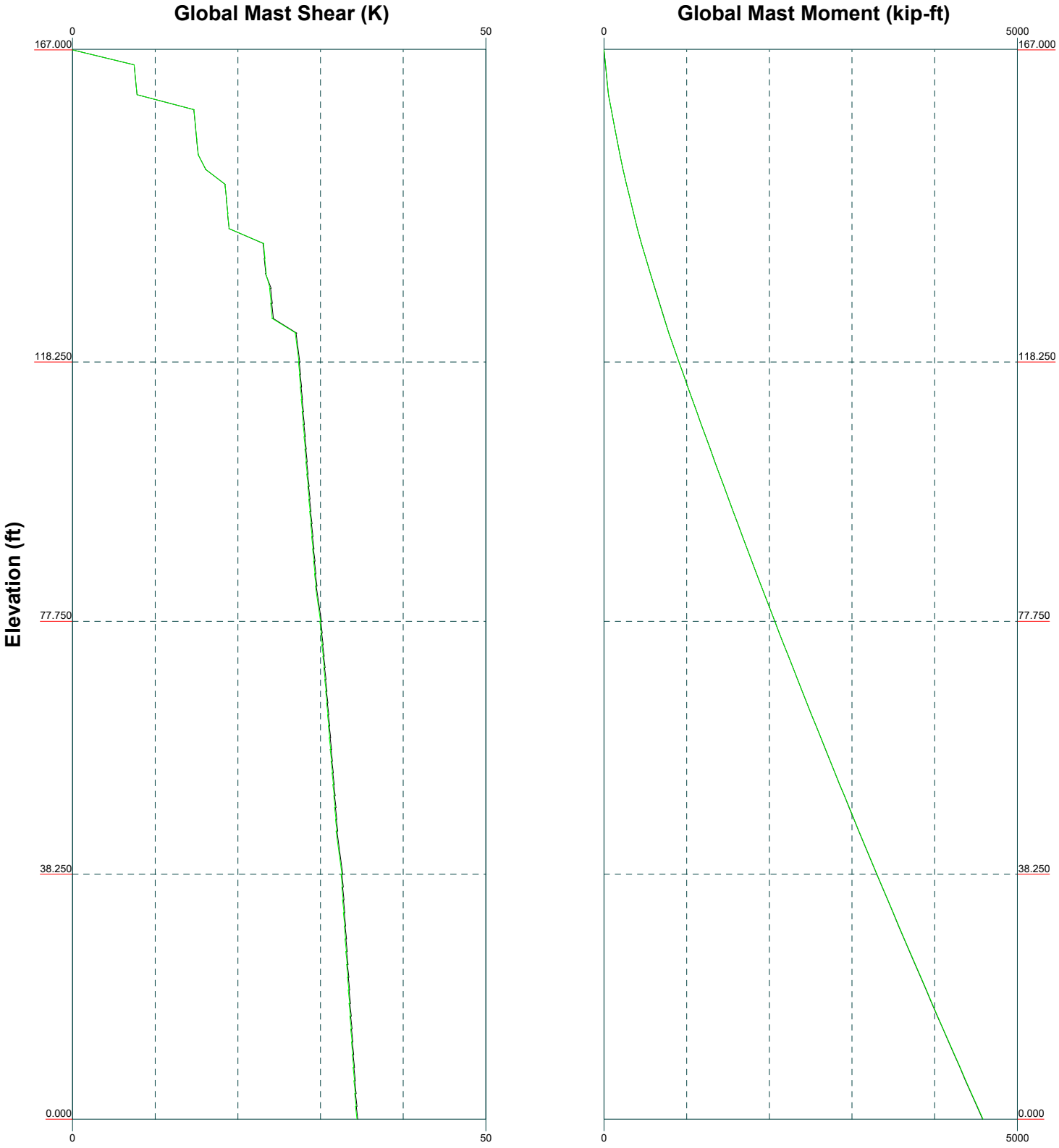
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: 156975.004.01 - CT NHV-2075 CAC 801367, CT (BU# 80136			
Project:			
Client: Crown Castle	Drawn by: Pavan Upadhya	App'd:	
Code: TIA-222-H	Date: 12/31/21	Scale: NTS	
Path:		Dwg No. E-1	

TIA-222-H - 118 mph/50 mph 1.000 in Ice Exposure B

Maximum Values

Vx Vz Mx Mz



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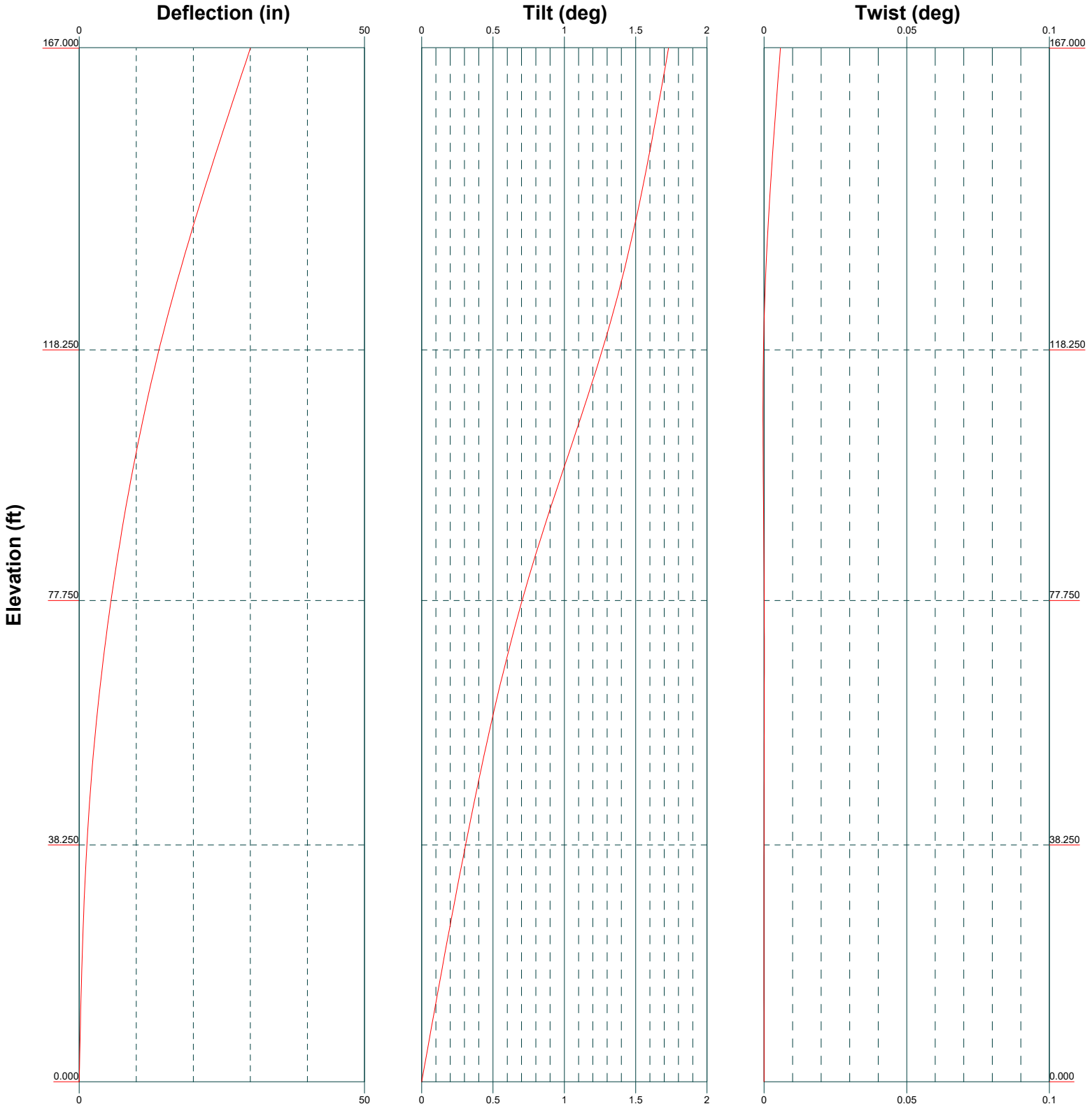
Job: 156975.004.01 - CT NHV-2075 CAC 801367, CT (BU# 80136		
Project:		
Client: Crown Castle	Drawn by: Pavan Upadhya	App'd:
Code: TIA-222-H	Date: 12/31/21	Scale: NTS
Path:		Dwg No. E-4

TIA-222-H - Service - 60 mph

Maximum Values



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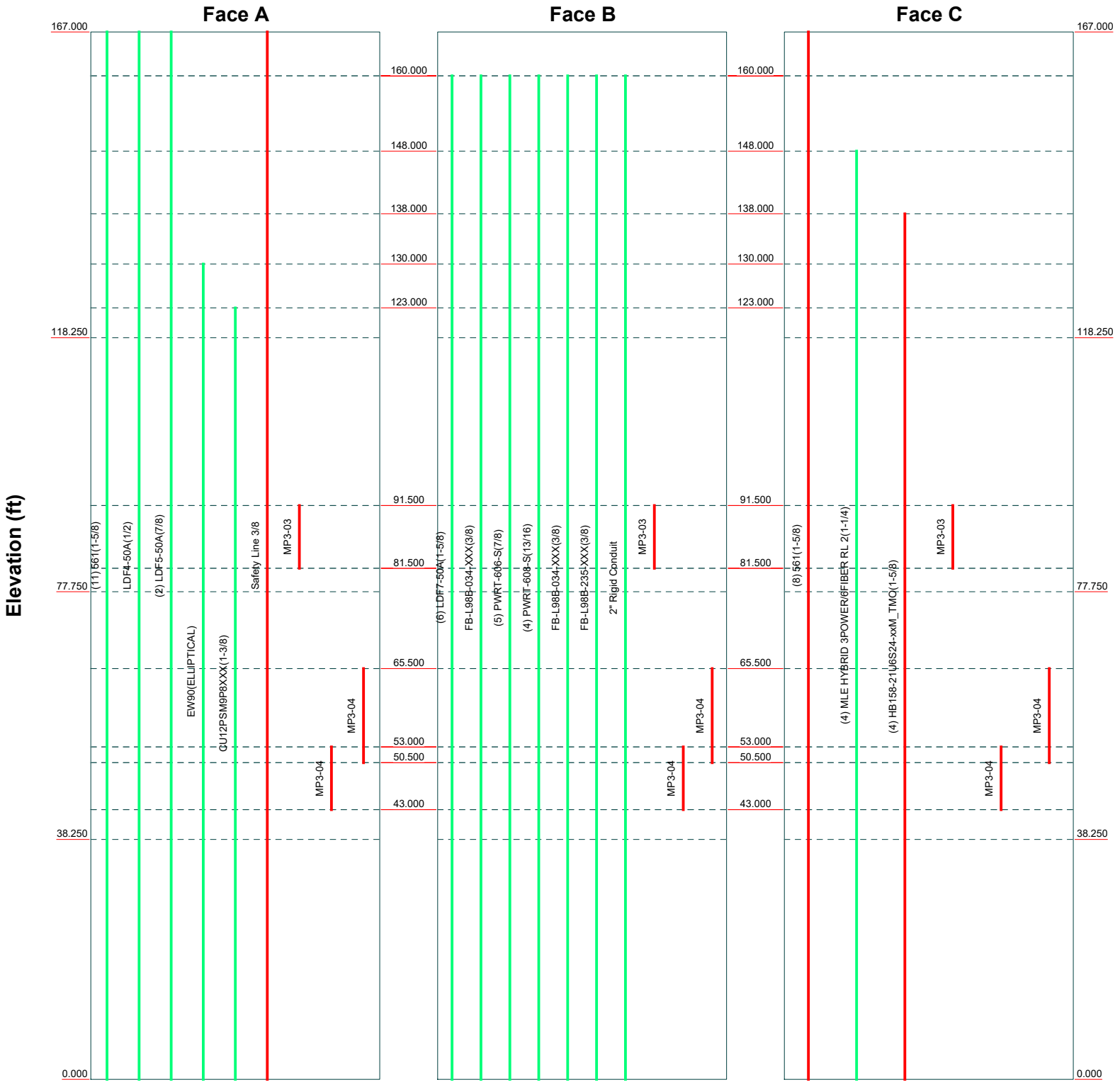
Job: 156975.004.01 - CT NHV-2075 CAC 801367, CT (BU# 80136		
Project:		
Client: Crown Castle	Drawn by: Pavan Upadhya	App'd:
Code: TIA-222-H	Date: 12/31/21	Scale: NTS
Path:		Dwg No. E-5

Feed Line Distribution Chart
0' - 167'

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



B+T GRP

B+T Group
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FAX: (918) 295-0265

Job: ***156975.004.01 - CT NHV-2075 CAC 801367, CT (BU# 80136***		
Project:		
Client: Crown Castle	Drawn by: Pavan Upadhya	App'd:
Code: TIA-222-H	Date: 12/31/21	Scale: NTS
Path:		Dwg No. E-7

Tower Input Data

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

Tower is located in New Haven County, Connecticut.
Tower base elevation above sea level: 616.000 ft.
Basic wind speed of 118 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.000 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	167.000-118.250	48.750	4.500	18	24.000	32.360	0.250	1.000	A607-65 (65 ksi)
L2	118.250-77.750	45.000	5.500	18	31.088	44.297	0.313	1.250	A607-65 (65 ksi)
L3	77.750-38.250	45.000	6.750	18	42.058	52.877	0.375	1.500	A607-65 (65 ksi)
L4	38.250-0.000	45.000		18	50.504	61.040	0.438	1.750	A607-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	24.332	18.846	1342.998	8.431	12.192	110.154	2687.762	9.425	3.784	15.136
	32.821	25.479	3318.985	11.399	16.439	201.898	6642.337	12.742	5.255	21.021
L2	32.861	30.526	3652.774	10.925	15.793	231.293	7310.354	15.266	4.922	15.749
	44.932	43.627	10663.343	15.614	22.503	473.866	21340.717	21.818	7.246	23.188
L3	43.991	49.613	10890.308	14.797	21.365	509.720	21794.946	24.811	6.742	17.979
	53.635	62.491	21762.219	18.638	26.862	810.163	43553.074	31.251	8.646	23.057
L4	52.820	69.524	22017.423	17.774	25.656	858.176	44063.818	34.768	8.119	18.557
	61.914	84.154	39047.573	21.514	31.008	1259.261	78146.527	42.085	9.973	22.796

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 167.000-118.250				1	1	1			
L2 118.250-77.750				1	1	1			
L3 77.750-38.250				1	1	1			
L4 38.250-0.000				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 in	Weight klf
561(1-5/8)	C	No	Surface Ar (CaAa)	167.000 - 0.000	8	8	0.000 0.320	1.625		0.001
*										
HB158-21U6S24-xxM_TMO(1-5/8)	C	No	Surface Ar (CaAa)	138.000 - 0.000	4	2	0.350 0.420	1.996		0.003

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
*										
Safety Line 3/8	A	No	Surface Ar (CaAa)	167.000 - 0.000	1	1	0.200 0.210	0.375		0.000
*										
MP3-03	A	No	Surface Af (CaAa)	91.500 - 81.500	1	1	0.000 0.000	4.060	11.260	0.010
MP3-03	B	No	Surface Af (CaAa)	91.500 - 81.500	1	1	0.000 0.000	4.060	11.260	0.010
MP3-03	C	No	Surface Af (CaAa)	91.500 - 81.500	1	1	0.000 0.000	4.060	11.260	0.010
MP3-04	A	No	Surface Af (CaAa)	53.000 - 43.000	1	1	0.000 0.000	4.780	12.780	0.014
MP3-04	B	No	Surface Af (CaAa)	53.000 - 43.000	1	1	0.000 0.000	4.780	12.780	0.014
MP3-04	C	No	Surface Af (CaAa)	53.000 - 43.000	1	1	0.000 0.000	4.780	12.780	0.014
*										
MP3-04	A	No	Surface Af (CaAa)	65.500 - 50.500	1	1	0.100 0.100	4.780	12.780	0.014
MP3-04	B	No	Surface Af (CaAa)	65.500 - 50.500	1	1	0.100 0.100	4.780	12.780	0.014
MP3-04	C	No	Surface Af (CaAa)	65.500 - 50.500	1	1	0.100 0.100	4.780	12.780	0.014
*										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
561(1-5/8)	A	No	No	Inside Pole	167.000 - 0.000	11	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
LDF4-50A(1/2)	A	No	No	Inside Pole	167.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
LDF5-50A(7/8)	A	No	No	Inside Pole	167.000 - 0.000	2	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
*									
LDF7-50A(1-5/8)	B	No	No	Inside Pole	160.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
FB-L98B-034-XXX(3/8)	B	No	No	Inside Pole	160.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
PWRT-606-S(7/8)	B	No	No	Inside Pole	160.000 - 0.000	5	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
PWRT-608-S(13/16)	B	No	No	Inside Pole	160.000 - 0.000	4	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
FB-L98B-034-XXX(3/8)	B	No	No	Inside Pole	160.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
FB-L98B-235-XXX(	B	No	No	Inside Pole	160.000 - 0.000	1	No Ice	0.000	0.000

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
3/8)							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
2" Rigid Conduit	B	No	No	Inside Pole	160.000 - 0.000	1	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
*									
MLE HYBRID 3POWER/6FIBER RL 2(1-1/4)	C	No	No	Inside Pole	148.000 - 0.000	4	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
*									
EW90(ELLIPTICAL)	A	No	No	Inside Pole	130.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
*									
CU12PSM9P8XXX(1-3/8)	A	No	No	Inside Pole	123.000 - 0.000	1	No Ice	0.000	0.002
							1/2" Ice	0.000	0.002
							1" Ice	0.000	0.002
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	167.000-118.250	A	0.000	0.000	1.828	0.000	0.786
		B	0.000	0.000	0.000	0.000	0.619
		C	0.000	0.000	71.259	0.000	0.805
L2	118.250-77.750	A	0.000	0.000	8.285	0.000	0.822
		B	0.000	0.000	6.767	0.000	0.699
		C	0.000	0.000	75.584	0.000	1.052
L3	77.750-38.250	A	0.000	0.000	21.237	0.000	1.058
		B	0.000	0.000	19.756	0.000	0.938
		C	0.000	0.000	86.875	0.000	1.282
L4	38.250-0.000	A	0.000	0.000	1.434	0.000	0.683
		B	0.000	0.000	0.000	0.000	0.567
		C	0.000	0.000	64.994	0.000	0.900

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	167.000-118.250	A	0.983	0.000	0.000	11.416	0.000	0.865
		B		0.000	0.000	0.000	0.000	0.619
		C		0.000	0.000	105.914	0.000	1.608
L2	118.250-77.750	A	0.947	0.000	0.000	17.633	0.000	0.946
		B		0.000	0.000	8.149	0.000	0.757
		C		0.000	0.000	114.084	0.000	1.960
L3	77.750-38.250	A	0.899	0.000	0.000	32.620	0.000	1.269
		B		0.000	0.000	23.658	0.000	1.089
		C		0.000	0.000	126.259	0.000	2.232

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L4	38.250-0.000	A	0.803	0.000	0.000	8.312	0.000	0.737
		B		0.000	0.000	0.000	0.000	0.567
		C		0.000	0.000	98.437	0.000	1.635

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	167.000-118.250	-2.688	6.115	-2.435	4.455
L2	118.250-77.750	-3.272	6.472	-3.103	5.018
L3	77.750-38.250	-3.008	5.961	-3.041	4.951
L4	38.250-0.000	-4.167	8.268	-3.868	6.355

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	2	561(1-5/8)	118.25 - 167.00	1.0000	1.0000
L1	27	HB158-21U6S24-xxM_TMO (1-5/8)	118.25 - 138.00	1.0000	1.0000
L1	33	Safety Line 3/8	118.25 - 167.00	1.0000	1.0000
L2	2	561(1-5/8)	77.75 - 118.25	1.0000	1.0000
L2	27	HB158-21U6S24-xxM_TMO (1-5/8)	77.75 - 118.25	1.0000	1.0000
L2	33	Safety Line 3/8	77.75 - 118.25	1.0000	1.0000
L2	35	MP3-03	81.50 - 91.50	1.0000	1.0000
L2	36	MP3-03	81.50 - 91.50	1.0000	1.0000
L2	37	MP3-03	81.50 - 91.50	1.0000	1.0000
L3	2	561(1-5/8)	38.25 - 77.75	1.0000	1.0000
L3	27	HB158-21U6S24-xxM_TMO (1-5/8)	38.25 - 77.75	1.0000	1.0000
L3	33	Safety Line 3/8	38.25 - 77.75	1.0000	1.0000
L3	38	MP3-04	43.00 - 53.00	1.0000	1.0000
L3	39	MP3-04	43.00 - 53.00	1.0000	1.0000
L3	40	MP3-04	43.00 - 53.00	1.0000	1.0000
L3	42	MP3-04	50.50 - 65.50	1.0000	1.0000
L3	43	MP3-04	50.50 - 65.50	1.0000	1.0000
L3	44	MP3-04	50.50 - 65.50	1.0000	1.0000
L4	2	561(1-5/8)	0.00 - 38.25	1.0000	1.0000
L4	27	HB158-21U6S24-xxM_TMO (1-5/8)	0.00 - 38.25	1.0000	1.0000
L4	33	Safety Line 3/8	0.00 - 38.25	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
L2	35	MP3-03	81.50 - 91.50	Auto	0.0000
L2	36	MP3-03	81.50 - 91.50	Auto	0.0000
L2	37	MP3-03	81.50 - 91.50	Auto	0.0000
L3	38	MP3-04	43.00 - 53.00	Auto	0.0000
L3	39	MP3-04	43.00 - 53.00	Auto	0.0000
L3	40	MP3-04	43.00 - 53.00	Auto	0.0000
L3	42	MP3-04	50.50 - 65.50	Auto	0.0000
L3	43	MP3-04	50.50 - 65.50	Auto	0.0000
L3	44	MP3-04	50.50 - 65.50	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
14" x 2' Top Hat	C	None		0.000	168.000	No Ice	1.167	1.167	0.110
						1/2" Ice	1.823	1.823	0.133
						1" Ice	2.022	2.022	0.160
Lightning Rod 5/8"x6'	C	None		0.000	171.000	No Ice	0.375	0.375	0.006
						1/2" Ice	0.989	0.989	0.010
						1" Ice	1.619	1.619	0.019
*									
FSA10-41-DIN	A	From Leg	4.000 0.000 2.000	0.000	167.000	No Ice 1/2" Ice 1" Ice	6.100 8.472 10.874	6.100 8.472 10.874	0.032 0.112 0.219
FSA10-67-DIN	A	From Leg	4.000 0.000 1.000	0.000	167.000	No Ice 1/2" Ice 1" Ice	1.400 2.261 3.148	1.400 2.261 3.148	0.009 0.030 0.060
*									
GPS_A	A	From Leg	4.000 0.000 2.000	0.000	167.000	No Ice 1/2" Ice 1" Ice	0.255 0.320 0.393	0.255 0.320 0.393	0.001 0.005 0.010
(2) LPA-80063-6CF-EDIN w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	167.000	No Ice 1/2" Ice 1" Ice	9.970 10.541 11.077	10.248 11.422 12.309	0.052 0.145 0.247
(2) LPA-80063-6CF-EDIN w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	167.000	No Ice 1/2" Ice 1" Ice	9.970 10.541 11.077	10.248 11.422 12.309	0.052 0.145 0.247
(2) LPA-80063-6CF-EDIN w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	167.000	No Ice 1/2" Ice 1" Ice	9.970 10.541 11.077	10.248 11.422 12.309	0.052 0.145 0.247
(2) MX06FRO660-03 w/	A	From Leg	4.000	0.000	167.000	No Ice	6.540	5.550	0.103

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Mount Pipe			0.000			1/2" Ice	7.060	6.050	0.185
			0.000			1" Ice	7.600	6.570	0.277
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.000	0.000	167.000	No Ice	6.540	5.550	0.103
			0.000			1/2" Ice	7.060	6.050	0.185
			0.000			1" Ice	7.600	6.570	0.277
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.000	0.000	167.000	No Ice	6.540	5.550	0.103
			0.000			1/2" Ice	7.060	6.050	0.185
			0.000			1" Ice	7.600	6.570	0.277
MT6407-77A	A	From Leg	4.000	0.000	167.000	No Ice	4.692	1.840	0.082
			0.000			1/2" Ice	4.980	2.063	0.111
			0.000			1" Ice	5.275	2.292	0.144
MT6407-77A	B	From Leg	4.000	0.000	167.000	No Ice	4.692	1.840	0.082
			0.000			1/2" Ice	4.980	2.063	0.111
			0.000			1" Ice	5.275	2.292	0.144
MT6407-77A	C	From Leg	4.000	0.000	167.000	No Ice	4.692	1.840	0.082
			0.000			1/2" Ice	4.980	2.063	0.111
			0.000			1" Ice	5.275	2.292	0.144
RVZDC-6627-PF-48	A	From Leg	4.000	0.000	167.000	No Ice	3.792	2.514	0.032
			0.000			1/2" Ice	4.044	2.727	0.063
			0.000			1" Ice	4.303	2.947	0.099
RFV01U-D2A	A	From Leg	4.000	0.000	167.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			0.000			1" Ice	2.223	1.284	0.106
(2) RFV01U-D2A	B	From Leg	4.000	0.000	167.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			0.000			1" Ice	2.223	1.284	0.106
(3) RFV01U-D1A	C	From Leg	4.000	0.000	167.000	No Ice	1.875	1.250	0.084
			0.000			1/2" Ice	2.045	1.393	0.103
			0.000			1" Ice	2.223	1.543	0.124
2' x 2" Pipe Mount	A	From Leg	4.000	0.000	167.000	No Ice	0.023	0.023	0.007
			0.000			1/2" Ice	0.049	0.049	0.008
			4.000			1" Ice	0.085	0.085	0.009
3' x 2" Pipe Mount	A	From Leg	4.000	0.000	167.000	No Ice	0.583	0.583	0.011
			0.000			1/2" Ice	0.770	0.770	0.017
			0.000			1" Ice	0.967	0.967	0.024
7' x 2.5" Mount Pipe	A	From Leg	4.000	0.000	167.000	No Ice	2.013	2.013	0.041
			0.000			1/2" Ice	2.589	2.589	0.055
			0.000			1" Ice	3.018	3.018	0.075
7' x 2.5" Mount Pipe	B	From Leg	4.000	0.000	167.000	No Ice	2.013	2.013	0.041
			0.000			1/2" Ice	2.589	2.589	0.055
			0.000			1" Ice	3.018	3.018	0.075
7' x 2.5" Mount Pipe	C	From Leg	4.000	0.000	167.000	No Ice	2.013	2.013	0.041
			0.000			1/2" Ice	2.589	2.589	0.055
			0.000			1" Ice	3.018	3.018	0.075
10' x 2" Mount Pipe	A	From Leg	4.000	0.000	167.000	No Ice	2.375	2.375	0.037
			0.000			1/2" Ice	3.403	3.403	0.054
			0.000			1" Ice	4.448	4.448	0.079
13'x2.5 STD Horizontal Pipe	A	From Leg	4.000	0.000	167.000	No Ice	3.594	3.594	0.041
			0.000			1/2" Ice	4.876	4.876	0.067
			1.500			1" Ice	6.175	6.175	0.101
13'x2.5 STD Horizontal Pipe	B	From Leg	4.000	0.000	167.000	No Ice	3.594	3.594	0.041
			0.000			1/2" Ice	4.876	4.876	0.067
			1.500			1" Ice	6.175	6.175	0.101
13'x2.5 STD Horizontal Pipe	C	From Leg	4.000	0.000	167.000	No Ice	3.594	3.594	0.041
			0.000			1/2" Ice	4.876	4.876	0.067
			1.500			1" Ice	6.175	6.175	0.101
13'x2.5 STD Horizontal Pipe	A	From Leg	4.000	0.000	167.000	No Ice	3.594	3.594	0.041

Description									Weight
									K
			0.000			1/2" Ice	4.876	4.876	0.067
			-1.500			1" Ice	6.175	6.175	0.101
13'x2.5 STD Horizontal Pipe	B	From Leg	4.000	0.000	167.000	No Ice	3.594	3.594	0.041
			0.000			1/2" Ice	4.876	4.876	0.067
			-1.500			1" Ice	6.175	6.175	0.101
13'x2.5 STD Horizontal Pipe	C	From Leg	4.000	0.000	167.000	No Ice	3.594	3.594	0.041
			0.000			1/2" Ice	4.876	4.876	0.067
			-1.500			1" Ice	6.175	6.175	0.101
(2) L 2.5x2.5x3/16x4.75'	A	From Leg	4.000	0.000	167.000	No Ice	1.250	0.005	0.025
			0.000			1/2" Ice	1.601	0.024	0.032
			-2.500			1" Ice	1.959	0.049	0.044
(2) L 2.5x2.5x3/16x4.75'	B	From Leg	4.000	0.000	167.000	No Ice	1.250	0.005	0.025
			0.000			1/2" Ice	1.601	0.024	0.032
			-2.500			1" Ice	1.959	0.049	0.044
(2) L 2.5x2.5x3/16x4.75'	C	From Leg	4.000	0.000	167.000	No Ice	1.250	0.005	0.025
			0.000			1/2" Ice	1.601	0.024	0.032
			-2.500			1" Ice	1.959	0.049	0.044
Platform Mount [LP 1201-1]	C	None		0.000	167.000	No Ice	18.380	18.380	2.100
						1/2" Ice	22.110	22.110	2.652
						1" Ice	25.870	25.870	3.263
*									
RRUS 32 B2	A	From Leg	4.000	0.000	160.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			3.000			1" Ice	3.182	2.049	0.098
RRUS 32 B2	B	From Leg	4.000	0.000	160.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			3.000			1" Ice	3.182	2.049	0.098
RRUS 32 B2	C	From Leg	4.000	0.000	160.000	No Ice	2.731	1.668	0.053
			0.000			1/2" Ice	2.953	1.855	0.074
			3.000			1" Ice	3.182	2.049	0.098
RRUS 32 B30	A	From Leg	4.000	0.000	160.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
			0.000			1" Ice	3.138	1.945	0.104
RRUS 32 B30	B	From Leg	4.000	0.000	160.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
			0.000			1" Ice	3.138	1.945	0.104
RRUS 32 B30	C	From Leg	4.000	0.000	160.000	No Ice	2.692	1.573	0.060
			0.000			1/2" Ice	2.912	1.756	0.080
			0.000			1" Ice	3.138	1.945	0.104
AIR 6419 B77G	A	From Leg	4.000	0.000	160.000	No Ice	4.640	1.870	0.066
			0.000			1/2" Ice	5.110	2.230	0.092
			2.000			1" Ice	5.590	2.620	0.120
AIR 6419 B77G	B	From Leg	4.000	0.000	160.000	No Ice	4.640	1.870	0.066
			0.000			1/2" Ice	5.110	2.230	0.092
			2.000			1" Ice	5.590	2.620	0.120
AIR 6419 B77G	C	From Leg	4.000	0.000	160.000	No Ice	4.640	1.870	0.066
			0.000			1/2" Ice	5.110	2.230	0.092
			2.000			1" Ice	5.590	2.620	0.120
DMP65R-BU8D w/ Mount Pipe	A	From Leg	4.000	0.000	160.000	No Ice	15.890	7.890	0.139
			0.000			1/2" Ice	16.810	8.740	0.252
			0.000			1" Ice	17.760	9.600	0.380
DMP65R-BU8D w/ Mount Pipe	B	From Leg	4.000	0.000	160.000	No Ice	15.890	7.890	0.139
			0.000			1/2" Ice	16.810	8.740	0.252
			0.000			1" Ice	17.760	9.600	0.380
DMP65R-BU8D w/ Mount Pipe	C	From Leg	4.000	0.000	160.000	No Ice	15.890	7.890	0.139
			0.000			1/2" Ice	16.810	8.740	0.252
			0.000			1" Ice	17.760	9.600	0.380

Description									Weight
									K
QD8616-7 w/ Mount Pipe	A	From Leg	4.000	0.000	160.000	No Ice	16.930	9.310	0.183
			0.000			1/2" Ice	17.870	10.170	0.308
			0.000			1" Ice	18.830	11.050	0.448
QD8616-7 w/ Mount Pipe	B	From Leg	4.000	0.000	160.000	No Ice	16.930	9.310	0.183
			0.000			1/2" Ice	17.870	10.170	0.308
			0.000			1" Ice	18.830	11.050	0.448
QD8616-7 w/ Mount Pipe	C	From Leg	4.000	0.000	160.000	No Ice	16.930	9.310	0.183
			0.000			1/2" Ice	17.870	10.170	0.308
			0.000			1" Ice	18.830	11.050	0.448
AIR 6449 B77D	A	From Leg	4.000	0.000	160.000	No Ice	4.028	2.722	0.082
			0.000			1/2" Ice	4.289	2.945	0.115
			-2.000			1" Ice	4.557	3.174	0.152
AIR 6449 B77D	B	From Leg	4.000	0.000	160.000	No Ice	4.028	2.722	0.082
			0.000			1/2" Ice	4.289	2.945	0.115
			-2.000			1" Ice	4.557	3.174	0.152
AIR 6449 B77D	C	From Leg	4.000	0.000	160.000	No Ice	4.028	2.722	0.082
			0.000			1/2" Ice	4.289	2.945	0.115
			-2.000			1" Ice	4.557	3.174	0.152
RRUS 4449 B5/B12	A	From Leg	4.000	0.000	160.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			0.000			1" Ice	2.328	1.727	0.111
RRUS 4449 B5/B12	B	From Leg	4.000	0.000	160.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			0.000			1" Ice	2.328	1.727	0.111
RRUS 4449 B5/B12	C	From Leg	4.000	0.000	160.000	No Ice	1.968	1.408	0.071
			0.000			1/2" Ice	2.144	1.564	0.090
			0.000			1" Ice	2.328	1.727	0.111
RRUS 4478 B14_CCIV2	A	From Leg	4.000	0.000	160.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			0.000			1" Ice	2.386	1.554	0.097
RRUS 4478 B14_CCIV2	B	From Leg	4.000	0.000	160.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			0.000			1" Ice	2.386	1.554	0.097
RRUS 4478 B14_CCIV2	C	From Leg	4.000	0.000	160.000	No Ice	2.021	1.246	0.059
			0.000			1/2" Ice	2.200	1.396	0.077
			0.000			1" Ice	2.386	1.554	0.097
DC9-48-60-24-8C-EV_CCIV 2	A	From Leg	4.000	0.000	160.000	No Ice	2.736	2.736	0.016
			0.000			1/2" Ice	2.962	2.962	0.042
			0.000			1" Ice	3.195	3.195	0.071
DC9-48-60-24-8C-EV_CCIV 2	B	From Leg	4.000	0.000	160.000	No Ice	2.736	2.736	0.016
			0.000			1/2" Ice	2.962	2.962	0.042
			0.000			1" Ice	3.195	3.195	0.071
DC9-48-60-24-8C-EV_CCIV 2	C	From Leg	4.000	0.000	160.000	No Ice	2.736	2.736	0.016
			0.000			1/2" Ice	2.962	2.962	0.042
			0.000			1" Ice	3.195	3.195	0.071
RRUS 4426 B66	A	From Leg	4.000	0.000	160.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
			0.000			1" Ice	1.972	0.969	0.076
RRUS 4426 B66	B	From Leg	4.000	0.000	160.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
			0.000			1" Ice	1.972	0.969	0.076
RRUS 4426 B66	C	From Leg	4.000	0.000	160.000	No Ice	1.644	0.725	0.048
			0.000			1/2" Ice	1.804	0.842	0.061
			0.000			1" Ice	1.972	0.969	0.076
(2) 10' x 2" Mount Pipe	A	From Leg	4.000	0.000	160.000	No Ice	2.375	2.375	0.037
			0.000			1/2" Ice	3.403	3.403	0.054
			0.000			1" Ice	4.448	4.448	0.079

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(2) 10' x 2" Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	160.000	No Ice 1/2" Ice 1" Ice	2.375 3.403 4.448	2.375 3.403 4.448	0.037 0.054 0.079
(2) 10' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	160.000	No Ice 1/2" Ice 1" Ice	2.375 3.403 4.448	2.375 3.403 4.448	0.037 0.054 0.079
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None		0.000	160.000	No Ice 1/2" Ice 1" Ice	37.610 45.620 53.590	37.610 45.620 53.590	2.631 3.478 4.462
*									
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	1.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice	2.322 2.527 2.739	2.238 2.441 2.651	0.060 0.083 0.110
(2) PCS 1900MHZ 4X45W-65MHZ	B	From Leg	1.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice	2.322 2.527 2.739	2.238 2.441 2.651	0.060 0.083 0.110
800MHZ 2X50W RRH W/FILTER	A	From Leg	1.000 0.000 2.000	0.000	150.000	No Ice 1/2" Ice 1" Ice	2.058 2.240 2.429	1.932 2.109 2.293	0.064 0.086 0.111
(2) 800MHZ 2X50W RRH W/FILTER	C	From Leg	1.000 0.000 2.000	0.000	150.000	No Ice 1/2" Ice 1" Ice	2.058 2.240 2.429	1.932 2.109 2.293	0.064 0.086 0.111
Side Arm Mount [SO 102-3]	C	None		0.000	150.000	No Ice 1/2" Ice 1" Ice	3.600 4.180 4.750	3.600 4.180 4.750	0.075 0.105 0.135
Pipe Mount [PM 601-3]	C	None		0.000	150.000	No Ice 1/2" Ice 1" Ice	3.170 3.790 4.420	3.170 3.790 4.420	0.195 0.232 0.279
*									
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	4.090 4.480 4.880	2.860 3.230 3.610	0.077 0.127 0.185
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	4.090 4.480 4.880	2.860 3.230 3.610	0.077 0.127 0.185
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	4.090 4.480 4.880	2.860 3.230 3.610	0.077 0.127 0.185
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	4.600 5.050 5.500	4.010 4.450 4.890	0.095 0.160 0.235
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	4.600 5.050 5.500	4.010 4.450 4.890	0.095 0.160 0.235
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	4.600 5.050 5.500	4.010 4.450 4.890	0.095 0.160 0.235
TD-RRH8X20-25	A	From Leg	4.000 0.000 2.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	3.704 3.946 4.196	1.294 1.465 1.642	0.066 0.090 0.117
TD-RRH8X20-25	B	From Leg	4.000 0.000 2.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	3.704 3.946 4.196	1.294 1.465 1.642	0.066 0.090 0.117
TD-RRH8X20-25	C	From Leg	4.000 0.000 2.000	0.000	148.000	No Ice 1/2" Ice 1" Ice	3.704 3.946 4.196	1.294 1.465 1.642	0.066 0.090 0.117
6' x 2" Mount Pipe	A	From Leg	4.000	0.000	148.000	No Ice	1.425	1.425	0.022

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
6' x 2" Mount Pipe	B	From Leg	4.000	0.000	148.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
6' x 2" Mount Pipe	C	From Leg	4.000	0.000	148.000	No Ice	1.425	1.425	0.022
			0.000			1/2" Ice	1.925	1.925	0.033
			0.000			1" Ice	2.294	2.294	0.048
Platform Mount [LP 1201-1]	C	None		0.000	148.000	No Ice	18.380	18.380	2.100
						1/2" Ice	22.110	22.110	2.652
						1" Ice	25.870	25.870	3.263
*									
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.000	0.000	138.000	No Ice	14.690	6.870	0.186
			0.000			1/2" Ice	15.460	7.550	0.315
			0.000			1" Ice	16.230	8.250	0.458
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.000	0.000	138.000	No Ice	14.690	6.870	0.186
			0.000			1/2" Ice	15.460	7.550	0.315
			0.000			1" Ice	16.230	8.250	0.458
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.000	0.000	138.000	No Ice	14.690	6.870	0.186
			0.000			1/2" Ice	15.460	7.550	0.315
			0.000			1" Ice	16.230	8.250	0.458
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.000	0.000	138.000	No Ice	5.870	3.270	0.128
			0.000			1/2" Ice	6.233	3.728	0.177
			0.000			1" Ice	6.606	4.203	0.232
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.000	0.000	138.000	No Ice	5.870	3.270	0.128
			0.000			1/2" Ice	6.233	3.728	0.177
			0.000			1" Ice	6.606	4.203	0.232
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.000	0.000	138.000	No Ice	5.870	3.270	0.128
			0.000			1/2" Ice	6.233	3.728	0.177
			0.000			1" Ice	6.606	4.203	0.232
(2) Radio 4480_TMOV2	A	From Leg	4.000	0.000	138.000	No Ice	2.878	1.397	0.081
			0.000			1/2" Ice	3.091	1.558	0.103
			0.000			1" Ice	3.312	1.727	0.128
Radio 4480_TMOV2	C	From Leg	4.000	0.000	138.000	No Ice	2.878	1.397	0.081
			0.000			1/2" Ice	3.091	1.558	0.103
			0.000			1" Ice	3.312	1.727	0.128
(2) RADIO 4460 B2/B25 B66_TMO	B	From Leg	4.000	0.000	138.000	No Ice	2.139	1.686	0.109
			0.000			1/2" Ice	2.321	1.850	0.131
			0.000			1" Ice	2.511	2.022	0.156
RADIO 4460 B2/B25 B66_TMO	C	From Leg	4.000	0.000	138.000	No Ice	2.139	1.686	0.109
			0.000			1/2" Ice	2.321	1.850	0.131
			0.000			1" Ice	2.511	2.022	0.156
(2) 7' x 2" Mount Pipe	A	From Leg	4.000	0.000	138.000	No Ice	1.663	1.663	0.026
			0.000			1/2" Ice	2.391	2.391	0.039
			0.000			1" Ice	2.825	2.825	0.056
(2) 7' x 2" Mount Pipe	B	From Leg	4.000	0.000	138.000	No Ice	1.663	1.663	0.026
			0.000			1/2" Ice	2.391	2.391	0.039
			0.000			1" Ice	2.825	2.825	0.056
(2) 7' x 2" Mount Pipe	C	From Leg	4.000	0.000	138.000	No Ice	1.663	1.663	0.026
			0.000			1/2" Ice	2.391	2.391	0.039
			0.000			1" Ice	2.825	2.825	0.056
Platform Mount [LP 1201-1_KCKR-HR-1]	C	None		0.000	138.000	No Ice	37.610	37.610	2.631
						1/2" Ice	45.620	45.620	3.478
						1" Ice	53.590	53.590	4.462
*									
Side Arm Mount [SO 701-1]	B	From Leg	1.500	0.000	130.000	No Ice	0.850	1.670	0.065
			0.000			1/2" Ice	1.140	2.340	0.079

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	1.430	3.010	0.093
Pipe Mount [PM 601-1]	B	From Leg	3.000	0.000	130.000	No Ice	1.320	1.320	0.065
			0.000			1/2" Ice	1.580	1.580	0.077
*			0.000			1" Ice	1.840	1.840	0.093
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000	0.000	123.000	No Ice	8.010	4.230	0.108
			0.000			1/2" Ice	8.520	4.690	0.194
			0.000			1" Ice	9.040	5.160	0.292
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.000	0.000	123.000	No Ice	8.010	4.230	0.108
			0.000			1/2" Ice	8.520	4.690	0.194
			0.000			1" Ice	9.040	5.160	0.292
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.000	0.000	123.000	No Ice	8.010	4.230	0.108
			0.000			1/2" Ice	8.520	4.690	0.194
			0.000			1" Ice	9.040	5.160	0.292
TA08025-B604	A	From Leg	4.000	0.000	123.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
TA08025-B604	B	From Leg	4.000	0.000	123.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
TA08025-B604	C	From Leg	4.000	0.000	123.000	No Ice	1.964	0.981	0.064
			0.000			1/2" Ice	2.138	1.112	0.081
			0.000			1" Ice	2.320	1.250	0.100
TA08025-B605	A	From Leg	4.000	0.000	123.000	No Ice	1.964	1.129	0.075
			0.000			1/2" Ice	2.138	1.267	0.093
			0.000			1" Ice	2.320	1.411	0.114
TA08025-B605	B	From Leg	4.000	0.000	123.000	No Ice	1.964	1.129	0.075
			0.000			1/2" Ice	2.138	1.267	0.093
			0.000			1" Ice	2.320	1.411	0.114
TA08025-B605	C	From Leg	4.000	0.000	123.000	No Ice	1.964	1.129	0.075
			0.000			1/2" Ice	2.138	1.267	0.093
			0.000			1" Ice	2.320	1.411	0.114
RDIDC-9181-PF-48	A	From Leg	4.000	0.000	123.000	No Ice	2.012	1.168	0.022
			0.000			1/2" Ice	2.189	1.311	0.040
			0.000			1" Ice	2.373	1.461	0.060
(2) 8' x 2" Mount Pipe	A	From Leg	4.000	0.000	123.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
(2) 8' x 2" Mount Pipe	B	From Leg	4.000	0.000	123.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
(2) 8' x 2" Mount Pipe	C	From Leg	4.000	0.000	123.000	No Ice	1.900	1.900	0.029
			0.000			1/2" Ice	2.728	2.728	0.044
			0.000			1" Ice	3.401	3.401	0.063
Commscope MC-PK8-DSH	C	None		0.000	123.000	No Ice	34.240	34.240	1.749
						1/2" Ice	62.950	62.950	2.099
*						1" Ice	91.660	91.660	2.450

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft²	Weight K
SC3-W100AC	B	Paraboloid w/Shroud (HP)	From Leg	3.000 0.000 0.000	-27.000		130.000	3.292	No Ice 1/2" Ice 1" Ice	8.510 8.946 9.383	0.046 0.092 0.138
*											

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

Comb. No.	Description
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	167 - 118.25	Pole	Max Tension	33	0.000	0.000	0.004
			Max. Compression	26	-50.365	-0.449	-1.269
			Max. Mx	20	-28.305	783.474	-2.158
			Max. My	14	-28.316	-0.087	-785.107
			Max. Vy	20	-27.122	783.474	-2.158
			Max. Vx	14	27.021	-0.087	-785.107
			Max. Torque	21			-2.171
L2	118.25 - 77.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.588	-0.370	-4.590
			Max. Mx	20	-38.410	1902.833	-4.689
			Max. My	14	-38.418	-0.782	-1901.992
			Max. Vy	20	-29.567	1902.833	-4.689
			Max. Vx	14	29.464	-0.782	-1901.992
			Max. Torque	11			1.534
L3	77.75 - 38.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-79.403	-0.259	-8.306
			Max. Mx	20	-52.419	3084.208	-7.517
			Max. My	14	-52.423	-1.427	-3081.372
			Max. Vy	20	-32.078	3084.208	-7.517
			Max. Vx	14	31.975	-1.427	-3081.372
			Max. Torque	11			1.527
L4	38.25 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-102.409	-0.107	-13.034
			Max. Mx	20	-72.320	4585.168	-11.140
			Max. My	14	-72.320	-2.149	-4580.422
			Max. Vy	20	-34.509	4585.168	-11.140
			Max. Vx	14	34.407	-2.149	-4580.422
			Max. Torque	11			1.524

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	33	102.409	-0.001	-9.331
	Max. H_x	20	72.341	34.466	-0.018
	Max. H_z	2	72.341	-0.038	34.360
	Max. M_x	2	4563.224	-0.038	34.360
	Max. M_z	8	4574.651	-34.387	0.023
	Max. Torsion	11	1.523	-30.132	-17.324
	Min. Vert	5	54.255	-17.275	29.740
	Min. H_x	8	72.341	-34.387	0.023
	Min. H_z	14	72.341	-0.016	-34.365
	Min. M_x	14	-4580.422	-0.016	-34.365
	Min. M_z	20	-4585.168	34.466	-0.018
	Min. Torsion	23	-1.314	30.213	17.344

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K

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	60.284	0.000	0.000	6.683	-0.141	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	72.341	0.038	-34.360	-4563.224	-5.697	0.886
0.9 Dead+1.0 Wind 0 deg - No Ice	54.255	0.038	-34.360	-4484.162	-5.561	0.901
1.2 Dead+1.0 Wind 30 deg - No Ice	72.341	17.275	-29.740	-3948.642	-2298.944	0.084
0.9 Dead+1.0 Wind 30 deg - No Ice	54.255	17.275	-29.740	-3880.491	-2258.059	0.096
1.2 Dead+1.0 Wind 60 deg - No Ice	72.341	29.821	-17.155	-2274.131	-3967.659	-0.893
0.9 Dead+1.0 Wind 60 deg - No Ice	54.255	29.821	-17.155	-2235.749	-3897.113	-0.886
1.2 Dead+1.0 Wind 90 deg - No Ice	72.341	34.387	-0.023	4.986	-4574.651	-1.428
0.9 Dead+1.0 Wind 90 deg - No Ice	54.255	34.387	-0.023	2.844	-4493.331	-1.428
1.2 Dead+1.0 Wind 120 deg - No Ice	72.341	30.132	17.324	2306.530	-3997.649	-1.515
0.9 Dead+1.0 Wind 120 deg - No Ice	54.255	30.132	17.324	2263.583	-3926.768	-1.523
1.2 Dead+1.0 Wind 150 deg - No Ice	72.341	17.256	29.741	3964.102	-2295.151	-1.228
0.9 Dead+1.0 Wind 150 deg - No Ice	54.255	17.256	29.741	3891.616	-2254.359	-1.241
1.2 Dead+1.0 Wind 180 deg - No Ice	72.341	0.016	34.365	4580.422	-2.149	-0.803
0.9 Dead+1.0 Wind 180 deg - No Ice	54.255	0.016	34.365	4496.992	-2.079	-0.818
1.2 Dead+1.0 Wind 210 deg - No Ice	72.341	-17.338	29.717	3961.908	2307.228	-0.017
0.9 Dead+1.0 Wind 210 deg - No Ice	54.255	-17.338	29.717	3889.446	2266.310	-0.030
1.2 Dead+1.0 Wind 240 deg - No Ice	72.341	-29.899	17.168	2292.644	3977.932	0.803
0.9 Dead+1.0 Wind 240 deg - No Ice	54.255	-29.899	17.168	2249.845	3907.327	0.796
1.2 Dead+1.0 Wind 270 deg - No Ice	72.341	-34.466	0.018	11.140	4585.168	1.294
0.9 Dead+1.0 Wind 270 deg - No Ice	54.255	-34.466	0.018	8.890	4503.768	1.294
1.2 Dead+1.0 Wind 300 deg - No Ice	72.341	-30.213	-17.344	-2292.564	4008.516	1.307
0.9 Dead+1.0 Wind 300 deg - No Ice	54.255	-30.213	-17.344	-2253.968	3937.530	1.314
1.2 Dead+1.0 Wind 330 deg - No Ice	72.341	-17.329	-29.729	-3945.790	2305.031	0.907
0.9 Dead+1.0 Wind 330 deg - No Ice	54.255	-17.329	-29.729	-3877.704	2264.146	0.919
1.2 Dead+1.0 Ice+1.0 Temp	102.409	0.000	0.000	13.034	-0.107	0.000
1.2 Dead+1.0 Wind 0 deg+1.0	102.409	0.009	-9.331	-1238.726	-1.512	0.195

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
Ice+1.0 Temp 1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	102.409	4.685	-8.078	-1070.734	-628.944	-0.130
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	102.409	8.093	-4.662	-612.291	-1086.114	-0.450
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	102.409	9.334	-0.006	12.338	-1252.516	-0.609
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	102.409	8.084	4.653	637.528	-1084.876	-0.591
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	102.409	4.674	8.071	1096.214	-627.369	-0.422
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	102.409	0.001	9.331	1265.423	-0.258	-0.178
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	102.409	-4.697	8.073	1096.621	630.502	0.143
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	102.409	-8.108	4.664	639.258	1088.090	0.432
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	102.409	-9.350	0.005	14.129	1254.540	0.582
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	102.409	-8.100	-4.657	-611.507	1086.967	0.550
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	102.409	-4.689	-8.068	-1069.292	629.251	0.358
Dead+Wind 0 deg - Service	60.284	0.009	-8.367	-1095.175	-1.481	0.221
Dead+Wind 30 deg - Service	60.284	4.207	-7.242	-947.044	-554.312	0.021
Dead+Wind 60 deg - Service	60.284	7.262	-4.177	-543.375	-956.589	-0.221
Dead+Wind 90 deg - Service	60.284	8.373	-0.005	6.048	-1102.898	-0.355
Dead+Wind 120 deg - Service	60.284	7.337	4.219	560.907	-963.868	-0.377
Dead+Wind 150 deg - Service	60.284	4.202	7.242	960.484	-553.408	-0.306
Dead+Wind 180 deg - Service	60.284	0.004	8.368	1109.043	-0.626	-0.200
Dead+Wind 210 deg - Service	60.284	-4.222	7.236	959.960	556.110	-0.005
Dead+Wind 240 deg - Service	60.284	-7.281	4.181	557.545	958.877	0.199
Dead+Wind 270 deg - Service	60.284	-8.393	0.004	7.532	1105.236	0.322
Dead+Wind 300 deg - Service	60.284	-7.357	-4.223	-547.846	966.275	0.326
Dead+Wind 330 deg - Service	60.284	-4.220	-7.239	-946.337	555.557	0.227

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.000	-60.284	0.000	-0.000	60.284	-0.000	0.000%
2	0.038	-72.341	-34.360	-0.038	72.341	34.360	0.000%
3	0.038	-54.255	-34.360	-0.038	54.255	34.360	0.000%
4	17.275	-72.341	-29.740	-17.275	72.341	29.740	0.000%
5	17.275	-54.255	-29.740	-17.275	54.255	29.740	0.000%
6	29.821	-72.341	-17.155	-29.821	72.341	17.155	0.000%
7	29.821	-54.255	-17.155	-29.821	54.255	17.155	0.000%
8	34.387	-72.341	-0.023	-34.387	72.341	0.023	0.000%
9	34.387	-54.255	-0.023	-34.387	54.255	0.023	0.000%
10	30.132	-72.341	17.324	-30.132	72.341	-17.324	0.000%
11	30.132	-54.255	17.324	-30.132	54.255	-17.324	0.000%
12	17.256	-72.341	29.741	-17.256	72.341	-29.741	0.000%
13	17.256	-54.255	29.741	-17.256	54.255	-29.741	0.000%
14	0.016	-72.341	34.365	-0.016	72.341	-34.365	0.000%
15	0.016	-54.255	34.365	-0.016	54.255	-34.365	0.000%
16	-17.338	-72.341	29.717	17.338	72.341	-29.717	0.000%
17	-17.338	-54.255	29.717	17.338	54.255	-29.717	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
18	-29.899	-72.341	17.168	29.899	72.341	-17.168	0.000%
19	-29.899	-54.255	17.168	29.899	54.255	-17.168	0.000%
20	-34.466	-72.341	0.018	34.466	72.341	-0.018	0.000%
21	-34.466	-54.255	0.018	34.466	54.255	-0.018	0.000%
22	-30.213	-72.341	-17.344	30.213	72.341	17.344	0.000%
23	-30.213	-54.255	-17.344	30.213	54.255	17.344	0.000%
24	-17.329	-72.341	-29.729	17.329	72.341	29.729	0.000%
25	-17.329	-54.255	-29.729	17.329	54.255	29.729	0.000%
26	0.000	-102.409	0.000	-0.000	102.409	-0.000	0.000%
27	0.009	-102.409	-9.330	-0.009	102.409	9.331	0.000%
28	4.685	-102.409	-8.078	-4.685	102.409	8.078	0.000%
29	8.092	-102.409	-4.662	-8.093	102.409	4.662	0.000%
30	9.334	-102.409	-0.006	-9.334	102.409	0.006	0.000%
31	8.084	-102.409	4.653	-8.084	102.409	-4.653	0.000%
32	4.674	-102.409	8.071	-4.674	102.409	-8.071	0.000%
33	0.001	-102.409	9.331	-0.001	102.409	-9.331	0.000%
34	-4.697	-102.409	8.073	4.697	102.409	-8.073	0.000%
35	-8.108	-102.409	4.664	8.108	102.409	-4.664	0.000%
36	-9.350	-102.409	0.005	9.350	102.409	-0.005	0.000%
37	-8.100	-102.409	-4.657	8.100	102.409	4.657	0.000%
38	-4.689	-102.409	-8.068	4.689	102.409	8.068	0.000%
39	0.009	-60.284	-8.367	-0.009	60.284	8.367	0.000%
40	4.207	-60.284	-7.242	-4.207	60.284	7.242	0.000%
41	7.262	-60.284	-4.177	-7.262	60.284	4.177	0.000%
42	8.373	-60.284	-0.005	-8.373	60.284	0.005	0.000%
43	7.337	-60.284	4.219	-7.337	60.284	-4.219	0.000%
44	4.202	-60.284	7.242	-4.202	60.284	-7.242	0.000%
45	0.004	-60.284	8.368	-0.004	60.284	-8.368	0.000%
46	-4.222	-60.284	7.236	4.222	60.284	-7.236	0.000%
47	-7.281	-60.284	4.181	7.281	60.284	-4.181	0.000%
48	-8.393	-60.284	0.004	8.393	60.284	-0.004	0.000%
49	-7.357	-60.284	-4.223	7.357	60.284	4.223	0.000%
50	-4.220	-60.284	-7.239	4.220	60.284	7.239	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000932
2	Yes	5	0.00000001	0.00010880
3	Yes	5	0.00000001	0.00005050
4	Yes	6	0.00000001	0.00041868
5	Yes	6	0.00000001	0.00014021
6	Yes	6	0.00000001	0.00042282
7	Yes	6	0.00000001	0.00014191
8	Yes	5	0.00000001	0.00016112
9	Yes	5	0.00000001	0.00008035
10	Yes	6	0.00000001	0.00041642
11	Yes	6	0.00000001	0.00013862
12	Yes	6	0.00000001	0.00042641
13	Yes	6	0.00000001	0.00014290
14	Yes	5	0.00000001	0.00009589
15	Yes	5	0.00000001	0.00004355
16	Yes	6	0.00000001	0.00042355
17	Yes	6	0.00000001	0.00014158
18	Yes	6	0.00000001	0.00041706

19	Yes	6	0.00000001	0.00013913
20	Yes	5	0.00000001	0.00013757
21	Yes	5	0.00000001	0.00006829
22	Yes	6	0.00000001	0.00042927
23	Yes	6	0.00000001	0.00014384
24	Yes	6	0.00000001	0.00041551
25	Yes	6	0.00000001	0.00013894
26	Yes	4	0.00000001	0.00005887
27	Yes	5	0.00000001	0.00091231
28	Yes	6	0.00000001	0.00018136
29	Yes	6	0.00000001	0.00018261
30	Yes	5	0.00000001	0.00092221
31	Yes	6	0.00000001	0.00018353
32	Yes	6	0.00000001	0.00018577
33	Yes	5	0.00000001	0.00092825
34	Yes	6	0.00000001	0.00018568
35	Yes	6	0.00000001	0.00018440
36	Yes	5	0.00000001	0.00092304
37	Yes	6	0.00000001	0.00018273
38	Yes	6	0.00000001	0.00018078
39	Yes	4	0.00000001	0.00020912
40	Yes	5	0.00000001	0.00007780
41	Yes	5	0.00000001	0.00008060
42	Yes	4	0.00000001	0.00022989
43	Yes	5	0.00000001	0.00007719
44	Yes	5	0.00000001	0.00008303
45	Yes	4	0.00000001	0.00021092
46	Yes	5	0.00000001	0.00008067
47	Yes	5	0.00000001	0.00007785
48	Yes	4	0.00000001	0.00022576
49	Yes	5	0.00000001	0.00008279
50	Yes	4	0.00000001	0.00098448

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	167 - 118.25	29.996	43	1.731	0.005
L2	122.75 - 77.75	15.226	43	1.324	0.001
L3	83.25 - 38.25	6.465	43	0.775	0.000
L4	45 - 0	1.808	43	0.369	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
171.000	Lightning Rod 5/8"x6'	43	29.996	1.731	0.005	30703
168.000	14" x 2' Top Hat	43	29.996	1.731	0.005	30703
167.000	FSA10-41-DIN	43	29.996	1.731	0.005	30703
160.000	RRUS 32 B2	43	27.486	1.676	0.005	21931
150.000	PCS 1900MHZ 4X45W-65MHZ	43	23.953	1.596	0.004	9030
148.000	APXVTM14-ALU-I20 w/ Mount Pipe	43	23.260	1.579	0.003	8079
138.000	APXVAARR24_43-U-NA20 w/	43	19.895	1.489	0.002	5292

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
	Mount Pipe					
130.000	SC3-W100AC	43	17.363	1.408	0.002	4148
123.000	MX08FRO665-21 w/ Mount Pipe	43	15.296	1.327	0.001	3565

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	167 - 118.25	124.251	22	7.187	0.021
L2	122.75 - 77.75	63.122	22	5.500	0.005
L3	83.25 - 38.25	26.807	22	3.218	0.002
L4	45 - 0	7.495	22	1.531	0.001

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
171.000	Lightning Rod 5/8"x6'	22	124.251	7.187	0.022	7605
168.000	14" x 2' Top Hat	22	124.251	7.187	0.022	7605
167.000	FSA10-41-DIN	22	124.251	7.187	0.022	7605
160.000	RRUS 32 B2	22	113.866	6.964	0.019	5431
150.000	PCS 1900MHZ 4X45W-65MHZ	22	99.248	6.632	0.014	2234
148.000	APXVTM14-ALU-I20 w/ Mount Pipe	22	96.380	6.562	0.014	1998
138.000	APXVAARR24_43-U-NA20 w/ Mount Pipe	22	82.455	6.187	0.010	1306
130.000	SC3-W100AC	22	71.971	5.847	0.007	1021
123.000	MX08FRO665-21 w/ Mount Pipe	22	63.415	5.512	0.006	876

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	167 - 118.25 (1)	TP32.36x24x0.25	48.750	0.000	0.0	24.867	-28.302	1454.720	0.019
L2	118.25 - 77.75 (2)	TP44.297x31.088x0.313	45.000	0.000	0.0	42.026	-38.386	2458.510	0.016
L3	77.75 - 38.25 (3)	TP52.877x42.058x0.375	45.000	0.000	0.0	60.559	-52.404	3542.690	0.015
L4	38.25 - 0 (4)	TP61.04x50.504x0.438	45.000	0.000	0.0	84.154	-72.320	4923.020	0.015

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	167 - 118.25 (1)	TP32.36x24x0.25	785.049	1099.992	0.714	0.000	1099.992	0.000
L2	118.25 - 77.75 (2)	TP44.297x31.088x0.313	1907.850	2445.117	0.780	0.000	2445.117	0.000
L3	77.75 - 38.25 (3)	TP52.877x42.058x0.375	3101.258	4229.900	0.733	0.000	4229.900	0.000
L4	38.25 - 0 (4)	TP61.04x50.504x0.438	4617.800	6946.783	0.665	0.000	6946.783	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	167 - 118.25 (1)	TP32.36x24x0.25	27.074	436.415	0.062	1.529	1197.717	0.001
L2	118.25 - 77.75 (2)	TP44.297x31.088x0.313	29.848	737.554	0.040	1.312	2736.742	0.000
L3	77.75 - 38.25 (3)	TP52.877x42.058x0.375	32.448	1062.810	0.031	1.308	4735.592	0.000
L4	38.25 - 0 (4)	TP61.04x50.504x0.438	34.880	1476.910	0.024	1.307	7838.325	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	167 - 118.25 (1)	0.019	0.714	0.000	0.062	0.001	0.737 ✔	1.050	4.8.2 ✔
L2	118.25 - 77.75 (2)	0.016	0.780	0.000	0.040	0.000	0.798 ✔	1.050	4.8.2 ✔
L3	77.75 - 38.25 (3)	0.015	0.733	0.000	0.031	0.000	0.749 ✔	1.050	4.8.2 ✔
L4	38.25 - 0 (4)	0.015	0.665	0.000	0.024	0.000	0.680 ✔	1.050	4.8.2 ✔

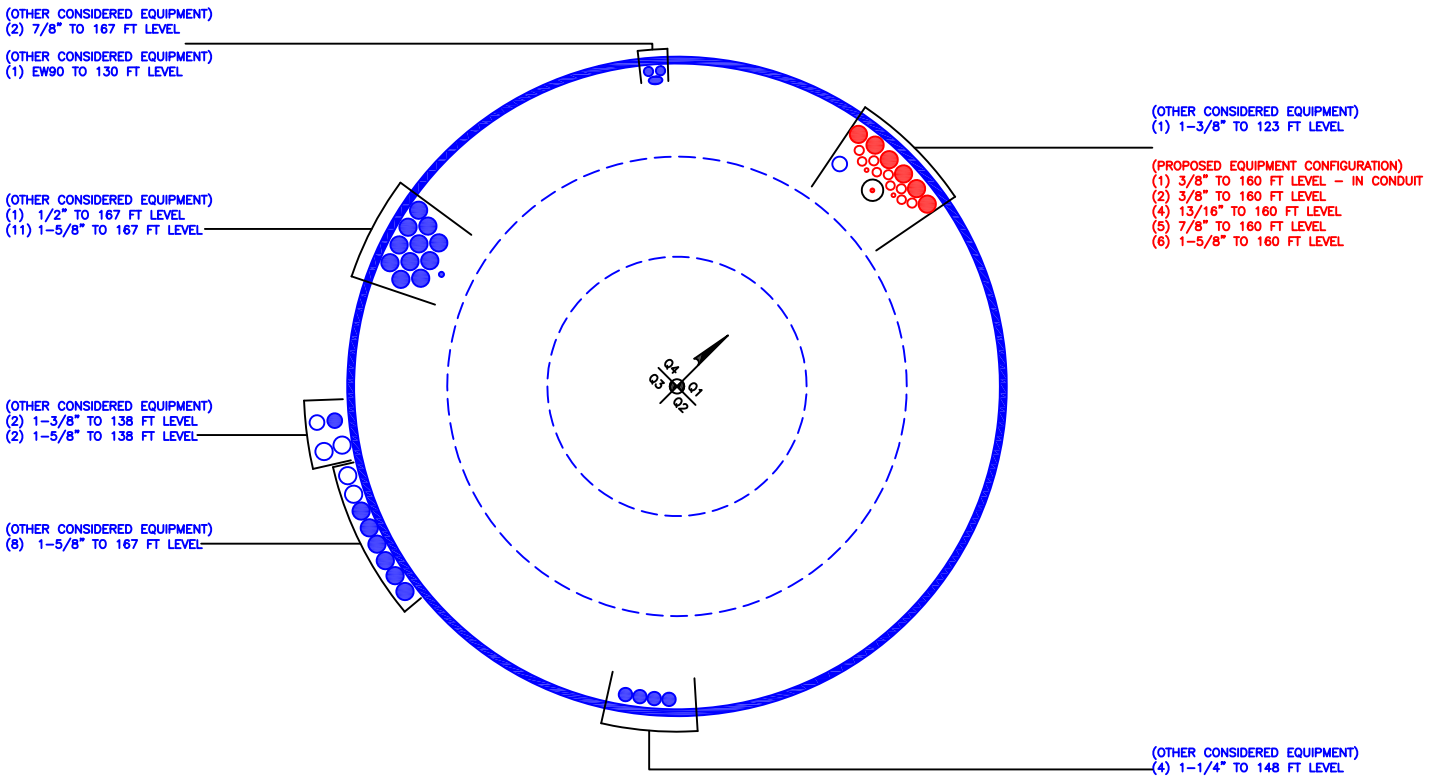
Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	167 - 118.25	Pole	TP32.36x24x0.25	1	-28.302	1527.456	70.2	Pass
L2	118.25 - 77.75	Pole	TP44.297x31.088x0.313	2	-38.386	2581.435	76.0	Pass
L3	77.75 - 38.25	Pole	TP52.877x42.058x0.375	3	-52.404	3719.824	71.3	Pass
L4	38.25 - 0	Pole	TP61.04x50.504x0.438	4	-72.320	5169.171	64.8	Pass
							Summary	
						Pole (L2)	76.0	Pass
						RATING =	**76.0**	**Pass**

Program Version 8.1.1.0

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 801367

APPENDIX C

ADDITIONAL CALCULATIONS

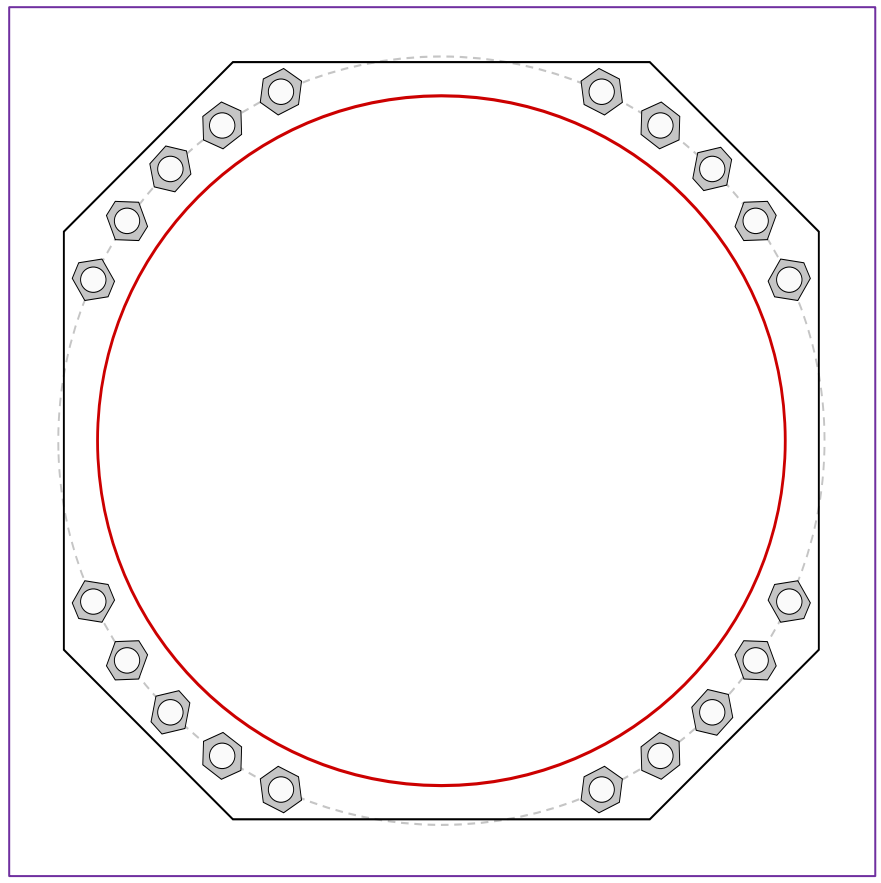
Monopole Base Plate Connection

Site Info	
BU #	801367
Site Name	NHV-2075 CAC 801367
Order #	586310, Rev# 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1

Applied Loads	
Moment (kip-ft)	4617.80
Axial Force (kips)	72.32
Shear Force (kips)	34.88

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(20) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 68" BC

Anchor Spacing: 6 in

Base Plate Data

67" W x 3" Plate (A572-55; Fy=55 ksi, Fu=70 ksi); Clip: 15 in

Stiffener Data

N/A

Pole Data

61.04" x 0.4375" 18-sided pole (A607-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

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

Pu_t = 159.29	ϕPn_t = 243.75	**Stress Rating**
Vu = 1.74	ϕVn = 149.1	**62.2%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	26.09	(Flexural)
Allowable Stress (ksi):	49.5	
Stress Rating:	**50.2%**	**Pass**

Pier and Pad Foundation

BU # :	801367
Site Name:	CT NHV-2075 CA(
App. Number:	586310, Rev# 0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions

Compression, P_{comp}:	72	kips
Base Shear, Vu_comp:	35	kips
Moment, M_u:	4618	ft-kips
Tower Height, **H**:	167	ft
BP Dist. Above Fdn, bp_{dist}:	3.25	in

Pier Properties

Pier Shape:	Circular	
Pier Diameter, **dpier**:	8	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	11	
Pier Rebar Quantity, **mc**:	40	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	12	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	7	ft
Pad Width, W_1:	26	ft
Pad Thickness, **T**:	4	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	10	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	35	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	3	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties

Total Soil Unit Weight, γ:	135	pcf
Ultimate Gross Bearing, Qult:	16.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	35	degrees
SPT Blow Count, N_{blows}:	100	
Base Friction, μ:		
Neglected Depth, **N**:	2.00	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

Foundation Analysis Checks

	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	418.80	35.00	**8.0%**	**Pass**
Bearing Pressure (ksf)	12.00	2.59	**21.6%**	**Pass**
*Overturning (kip*ft)*	8435.25	4889.98	**58.0%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	10992.95	4740.50	**41.1%**	**Pass**
Pier Compression (kip)	23994.73	103.67	**0.4%**	**Pass**
*Pad Flexure (kip*ft)*	8284.82	1663.89	**19.1%**	**Pass**
Pad Shear - 1-way (kips)	1104.67	229.52	**19.8%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.025	**14.4%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	12679.86	2844.30	**21.4%**	**Pass**

**Rating per TIA-222-H Section 15.5*

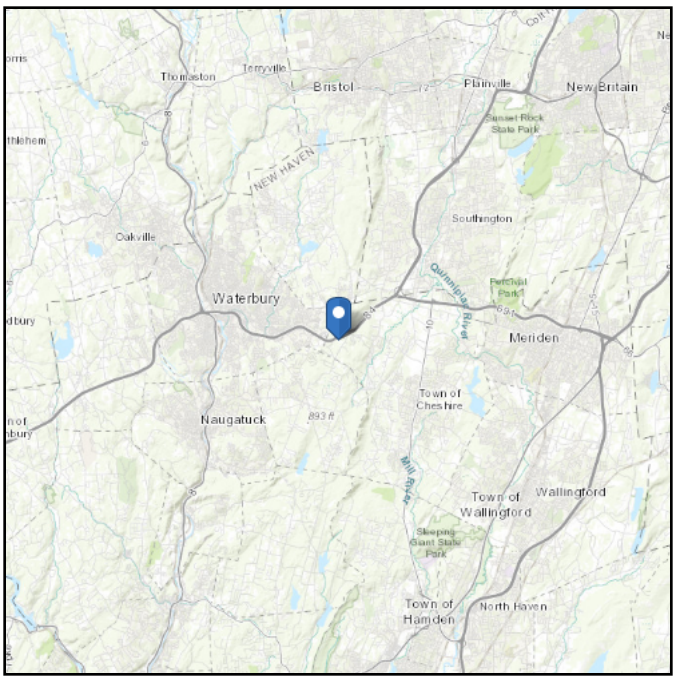
Structural Rating*:	**41.1%**
Soil Rating*:	**58.0%**

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: 615.93 ft (NAVD 88)
Latitude: 41.536444
Longitude: -72.957306



Wind

Results:

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

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu Dec 30 2021

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

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

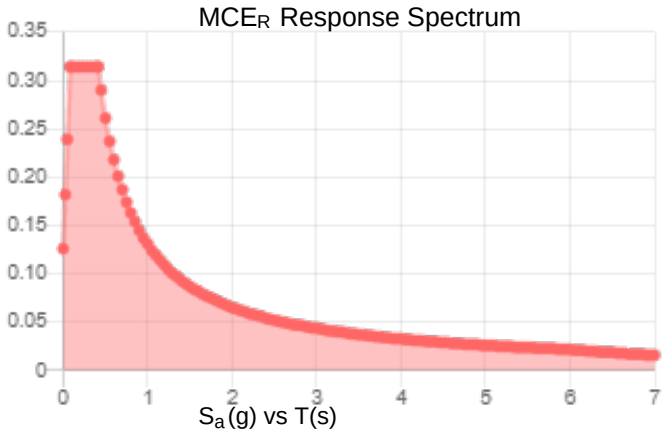
Seismic

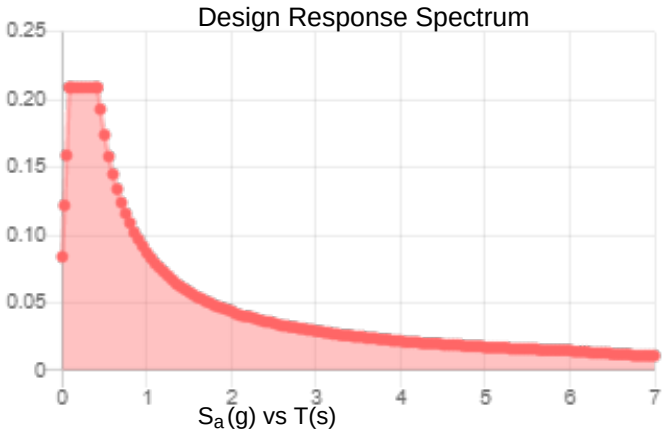
Site Soil Class: D - Default (see Section 11.4.3)

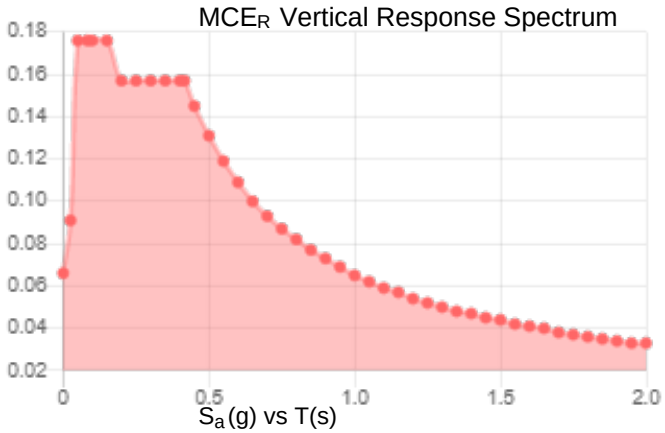
Results:

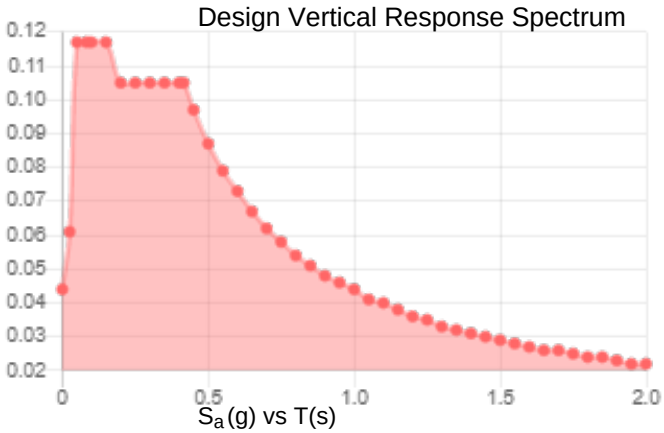
S_S :	0.196	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.108
F_v :	2.4	PGA_M :	0.172
S_{MS} :	0.314	F_{PGA} :	1.583
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.209	C_v :	0.7

Seismic Design Category B









Data Accessed: **Thu Dec 30 2021**

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:	Thu Dec 30 2021

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.

Exhibit E

Mount Analysis

December 27, 2021

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

Subject:	**Mount Analysis Report**	
Carrier Designation:	***AT&T Mobility* Equipment Change-Out**	
	Carrier Site Number:	CTL05263
	Carrier Site Name:	Cheshire Larsens Pond
	Carrier FA Number:	10090892
Crown Castle Designation:	**BU Number:**	801367
	Site Name:	CT NHV-2075 CAC 801367
	JDE Job Number:	686184
	Order Number:	586310 Rev. 0
Engineering Firm Designation:	**TEP Project Number:**	25630.636130
Site Data:	**1121 Summit Road, Cheshire, New Haven County, CT 06410** **Latitude *41° 32' 11.20"*, Longitude *-72° 57' 26.30"***	
Structure Information:	**Tower Height & Type:**	167.0±ft Monopole
	Mount Elevation:	160.0 ft
	Mount Width & Type:	14.0 ft Platform w/ Support Rail Mount

Tower Engineering Professionals is pleased to submit this **"Mount Analysis Report"** to determine the structural integrity of AT&T Mobility's antenna mounting system with the 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**

This analysis has been performed in accordance with the 2018 International Building Code based upon an ultimate 3-second gust wind speed of 118 mph. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount analysis prepared by: Jolene Kolsrud / PHX

Respectfully submitted by:

Electronic Copy

12/27/2021

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

TABLE OF CONTENTS

1) INTRODUCTION

This is an existing, 3-sector, 14.0' Platform w/ Support Rail mount mapped by Tower Engineering Professionals.

2) ANALYSIS CRITERIA

Building Code:	2018 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	118 mph
Exposure Category:	B
Topographic Factor at Base:	1
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.196
Seismic S_1:	0.054
Live Loading Wind Speed:	30 mph
Live Loading at Mid/End-Points:	250 lb
Man Live Loading at Mount Pipes:	500 lb
Ka:	0.9

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
160.0	163.0	3	Ericsson	RRUS 32 B2	Platform w/ Support Rail Mount
	162.0	3	Ericsson	AIR 6419 B77G	
	160.0	3	CCI Antennas	DMP65R-BU8D	
		3	Quintel Tech.	QD8616-7	
		3	Ericsson	RRUS 32 B30	
		3	Ericsson	RRUS 4426 B66	
		3	Ericsson	RRUS 4449 B5/B12	
		3	Ericsson	RRUS 4478 B14_CCIV2	
		3	Raycap	DC9-48-60-24-8C-EV_CCIV2	
	158.0	3	Ericsson	AIR 6449 B77D	

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
RFDS	AT&T Mobility	4783549	Crown
Mount Mapping	Tower Engineering Professionals	10051168	CCIsites

3.1) Analysis Method

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

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

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Mount Analysis (Revision D)*. In addition, this analysis is in accordance with AT&T's *Mount Technical Directive - R16*.

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed, and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's specifications.
2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
4) 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.
5) Steel grades have been assumed as follows, unless noted otherwise:
   a) Steel channel, solid round, angle, and plate: ASTM A36
   b) Steel pipe: ASTM A53-B-35
   c) Cold formed steel grade: Fy = 33 ksi

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	Centerline (ft)	% Capacity	Pass / Fail
1	Face Horizontals	FF-H3	160.0	64.0	Pass
	Support Horizontals	SF-H3		67.6	Pass
	Support Rails	HR-3		59.0	Pass
	Internals	HRC-2		49.2	Pass
	Kickers	K-2		19.5	Pass
	Mount Pipes	MP-10		68.0	Pass

Structure Rating (max from all components) =	68.0%

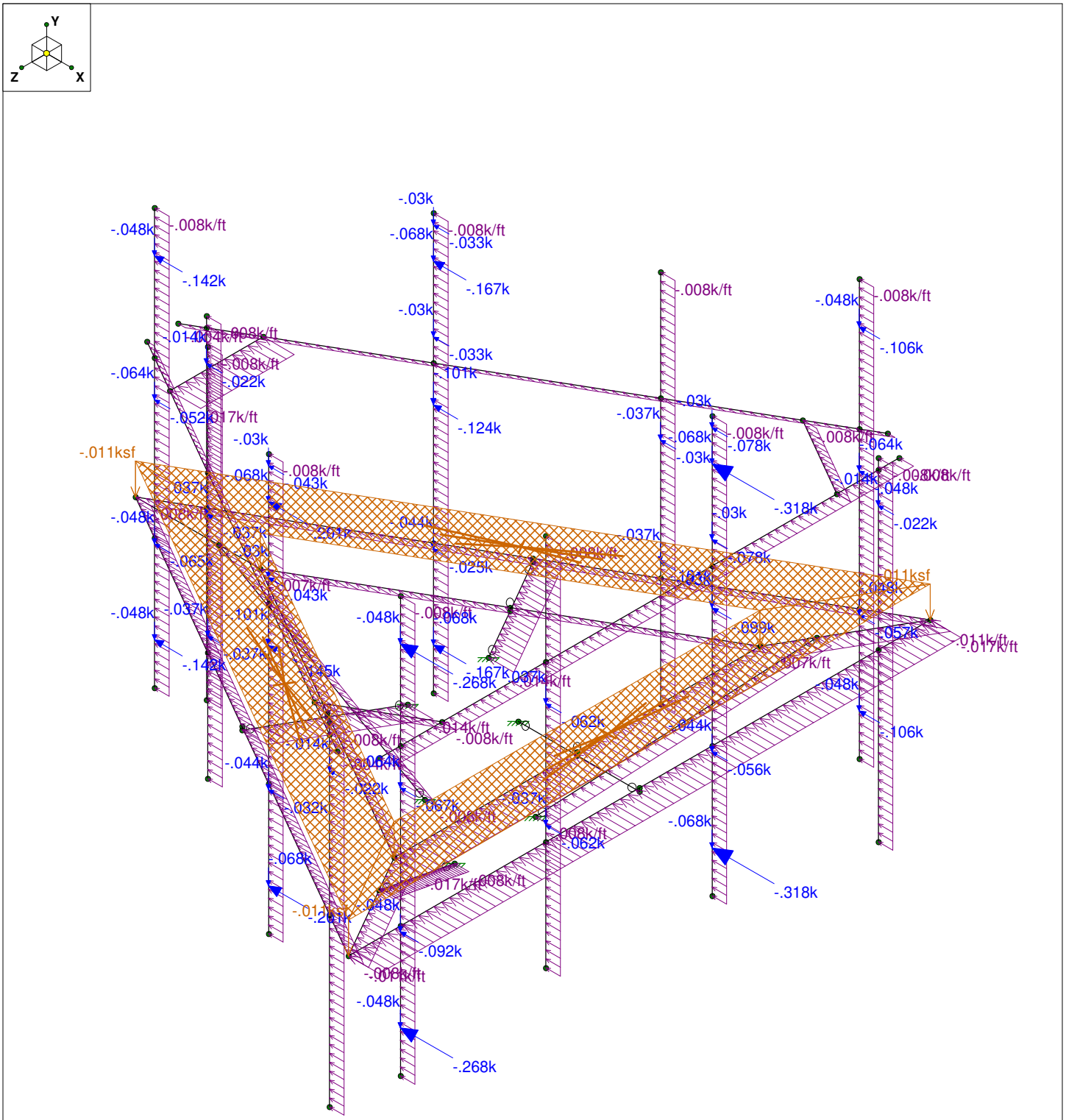
Notes:
1) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.
2) See additional documentation in "Appendix D - Additional Calculations" for calculations supporting the % capacity listed.

4.1) Recommendations

1) The mount has sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

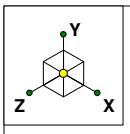
APPENDIX A

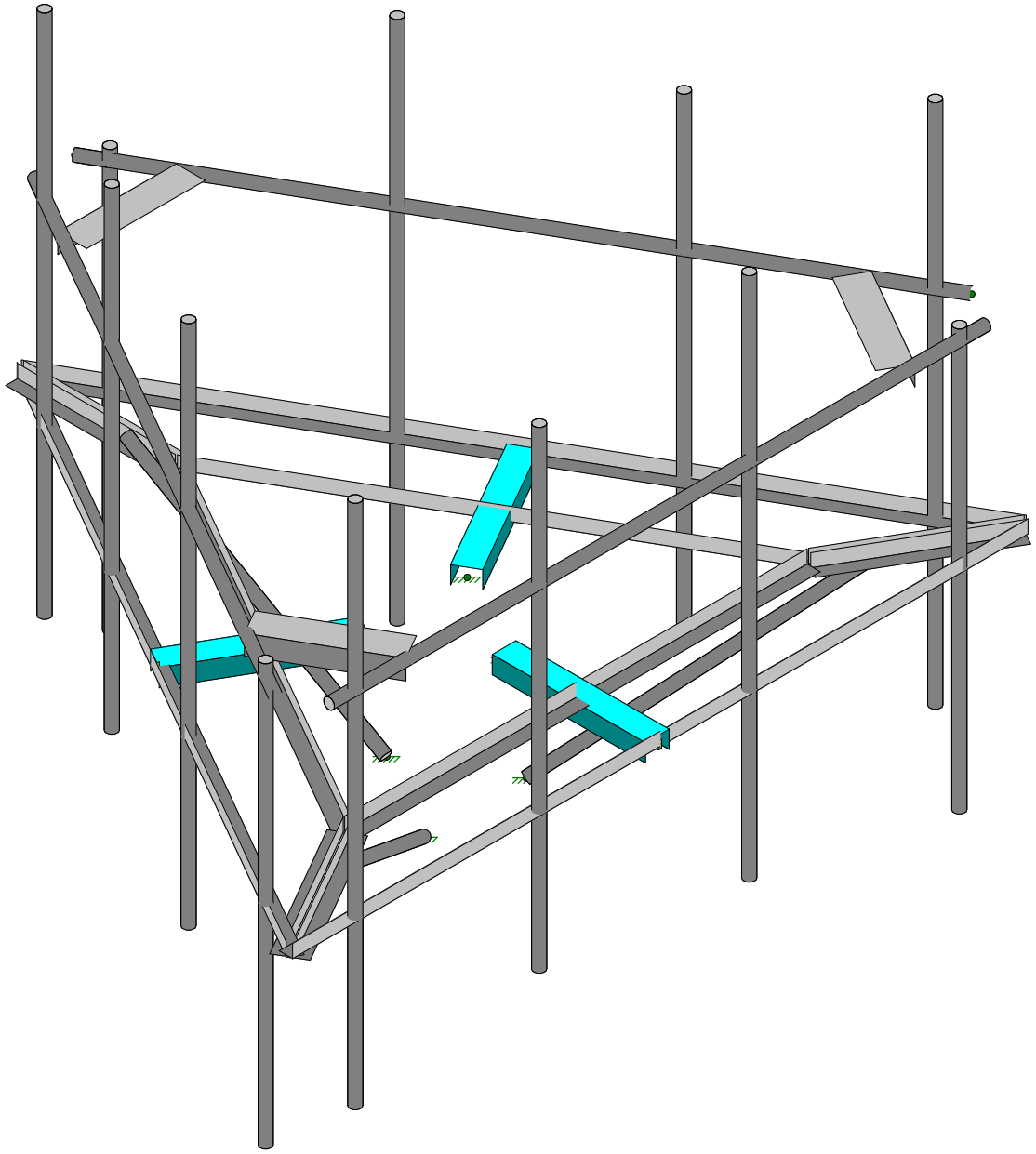
WIRE FRAME AND RENDERED MODELS



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

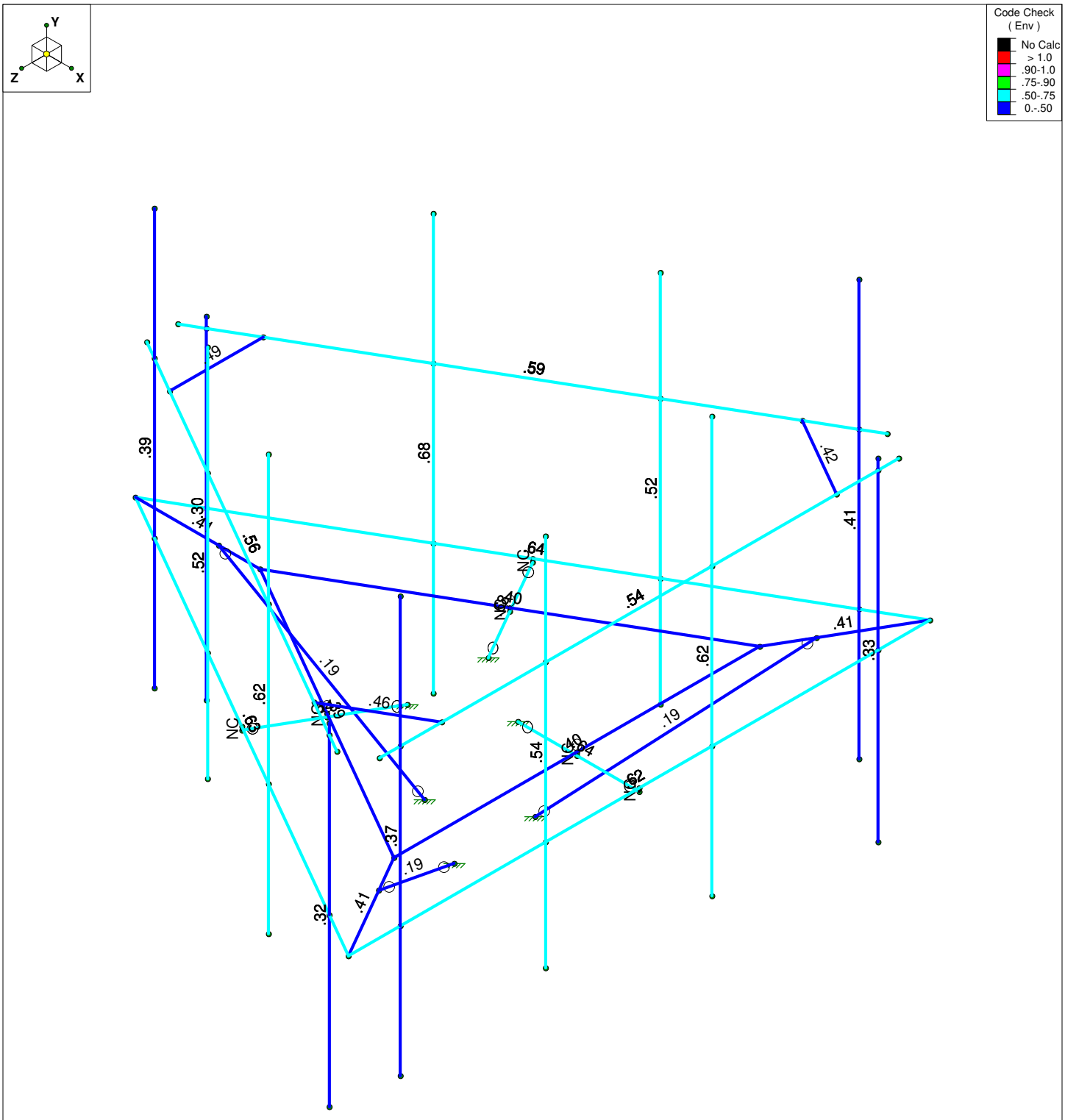
Tower Engineering Profes...	CT NHV-2075 CAC 801367 (BU 801367)	SK - 1
JXK		Dec 27, 2021 at 9:12 AM
TEP No. 25630.636130		Mount.r3d





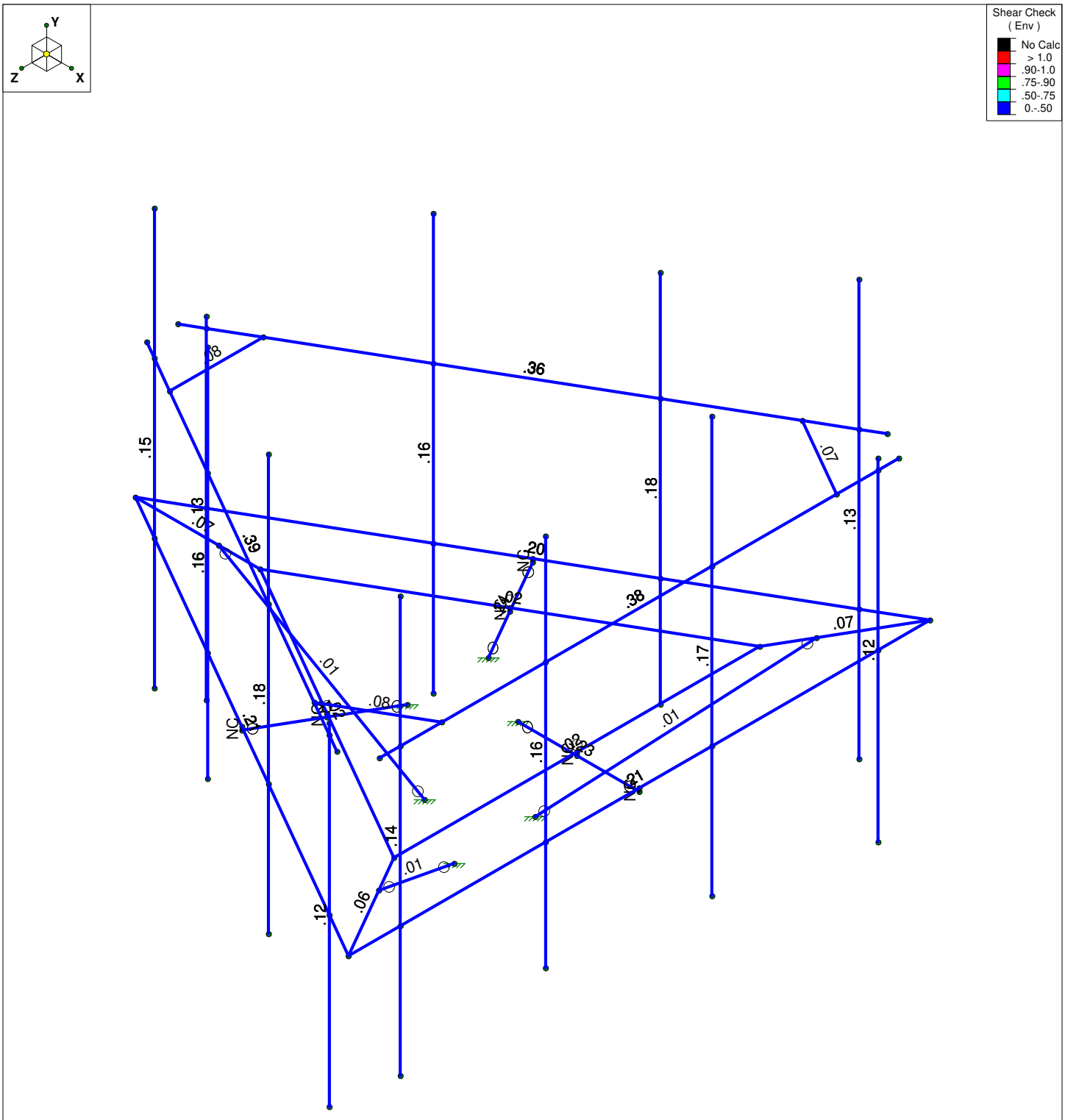
Envelope Only Solution

Tower Engineering Profes...	CT NHV-2075 CAC 801367 (BU 801367)	SK - 2
JXK		Dec 27, 2021 at 9:13 AM
TEP No. 25630.636130		Mount.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...	CT NHV-2075 CAC 801367 (BU 801367)	SK - 3
JXK		Dec 27, 2021 at 9:13 AM
TEP No. 25630.636130		Mount.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Tower Engineering Profes...	CT NHV-2075 CAC 801367 (BU 801367)	SK - 4
JXK		Dec 27, 2021 at 9:13 AM
TEP No. 25630.636130		Mount.r3d

APPENDIX B

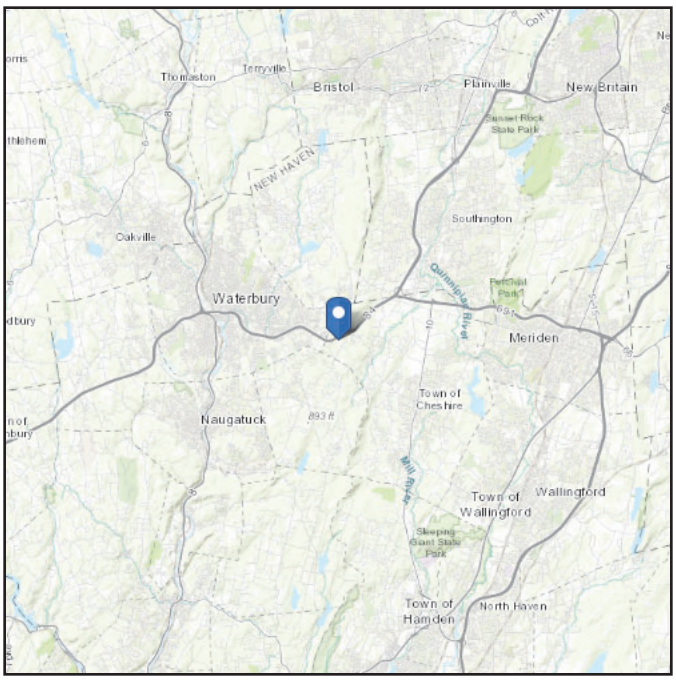
SOFTWARE INPUT CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 615.93 ft (NAVD 88)
Latitude: 41.536444
Longitude: -72.957306



Wind

Results:

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

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Wed Dec 22 2021

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.

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

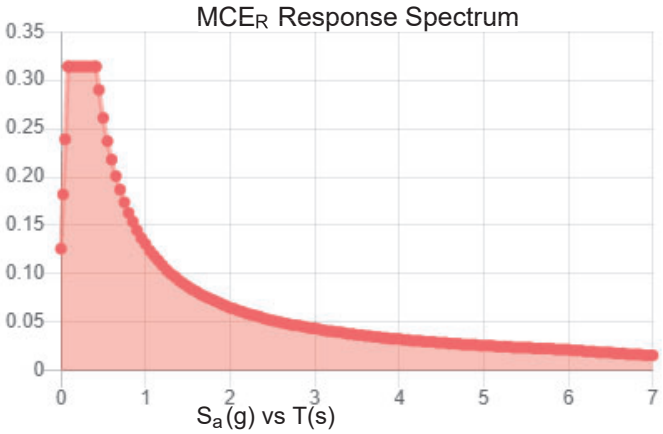
Seismic

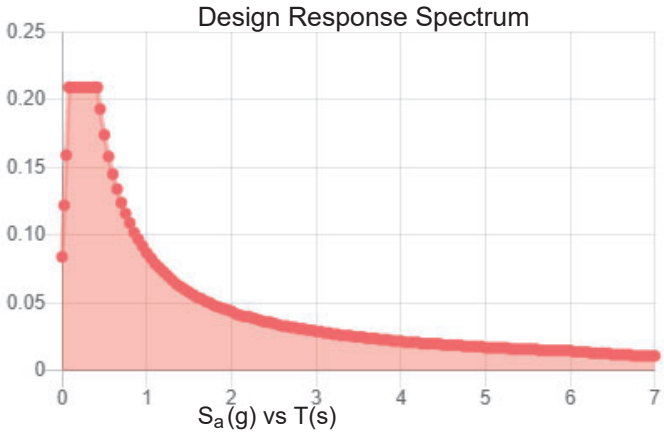
Site Soil Class: D - Default (see Section 11.4.3)

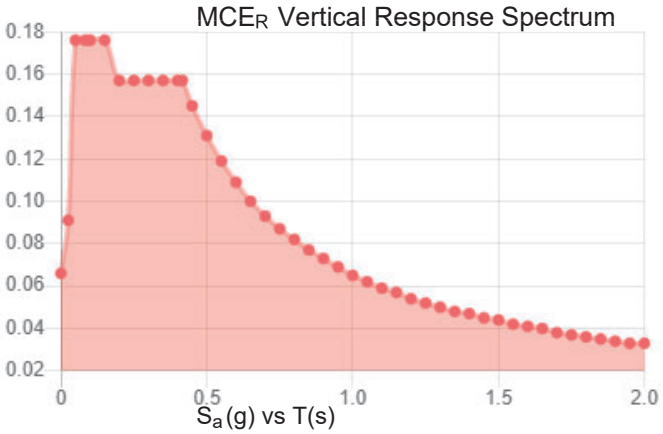
Results:

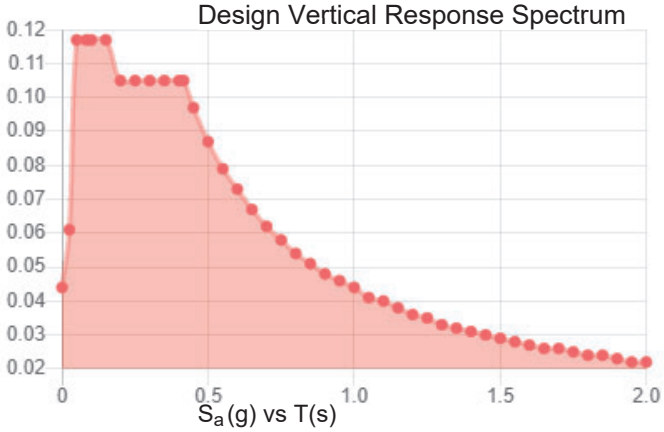
S_S :	0.196	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.108
F_v :	2.4	PGA_M :	0.172
S_{MS} :	0.314	F_{PGA} :	1.583
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.209	C_v :	0.7

Seismic Design Category B









Data Accessed: **Wed Dec 22 2021**

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.

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

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:	Wed Dec 22 2021

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

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

TOWER ENGINEERING PROFESSIONALS

CT NHV-2075 CAC 801367 (BU 801367)

TEP No.	25630.636130	
Analysis By:	JXK	12/27/2021
Checked By:	PHX	12/27/2021

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

Wind Inputs:

Ult. Wind Velocity:	118.0	mph
Live Load Velocity:	30.0	mph
Ice Wind Velocity:	50.0	mph
Base Ice Thickness:	1.00	inches
Mount Centerline:	160.0	ft
Antenna Centerline:	162.0	ft
Exposure Category:	B	
Topo Category:	1	
Risk Category:	II	
Ground Elevation:	616	ft

Wind Calculations:

K_{zt}:	1.000	Section 2.6.6
K_d:	0.950	
$K_{z\text{-}Mount}$:	1.130	Section 2.6.5.2
$K_{z\text{-}Antenna}$:	1.134	Section 2.6.5.2
K_{iz}:	1.172	Section 2.6.10
Ice Thickness:	1.172	inches - Section 2.6.10

Without Ice - (psf)		With Ice - (psf)	
$(q_zG_h)_{Mount}$:	37.43	$(q_zG_h)_{Mount}$:	6.72
$(q_zG_h)_{Antenna}$:	37.56	$(q_zG_h)_{Antenna}$:	6.74

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

Seismic Input

S_{DS}:	0.209	Design Short Period Spectral Accel.
I_p:	1.0	Importance Factor
R_p:	2.0	Response Modification Factor
ρ:	1.0	
A_s:	1.0	Applification Factor - TIA-222-H Section 2.7.8.1
S_1:	0.054	Spectral Acceleration at a Period of 1 Second

Seismic Design Force

Cs:	0.105	kips/kip	TIA-H Sec 2.7.7.1.1
Cs-min:	0.030	kips/kip	TIA-H Sec 2.7.7.1.1

TOWER ENGINEERING PROFESSIONALS

CT NHV-2075 CAC 801367 (BU 801367)

TEP No.	25630.636130	
Analysis By:	JXK	12/27/2021
Checked By:	PHX	12/27/2021

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

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

										Distance from start node of the member		
MFR	Model	Height (in)	Width (in)	Depth (in)	Wt. (lbs)	Azimuth°	Qty	Shape	Member Label	Location #1 (ft,%)	Location #2 (ft,%)	Location #3 (ft,%)
QUINTEL TECHNOLOGY	QD8616-7	96.00	22.00	9.60	150.00	0.00	1	Flat	MP-2	1.00	9.00	
ERICSSON	AIR 6419 B77G	27.95	15.75	6.68	66.20	0.00	1	Flat	MP-2	0.25	2.58	
ERICSSON	AIR 6449 B77D	30.39	15.87	8.07	81.60	0.00	1	Flat	MP-3	3.50	6.03	
CCI ANTENNAS	DMP65R-BU8D	96.00	20.70	7.70	105.60	0.00	1	Flat	MP-4	1.00	9.00	
QUINTEL TECHNOLOGY	QD8616-7	96.00	22.00	9.60	150.00	120.00	1	Flat	MP-6	1.00	9.00	
ERICSSON	AIR 6419 B77G	27.95	15.75	6.68	66.20	120.00	1	Flat	MP-6	0.25	2.58	
ERICSSON	AIR 6449 B77D	30.39	15.87	8.07	81.60	120.00	1	Flat	MP-7	3.50	6.03	
CCI ANTENNAS	DMP65R-BU8D	96.00	20.70	7.70	105.60	120.00	1	Flat	MP-8	1.00	9.00	
QUINTEL TECHNOLOGY	QD8616-7	96.00	22.00	9.60	150.00	260.00	1	Flat	MP-10	1.00	9.00	
ERICSSON	AIR 6419 B77G	27.95	15.75	6.68	66.20	260.00	1	Flat	MP-10	0.25	2.58	
ERICSSON	AIR 6449 B77D	30.39	15.87	8.07	81.60	260.00	1	Flat	MP-11	3.50	6.03	
CCI ANTENNAS	DMP65R-BU8D	96.00	20.70	7.70	105.60	260.00	1	Flat	MP-12	1.00	9.00	
ERICSSON	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	90.00	1	Flat	MP-2	4.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	90.00	1	Flat	MP-2	4.00		
ERICSSON	RRUS 4426 B66	14.96	13.19	5.80	48.40	0.00	1	Flat	MP-2	7.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	0.00	1	Flat	MP-4	4.00		
ERICSSON	RRUS 32 B30	27.20	12.05	7.00	52.90	0.00	1	Flat	MP-4	7.00		
ERICSSON	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	210.00	1	Flat	MP-6	4.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	210.00	1	Flat	MP-6	4.00		
ERICSSON	RRUS 4426 B66	14.96	13.19	5.80	48.40	120.00	1	Flat	MP-6	7.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	120.00	1	Flat	MP-8	4.00		
ERICSSON	RRUS 32 B30	27.20	12.05	7.00	52.90	120.00	1	Flat	MP-8	7.00		
ERICSSON	RRUS 4478 B14_CCIV2	18.10	13.40	8.26	59.40	310.00	1	Flat	MP-10	4.00		
ERICSSON	RRUS 32 B2	27.20	12.05	7.00	52.90	310.00	1	Flat	MP-10	4.00		
ERICSSON	RRUS 4426 B66	14.96	13.19	5.80	48.40	260.00	1	Flat	MP-10	7.00		
ERICSSON	RRUS 4449 B5/B12	17.90	13.19	9.44	71.00	260.00	1	Flat	MP-12	4.00		
ERICSSON	RRUS 32 B30	27.20	12.05	7.00	52.90	260.00	1	Flat	MP-12	7.00		
RAYCAP	DC9-48-60-24-8C-EV_CCIV2	17.90	10.24	10.24	16.00	0.00	1	Round	MP-1	1.00		
RAYCAP	DC9-48-60-24-8C-EV_CCIV2	17.90	10.24	10.24	16.00	0.00	1	Round	MP-5	1.00		
RAYCAP	DC9-48-60-24-8C-EV_CCIV2	17.90	10.24	10.24	16.00	0.00	1	Round	MP-9	1.00		

TOWER ENGINEERING PROFESSIONALS

CT NHV-2075 CAC 801367 (BU 801367)

TEP No.	25630.636130	
Analysis By:	JXK	12/27/2021
Checked By:	PHX	12/27/2021

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

Member Name	Wind Proj. (in)	Length (in)	Shape	θ (°)	Perimeter (in)
FF-H1	3.000	168.00	Flat	90.00	12.00
FF-H2	3.000	168.00	Flat	-30.00	12.00
FF-H3	3.000	168.00	Flat	30.00	12.00
GSC-1	3.000	36.00	Flat	-60.00	18.00
GSC-2	3.000	36.00	Flat	0.00	18.00
GSC-3	3.000	36.00	Flat	60.00	18.00
GSI-1	3.000	105.65	Flat	90.00	12.00
GSI-2	3.000	105.65	Flat	-30.00	12.00
GSI-3	3.000	105.65	Flat	30.00	12.00
HRC-1	4.460	27.00	Flat	30.00	22.12
HRC-2	4.460	27.00	Flat	90.00	22.12
HRC-3	4.460	27.00	Flat	-30.00	22.12
K-1	2.375	68.48	Round		7.46
K-2	2.375	68.48	Round		7.46
K-3	2.375	68.48	Round		7.46
MP-1	2.375	96.00	Round		7.46
MP-2	2.375	120.00	Round		7.46
MP-3	2.375	108.00	Round		7.46
MP-4	2.375	120.00	Round		7.46
MP-5	2.375	96.00	Round		7.46
MP-6	2.375	120.00	Round		7.46
MP-7	2.375	108.00	Round		7.46
MP-8	2.375	120.00	Round		7.46
MP-9	2.375	96.00	Round		7.46
MP-10	2.375	120.00	Round		7.46
MP-11	2.375	108.00	Round		7.46
MP-12	2.375	120.00	Round		7.46
SF-H1	4.000	35.00	Flat	0.00	16.00
SF-H2	4.000	35.00	Flat	60.00	16.00
SF-H3	4.000	35.00	Flat	-60.00	16.00
HR-1	2.375	150.00	Round	90.00	7.46
HR-2	2.375	150.00	Round	-30.00	7.46
HR-3	2.375	150.00	Round	30.00	7.46

APPENDIX C

SOFTWARE ANALYSIS OUTPUT

(Global) Model Settings

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

Hot Rolled Steel Code	AISC 15th(360-16): LRFD
Adjust Stiffness?	No
RISAConnection Code	None
Cold Formed Steel Code	AISI S100-16: LRFD
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

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

(Global) Model Settings, Continued

Seismic Code	ASCE 7-05
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Occupancy Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	4
Cd X	4
Rho Z	1
Rho X	1

Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	General				
2	RIGID		6	.5	0
3	Total General		6	.5	0
4					
5	Hot Rolled Steel				
6	A1011 36Ksi	L6.6x4.46x0.25	3	6.8	.062
7	A36 Gr.36	L3X3X4	6	68.4	.335
8	A36 Gr.36	LL3x3x4x6	3	9	.088
9	A53-B-35	PIPE_2.0 Nominal	18	165.6	.606
10	Total HR Steel		30	249.8	1.091
11					
12	Cold Formed Steel				
13	A570 Gr.33	PL-9 Support Arm	3	8.7	.132
14	Total CF Steel		3	8.7	.132

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53-B-35	29000	11154	.3	.65	.49	35	1.5	63	1.2
7	A1011 36Ksi	29000	11154	.3	.65	.49	33	1.5	58	1.2

Cold Formed Steel Properties

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

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design ...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horiz.	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
2	Mount Pipes	PIPE_2.0 Nominal	None	None	A53-B-35	Typical	1.075	.666	.666	1.331
3	Grating Support ...	LL3x3x4x6	None	None	A36 Gr.36	Typical	2.88	6.65	2.46	.063
4	Grating Support I...	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Support Rail	PIPE_2.0 Nominal	None	None	A53-B-35	Typical	1.075	.666	.666	1.331
6	Kickers	PIPE_2.0 Nominal	None	None	A53-B-35	Typical	1.075	.666	.666	1.331
7	Handrail Corner	L6.6x4.46x0.25	None	None	A1011 36Ksi	Typical	2.703	4.759	12.473	.055

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
1	FF-H1	FF1	FF3			Face Horiz.	None	None	A36 Gr.36	Typical
2	FF-H2	FF3	SF1-1			Face Horiz.	None	None	A36 Gr.36	Typical
3	FF-H3	SF1-1	FF1			Face Horiz.	None	None	A36 Gr.36	Typical
4	GSC-1	FF3	GSI13		180	Grating Support Corners	None	None	A36 Gr.36	Typical
5	GSC-2	SF1-1	GSI15		180	Grating Support Corners	None	None	A36 Gr.36	Typical
6	GSC-3	FF1	GSI14		180	Grating Support Corners	None	None	A36 Gr.36	Typical
7	GSI-1	GSI13	GSI14			Grating Support Internals	None	None	A36 Gr.36	Typical
8	GSI-2	GSI15	GSI13			Grating Support Internals	None	None	A36 Gr.36	Typical
9	GSI-3	GSI14	GSI15			Grating Support Internals	None	None	A36 Gr.36	Typical
10	HRC-1	N77	N78		90	Handrail Corner	None	None	A1011 36Ksi	Typical
11	HRC-2	N79	N80		90	Handrail Corner	None	None	A1011 36Ksi	Typical
12	HRC-3	N81	N76		90	Handrail Corner	None	None	A1011 36Ksi	Typical
13	K-1	N86	N87			Kickers	None	None	A53-B-35	Typical
14	K-2	N82	N83			Kickers	None	None	A53-B-35	Typical
15	K-3	N84	N85			Kickers	None	None	A53-B-35	Typical
16	MP-1	FF5	FF6			Mount Pipes	None	None	A53-B-35	Typical
17	MP-2	N22	N23			Mount Pipes	None	None	A53-B-35	Typical
18	MP-3	N25	N26			Mount Pipes	None	None	A53-B-35	Typical
19	MP-4	FF11	FF12			Mount Pipes	None	None	A53-B-35	Typical
20	MP-5	N40A	N41A			Mount Pipes	None	None	A53-B-35	Typical
21	MP-6	N46	N47			Mount Pipes	None	None	A53-B-35	Typical
22	MP-7	N49	N50			Mount Pipes	None	None	A53-B-35	Typical
23	MP-8	N42A	N43			Mount Pipes	None	None	A53-B-35	Typical
24	MP-9	N56A	N57A			Mount Pipes	None	None	A53-B-35	Typical
25	MP-10	N62A	N63A			Mount Pipes	None	None	A53-B-35	Typical
26	MP-11	N65	N66			Mount Pipes	None	None	A53-B-35	Typical
27	MP-12	N58A	N59A			Mount Pipes	None	None	A53-B-35	Typical
28	M-25	SA4	N52			RIGID	None	None	RIGID	Typical
29	M-26	N39	N55			RIGID	None	None	RIGID	Typical
30	M-27	N41	N57			RIGID	None	None	RIGID	Typical
31	M-28	SA6	N54			RIGID	None	None	RIGID	Typical
32	M-29	N40	N56			RIGID	None	None	RIGID	Typical
33	M-30	SA5	N53			RIGID	None	None	RIGID	Typical
34	SF-H1	SA1	SA4		90	Support Arms	None	None	A570 Gr.33	Typical
35	SF-H2	SA3	SA6		90	Support Arms	None	None	A570 Gr.33	Typical
36	SF-H3	SA2	SA5		90	Support Arms	None	None	A570 Gr.33	Typical
37	HR-1	N58	N59			Support Rail	None	None	A53-B-35	Typical
38	HR-2	N72	N73			Support Rail	None	None	A53-B-35	Typical

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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9:13 AM
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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
39	HR-3	N74	N75			Support Rail	None	None	A53-B-35	Typical

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Support Arms	PL-9 Support Arm	None	None	A570 Gr.33	Typical	4.433	7.05	19.675	.208

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ra...	Analysis ...	Inactive	Seismi...
1	FF-H1						Yes	** NA **			None
2	FF-H2						Yes	** NA **			None
3	FF-H3						Yes	** NA **			None
4	GSC-1						Yes	** NA **			None
5	GSC-2						Yes	** NA **			None
6	GSC-3						Yes	** NA **			None
7	GSI-1						Yes	** NA **			None
8	GSI-2						Yes	** NA **			None
9	GSI-3						Yes	** NA **			None
10	HRC-1						Yes	** NA **			None
11	HRC-2						Yes	** NA **			None
12	HRC-3						Yes	** NA **			None
13	K-1	BenPIN	BenPIN				Yes	** NA **			None
14	K-2	BenPIN	BenPIN				Yes	** NA **			None
15	K-3	BenPIN	BenPIN				Yes	** NA **			None
16	MP-1						Yes	** NA **			None
17	MP-2						Yes	** NA **			None
18	MP-3						Yes	** NA **			None
19	MP-4						Yes	** NA **			None
20	MP-5						Yes	** NA **			None
21	MP-6						Yes	** NA **			None
22	MP-7						Yes	** NA **			None
23	MP-8						Yes	** NA **			None
24	MP-9						Yes	** NA **			None
25	MP-10						Yes	** NA **			None
26	MP-11						Yes	** NA **			None
27	MP-12						Yes	** NA **			None
28	M-25						Yes	** NA **			None
29	M-26	OOOXOO					Yes	** NA **			None
30	M-27	OOOXOO					Yes	** NA **			None
31	M-28						Yes	** NA **			None
32	M-29	OOOXOO					Yes	** NA **			None
33	M-30						Yes	** NA **			None
34	SF-H1	OOOXOO	BenPIN				Yes	** NA **			None
35	SF-H2	OOOXOO	BenPIN				Yes	** NA **			None
36	SF-H3	OOOXOO	BenPIN				Yes	** NA **			None
37	HR-1						Yes	** NA **			None
38	HR-2						Yes	** NA **			None
39	HR-3						Yes	** NA **			None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top...	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
1	FF-H1	Face Horiz.	14	7	7				.65	.65		Lateral
2	FF-H2	Face Horiz.	14	7	7				.65	.65		Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top...	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
3	FF-H3	Face Horiz.	14	7	7				.65	.65		Lateral
4	GSC-1	Grating Support Cor...	3						.65	2.1		Lateral
5	GSC-2	Grating Support Cor...	3						.65	2.1		Lateral
6	GSC-3	Grating Support Cor...	3						.65	2.1		Lateral
7	GSI-1	Grating Support Inte...	8.804	4.402	4.402				.65	.65		Lateral
8	GSI-2	Grating Support Inte...	8.804	4.402	4.402				.65	.65		Lateral
9	GSI-3	Grating Support Inte...	8.804	4.402	4.402				.65	.65		Lateral
10	HRC-1	Handrail Corner	2.25						.65	.65		Lateral
11	HRC-2	Handrail Corner	2.25						.65	.65		Lateral
12	HRC-3	Handrail Corner	2.25						.65	.65		Lateral
13	K-1	Kickers	5.706						1	1		Lateral
14	K-2	Kickers	5.706						1	1		Lateral
15	K-3	Kickers	5.706						1	1		Lateral
16	MP-1	Mount Pipes	8	Segment	Segment				2.1	2.1		Lateral
17	MP-2	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
18	MP-3	Mount Pipes	9	Segment	Segment				2.1	2.1		Lateral
19	MP-4	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
20	MP-5	Mount Pipes	8	Segment	Segment				2.1	2.1		Lateral
21	MP-6	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
22	MP-7	Mount Pipes	9	Segment	Segment				2.1	2.1		Lateral
23	MP-8	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
24	MP-9	Mount Pipes	8	Segment	Segment				2.1	2.1		Lateral
25	MP-10	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
26	MP-11	Mount Pipes	9	Segment	Segment				2.1	2.1		Lateral
27	MP-12	Mount Pipes	10	Segment	Segment				2.1	2.1		Lateral
28	HR-1	Support Rail	12.5	9.5	9.5				1	1		Lateral
29	HR-2	Support Rail	12.5	9.5	9.5				1	1		Lateral
30	HR-3	Support Rail	12.5	9.5	9.5				1	1		Lateral

Cold Formed Steel Design Parameters

	Label	Shape	Length...	Lbyy[ft]	Lbzz[ft]	Lcomp to...	Lcomp bo...	L-torque[ft]	Kyy	Kzz	Cb	R	a[ft]	Funct...
1	SF-H1	Support A...	2.916						.65	.65				Lateral
2	SF-H2	Support A...	2.916						.65	.65				Lateral
3	SF-H3	Support A...	2.916						.65	.65				Lateral

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	SA1	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	SA2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	SA3	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N82	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N84	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N86	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Dead	None		-1			42		3	
2	0 Wind - No Ice	None					42	33		
3	30 Wind - No Ice	None					84	66		
4	45 Wind - No Ice	None					84	66		
5	60 Wind - No Ice	None					84	66		
6	90 Wind - No Ice	None					42	33		

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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
7	120 Wind - No Ice	None					84	66		
8	135 Wind - No Ice	None					84	66		
9	150 Wind - No Ice	None					84	66		
10	180 Wind - No Ice	None					42	33		
11	210 Wind - No Ice	None					84	66		
12	225 Wind - No Ice	None					84	66		
13	240 Wind - No Ice	None					84	66		
14	270 Wind - No Ice	None					42	33		
15	300 Wind - No Ice	None					84	66		
16	315 Wind - No Ice	None					84	66		
17	330 Wind - No Ice	None					84	66		
18	Ice Weight	None					42	33	3	
19	0 Wind - Ice	None					42	33		
20	30 Wind - Ice	None					84	66		
21	45 Wind - Ice	None					84	66		
22	60 Wind - Ice	None					84	66		
23	90 Wind - Ice	None					42	33		
24	120 Wind - Ice	None					84	66		
25	135 Wind - Ice	None					84	66		
26	150 Wind - Ice	None					84	66		
27	180 Wind - Ice	None					42	33		
28	210 Wind - Ice	None					84	66		
29	225 Wind - Ice	None					84	66		
30	240 Wind - Ice	None					84	66		
31	270 Wind - Ice	None					42	33		
32	300 Wind - Ice	None					84	66		
33	315 Wind - Ice	None					84	66		
34	330 Wind - Ice	None					84	66		
35	Lm	None				1				
36	Lv	None				1				
37	Seismic Load X	ELX	-1				42			
38	Seismic Load Z	ELZ			-1		42			
39	BLC 1 Transient Area...	None						30		
40	BLC 18 Transient Are...	None						30		

Load Combinations

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

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
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-...	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																		
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 12...	Yes	Y		1	1.2	18	1	24	1																		
40	1.2D+1.0Di+1.0 13...	Yes	Y		1	1.2	18	1	25	1																		
41	1.2D+1.0Di+1.0 15...	Yes	Y		1	1.2	18	1	26	1																		
42	1.2D+1.0Di+1.0 18...	Yes	Y		1	1.2	18	1	27	1																		
43	1.2D+1.0Di+1.0 21...	Yes	Y		1	1.2	18	1	28	1																		
44	1.2D+1.0Di+1.0 22...	Yes	Y		1	1.2	18	1	29	1																		
45	1.2D+1.0Di+1.0 24...	Yes	Y		1	1.2	18	1	30	1																		
46	1.2D+1.0Di+1.0 27...	Yes	Y		1	1.2	18	1	31	1																		
47	1.2D+1.0Di+1.0 30...	Yes	Y		1	1.2	18	1	32	1																		
48	1.2D+1.0Di+1.0 31...	Yes	Y		1	1.2	18	1	33	1																		
49	1.2D+1.0Di+1.0 33...	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	.065	35	1.5																		
52	1.2D+1.5Lm+1.0 30...	Yes	Y		1	1.2	3	.065	35	1.5																		
53	1.2D+1.5Lm+1.0 45...	Yes	Y		1	1.2	4	.065	35	1.5																		
54	1.2D+1.5Lm+1.0 60...	Yes	Y		1	1.2	5	.065	35	1.5																		
55	1.2D+1.5Lm+1.0 90...	Yes	Y		1	1.2	6	.065	35	1.5																		
56	1.2D+1.5Lm+1.0 12...	Yes	Y		1	1.2	7	.065	35	1.5																		
57	1.2D+1.5Lm+1.0 13...	Yes	Y		1	1.2	8	.065	35	1.5																		
58	1.2D+1.5Lm+1.0 15...	Yes	Y		1	1.2	9	.065	35	1.5																		
59	1.2D+1.5Lm+1.0 18...	Yes	Y		1	1.2	10	.065	35	1.5																		
60	1.2D+1.5Lm+1.0 21...	Yes	Y		1	1.2	11	.065	35	1.5																		
61	1.2D+1.5Lm+1.0 22...	Yes	Y		1	1.2	12	.065	35	1.5																		
62	1.2D+1.5Lm+1.0 24...	Yes	Y		1	1.2	13	.065	35	1.5																		
63	1.2D+1.5Lm+1.0 27...	Yes	Y		1	1.2	14	.065	35	1.5																		
64	1.2D+1.5Lm+1.0 30...	Yes	Y		1	1.2	15	.065	35	1.5																		
65	1.2D+1.5Lm+1.0 31...	Yes	Y		1	1.2	16	.065	35	1.5																		
66	1.2D+1.5Lm+1.0 33...	Yes	Y		1	1.2	17	.065	35	1.5																		
67	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	.104	0																			
68	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	.09	ELZ	.052																		
69	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	.074	ELZ	.074																		
70	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	.052	ELZ	.09																		
71	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	0		ELZ	.104																		
72	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	-.052	ELZ	.09																		
73	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	-.074	ELZ	.074																		
74	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	-.09	ELZ	.052																		
75	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	-.104	0																			

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
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Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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9:13 AM
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Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
76	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	-.09	ELZ	-.052																		
77	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	-.074	ELZ	-.074																		
78	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	-.052	ELZ	-.09																		
79	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	0		ELZ	-.104																		
80	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	.052	ELZ	-.09																		
81	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	.074	ELZ	-.074																		
82	(1.2+0.2Sds)D+1.0 ...	Yes	Y		1	1.242	ELX	.09	ELZ	-.052																		
83	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	.104	0																			
84	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	.09	ELZ	.052																		
85	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	.074	ELZ	.074																		
86	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	.052	ELZ	.09																		
87	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	0		ELZ	.104																		
88	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	-.052	ELZ	.09																		
89	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	-.074	ELZ	.074																		
90	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	-.09	ELZ	.052																		
91	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	-.104	0																			
92	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	-.09	ELZ	-.052																		
93	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	-.074	ELZ	-.074																		
94	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	-.052	ELZ	-.09																		
95	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	0		ELZ	-.104																		
96	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	.052	ELZ	-.09																		
97	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	.074	ELZ	-.074																		
98	(0.9-0.2Sds)*DL+1....	Yes	Y		1	.858	ELX	.09	ELZ	-.052																		

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	SA1	1.125	0	0	0	
2	SA2	-0.5625	0	-0.974279	0	
3	SA3	-0.5625	0	0.974279	0	
4	SA4	4.041452	0	0	0	
5	SA5	-2.020726	0	-3.5	0	
6	SA6	-2.020726	0	3.5	0	
7	GSI13	2.541452	.075	4.401924	0	
8	GSI14	2.541452	.075	-4.401924	0	
9	GSI15	-5.082904	.075	0	0	
10	FF1	4.041452	.075	-7	0	
11	FF3	4.041452	.075	7	0	
12	FF5	4.041452	4.075	-5.75	0	
13	FF6	4.041452	-3.925	-5.75	0	
14	FF11	4.041452	6.95	5.75	0	
15	FF12	4.041452	-3.05	5.75	0	
16	SF1-1	-8.082904	.075	0	0	
17	N39	2.541452	0	0	0	
18	N40	-1.270726	0	-2.200962	0	
19	N41	-1.270726	0	2.200962	0	
20	N42	4.041452	.075	-5.75	0	
21	N45	4.041452	.075	5.75	0	
22	N22	4.041452	6.95	-1.75	0	
23	N23	4.041452	-3.05	-1.75	0	
24	N24	4.041452	.075	-1.75	0	
25	N25	4.041452	6.45	2.25	0	
26	N26	4.041452	-2.55	2.25	0	
27	N27	4.041452	.075	2.25	0	
28	N52	4.041452	.075	0	0	
29	N53	-2.020726	.075	-3.5	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
30	N54	-2.020726	.075	3.5	0	
31	N55	2.541452	.075	0	0	
32	N56	-1.270726	.075	-2.200962	0	
33	N57	-1.270726	.075	2.200962	0	
34	N58	4.041452	3.825	-6.25	0	
35	N59	4.041452	3.825	6.25	0	
36	N60	4.041452	3.825	-5.75	0	
37	N61	4.041452	3.825	-1.75	0	
38	N62	4.041452	3.825	5.75	0	
39	N63	4.041452	3.825	2.25	0	
40	N40A	2.95892	4.075	6.375	0	
41	N41A	2.95892	-3.925	6.375	0	
42	N42A	-7.000372	6.95	0.625	0	
43	N43	-7.000372	-3.05	0.625	0	
44	N44	2.95892	.075	6.375	0	
45	N45A	-7.000372	.075	0.625	0	
46	N46	-0.505182	6.95	4.375	0	
47	N47	-0.505182	-3.05	4.375	0	
48	N48	-0.505182	.075	4.375	0	
49	N49	-3.969283	6.45	2.375	0	
50	N50	-3.969283	-2.55	2.375	0	
51	N51	-3.969283	.075	2.375	0	
52	N52A	2.95892	3.825	6.375	0	
53	N53A	-0.505182	3.825	4.375	0	
54	N54A	-7.000372	3.825	0.625	0	
55	N55A	-3.969283	3.825	2.375	0	
56	N56A	-7.000372	4.075	-0.625	0	
57	N57A	-7.000372	-3.925	-0.625	0	
58	N58A	2.95892	6.95	-6.375	0	
59	N59A	2.95892	-3.05	-6.375	0	
60	N60A	-7.000372	.075	-0.625	0	
61	N61A	2.95892	.075	-6.375	0	
62	N62A	-3.53627	6.95	-2.625	0	
63	N63A	-3.53627	-3.05	-2.625	0	
64	N64	-3.53627	.075	-2.625	0	
65	N65	-0.072169	6.45	-4.625	0	
66	N66	-0.072169	-2.55	-4.625	0	
67	N67	-0.072169	.075	-4.625	0	
68	N68	-7.000372	3.825	-0.625	0	
69	N69	-3.53627	3.825	-2.625	0	
70	N70	2.95892	3.825	-6.375	0	
71	N71	-0.072169	3.825	-4.625	0	
72	N72	3.391933	3.825	6.625	0	
73	N73	-7.433385	3.825	0.375	0	
74	N74	-7.433385	3.825	-0.375	0	
75	N75	3.391933	3.825	-6.625	0	
76	N76	4.041452	3.825	-4.75	0	
77	N77	4.041452	3.825	4.75	0	
78	N78	2.092895	3.825	5.875	0	
79	N79	-6.134347	3.825	1.125	0	
80	N80	-6.134347	3.825	-1.125	0	
81	N81	2.092895	3.825	-5.875	0	
82	N82	-1.125	-2.75	0	0	
83	N83	-6.082904	.075	0	0	
84	N84	0.5625	-2.75	-0.974279	0	
85	N85	3.041452	.075	-5.267949	0	
86	N86	0.5625	-2.75	0.974279	0	

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
87	N87	3.041452	.075	5.267949	0	

Joint Loads and Enforced Displacements (BLC 35 : Lm)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft,...
1	FF12	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,...
1	FF3	L	Y	-.25

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Y	-.075	1
2	MP-2	Y	-.033	.25
3	MP-3	Y	-.041	3.5
4	MP-4	Y	-.053	1
5	MP-6	Y	-.075	1
6	MP-6	Y	-.033	.25
7	MP-7	Y	-.041	3.5
8	MP-8	Y	-.053	1
9	MP-10	Y	-.075	1
10	MP-10	Y	-.033	.25
11	MP-11	Y	-.041	3.5
12	MP-12	Y	-.053	1
13	MP-2	Y	-.059	4
14	MP-2	Y	-.053	4
15	MP-2	Y	-.048	7
16	MP-4	Y	-.071	4
17	MP-4	Y	-.053	7
18	MP-6	Y	-.059	4
19	MP-6	Y	-.053	4
20	MP-6	Y	-.048	7
21	MP-8	Y	-.071	4
22	MP-8	Y	-.053	7
23	MP-10	Y	-.059	4
24	MP-10	Y	-.053	4
25	MP-10	Y	-.048	7
26	MP-12	Y	-.071	4
27	MP-12	Y	-.053	7
28	MP-1	Y	-.016	1
29	MP-5	Y	-.016	1
30	MP-9	Y	-.016	1
31	MP-2	Y	-.075	9
32	MP-2	Y	-.033	2.579
33	MP-3	Y	-.041	6.032
34	MP-4	Y	-.053	9
35	MP-6	Y	-.075	9
36	MP-6	Y	-.033	2.579
37	MP-7	Y	-.041	6.032
38	MP-8	Y	-.053	9
39	MP-10	Y	-.075	9
40	MP-10	Y	-.033	2.579
41	MP-11	Y	-.041	6.032

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
42	MP-12	Y	-.053	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.318	1
2	MP-2	X	-.078	.25
3	MP-3	X	-.062	3.5
4	MP-4	X	-.268	1
5	MP-6	X	-.201	1
6	MP-6	X	-.043	.25
7	MP-7	X	-.037	3.5
8	MP-8	X	-.142	1
9	MP-10	X	-.167	1
10	MP-10	X	-.033	.25
11	MP-11	X	-.03	3.5
12	MP-12	X	-.106	1
13	MP-2	X	-.042	4
14	MP-2	X	-.056	4
15	MP-2	X	-.056	7
16	MP-4	X	-.067	4
17	MP-4	X	-.092	7
18	MP-6	X	-.062	4
19	MP-6	X	-.083	4
20	MP-6	X	-.032	7
21	MP-8	X	-.052	4
22	MP-8	X	-.065	7
23	MP-10	X	-.053	4
24	MP-10	X	-.071	4
25	MP-10	X	-.025	7
26	MP-12	X	-.048	4
27	MP-12	X	-.057	7
28	MP-1	X	-.022	1
29	MP-5	X	-.022	1
30	MP-9	X	-.022	1
31	MP-2	X	-.318	9
32	MP-2	X	-.078	2.579
33	MP-3	X	-.062	6.032
34	MP-4	X	-.268	9
35	MP-6	X	-.201	9
36	MP-6	X	-.043	2.579
37	MP-7	X	-.037	6.032
38	MP-8	X	-.142	9
39	MP-10	X	-.167	9
40	MP-10	X	-.033	2.579
41	MP-11	X	-.03	6.032
42	MP-12	X	-.106	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.242	1
2	MP-2	X	-.058	.25
3	MP-3	X	-.046	3.5
4	MP-4	X	-.196	1
5	MP-6	X	-.141	1
6	MP-6	X	-.027	.25
7	MP-7	X	-.025	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
8	MP-8	X	-.087	1
9	MP-10	X	-.196	1
10	MP-10	X	-.044	.25
11	MP-11	X	-.037	3.5
12	MP-12	X	-.147	1
13	MP-2	X	-.042	4
14	MP-2	X	-.057	4
15	MP-2	X	-.041	7
16	MP-4	X	-.054	4
17	MP-4	X	-.072	7
18	MP-6	X	-.059	4
19	MP-6	X	-.08	4
20	MP-6	X	-.021	7
21	MP-8	X	-.041	4
22	MP-8	X	-.049	7
23	MP-10	X	-.037	4
24	MP-10	X	-.05	4
25	MP-10	X	-.032	7
26	MP-12	X	-.048	4
27	MP-12	X	-.062	7
28	MP-1	X	-.019	1
29	MP-5	X	-.019	1
30	MP-9	X	-.019	1
31	MP-2	X	-.242	9
32	MP-2	X	-.058	2.579
33	MP-3	X	-.046	6.032
34	MP-4	X	-.196	9
35	MP-6	X	-.141	9
36	MP-6	X	-.027	2.579
37	MP-7	X	-.025	6.032
38	MP-8	X	-.087	9
39	MP-10	X	-.196	9
40	MP-10	X	-.044	2.579
41	MP-11	X	-.037	6.032
42	MP-12	X	-.147	9
43	MP-2	Z	-.14	1
44	MP-2	Z	-.033	.25
45	MP-3	Z	-.027	3.5
46	MP-4	Z	-.113	1
47	MP-6	Z	-.081	1
48	MP-6	Z	-.016	.25
49	MP-7	Z	-.015	3.5
50	MP-8	Z	-.05	1
51	MP-10	Z	-.113	1
52	MP-10	Z	-.025	.25
53	MP-11	Z	-.021	3.5
54	MP-12	Z	-.085	1
55	MP-2	Z	-.024	4
56	MP-2	Z	-.033	4
57	MP-2	Z	-.024	7
58	MP-4	Z	-.031	4
59	MP-4	Z	-.042	7
60	MP-6	Z	-.034	4
61	MP-6	Z	-.046	4
62	MP-6	Z	-.012	7
63	MP-8	Z	-.024	4
64	MP-8	Z	-.028	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
65	MP-10	Z	-.021	4
66	MP-10	Z	-.029	4
67	MP-10	Z	-.019	7
68	MP-12	Z	-.028	4
69	MP-12	Z	-.036	7
70	MP-1	Z	-.011	1
71	MP-5	Z	-.011	1
72	MP-9	Z	-.011	1
73	MP-2	Z	-.14	9
74	MP-2	Z	-.033	2.579
75	MP-3	Z	-.027	6.032
76	MP-4	Z	-.113	9
77	MP-6	Z	-.081	9
78	MP-6	Z	-.016	2.579
79	MP-7	Z	-.015	6.032
80	MP-8	Z	-.05	9
81	MP-10	Z	-.113	9
82	MP-10	Z	-.025	2.579
83	MP-11	Z	-.021	6.032
84	MP-12	Z	-.085	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.17	1
2	MP-2	X	-.039	.25
3	MP-3	X	-.032	3.5
4	MP-4	X	-.13	1
5	MP-6	X	-.122	1
6	MP-6	X	-.025	.25
7	MP-7	X	-.022	3.5
8	MP-8	X	-.079	1
9	MP-10	X	-.189	1
10	MP-10	X	-.045	.25
11	MP-11	X	-.036	3.5
12	MP-12	X	-.151	1
13	MP-2	X	-.039	4
14	MP-2	X	-.053	4
15	MP-2	X	-.028	7
16	MP-4	X	-.04	4
17	MP-4	X	-.053	7
18	MP-6	X	-.047	4
19	MP-6	X	-.064	4
20	MP-6	X	-.019	7
21	MP-8	X	-.035	4
22	MP-8	X	-.042	7
23	MP-10	X	-.03	4
24	MP-10	X	-.04	4
25	MP-10	X	-.032	7
26	MP-12	X	-.043	4
27	MP-12	X	-.057	7
28	MP-1	X	-.015	1
29	MP-5	X	-.015	1
30	MP-9	X	-.015	1
31	MP-2	X	-.17	9
32	MP-2	X	-.039	2.579
33	MP-3	X	-.032	6.032

Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)

Dec 27, 2021
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Member Point Loads (BLC 4 : 45 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
34	MP-4	X	-.13	9
35	MP-6	X	-.122	9
36	MP-6	X	-.025	2.579
37	MP-7	X	-.022	6.032
38	MP-8	X	-.079	9
39	MP-10	X	-.189	9
40	MP-10	X	-.045	2.579
41	MP-11	X	-.036	6.032
42	MP-12	X	-.151	9
43	MP-2	Z	-.17	1
44	MP-2	Z	-.039	.25
45	MP-3	Z	-.032	3.5
46	MP-4	Z	-.13	1
47	MP-6	Z	-.122	1
48	MP-6	Z	-.025	.25
49	MP-7	Z	-.022	3.5
50	MP-8	Z	-.079	1
51	MP-10	Z	-.189	1
52	MP-10	Z	-.045	.25
53	MP-11	Z	-.036	3.5
54	MP-12	Z	-.151	1
55	MP-2	Z	-.039	4
56	MP-2	Z	-.053	4
57	MP-2	Z	-.028	7
58	MP-4	Z	-.04	4
59	MP-4	Z	-.053	7
60	MP-6	Z	-.047	4
61	MP-6	Z	-.064	4
62	MP-6	Z	-.019	7
63	MP-8	Z	-.035	4
64	MP-8	Z	-.042	7
65	MP-10	Z	-.03	4
66	MP-10	Z	-.04	4
67	MP-10	Z	-.032	7
68	MP-12	Z	-.043	4
69	MP-12	Z	-.057	7
70	MP-1	Z	-.015	1
71	MP-5	Z	-.015	1
72	MP-9	Z	-.015	1
73	MP-2	Z	-.17	9
74	MP-2	Z	-.039	2.579
75	MP-3	Z	-.032	6.032
76	MP-4	Z	-.13	9
77	MP-6	Z	-.122	9
78	MP-6	Z	-.025	2.579
79	MP-7	Z	-.022	6.032
80	MP-8	Z	-.079	9
81	MP-10	Z	-.189	9
82	MP-10	Z	-.045	2.579
83	MP-11	Z	-.036	6.032
84	MP-12	Z	-.151	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.101	1
2	MP-2	X	-.022	.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP-3	X	-.019	3.5
4	MP-4	X	-.071	1
5	MP-6	X	-.101	1
6	MP-6	X	-.022	.25
7	MP-7	X	-.019	3.5
8	MP-8	X	-.071	1
9	MP-10	X	-.15	1
10	MP-10	X	-.036	.25
11	MP-11	X	-.029	3.5
12	MP-12	X	-.124	1
13	MP-2	X	-.031	4
14	MP-2	X	-.042	4
15	MP-2	X	-.016	7
16	MP-4	X	-.026	4
17	MP-4	X	-.033	7
18	MP-6	X	-.031	4
19	MP-6	X	-.042	4
20	MP-6	X	-.016	7
21	MP-8	X	-.026	4
22	MP-8	X	-.033	7
23	MP-10	X	-.023	4
24	MP-10	X	-.03	4
25	MP-10	X	-.026	7
26	MP-12	X	-.032	4
27	MP-12	X	-.044	7
28	MP-1	X	-.011	1
29	MP-5	X	-.011	1
30	MP-9	X	-.011	1
31	MP-2	X	-.101	9
32	MP-2	X	-.022	2.579
33	MP-3	X	-.019	6.032
34	MP-4	X	-.071	9
35	MP-6	X	-.101	9
36	MP-6	X	-.022	2.579
37	MP-7	X	-.019	6.032
38	MP-8	X	-.071	9
39	MP-10	X	-.15	9
40	MP-10	X	-.036	2.579
41	MP-11	X	-.029	6.032
42	MP-12	X	-.124	9
43	MP-2	Z	-.174	1
44	MP-2	Z	-.038	.25
45	MP-3	Z	-.032	3.5
46	MP-4	Z	-.123	1
47	MP-6	Z	-.174	1
48	MP-6	Z	-.038	.25
49	MP-7	Z	-.032	3.5
50	MP-8	Z	-.123	1
51	MP-10	Z	-.26	1
52	MP-10	Z	-.063	.25
53	MP-11	Z	-.05	3.5
54	MP-12	Z	-.215	1
55	MP-2	Z	-.053	4
56	MP-2	Z	-.072	4
57	MP-2	Z	-.028	7
58	MP-4	Z	-.045	4
59	MP-4	Z	-.057	7

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 5 : 60 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
60	MP-6	Z	-.053	4
61	MP-6	Z	-.072	4
62	MP-6	Z	-.028	7
63	MP-8	Z	-.045	4
64	MP-8	Z	-.057	7
65	MP-10	Z	-.039	4
66	MP-10	Z	-.052	4
67	MP-10	Z	-.045	7
68	MP-12	Z	-.056	4
69	MP-12	Z	-.076	7
70	MP-1	Z	-.019	1
71	MP-5	Z	-.019	1
72	MP-9	Z	-.019	1
73	MP-2	Z	-.174	9
74	MP-2	Z	-.038	2.579
75	MP-3	Z	-.032	6.032
76	MP-4	Z	-.123	9
77	MP-6	Z	-.174	9
78	MP-6	Z	-.038	2.579
79	MP-7	Z	-.032	6.032
80	MP-8	Z	-.123	9
81	MP-10	Z	-.26	9
82	MP-10	Z	-.063	2.579
83	MP-11	Z	-.05	6.032
84	MP-12	Z	-.215	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-.162	1
2	MP-2	Z	-.032	.25
3	MP-3	Z	-.029	3.5
4	MP-4	Z	-.101	1
5	MP-6	Z	-.279	1
6	MP-6	Z	-.067	.25
7	MP-7	Z	-.053	3.5
8	MP-8	Z	-.226	1
9	MP-10	Z	-.313	1
10	MP-10	Z	-.077	.25
11	MP-11	Z	-.061	3.5
12	MP-12	Z	-.263	1
13	MP-2	Z	-.068	4
14	MP-2	Z	-.092	4
15	MP-2	Z	-.025	7
16	MP-4	Z	-.048	4
17	MP-4	Z	-.056	7
18	MP-6	Z	-.049	4
19	MP-6	Z	-.065	4
20	MP-6	Z	-.048	7
21	MP-8	Z	-.062	4
22	MP-8	Z	-.083	7
23	MP-10	Z	-.058	4
24	MP-10	Z	-.077	4
25	MP-10	Z	-.055	7
26	MP-12	Z	-.066	4
27	MP-12	Z	-.091	7
28	MP-1	Z	-.022	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
29	MP-5	Z	-.022	1
30	MP-9	Z	-.022	1
31	MP-2	Z	-.162	9
32	MP-2	Z	-.032	2.579
33	MP-3	Z	-.029	6.032
34	MP-4	Z	-.101	9
35	MP-6	Z	-.279	9
36	MP-6	Z	-.067	2.579
37	MP-7	Z	-.053	6.032
38	MP-8	Z	-.226	9
39	MP-10	Z	-.313	9
40	MP-10	Z	-.077	2.579
41	MP-11	Z	-.061	6.032
42	MP-12	Z	-.263	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.101	1
2	MP-2	X	.022	.25
3	MP-3	X	.019	3.5
4	MP-4	X	.071	1
5	MP-6	X	.159	1
6	MP-6	X	.039	.25
7	MP-7	X	.031	3.5
8	MP-8	X	.134	1
9	MP-10	X	.127	1
10	MP-10	X	.03	.25
11	MP-11	X	.024	3.5
12	MP-12	X	.099	1
13	MP-2	X	.031	4
14	MP-2	X	.042	4
15	MP-2	X	.016	7
16	MP-4	X	.026	4
17	MP-4	X	.033	7
18	MP-6	X	.021	4
19	MP-6	X	.028	4
20	MP-6	X	.028	7
21	MP-8	X	.033	4
22	MP-8	X	.046	7
23	MP-10	X	.034	4
24	MP-10	X	.046	4
25	MP-10	X	.021	7
26	MP-12	X	.029	4
27	MP-12	X	.039	7
28	MP-1	X	.011	1
29	MP-5	X	.011	1
30	MP-9	X	.011	1
31	MP-2	X	.101	9
32	MP-2	X	.022	2.579
33	MP-3	X	.019	6.032
34	MP-4	X	.071	9
35	MP-6	X	.159	9
36	MP-6	X	.039	2.579
37	MP-7	X	.031	6.032
38	MP-8	X	.134	9
39	MP-10	X	.127	9

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
40	MP-10	X	.03	2.579
41	MP-11	X	.024	6.032
42	MP-12	X	.099	9
43	MP-2	Z	-.174	1
44	MP-2	Z	-.038	.25
45	MP-3	Z	-.032	3.5
46	MP-4	Z	-.123	1
47	MP-6	Z	-.275	1
48	MP-6	Z	-.068	.25
49	MP-7	Z	-.053	3.5
50	MP-8	Z	-.232	1
51	MP-10	Z	-.22	1
52	MP-10	Z	-.051	.25
53	MP-11	Z	-.042	3.5
54	MP-12	Z	-.172	1
55	MP-2	Z	-.053	4
56	MP-2	Z	-.072	4
57	MP-2	Z	-.028	7
58	MP-4	Z	-.045	4
59	MP-4	Z	-.057	7
60	MP-6	Z	-.036	4
61	MP-6	Z	-.049	4
62	MP-6	Z	-.048	7
63	MP-8	Z	-.058	4
64	MP-8	Z	-.08	7
65	MP-10	Z	-.058	4
66	MP-10	Z	-.079	4
67	MP-10	Z	-.037	7
68	MP-12	Z	-.051	4
69	MP-12	Z	-.067	7
70	MP-1	Z	-.019	1
71	MP-5	Z	-.019	1
72	MP-9	Z	-.019	1
73	MP-2	Z	-.174	9
74	MP-2	Z	-.038	2.579
75	MP-3	Z	-.032	6.032
76	MP-4	Z	-.123	9
77	MP-6	Z	-.275	9
78	MP-6	Z	-.068	2.579
79	MP-7	Z	-.053	6.032
80	MP-8	Z	-.232	9
81	MP-10	Z	-.22	9
82	MP-10	Z	-.051	2.579
83	MP-11	Z	-.042	6.032
84	MP-12	Z	-.172	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.17	1
2	MP-2	X	.039	.25
3	MP-3	X	.032	3.5
4	MP-4	X	.13	1
5	MP-6	X	.218	1
6	MP-6	X	.053	.25
7	MP-7	X	.042	3.5
8	MP-8	X	.182	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
9	MP-10	X	.151	1
10	MP-10	X	.033	.25
11	MP-11	X	.028	3.5
12	MP-12	X	.11	1
13	MP-2	X	.039	4
14	MP-2	X	.053	4
15	MP-2	X	.028	7
16	MP-4	X	.04	4
17	MP-4	X	.053	7
18	MP-6	X	.031	4
19	MP-6	X	.042	4
20	MP-6	X	.038	7
21	MP-8	X	.046	4
22	MP-8	X	.064	7
23	MP-10	X	.048	4
24	MP-10	X	.065	4
25	MP-10	X	.025	7
26	MP-12	X	.038	4
27	MP-12	X	.048	7
28	MP-1	X	.015	1
29	MP-5	X	.015	1
30	MP-9	X	.015	1
31	MP-2	X	.17	9
32	MP-2	X	.039	2.579
33	MP-3	X	.032	6.032
34	MP-4	X	.13	9
35	MP-6	X	.218	9
36	MP-6	X	.053	2.579
37	MP-7	X	.042	6.032
38	MP-8	X	.182	9
39	MP-10	X	.151	9
40	MP-10	X	.033	2.579
41	MP-11	X	.028	6.032
42	MP-12	X	.11	9
43	MP-2	Z	-.17	1
44	MP-2	Z	-.039	.25
45	MP-3	Z	-.032	3.5
46	MP-4	Z	-.13	1
47	MP-6	Z	-.218	1
48	MP-6	Z	-.053	.25
49	MP-7	Z	-.042	3.5
50	MP-8	Z	-.182	1
51	MP-10	Z	-.151	1
52	MP-10	Z	-.033	.25
53	MP-11	Z	-.028	3.5
54	MP-12	Z	-.11	1
55	MP-2	Z	-.039	4
56	MP-2	Z	-.053	4
57	MP-2	Z	-.028	7
58	MP-4	Z	-.04	4
59	MP-4	Z	-.053	7
60	MP-6	Z	-.031	4
61	MP-6	Z	-.042	4
62	MP-6	Z	-.038	7
63	MP-8	Z	-.046	4
64	MP-8	Z	-.064	7
65	MP-10	Z	-.048	4

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
66	MP-10	Z	-.065	4
67	MP-10	Z	-.025	7
68	MP-12	Z	-.038	4
69	MP-12	Z	-.048	7
70	MP-1	Z	-.015	1
71	MP-5	Z	-.015	1
72	MP-9	Z	-.015	1
73	MP-2	Z	-.17	9
74	MP-2	Z	-.039	2.579
75	MP-3	Z	-.032	6.032
76	MP-4	Z	-.13	9
77	MP-6	Z	-.218	9
78	MP-6	Z	-.053	2.579
79	MP-7	Z	-.042	6.032
80	MP-8	Z	-.182	9
81	MP-10	Z	-.151	9
82	MP-10	Z	-.033	2.579
83	MP-11	Z	-.028	6.032
84	MP-12	Z	-.11	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.242	1
2	MP-2	X	.058	.25
3	MP-3	X	.046	3.5
4	MP-4	X	.196	1
5	MP-6	X	.242	1
6	MP-6	X	.058	.25
7	MP-7	X	.046	3.5
8	MP-8	X	.196	1
9	MP-10	X	.156	1
10	MP-10	X	.032	.25
11	MP-11	X	.028	3.5
12	MP-12	X	.104	1
13	MP-2	X	.042	4
14	MP-2	X	.057	4
15	MP-2	X	.041	7
16	MP-4	X	.054	4
17	MP-4	X	.072	7
18	MP-6	X	.042	4
19	MP-6	X	.057	4
20	MP-6	X	.041	7
21	MP-8	X	.054	4
22	MP-8	X	.072	7
23	MP-10	X	.057	4
24	MP-10	X	.076	4
25	MP-10	X	.024	7
26	MP-12	X	.043	4
27	MP-12	X	.052	7
28	MP-1	X	.019	1
29	MP-5	X	.019	1
30	MP-9	X	.019	1
31	MP-2	X	.242	9
32	MP-2	X	.058	2.579
33	MP-3	X	.046	6.032
34	MP-4	X	.196	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
35	MP-6	X	.242	9
36	MP-6	X	.058	2.579
37	MP-7	X	.046	6.032
38	MP-8	X	.196	9
39	MP-10	X	.156	9
40	MP-10	X	.032	2.579
41	MP-11	X	.028	6.032
42	MP-12	X	.104	9
43	MP-2	Z	-.14	1
44	MP-2	Z	-.033	.25
45	MP-3	Z	-.027	3.5
46	MP-4	Z	-.113	1
47	MP-6	Z	-.14	1
48	MP-6	Z	-.033	.25
49	MP-7	Z	-.027	3.5
50	MP-8	Z	-.113	1
51	MP-10	Z	-.09	1
52	MP-10	Z	-.019	.25
53	MP-11	Z	-.016	3.5
54	MP-12	Z	-.06	1
55	MP-2	Z	-.024	4
56	MP-2	Z	-.033	4
57	MP-2	Z	-.024	7
58	MP-4	Z	-.031	4
59	MP-4	Z	-.042	7
60	MP-6	Z	-.024	4
61	MP-6	Z	-.033	4
62	MP-6	Z	-.024	7
63	MP-8	Z	-.031	4
64	MP-8	Z	-.042	7
65	MP-10	Z	-.033	4
66	MP-10	Z	-.044	4
67	MP-10	Z	-.014	7
68	MP-12	Z	-.025	4
69	MP-12	Z	-.03	7
70	MP-1	Z	-.011	1
71	MP-5	Z	-.011	1
72	MP-9	Z	-.011	1
73	MP-2	Z	-.14	9
74	MP-2	Z	-.033	2.579
75	MP-3	Z	-.027	6.032
76	MP-4	Z	-.113	9
77	MP-6	Z	-.14	9
78	MP-6	Z	-.033	2.579
79	MP-7	Z	-.027	6.032
80	MP-8	Z	-.113	9
81	MP-10	Z	-.09	9
82	MP-10	Z	-.019	2.579
83	MP-11	Z	-.016	6.032
84	MP-12	Z	-.06	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.318	1
2	MP-2	X	.078	.25
3	MP-3	X	.062	3.5

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP-4	X	.268	1
5	MP-6	X	.201	1
6	MP-6	X	.043	.25
7	MP-7	X	.037	3.5
8	MP-8	X	.142	1
9	MP-10	X	.167	1
10	MP-10	X	.033	.25
11	MP-11	X	.03	3.5
12	MP-12	X	.106	1
13	MP-2	X	.042	4
14	MP-2	X	.056	4
15	MP-2	X	.056	7
16	MP-4	X	.067	4
17	MP-4	X	.092	7
18	MP-6	X	.062	4
19	MP-6	X	.083	4
20	MP-6	X	.032	7
21	MP-8	X	.052	4
22	MP-8	X	.065	7
23	MP-10	X	.053	4
24	MP-10	X	.071	4
25	MP-10	X	.025	7
26	MP-12	X	.048	4
27	MP-12	X	.057	7
28	MP-1	X	.022	1
29	MP-5	X	.022	1
30	MP-9	X	.022	1
31	MP-2	X	.318	9
32	MP-2	X	.078	2.579
33	MP-3	X	.062	6.032
34	MP-4	X	.268	9
35	MP-6	X	.201	9
36	MP-6	X	.043	2.579
37	MP-7	X	.037	6.032
38	MP-8	X	.142	9
39	MP-10	X	.167	9
40	MP-10	X	.033	2.579
41	MP-11	X	.03	6.032
42	MP-12	X	.106	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.242	1
2	MP-2	X	.058	.25
3	MP-3	X	.046	3.5
4	MP-4	X	.196	1
5	MP-6	X	.141	1
6	MP-6	X	.027	.25
7	MP-7	X	.025	3.5
8	MP-8	X	.087	1
9	MP-10	X	.196	1
10	MP-10	X	.044	.25
11	MP-11	X	.037	3.5
12	MP-12	X	.147	1
13	MP-2	X	.042	4
14	MP-2	X	.057	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
15	MP-2	X	.041	7
16	MP-4	X	.054	4
17	MP-4	X	.072	7
18	MP-6	X	.059	4
19	MP-6	X	.08	4
20	MP-6	X	.021	7
21	MP-8	X	.041	4
22	MP-8	X	.049	7
23	MP-10	X	.037	4
24	MP-10	X	.05	4
25	MP-10	X	.032	7
26	MP-12	X	.048	4
27	MP-12	X	.062	7
28	MP-1	X	.019	1
29	MP-5	X	.019	1
30	MP-9	X	.019	1
31	MP-2	X	.242	9
32	MP-2	X	.058	2.579
33	MP-3	X	.046	6.032
34	MP-4	X	.196	9
35	MP-6	X	.141	9
36	MP-6	X	.027	2.579
37	MP-7	X	.025	6.032
38	MP-8	X	.087	9
39	MP-10	X	.196	9
40	MP-10	X	.044	2.579
41	MP-11	X	.037	6.032
42	MP-12	X	.147	9
43	MP-2	Z	.14	1
44	MP-2	Z	.033	.25
45	MP-3	Z	.027	3.5
46	MP-4	Z	.113	1
47	MP-6	Z	.081	1
48	MP-6	Z	.016	.25
49	MP-7	Z	.015	3.5
50	MP-8	Z	.05	1
51	MP-10	Z	.113	1
52	MP-10	Z	.025	.25
53	MP-11	Z	.021	3.5
54	MP-12	Z	.085	1
55	MP-2	Z	.024	4
56	MP-2	Z	.033	4
57	MP-2	Z	.024	7
58	MP-4	Z	.031	4
59	MP-4	Z	.042	7
60	MP-6	Z	.034	4
61	MP-6	Z	.046	4
62	MP-6	Z	.012	7
63	MP-8	Z	.024	4
64	MP-8	Z	.028	7
65	MP-10	Z	.021	4
66	MP-10	Z	.029	4
67	MP-10	Z	.019	7
68	MP-12	Z	.028	4
69	MP-12	Z	.036	7
70	MP-1	Z	.011	1
71	MP-5	Z	.011	1

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 11 : 210 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
72	MP-9	Z	.011	1
73	MP-2	Z	.14	9
74	MP-2	Z	.033	2.579
75	MP-3	Z	.027	6.032
76	MP-4	Z	.113	9
77	MP-6	Z	.081	9
78	MP-6	Z	.016	2.579
79	MP-7	Z	.015	6.032
80	MP-8	Z	.05	9
81	MP-10	Z	.113	9
82	MP-10	Z	.025	2.579
83	MP-11	Z	.021	6.032
84	MP-12	Z	.085	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.17	1
2	MP-2	X	.039	.25
3	MP-3	X	.032	3.5
4	MP-4	X	.13	1
5	MP-6	X	.122	1
6	MP-6	X	.025	.25
7	MP-7	X	.022	3.5
8	MP-8	X	.079	1
9	MP-10	X	.189	1
10	MP-10	X	.045	.25
11	MP-11	X	.036	3.5
12	MP-12	X	.151	1
13	MP-2	X	.039	4
14	MP-2	X	.053	4
15	MP-2	X	.028	7
16	MP-4	X	.04	4
17	MP-4	X	.053	7
18	MP-6	X	.047	4
19	MP-6	X	.064	4
20	MP-6	X	.019	7
21	MP-8	X	.035	4
22	MP-8	X	.042	7
23	MP-10	X	.03	4
24	MP-10	X	.04	4
25	MP-10	X	.032	7
26	MP-12	X	.043	4
27	MP-12	X	.057	7
28	MP-1	X	.015	1
29	MP-5	X	.015	1
30	MP-9	X	.015	1
31	MP-2	X	.17	9
32	MP-2	X	.039	2.579
33	MP-3	X	.032	6.032
34	MP-4	X	.13	9
35	MP-6	X	.122	9
36	MP-6	X	.025	2.579
37	MP-7	X	.022	6.032
38	MP-8	X	.079	9
39	MP-10	X	.189	9
40	MP-10	X	.045	2.579

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
41	MP-11	X	.036	6.032
42	MP-12	X	.151	9
43	MP-2	Z	.17	1
44	MP-2	Z	.039	.25
45	MP-3	Z	.032	3.5
46	MP-4	Z	.13	1
47	MP-6	Z	.122	1
48	MP-6	Z	.025	.25
49	MP-7	Z	.022	3.5
50	MP-8	Z	.079	1
51	MP-10	Z	.189	1
52	MP-10	Z	.045	.25
53	MP-11	Z	.036	3.5
54	MP-12	Z	.151	1
55	MP-2	Z	.039	4
56	MP-2	Z	.053	4
57	MP-2	Z	.028	7
58	MP-4	Z	.04	4
59	MP-4	Z	.053	7
60	MP-6	Z	.047	4
61	MP-6	Z	.064	4
62	MP-6	Z	.019	7
63	MP-8	Z	.035	4
64	MP-8	Z	.042	7
65	MP-10	Z	.03	4
66	MP-10	Z	.04	4
67	MP-10	Z	.032	7
68	MP-12	Z	.043	4
69	MP-12	Z	.057	7
70	MP-1	Z	.015	1
71	MP-5	Z	.015	1
72	MP-9	Z	.015	1
73	MP-2	Z	.17	9
74	MP-2	Z	.039	2.579
75	MP-3	Z	.032	6.032
76	MP-4	Z	.13	9
77	MP-6	Z	.122	9
78	MP-6	Z	.025	2.579
79	MP-7	Z	.022	6.032
80	MP-8	Z	.079	9
81	MP-10	Z	.189	9
82	MP-10	Z	.045	2.579
83	MP-11	Z	.036	6.032
84	MP-12	Z	.151	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.101	1
2	MP-2	X	.022	.25
3	MP-3	X	.019	3.5
4	MP-4	X	.071	1
5	MP-6	X	.101	1
6	MP-6	X	.022	.25
7	MP-7	X	.019	3.5
8	MP-8	X	.071	1
9	MP-10	X	.15	1

Company : Tower Engineering Professionals
Designer : JXK
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Member Point Loads (BLC 13 : 240 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP-10	X	.036	.25
11	MP-11	X	.029	3.5
12	MP-12	X	.124	1
13	MP-2	X	.031	4
14	MP-2	X	.042	4
15	MP-2	X	.016	7
16	MP-4	X	.026	4
17	MP-4	X	.033	7
18	MP-6	X	.031	4
19	MP-6	X	.042	4
20	MP-6	X	.016	7
21	MP-8	X	.026	4
22	MP-8	X	.033	7
23	MP-10	X	.023	4
24	MP-10	X	.03	4
25	MP-10	X	.026	7
26	MP-12	X	.032	4
27	MP-12	X	.044	7
28	MP-1	X	.011	1
29	MP-5	X	.011	1
30	MP-9	X	.011	1
31	MP-2	X	.101	9
32	MP-2	X	.022	2.579
33	MP-3	X	.019	6.032
34	MP-4	X	.071	9
35	MP-6	X	.101	9
36	MP-6	X	.022	2.579
37	MP-7	X	.019	6.032
38	MP-8	X	.071	9
39	MP-10	X	.15	9
40	MP-10	X	.036	2.579
41	MP-11	X	.029	6.032
42	MP-12	X	.124	9
43	MP-2	Z	.174	1
44	MP-2	Z	.038	.25
45	MP-3	Z	.032	3.5
46	MP-4	Z	.123	1
47	MP-6	Z	.174	1
48	MP-6	Z	.038	.25
49	MP-7	Z	.032	3.5
50	MP-8	Z	.123	1
51	MP-10	Z	.26	1
52	MP-10	Z	.063	.25
53	MP-11	Z	.05	3.5
54	MP-12	Z	.215	1
55	MP-2	Z	.053	4
56	MP-2	Z	.072	4
57	MP-2	Z	.028	7
58	MP-4	Z	.045	4
59	MP-4	Z	.057	7
60	MP-6	Z	.053	4
61	MP-6	Z	.072	4
62	MP-6	Z	.028	7
63	MP-8	Z	.045	4
64	MP-8	Z	.057	7
65	MP-10	Z	.039	4
66	MP-10	Z	.052	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
67	MP-10	Z	.045	7
68	MP-12	Z	.056	4
69	MP-12	Z	.076	7
70	MP-1	Z	.019	1
71	MP-5	Z	.019	1
72	MP-9	Z	.019	1
73	MP-2	Z	.174	9
74	MP-2	Z	.038	2.579
75	MP-3	Z	.032	6.032
76	MP-4	Z	.123	9
77	MP-6	Z	.174	9
78	MP-6	Z	.038	2.579
79	MP-7	Z	.032	6.032
80	MP-8	Z	.123	9
81	MP-10	Z	.26	9
82	MP-10	Z	.063	2.579
83	MP-11	Z	.05	6.032
84	MP-12	Z	.215	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	.162	1
2	MP-2	Z	.032	.25
3	MP-3	Z	.029	3.5
4	MP-4	Z	.101	1
5	MP-6	Z	.279	1
6	MP-6	Z	.067	.25
7	MP-7	Z	.053	3.5
8	MP-8	Z	.226	1
9	MP-10	Z	.313	1
10	MP-10	Z	.077	.25
11	MP-11	Z	.061	3.5
12	MP-12	Z	.263	1
13	MP-2	Z	.068	4
14	MP-2	Z	.092	4
15	MP-2	Z	.025	7
16	MP-4	Z	.048	4
17	MP-4	Z	.056	7
18	MP-6	Z	.049	4
19	MP-6	Z	.065	4
20	MP-6	Z	.048	7
21	MP-8	Z	.062	4
22	MP-8	Z	.083	7
23	MP-10	Z	.058	4
24	MP-10	Z	.077	4
25	MP-10	Z	.055	7
26	MP-12	Z	.066	4
27	MP-12	Z	.091	7
28	MP-1	Z	.022	1
29	MP-5	Z	.022	1
30	MP-9	Z	.022	1
31	MP-2	Z	.162	9
32	MP-2	Z	.032	2.579
33	MP-3	Z	.029	6.032
34	MP-4	Z	.101	9
35	MP-6	Z	.279	9

Company : Tower Engineering Professionals
Designer : JXK
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Member Point Loads (BLC 14 : 270 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
36	MP-6	Z	.067	2.579
37	MP-7	Z	.053	6.032
38	MP-8	Z	.226	9
39	MP-10	Z	.313	9
40	MP-10	Z	.077	2.579
41	MP-11	Z	.061	6.032
42	MP-12	Z	.263	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.101	1
2	MP-2	X	-.022	.25
3	MP-3	X	-.019	3.5
4	MP-4	X	-.071	1
5	MP-6	X	-.159	1
6	MP-6	X	-.039	.25
7	MP-7	X	-.031	3.5
8	MP-8	X	-.134	1
9	MP-10	X	-.127	1
10	MP-10	X	-.03	.25
11	MP-11	X	-.024	3.5
12	MP-12	X	-.099	1
13	MP-2	X	-.031	4
14	MP-2	X	-.042	4
15	MP-2	X	-.016	7
16	MP-4	X	-.026	4
17	MP-4	X	-.033	7
18	MP-6	X	-.021	4
19	MP-6	X	-.028	4
20	MP-6	X	-.028	7
21	MP-8	X	-.033	4
22	MP-8	X	-.046	7
23	MP-10	X	-.034	4
24	MP-10	X	-.046	4
25	MP-10	X	-.021	7
26	MP-12	X	-.029	4
27	MP-12	X	-.039	7
28	MP-1	X	-.011	1
29	MP-5	X	-.011	1
30	MP-9	X	-.011	1
31	MP-2	X	-.101	9
32	MP-2	X	-.022	2.579
33	MP-3	X	-.019	6.032
34	MP-4	X	-.071	9
35	MP-6	X	-.159	9
36	MP-6	X	-.039	2.579
37	MP-7	X	-.031	6.032
38	MP-8	X	-.134	9
39	MP-10	X	-.127	9
40	MP-10	X	-.03	2.579
41	MP-11	X	-.024	6.032
42	MP-12	X	-.099	9
43	MP-2	Z	.174	1
44	MP-2	Z	.038	.25
45	MP-3	Z	.032	3.5
46	MP-4	Z	.123	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
47	MP-6	Z	.275	1
48	MP-6	Z	.068	.25
49	MP-7	Z	.053	3.5
50	MP-8	Z	.232	1
51	MP-10	Z	.22	1
52	MP-10	Z	.051	.25
53	MP-11	Z	.042	3.5
54	MP-12	Z	.172	1
55	MP-2	Z	.053	4
56	MP-2	Z	.072	4
57	MP-2	Z	.028	7
58	MP-4	Z	.045	4
59	MP-4	Z	.057	7
60	MP-6	Z	.036	4
61	MP-6	Z	.049	4
62	MP-6	Z	.048	7
63	MP-8	Z	.058	4
64	MP-8	Z	.08	7
65	MP-10	Z	.058	4
66	MP-10	Z	.079	4
67	MP-10	Z	.037	7
68	MP-12	Z	.051	4
69	MP-12	Z	.067	7
70	MP-1	Z	.019	1
71	MP-5	Z	.019	1
72	MP-9	Z	.019	1
73	MP-2	Z	.174	9
74	MP-2	Z	.038	2.579
75	MP-3	Z	.032	6.032
76	MP-4	Z	.123	9
77	MP-6	Z	.275	9
78	MP-6	Z	.068	2.579
79	MP-7	Z	.053	6.032
80	MP-8	Z	.232	9
81	MP-10	Z	.22	9
82	MP-10	Z	.051	2.579
83	MP-11	Z	.042	6.032
84	MP-12	Z	.172	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.17	1
2	MP-2	X	-.039	.25
3	MP-3	X	-.032	3.5
4	MP-4	X	-.13	1
5	MP-6	X	-.218	1
6	MP-6	X	-.053	.25
7	MP-7	X	-.042	3.5
8	MP-8	X	-.182	1
9	MP-10	X	-.151	1
10	MP-10	X	-.033	.25
11	MP-11	X	-.028	3.5
12	MP-12	X	-.11	1
13	MP-2	X	-.039	4
14	MP-2	X	-.053	4
15	MP-2	X	-.028	7

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
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Member Point Loads (BLC 16 : 315 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP-4	X	-.04	4
17	MP-4	X	-.053	7
18	MP-6	X	-.031	4
19	MP-6	X	-.042	4
20	MP-6	X	-.038	7
21	MP-8	X	-.046	4
22	MP-8	X	-.064	7
23	MP-10	X	-.048	4
24	MP-10	X	-.065	4
25	MP-10	X	-.025	7
26	MP-12	X	-.038	4
27	MP-12	X	-.048	7
28	MP-1	X	-.015	1
29	MP-5	X	-.015	1
30	MP-9	X	-.015	1
31	MP-2	X	-.17	9
32	MP-2	X	-.039	2.579
33	MP-3	X	-.032	6.032
34	MP-4	X	-.13	9
35	MP-6	X	-.218	9
36	MP-6	X	-.053	2.579
37	MP-7	X	-.042	6.032
38	MP-8	X	-.182	9
39	MP-10	X	-.151	9
40	MP-10	X	-.033	2.579
41	MP-11	X	-.028	6.032
42	MP-12	X	-.11	9
43	MP-2	Z	.17	1
44	MP-2	Z	.039	.25
45	MP-3	Z	.032	3.5
46	MP-4	Z	.13	1
47	MP-6	Z	.218	1
48	MP-6	Z	.053	.25
49	MP-7	Z	.042	3.5
50	MP-8	Z	.182	1
51	MP-10	Z	.151	1
52	MP-10	Z	.033	.25
53	MP-11	Z	.028	3.5
54	MP-12	Z	.11	1
55	MP-2	Z	.039	4
56	MP-2	Z	.053	4
57	MP-2	Z	.028	7
58	MP-4	Z	.04	4
59	MP-4	Z	.053	7
60	MP-6	Z	.031	4
61	MP-6	Z	.042	4
62	MP-6	Z	.038	7
63	MP-8	Z	.046	4
64	MP-8	Z	.064	7
65	MP-10	Z	.048	4
66	MP-10	Z	.065	4
67	MP-10	Z	.025	7
68	MP-12	Z	.038	4
69	MP-12	Z	.048	7
70	MP-1	Z	.015	1
71	MP-5	Z	.015	1
72	MP-9	Z	.015	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
73	MP-2	Z	.17	9
74	MP-2	Z	.039	2.579
75	MP-3	Z	.032	6.032
76	MP-4	Z	.13	9
77	MP-6	Z	.218	9
78	MP-6	Z	.053	2.579
79	MP-7	Z	.042	6.032
80	MP-8	Z	.182	9
81	MP-10	Z	.151	9
82	MP-10	Z	.033	2.579
83	MP-11	Z	.028	6.032
84	MP-12	Z	.11	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.242	1
2	MP-2	X	-.058	.25
3	MP-3	X	-.046	3.5
4	MP-4	X	-.196	1
5	MP-6	X	-.242	1
6	MP-6	X	-.058	.25
7	MP-7	X	-.046	3.5
8	MP-8	X	-.196	1
9	MP-10	X	-.156	1
10	MP-10	X	-.032	.25
11	MP-11	X	-.028	3.5
12	MP-12	X	-.104	1
13	MP-2	X	-.042	4
14	MP-2	X	-.057	4
15	MP-2	X	-.041	7
16	MP-4	X	-.054	4
17	MP-4	X	-.072	7
18	MP-6	X	-.042	4
19	MP-6	X	-.057	4
20	MP-6	X	-.041	7
21	MP-8	X	-.054	4
22	MP-8	X	-.072	7
23	MP-10	X	-.057	4
24	MP-10	X	-.076	4
25	MP-10	X	-.024	7
26	MP-12	X	-.043	4
27	MP-12	X	-.052	7
28	MP-1	X	-.019	1
29	MP-5	X	-.019	1
30	MP-9	X	-.019	1
31	MP-2	X	-.242	9
32	MP-2	X	-.058	2.579
33	MP-3	X	-.046	6.032
34	MP-4	X	-.196	9
35	MP-6	X	-.242	9
36	MP-6	X	-.058	2.579
37	MP-7	X	-.046	6.032
38	MP-8	X	-.196	9
39	MP-10	X	-.156	9
40	MP-10	X	-.032	2.579
41	MP-11	X	-.028	6.032

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
42	MP-12	X	-.104	9
43	MP-2	Z	.14	1
44	MP-2	Z	.033	.25
45	MP-3	Z	.027	3.5
46	MP-4	Z	.113	1
47	MP-6	Z	.14	1
48	MP-6	Z	.033	.25
49	MP-7	Z	.027	3.5
50	MP-8	Z	.113	1
51	MP-10	Z	.09	1
52	MP-10	Z	.019	.25
53	MP-11	Z	.016	3.5
54	MP-12	Z	.06	1
55	MP-2	Z	.024	4
56	MP-2	Z	.033	4
57	MP-2	Z	.024	7
58	MP-4	Z	.031	4
59	MP-4	Z	.042	7
60	MP-6	Z	.024	4
61	MP-6	Z	.033	4
62	MP-6	Z	.024	7
63	MP-8	Z	.031	4
64	MP-8	Z	.042	7
65	MP-10	Z	.033	4
66	MP-10	Z	.044	4
67	MP-10	Z	.014	7
68	MP-12	Z	.025	4
69	MP-12	Z	.03	7
70	MP-1	Z	.011	1
71	MP-5	Z	.011	1
72	MP-9	Z	.011	1
73	MP-2	Z	.14	9
74	MP-2	Z	.033	2.579
75	MP-3	Z	.027	6.032
76	MP-4	Z	.113	9
77	MP-6	Z	.14	9
78	MP-6	Z	.033	2.579
79	MP-7	Z	.027	6.032
80	MP-8	Z	.113	9
81	MP-10	Z	.09	9
82	MP-10	Z	.019	2.579
83	MP-11	Z	.016	6.032
84	MP-12	Z	.06	9

Member Point Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Y	-.135	1
2	MP-2	Y	-.032	.25
3	MP-3	Y	-.038	3.5
4	MP-4	Y	-.121	1
5	MP-6	Y	-.135	1
6	MP-6	Y	-.032	.25
7	MP-7	Y	-.038	3.5
8	MP-8	Y	-.121	1
9	MP-10	Y	-.135	1
10	MP-10	Y	-.032	.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP-11	Y	-.038	3.5
12	MP-12	Y	-.121	1
13	MP-2	Y	-.046	4
14	MP-2	Y	-.054	4
15	MP-2	Y	-.034	7
16	MP-4	Y	-.048	4
17	MP-4	Y	-.054	7
18	MP-6	Y	-.046	4
19	MP-6	Y	-.054	4
20	MP-6	Y	-.034	7
21	MP-8	Y	-.048	4
22	MP-8	Y	-.054	7
23	MP-10	Y	-.046	4
24	MP-10	Y	-.054	4
25	MP-10	Y	-.034	7
26	MP-12	Y	-.048	4
27	MP-12	Y	-.054	7
28	MP-1	Y	-.028	1
29	MP-5	Y	-.028	1
30	MP-9	Y	-.028	1
31	MP-2	Y	-.135	9
32	MP-2	Y	-.032	2.579
33	MP-3	Y	-.038	6.032
34	MP-4	Y	-.121	9
35	MP-6	Y	-.135	9
36	MP-6	Y	-.032	2.579
37	MP-7	Y	-.038	6.032
38	MP-8	Y	-.121	9
39	MP-10	Y	-.135	9
40	MP-10	Y	-.032	2.579
41	MP-11	Y	-.038	6.032
42	MP-12	Y	-.121	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.064	1
2	MP-2	X	-.017	.25
3	MP-3	X	-.013	3.5
4	MP-4	X	-.054	1
5	MP-6	X	-.064	1
6	MP-6	X	-.017	.25
7	MP-7	X	-.013	3.5
8	MP-8	X	-.054	1
9	MP-10	X	-.064	1
10	MP-10	X	-.017	.25
11	MP-11	X	-.013	3.5
12	MP-12	X	-.054	1
13	MP-2	X	-.016	4
14	MP-2	X	-.022	4
15	MP-2	X	-.014	7
16	MP-4	X	-.016	4
17	MP-4	X	-.022	7
18	MP-6	X	-.016	4
19	MP-6	X	-.022	4
20	MP-6	X	-.014	7
21	MP-8	X	-.016	4

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 19 : 0 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
22	MP-8	X	-.022	7
23	MP-10	X	-.016	4
24	MP-10	X	-.022	4
25	MP-10	X	-.014	7
26	MP-12	X	-.016	4
27	MP-12	X	-.022	7
28	MP-1	X	-.005	1
29	MP-5	X	-.005	1
30	MP-9	X	-.005	1
31	MP-2	X	-.064	9
32	MP-2	X	-.017	2.579
33	MP-3	X	-.013	6.032
34	MP-4	X	-.054	9
35	MP-6	X	-.064	9
36	MP-6	X	-.017	2.579
37	MP-7	X	-.013	6.032
38	MP-8	X	-.054	9
39	MP-10	X	-.064	9
40	MP-10	X	-.017	2.579
41	MP-11	X	-.013	6.032
42	MP-12	X	-.054	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.049	1
2	MP-2	X	-.013	.25
3	MP-3	X	-.01	3.5
4	MP-4	X	-.04	1
5	MP-6	X	-.031	1
6	MP-6	X	-.007	.25
7	MP-7	X	-.006	3.5
8	MP-8	X	-.02	1
9	MP-10	X	-.041	1
10	MP-10	X	-.01	.25
11	MP-11	X	-.008	3.5
12	MP-12	X	-.031	1
13	MP-2	X	-.011	4
14	MP-2	X	-.014	4
15	MP-2	X	-.01	7
16	MP-4	X	-.013	4
17	MP-4	X	-.017	7
18	MP-6	X	-.014	4
19	MP-6	X	-.019	4
20	MP-6	X	-.006	7
21	MP-8	X	-.01	4
22	MP-8	X	-.012	7
23	MP-10	X	-.01	4
24	MP-10	X	-.013	4
25	MP-10	X	-.008	7
26	MP-12	X	-.012	4
27	MP-12	X	-.015	7
28	MP-1	X	-.005	1
29	MP-5	X	-.005	1
30	MP-9	X	-.005	1
31	MP-2	X	-.049	9
32	MP-2	X	-.013	2.579

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-3	X	-.01	6.032
34	MP-4	X	-.04	9
35	MP-6	X	-.031	9
36	MP-6	X	-.007	2.579
37	MP-7	X	-.006	6.032
38	MP-8	X	-.02	9
39	MP-10	X	-.041	9
40	MP-10	X	-.01	2.579
41	MP-11	X	-.008	6.032
42	MP-12	X	-.031	9
43	MP-2	Z	-.028	1
44	MP-2	Z	-.007	.25
45	MP-3	Z	-.006	3.5
46	MP-4	Z	-.023	1
47	MP-6	Z	-.018	1
48	MP-6	Z	-.004	.25
49	MP-7	Z	-.004	3.5
50	MP-8	Z	-.012	1
51	MP-10	Z	-.024	1
52	MP-10	Z	-.006	.25
53	MP-11	Z	-.005	3.5
54	MP-12	Z	-.018	1
55	MP-2	Z	-.006	4
56	MP-2	Z	-.008	4
57	MP-2	Z	-.006	7
58	MP-4	Z	-.007	4
59	MP-4	Z	-.01	7
60	MP-6	Z	-.008	4
61	MP-6	Z	-.011	4
62	MP-6	Z	-.004	7
63	MP-8	Z	-.006	4
64	MP-8	Z	-.007	7
65	MP-10	Z	-.006	4
66	MP-10	Z	-.007	4
67	MP-10	Z	-.005	7
68	MP-12	Z	-.007	4
69	MP-12	Z	-.009	7
70	MP-1	Z	-.003	1
71	MP-5	Z	-.003	1
72	MP-9	Z	-.003	1
73	MP-2	Z	-.028	9
74	MP-2	Z	-.007	2.579
75	MP-3	Z	-.006	6.032
76	MP-4	Z	-.023	9
77	MP-6	Z	-.018	9
78	MP-6	Z	-.004	2.579
79	MP-7	Z	-.004	6.032
80	MP-8	Z	-.012	9
81	MP-10	Z	-.024	9
82	MP-10	Z	-.006	2.579
83	MP-11	Z	-.005	6.032
84	MP-12	Z	-.018	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.035	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP-2	X	-.009	.25
3	MP-3	X	-.007	3.5
4	MP-4	X	-.027	1
5	MP-6	X	-.027	1
6	MP-6	X	-.006	.25
7	MP-7	X	-.005	3.5
8	MP-8	X	-.018	1
9	MP-10	X	-.039	1
10	MP-10	X	-.01	.25
11	MP-11	X	-.008	3.5
12	MP-12	X	-.031	1
13	MP-2	X	-.01	4
14	MP-2	X	-.013	4
15	MP-2	X	-.007	7
16	MP-4	X	-.01	4
17	MP-4	X	-.013	7
18	MP-6	X	-.011	4
19	MP-6	X	-.015	4
20	MP-6	X	-.005	7
21	MP-8	X	-.009	4
22	MP-8	X	-.01	7
23	MP-10	X	-.008	4
24	MP-10	X	-.01	4
25	MP-10	X	-.008	7
26	MP-12	X	-.01	4
27	MP-12	X	-.014	7
28	MP-1	X	-.004	1
29	MP-5	X	-.004	1
30	MP-9	X	-.004	1
31	MP-2	X	-.035	9
32	MP-2	X	-.009	2.579
33	MP-3	X	-.007	6.032
34	MP-4	X	-.027	9
35	MP-6	X	-.027	9
36	MP-6	X	-.006	2.579
37	MP-7	X	-.005	6.032
38	MP-8	X	-.018	9
39	MP-10	X	-.039	9
40	MP-10	X	-.01	2.579
41	MP-11	X	-.008	6.032
42	MP-12	X	-.031	9
43	MP-2	Z	-.035	1
44	MP-2	Z	-.009	.25
45	MP-3	Z	-.007	3.5
46	MP-4	Z	-.027	1
47	MP-6	Z	-.027	1
48	MP-6	Z	-.006	.25
49	MP-7	Z	-.005	3.5
50	MP-8	Z	-.018	1
51	MP-10	Z	-.039	1
52	MP-10	Z	-.01	.25
53	MP-11	Z	-.008	3.5
54	MP-12	Z	-.031	1
55	MP-2	Z	-.01	4
56	MP-2	Z	-.013	4
57	MP-2	Z	-.007	7
58	MP-4	Z	-.01	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
59	MP-4	Z	-.013	7
60	MP-6	Z	-.011	4
61	MP-6	Z	-.015	4
62	MP-6	Z	-.005	7
63	MP-8	Z	-.009	4
64	MP-8	Z	-.01	7
65	MP-10	Z	-.008	4
66	MP-10	Z	-.01	4
67	MP-10	Z	-.008	7
68	MP-12	Z	-.01	4
69	MP-12	Z	-.014	7
70	MP-1	Z	-.004	1
71	MP-5	Z	-.004	1
72	MP-9	Z	-.004	1
73	MP-2	Z	-.035	9
74	MP-2	Z	-.009	2.579
75	MP-3	Z	-.007	6.032
76	MP-4	Z	-.027	9
77	MP-6	Z	-.027	9
78	MP-6	Z	-.006	2.579
79	MP-7	Z	-.005	6.032
80	MP-8	Z	-.018	9
81	MP-10	Z	-.039	9
82	MP-10	Z	-.01	2.579
83	MP-11	Z	-.008	6.032
84	MP-12	Z	-.031	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.021	1
2	MP-2	X	-.005	.25
3	MP-3	X	-.004	3.5
4	MP-4	X	-.015	1
5	MP-6	X	-.021	1
6	MP-6	X	-.005	.25
7	MP-7	X	-.004	3.5
8	MP-8	X	-.015	1
9	MP-10	X	-.03	1
10	MP-10	X	-.008	.25
11	MP-11	X	-.006	3.5
12	MP-12	X	-.025	1
13	MP-2	X	-.007	4
14	MP-2	X	-.01	4
15	MP-2	X	-.004	7
16	MP-4	X	-.007	4
17	MP-4	X	-.008	7
18	MP-6	X	-.007	4
19	MP-6	X	-.01	4
20	MP-6	X	-.004	7
21	MP-8	X	-.007	4
22	MP-8	X	-.008	7
23	MP-10	X	-.006	4
24	MP-10	X	-.008	4
25	MP-10	X	-.006	7
26	MP-12	X	-.008	4
27	MP-12	X	-.01	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
28	MP-1	X	-.003	1
29	MP-5	X	-.003	1
30	MP-9	X	-.003	1
31	MP-2	X	-.021	9
32	MP-2	X	-.005	2.579
33	MP-3	X	-.004	6.032
34	MP-4	X	-.015	9
35	MP-6	X	-.021	9
36	MP-6	X	-.005	2.579
37	MP-7	X	-.004	6.032
38	MP-8	X	-.015	9
39	MP-10	X	-.03	9
40	MP-10	X	-.008	2.579
41	MP-11	X	-.006	6.032
42	MP-12	X	-.025	9
43	MP-2	Z	-.037	1
44	MP-2	Z	-.009	.25
45	MP-3	Z	-.007	3.5
46	MP-4	Z	-.027	1
47	MP-6	Z	-.037	1
48	MP-6	Z	-.009	.25
49	MP-7	Z	-.007	3.5
50	MP-8	Z	-.027	1
51	MP-10	Z	-.053	1
52	MP-10	Z	-.014	.25
53	MP-11	Z	-.011	3.5
54	MP-12	Z	-.044	1
55	MP-2	Z	-.013	4
56	MP-2	Z	-.017	4
57	MP-2	Z	-.008	7
58	MP-4	Z	-.011	4
59	MP-4	Z	-.014	7
60	MP-6	Z	-.013	4
61	MP-6	Z	-.017	4
62	MP-6	Z	-.008	7
63	MP-8	Z	-.011	4
64	MP-8	Z	-.014	7
65	MP-10	Z	-.01	4
66	MP-10	Z	-.013	4
67	MP-10	Z	-.011	7
68	MP-12	Z	-.013	4
69	MP-12	Z	-.018	7
70	MP-1	Z	-.005	1
71	MP-5	Z	-.005	1
72	MP-9	Z	-.005	1
73	MP-2	Z	-.037	9
74	MP-2	Z	-.009	2.579
75	MP-3	Z	-.007	6.032
76	MP-4	Z	-.027	9
77	MP-6	Z	-.037	9
78	MP-6	Z	-.009	2.579
79	MP-7	Z	-.007	6.032
80	MP-8	Z	-.027	9
81	MP-10	Z	-.053	9
82	MP-10	Z	-.014	2.579
83	MP-11	Z	-.011	6.032
84	MP-12	Z	-.044	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-.036	1
2	MP-2	Z	-.008	.25
3	MP-3	Z	-.007	3.5
4	MP-4	Z	-.023	1
5	MP-6	Z	-.036	1
6	MP-6	Z	-.008	.25
7	MP-7	Z	-.007	3.5
8	MP-8	Z	-.023	1
9	MP-10	Z	-.036	1
10	MP-10	Z	-.008	.25
11	MP-11	Z	-.007	3.5
12	MP-12	Z	-.023	1
13	MP-2	Z	-.011	4
14	MP-2	Z	-.014	4
15	MP-2	Z	-.007	7
16	MP-4	Z	-.012	4
17	MP-4	Z	-.014	7
18	MP-6	Z	-.011	4
19	MP-6	Z	-.014	4
20	MP-6	Z	-.007	7
21	MP-8	Z	-.012	4
22	MP-8	Z	-.014	7
23	MP-10	Z	-.011	4
24	MP-10	Z	-.014	4
25	MP-10	Z	-.007	7
26	MP-12	Z	-.012	4
27	MP-12	Z	-.014	7
28	MP-1	Z	-.005	1
29	MP-5	Z	-.005	1
30	MP-9	Z	-.005	1
31	MP-2	Z	-.036	9
32	MP-2	Z	-.008	2.579
33	MP-3	Z	-.007	6.032
34	MP-4	Z	-.023	9
35	MP-6	Z	-.036	9
36	MP-6	Z	-.008	2.579
37	MP-7	Z	-.007	6.032
38	MP-8	Z	-.023	9
39	MP-10	Z	-.036	9
40	MP-10	Z	-.008	2.579
41	MP-11	Z	-.007	6.032
42	MP-12	Z	-.023	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.021	1
2	MP-2	X	.005	.25
3	MP-3	X	.004	3.5
4	MP-4	X	.015	1
5	MP-6	X	.032	1
6	MP-6	X	.008	.25
7	MP-7	X	.007	3.5
8	MP-8	X	.027	1
9	MP-10	X	.026	1
10	MP-10	X	.007	.25
11	MP-11	X	.005	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP-12	X	.021	1
13	MP-2	X	.007	4
14	MP-2	X	.01	4
15	MP-2	X	.004	7
16	MP-4	X	.007	4
17	MP-4	X	.008	7
18	MP-6	X	.005	4
19	MP-6	X	.007	4
20	MP-6	X	.007	7
21	MP-8	X	.008	4
22	MP-8	X	.011	7
23	MP-10	X	.008	4
24	MP-10	X	.011	4
25	MP-10	X	.005	7
26	MP-12	X	.007	4
27	MP-12	X	.009	7
28	MP-1	X	.003	1
29	MP-5	X	.003	1
30	MP-9	X	.003	1
31	MP-2	X	.021	9
32	MP-2	X	.005	2.579
33	MP-3	X	.004	6.032
34	MP-4	X	.015	9
35	MP-6	X	.032	9
36	MP-6	X	.008	2.579
37	MP-7	X	.007	6.032
38	MP-8	X	.027	9
39	MP-10	X	.026	9
40	MP-10	X	.007	2.579
41	MP-11	X	.005	6.032
42	MP-12	X	.021	9
43	MP-2	Z	-.037	1
44	MP-2	Z	-.009	.25
45	MP-3	Z	-.007	3.5
46	MP-4	Z	-.027	1
47	MP-6	Z	-.055	1
48	MP-6	Z	-.015	.25
49	MP-7	Z	-.011	3.5
50	MP-8	Z	-.047	1
51	MP-10	Z	-.045	1
52	MP-10	Z	-.011	.25
53	MP-11	Z	-.009	3.5
54	MP-12	Z	-.036	1
55	MP-2	Z	-.013	4
56	MP-2	Z	-.017	4
57	MP-2	Z	-.008	7
58	MP-4	Z	-.011	4
59	MP-4	Z	-.014	7
60	MP-6	Z	-.009	4
61	MP-6	Z	-.012	4
62	MP-6	Z	-.012	7
63	MP-8	Z	-.014	4
64	MP-8	Z	-.019	7
65	MP-10	Z	-.014	4
66	MP-10	Z	-.018	4
67	MP-10	Z	-.009	7
68	MP-12	Z	-.012	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
69	MP-12	Z	-.016	7
70	MP-1	Z	-.005	1
71	MP-5	Z	-.005	1
72	MP-9	Z	-.005	1
73	MP-2	Z	-.037	9
74	MP-2	Z	-.009	2.579
75	MP-3	Z	-.007	6.032
76	MP-4	Z	-.027	9
77	MP-6	Z	-.055	9
78	MP-6	Z	-.015	2.579
79	MP-7	Z	-.011	6.032
80	MP-8	Z	-.047	9
81	MP-10	Z	-.045	9
82	MP-10	Z	-.011	2.579
83	MP-11	Z	-.009	6.032
84	MP-12	Z	-.036	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.035	1
2	MP-2	X	.009	.25
3	MP-3	X	.007	3.5
4	MP-4	X	.027	1
5	MP-6	X	.044	1
6	MP-6	X	.012	.25
7	MP-7	X	.009	3.5
8	MP-8	X	.037	1
9	MP-10	X	.032	1
10	MP-10	X	.008	.25
11	MP-11	X	.006	3.5
12	MP-12	X	.024	1
13	MP-2	X	.01	4
14	MP-2	X	.013	4
15	MP-2	X	.007	7
16	MP-4	X	.01	4
17	MP-4	X	.013	7
18	MP-6	X	.008	4
19	MP-6	X	.01	4
20	MP-6	X	.009	7
21	MP-8	X	.011	4
22	MP-8	X	.015	7
23	MP-10	X	.011	4
24	MP-10	X	.015	4
25	MP-10	X	.007	7
26	MP-12	X	.009	4
27	MP-12	X	.012	7
28	MP-1	X	.004	1
29	MP-5	X	.004	1
30	MP-9	X	.004	1
31	MP-2	X	.035	9
32	MP-2	X	.009	2.579
33	MP-3	X	.007	6.032
34	MP-4	X	.027	9
35	MP-6	X	.044	9
36	MP-6	X	.012	2.579
37	MP-7	X	.009	6.032

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
38	MP-8	X	.037	9
39	MP-10	X	.032	9
40	MP-10	X	.008	2.579
41	MP-11	X	.006	6.032
42	MP-12	X	.024	9
43	MP-2	Z	-.035	1
44	MP-2	Z	-.009	.25
45	MP-3	Z	-.007	3.5
46	MP-4	Z	-.027	1
47	MP-6	Z	-.044	1
48	MP-6	Z	-.012	.25
49	MP-7	Z	-.009	3.5
50	MP-8	Z	-.037	1
51	MP-10	Z	-.032	1
52	MP-10	Z	-.008	.25
53	MP-11	Z	-.006	3.5
54	MP-12	Z	-.024	1
55	MP-2	Z	-.01	4
56	MP-2	Z	-.013	4
57	MP-2	Z	-.007	7
58	MP-4	Z	-.01	4
59	MP-4	Z	-.013	7
60	MP-6	Z	-.008	4
61	MP-6	Z	-.01	4
62	MP-6	Z	-.009	7
63	MP-8	Z	-.011	4
64	MP-8	Z	-.015	7
65	MP-10	Z	-.011	4
66	MP-10	Z	-.015	4
67	MP-10	Z	-.007	7
68	MP-12	Z	-.009	4
69	MP-12	Z	-.012	7
70	MP-1	Z	-.004	1
71	MP-5	Z	-.004	1
72	MP-9	Z	-.004	1
73	MP-2	Z	-.035	9
74	MP-2	Z	-.009	2.579
75	MP-3	Z	-.007	6.032
76	MP-4	Z	-.027	9
77	MP-6	Z	-.044	9
78	MP-6	Z	-.012	2.579
79	MP-7	Z	-.009	6.032
80	MP-8	Z	-.037	9
81	MP-10	Z	-.032	9
82	MP-10	Z	-.008	2.579
83	MP-11	Z	-.006	6.032
84	MP-12	Z	-.024	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.049	1
2	MP-2	X	.013	.25
3	MP-3	X	.01	3.5
4	MP-4	X	.04	1
5	MP-6	X	.049	1
6	MP-6	X	.013	.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
7	MP-7	X	.01	3.5
8	MP-8	X	.04	1
9	MP-10	X	.034	1
10	MP-10	X	.008	.25
11	MP-11	X	.007	3.5
12	MP-12	X	.023	1
13	MP-2	X	.011	4
14	MP-2	X	.014	4
15	MP-2	X	.01	7
16	MP-4	X	.013	4
17	MP-4	X	.017	7
18	MP-6	X	.011	4
19	MP-6	X	.014	4
20	MP-6	X	.01	7
21	MP-8	X	.013	4
22	MP-8	X	.017	7
23	MP-10	X	.014	4
24	MP-10	X	.018	4
25	MP-10	X	.007	7
26	MP-12	X	.011	4
27	MP-12	X	.013	7
28	MP-1	X	.005	1
29	MP-5	X	.005	1
30	MP-9	X	.005	1
31	MP-2	X	.049	9
32	MP-2	X	.013	2.579
33	MP-3	X	.01	6.032
34	MP-4	X	.04	9
35	MP-6	X	.049	9
36	MP-6	X	.013	2.579
37	MP-7	X	.01	6.032
38	MP-8	X	.04	9
39	MP-10	X	.034	9
40	MP-10	X	.008	2.579
41	MP-11	X	.007	6.032
42	MP-12	X	.023	9
43	MP-2	Z	-.028	1
44	MP-2	Z	-.007	.25
45	MP-3	Z	-.006	3.5
46	MP-4	Z	-.023	1
47	MP-6	Z	-.028	1
48	MP-6	Z	-.007	.25
49	MP-7	Z	-.006	3.5
50	MP-8	Z	-.023	1
51	MP-10	Z	-.019	1
52	MP-10	Z	-.005	.25
53	MP-11	Z	-.004	3.5
54	MP-12	Z	-.013	1
55	MP-2	Z	-.006	4
56	MP-2	Z	-.008	4
57	MP-2	Z	-.006	7
58	MP-4	Z	-.007	4
59	MP-4	Z	-.01	7
60	MP-6	Z	-.006	4
61	MP-6	Z	-.008	4
62	MP-6	Z	-.006	7
63	MP-8	Z	-.007	4

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 26 : 150 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
64	MP-8	Z	-.01	7
65	MP-10	Z	-.008	4
66	MP-10	Z	-.01	4
67	MP-10	Z	-.004	7
68	MP-12	Z	-.006	4
69	MP-12	Z	-.008	7
70	MP-1	Z	-.003	1
71	MP-5	Z	-.003	1
72	MP-9	Z	-.003	1
73	MP-2	Z	-.028	9
74	MP-2	Z	-.007	2.579
75	MP-3	Z	-.006	6.032
76	MP-4	Z	-.023	9
77	MP-6	Z	-.028	9
78	MP-6	Z	-.007	2.579
79	MP-7	Z	-.006	6.032
80	MP-8	Z	-.023	9
81	MP-10	Z	-.019	9
82	MP-10	Z	-.005	2.579
83	MP-11	Z	-.004	6.032
84	MP-12	Z	-.013	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.064	1
2	MP-2	X	.017	.25
3	MP-3	X	.013	3.5
4	MP-4	X	.054	1
5	MP-6	X	.064	1
6	MP-6	X	.017	.25
7	MP-7	X	.013	3.5
8	MP-8	X	.054	1
9	MP-10	X	.064	1
10	MP-10	X	.017	.25
11	MP-11	X	.013	3.5
12	MP-12	X	.054	1
13	MP-2	X	.016	4
14	MP-2	X	.022	4
15	MP-2	X	.014	7
16	MP-4	X	.016	4
17	MP-4	X	.022	7
18	MP-6	X	.016	4
19	MP-6	X	.022	4
20	MP-6	X	.014	7
21	MP-8	X	.016	4
22	MP-8	X	.022	7
23	MP-10	X	.016	4
24	MP-10	X	.022	4
25	MP-10	X	.014	7
26	MP-12	X	.016	4
27	MP-12	X	.022	7
28	MP-1	X	.005	1
29	MP-5	X	.005	1
30	MP-9	X	.005	1
31	MP-2	X	.064	9
32	MP-2	X	.017	2.579

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
33	MP-3	X	.013	6.032
34	MP-4	X	.054	9
35	MP-6	X	.064	9
36	MP-6	X	.017	2.579
37	MP-7	X	.013	6.032
38	MP-8	X	.054	9
39	MP-10	X	.064	9
40	MP-10	X	.017	2.579
41	MP-11	X	.013	6.032
42	MP-12	X	.054	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.049	1
2	MP-2	X	.013	.25
3	MP-3	X	.01	3.5
4	MP-4	X	.04	1
5	MP-6	X	.031	1
6	MP-6	X	.007	.25
7	MP-7	X	.006	3.5
8	MP-8	X	.02	1
9	MP-10	X	.041	1
10	MP-10	X	.01	.25
11	MP-11	X	.008	3.5
12	MP-12	X	.031	1
13	MP-2	X	.011	4
14	MP-2	X	.014	4
15	MP-2	X	.01	7
16	MP-4	X	.013	4
17	MP-4	X	.017	7
18	MP-6	X	.014	4
19	MP-6	X	.019	4
20	MP-6	X	.006	7
21	MP-8	X	.01	4
22	MP-8	X	.012	7
23	MP-10	X	.01	4
24	MP-10	X	.013	4
25	MP-10	X	.008	7
26	MP-12	X	.012	4
27	MP-12	X	.015	7
28	MP-1	X	.005	1
29	MP-5	X	.005	1
30	MP-9	X	.005	1
31	MP-2	X	.049	9
32	MP-2	X	.013	2.579
33	MP-3	X	.01	6.032
34	MP-4	X	.04	9
35	MP-6	X	.031	9
36	MP-6	X	.007	2.579
37	MP-7	X	.006	6.032
38	MP-8	X	.02	9
39	MP-10	X	.041	9
40	MP-10	X	.01	2.579
41	MP-11	X	.008	6.032
42	MP-12	X	.031	9
43	MP-2	Z	.028	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
44	MP-2	Z	.007	.25
45	MP-3	Z	.006	3.5
46	MP-4	Z	.023	1
47	MP-6	Z	.018	1
48	MP-6	Z	.004	.25
49	MP-7	Z	.004	3.5
50	MP-8	Z	.012	1
51	MP-10	Z	.024	1
52	MP-10	Z	.006	.25
53	MP-11	Z	.005	3.5
54	MP-12	Z	.018	1
55	MP-2	Z	.006	4
56	MP-2	Z	.008	4
57	MP-2	Z	.006	7
58	MP-4	Z	.007	4
59	MP-4	Z	.01	7
60	MP-6	Z	.008	4
61	MP-6	Z	.011	4
62	MP-6	Z	.004	7
63	MP-8	Z	.006	4
64	MP-8	Z	.007	7
65	MP-10	Z	.006	4
66	MP-10	Z	.007	4
67	MP-10	Z	.005	7
68	MP-12	Z	.007	4
69	MP-12	Z	.009	7
70	MP-1	Z	.003	1
71	MP-5	Z	.003	1
72	MP-9	Z	.003	1
73	MP-2	Z	.028	9
74	MP-2	Z	.007	2.579
75	MP-3	Z	.006	6.032
76	MP-4	Z	.023	9
77	MP-6	Z	.018	9
78	MP-6	Z	.004	2.579
79	MP-7	Z	.004	6.032
80	MP-8	Z	.012	9
81	MP-10	Z	.024	9
82	MP-10	Z	.006	2.579
83	MP-11	Z	.005	6.032
84	MP-12	Z	.018	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.035	1
2	MP-2	X	.009	.25
3	MP-3	X	.007	3.5
4	MP-4	X	.027	1
5	MP-6	X	.027	1
6	MP-6	X	.006	.25
7	MP-7	X	.005	3.5
8	MP-8	X	.018	1
9	MP-10	X	.039	1
10	MP-10	X	.01	.25
11	MP-11	X	.008	3.5
12	MP-12	X	.031	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP-2	X	.01	4
14	MP-2	X	.013	4
15	MP-2	X	.007	7
16	MP-4	X	.01	4
17	MP-4	X	.013	7
18	MP-6	X	.011	4
19	MP-6	X	.015	4
20	MP-6	X	.005	7
21	MP-8	X	.009	4
22	MP-8	X	.01	7
23	MP-10	X	.008	4
24	MP-10	X	.01	4
25	MP-10	X	.008	7
26	MP-12	X	.01	4
27	MP-12	X	.014	7
28	MP-1	X	.004	1
29	MP-5	X	.004	1
30	MP-9	X	.004	1
31	MP-2	X	.035	9
32	MP-2	X	.009	2.579
33	MP-3	X	.007	6.032
34	MP-4	X	.027	9
35	MP-6	X	.027	9
36	MP-6	X	.006	2.579
37	MP-7	X	.005	6.032
38	MP-8	X	.018	9
39	MP-10	X	.039	9
40	MP-10	X	.01	2.579
41	MP-11	X	.008	6.032
42	MP-12	X	.031	9
43	MP-2	Z	.035	1
44	MP-2	Z	.009	.25
45	MP-3	Z	.007	3.5
46	MP-4	Z	.027	1
47	MP-6	Z	.027	1
48	MP-6	Z	.006	.25
49	MP-7	Z	.005	3.5
50	MP-8	Z	.018	1
51	MP-10	Z	.039	1
52	MP-10	Z	.01	.25
53	MP-11	Z	.008	3.5
54	MP-12	Z	.031	1
55	MP-2	Z	.01	4
56	MP-2	Z	.013	4
57	MP-2	Z	.007	7
58	MP-4	Z	.01	4
59	MP-4	Z	.013	7
60	MP-6	Z	.011	4
61	MP-6	Z	.015	4
62	MP-6	Z	.005	7
63	MP-8	Z	.009	4
64	MP-8	Z	.01	7
65	MP-10	Z	.008	4
66	MP-10	Z	.01	4
67	MP-10	Z	.008	7
68	MP-12	Z	.01	4
69	MP-12	Z	.014	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
70	MP-1	Z	.004	1
71	MP-5	Z	.004	1
72	MP-9	Z	.004	1
73	MP-2	Z	.035	9
74	MP-2	Z	.009	2.579
75	MP-3	Z	.007	6.032
76	MP-4	Z	.027	9
77	MP-6	Z	.027	9
78	MP-6	Z	.006	2.579
79	MP-7	Z	.005	6.032
80	MP-8	Z	.018	9
81	MP-10	Z	.039	9
82	MP-10	Z	.01	2.579
83	MP-11	Z	.008	6.032
84	MP-12	Z	.031	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	.021	1
2	MP-2	X	.005	.25
3	MP-3	X	.004	3.5
4	MP-4	X	.015	1
5	MP-6	X	.021	1
6	MP-6	X	.005	.25
7	MP-7	X	.004	3.5
8	MP-8	X	.015	1
9	MP-10	X	.03	1
10	MP-10	X	.008	.25
11	MP-11	X	.006	3.5
12	MP-12	X	.025	1
13	MP-2	X	.007	4
14	MP-2	X	.01	4
15	MP-2	X	.004	7
16	MP-4	X	.007	4
17	MP-4	X	.008	7
18	MP-6	X	.007	4
19	MP-6	X	.01	4
20	MP-6	X	.004	7
21	MP-8	X	.007	4
22	MP-8	X	.008	7
23	MP-10	X	.006	4
24	MP-10	X	.008	4
25	MP-10	X	.006	7
26	MP-12	X	.008	4
27	MP-12	X	.01	7
28	MP-1	X	.003	1
29	MP-5	X	.003	1
30	MP-9	X	.003	1
31	MP-2	X	.021	9
32	MP-2	X	.005	2.579
33	MP-3	X	.004	6.032
34	MP-4	X	.015	9
35	MP-6	X	.021	9
36	MP-6	X	.005	2.579
37	MP-7	X	.004	6.032
38	MP-8	X	.015	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP-10	X	.03	9
40	MP-10	X	.008	2.579
41	MP-11	X	.006	6.032
42	MP-12	X	.025	9
43	MP-2	Z	.037	1
44	MP-2	Z	.009	.25
45	MP-3	Z	.007	3.5
46	MP-4	Z	.027	1
47	MP-6	Z	.037	1
48	MP-6	Z	.009	.25
49	MP-7	Z	.007	3.5
50	MP-8	Z	.027	1
51	MP-10	Z	.053	1
52	MP-10	Z	.014	.25
53	MP-11	Z	.011	3.5
54	MP-12	Z	.044	1
55	MP-2	Z	.013	4
56	MP-2	Z	.017	4
57	MP-2	Z	.008	7
58	MP-4	Z	.011	4
59	MP-4	Z	.014	7
60	MP-6	Z	.013	4
61	MP-6	Z	.017	4
62	MP-6	Z	.008	7
63	MP-8	Z	.011	4
64	MP-8	Z	.014	7
65	MP-10	Z	.01	4
66	MP-10	Z	.013	4
67	MP-10	Z	.011	7
68	MP-12	Z	.013	4
69	MP-12	Z	.018	7
70	MP-1	Z	.005	1
71	MP-5	Z	.005	1
72	MP-9	Z	.005	1
73	MP-2	Z	.037	9
74	MP-2	Z	.009	2.579
75	MP-3	Z	.007	6.032
76	MP-4	Z	.027	9
77	MP-6	Z	.037	9
78	MP-6	Z	.009	2.579
79	MP-7	Z	.007	6.032
80	MP-8	Z	.027	9
81	MP-10	Z	.053	9
82	MP-10	Z	.014	2.579
83	MP-11	Z	.011	6.032
84	MP-12	Z	.044	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	.036	1
2	MP-2	Z	.008	.25
3	MP-3	Z	.007	3.5
4	MP-4	Z	.023	1
5	MP-6	Z	.036	1
6	MP-6	Z	.008	.25
7	MP-7	Z	.007	3.5

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 31 : 270 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
8	MP-8	Z	.023	1
9	MP-10	Z	.036	1
10	MP-10	Z	.008	.25
11	MP-11	Z	.007	3.5
12	MP-12	Z	.023	1
13	MP-2	Z	.011	4
14	MP-2	Z	.014	4
15	MP-2	Z	.007	7
16	MP-4	Z	.012	4
17	MP-4	Z	.014	7
18	MP-6	Z	.011	4
19	MP-6	Z	.014	4
20	MP-6	Z	.007	7
21	MP-8	Z	.012	4
22	MP-8	Z	.014	7
23	MP-10	Z	.011	4
24	MP-10	Z	.014	4
25	MP-10	Z	.007	7
26	MP-12	Z	.012	4
27	MP-12	Z	.014	7
28	MP-1	Z	.005	1
29	MP-5	Z	.005	1
30	MP-9	Z	.005	1
31	MP-2	Z	.036	9
32	MP-2	Z	.008	2.579
33	MP-3	Z	.007	6.032
34	MP-4	Z	.023	9
35	MP-6	Z	.036	9
36	MP-6	Z	.008	2.579
37	MP-7	Z	.007	6.032
38	MP-8	Z	.023	9
39	MP-10	Z	.036	9
40	MP-10	Z	.008	2.579
41	MP-11	Z	.007	6.032
42	MP-12	Z	.023	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.021	1
2	MP-2	X	-.005	.25
3	MP-3	X	-.004	3.5
4	MP-4	X	-.015	1
5	MP-6	X	-.032	1
6	MP-6	X	-.008	.25
7	MP-7	X	-.007	3.5
8	MP-8	X	-.027	1
9	MP-10	X	-.026	1
10	MP-10	X	-.007	.25
11	MP-11	X	-.005	3.5
12	MP-12	X	-.021	1
13	MP-2	X	-.007	4
14	MP-2	X	-.01	4
15	MP-2	X	-.004	7
16	MP-4	X	-.007	4
17	MP-4	X	-.008	7
18	MP-6	X	-.005	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
19	MP-6	X	-.007	4
20	MP-6	X	-.007	7
21	MP-8	X	-.008	4
22	MP-8	X	-.011	7
23	MP-10	X	-.008	4
24	MP-10	X	-.011	4
25	MP-10	X	-.005	7
26	MP-12	X	-.007	4
27	MP-12	X	-.009	7
28	MP-1	X	-.003	1
29	MP-5	X	-.003	1
30	MP-9	X	-.003	1
31	MP-2	X	-.021	9
32	MP-2	X	-.005	2.579
33	MP-3	X	-.004	6.032
34	MP-4	X	-.015	9
35	MP-6	X	-.032	9
36	MP-6	X	-.008	2.579
37	MP-7	X	-.007	6.032
38	MP-8	X	-.027	9
39	MP-10	X	-.026	9
40	MP-10	X	-.007	2.579
41	MP-11	X	-.005	6.032
42	MP-12	X	-.021	9
43	MP-2	Z	.037	1
44	MP-2	Z	.009	.25
45	MP-3	Z	.007	3.5
46	MP-4	Z	.027	1
47	MP-6	Z	.055	1
48	MP-6	Z	.015	.25
49	MP-7	Z	.011	3.5
50	MP-8	Z	.047	1
51	MP-10	Z	.045	1
52	MP-10	Z	.011	.25
53	MP-11	Z	.009	3.5
54	MP-12	Z	.036	1
55	MP-2	Z	.013	4
56	MP-2	Z	.017	4
57	MP-2	Z	.008	7
58	MP-4	Z	.011	4
59	MP-4	Z	.014	7
60	MP-6	Z	.009	4
61	MP-6	Z	.012	4
62	MP-6	Z	.012	7
63	MP-8	Z	.014	4
64	MP-8	Z	.019	7
65	MP-10	Z	.014	4
66	MP-10	Z	.018	4
67	MP-10	Z	.009	7
68	MP-12	Z	.012	4
69	MP-12	Z	.016	7
70	MP-1	Z	.005	1
71	MP-5	Z	.005	1
72	MP-9	Z	.005	1
73	MP-2	Z	.037	9
74	MP-2	Z	.009	2.579
75	MP-3	Z	.007	6.032

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 32 : 300 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
76	MP-4	Z	.027	9
77	MP-6	Z	.055	9
78	MP-6	Z	.015	2.579
79	MP-7	Z	.011	6.032
80	MP-8	Z	.047	9
81	MP-10	Z	.045	9
82	MP-10	Z	.011	2.579
83	MP-11	Z	.009	6.032
84	MP-12	Z	.036	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.035	1
2	MP-2	X	-.009	.25
3	MP-3	X	-.007	3.5
4	MP-4	X	-.027	1
5	MP-6	X	-.044	1
6	MP-6	X	-.012	.25
7	MP-7	X	-.009	3.5
8	MP-8	X	-.037	1
9	MP-10	X	-.032	1
10	MP-10	X	-.008	.25
11	MP-11	X	-.006	3.5
12	MP-12	X	-.024	1
13	MP-2	X	-.01	4
14	MP-2	X	-.013	4
15	MP-2	X	-.007	7
16	MP-4	X	-.01	4
17	MP-4	X	-.013	7
18	MP-6	X	-.008	4
19	MP-6	X	-.01	4
20	MP-6	X	-.009	7
21	MP-8	X	-.011	4
22	MP-8	X	-.015	7
23	MP-10	X	-.011	4
24	MP-10	X	-.015	4
25	MP-10	X	-.007	7
26	MP-12	X	-.009	4
27	MP-12	X	-.012	7
28	MP-1	X	-.004	1
29	MP-5	X	-.004	1
30	MP-9	X	-.004	1
31	MP-2	X	-.035	9
32	MP-2	X	-.009	2.579
33	MP-3	X	-.007	6.032
34	MP-4	X	-.027	9
35	MP-6	X	-.044	9
36	MP-6	X	-.012	2.579
37	MP-7	X	-.009	6.032
38	MP-8	X	-.037	9
39	MP-10	X	-.032	9
40	MP-10	X	-.008	2.579
41	MP-11	X	-.006	6.032
42	MP-12	X	-.024	9
43	MP-2	Z	.035	1
44	MP-2	Z	.009	.25

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
45	MP-3	Z	.007	3.5
46	MP-4	Z	.027	1
47	MP-6	Z	.044	1
48	MP-6	Z	.012	.25
49	MP-7	Z	.009	3.5
50	MP-8	Z	.037	1
51	MP-10	Z	.032	1
52	MP-10	Z	.008	.25
53	MP-11	Z	.006	3.5
54	MP-12	Z	.024	1
55	MP-2	Z	.01	4
56	MP-2	Z	.013	4
57	MP-2	Z	.007	7
58	MP-4	Z	.01	4
59	MP-4	Z	.013	7
60	MP-6	Z	.008	4
61	MP-6	Z	.01	4
62	MP-6	Z	.009	7
63	MP-8	Z	.011	4
64	MP-8	Z	.015	7
65	MP-10	Z	.011	4
66	MP-10	Z	.015	4
67	MP-10	Z	.007	7
68	MP-12	Z	.009	4
69	MP-12	Z	.012	7
70	MP-1	Z	.004	1
71	MP-5	Z	.004	1
72	MP-9	Z	.004	1
73	MP-2	Z	.035	9
74	MP-2	Z	.009	2.579
75	MP-3	Z	.007	6.032
76	MP-4	Z	.027	9
77	MP-6	Z	.044	9
78	MP-6	Z	.012	2.579
79	MP-7	Z	.009	6.032
80	MP-8	Z	.037	9
81	MP-10	Z	.032	9
82	MP-10	Z	.008	2.579
83	MP-11	Z	.006	6.032
84	MP-12	Z	.024	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.049	1
2	MP-2	X	-.013	.25
3	MP-3	X	-.01	3.5
4	MP-4	X	-.04	1
5	MP-6	X	-.049	1
6	MP-6	X	-.013	.25
7	MP-7	X	-.01	3.5
8	MP-8	X	-.04	1
9	MP-10	X	-.034	1
10	MP-10	X	-.008	.25
11	MP-11	X	-.007	3.5
12	MP-12	X	-.023	1
13	MP-2	X	-.011	4

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Point Loads (BLC 34 : 330 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	MP-2	X	-.014	4
15	MP-2	X	-.01	7
16	MP-4	X	-.013	4
17	MP-4	X	-.017	7
18	MP-6	X	-.011	4
19	MP-6	X	-.014	4
20	MP-6	X	-.01	7
21	MP-8	X	-.013	4
22	MP-8	X	-.017	7
23	MP-10	X	-.014	4
24	MP-10	X	-.018	4
25	MP-10	X	-.007	7
26	MP-12	X	-.011	4
27	MP-12	X	-.013	7
28	MP-1	X	-.005	1
29	MP-5	X	-.005	1
30	MP-9	X	-.005	1
31	MP-2	X	-.049	9
32	MP-2	X	-.013	2.579
33	MP-3	X	-.01	6.032
34	MP-4	X	-.04	9
35	MP-6	X	-.049	9
36	MP-6	X	-.013	2.579
37	MP-7	X	-.01	6.032
38	MP-8	X	-.04	9
39	MP-10	X	-.034	9
40	MP-10	X	-.008	2.579
41	MP-11	X	-.007	6.032
42	MP-12	X	-.023	9
43	MP-2	Z	.028	1
44	MP-2	Z	.007	.25
45	MP-3	Z	.006	3.5
46	MP-4	Z	.023	1
47	MP-6	Z	.028	1
48	MP-6	Z	.007	.25
49	MP-7	Z	.006	3.5
50	MP-8	Z	.023	1
51	MP-10	Z	.019	1
52	MP-10	Z	.005	.25
53	MP-11	Z	.004	3.5
54	MP-12	Z	.013	1
55	MP-2	Z	.006	4
56	MP-2	Z	.008	4
57	MP-2	Z	.006	7
58	MP-4	Z	.007	4
59	MP-4	Z	.01	7
60	MP-6	Z	.006	4
61	MP-6	Z	.008	4
62	MP-6	Z	.006	7
63	MP-8	Z	.007	4
64	MP-8	Z	.01	7
65	MP-10	Z	.008	4
66	MP-10	Z	.01	4
67	MP-10	Z	.004	7
68	MP-12	Z	.006	4
69	MP-12	Z	.008	7
70	MP-1	Z	.003	1

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
71	MP-5	Z	.003	1
72	MP-9	Z	.003	1
73	MP-2	Z	.028	9
74	MP-2	Z	.007	2.579
75	MP-3	Z	.006	6.032
76	MP-4	Z	.023	9
77	MP-6	Z	.028	9
78	MP-6	Z	.007	2.579
79	MP-7	Z	.006	6.032
80	MP-8	Z	.023	9
81	MP-10	Z	.019	9
82	MP-10	Z	.005	2.579
83	MP-11	Z	.004	6.032
84	MP-12	Z	.013	9

Member Point Loads (BLC 37 : Seismic Load X)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	X	-.075	1
2	MP-2	X	-.033	.25
3	MP-3	X	-.041	3.5
4	MP-4	X	-.053	1
5	MP-6	X	-.075	1
6	MP-6	X	-.033	.25
7	MP-7	X	-.041	3.5
8	MP-8	X	-.053	1
9	MP-10	X	-.075	1
10	MP-10	X	-.033	.25
11	MP-11	X	-.041	3.5
12	MP-12	X	-.053	1
13	MP-2	X	-.059	4
14	MP-2	X	-.053	4
15	MP-2	X	-.048	7
16	MP-4	X	-.071	4
17	MP-4	X	-.053	7
18	MP-6	X	-.059	4
19	MP-6	X	-.053	4
20	MP-6	X	-.048	7
21	MP-8	X	-.071	4
22	MP-8	X	-.053	7
23	MP-10	X	-.059	4
24	MP-10	X	-.053	4
25	MP-10	X	-.048	7
26	MP-12	X	-.071	4
27	MP-12	X	-.053	7
28	MP-1	X	-.016	1
29	MP-5	X	-.016	1
30	MP-9	X	-.016	1
31	MP-2	X	-.075	9
32	MP-2	X	-.033	2.579
33	MP-3	X	-.041	6.032
34	MP-4	X	-.053	9
35	MP-6	X	-.075	9
36	MP-6	X	-.033	2.579
37	MP-7	X	-.041	6.032
38	MP-8	X	-.053	9
39	MP-10	X	-.075	9

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
40	MP-10	X	-.033	2.579
41	MP-11	X	-.041	6.032
42	MP-12	X	-.053	9

Member Point Loads (BLC 38 : Seismic Load Z)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP-2	Z	-.075	1
2	MP-2	Z	-.033	.25
3	MP-3	Z	-.041	3.5
4	MP-4	Z	-.053	1
5	MP-6	Z	-.075	1
6	MP-6	Z	-.033	.25
7	MP-7	Z	-.041	3.5
8	MP-8	Z	-.053	1
9	MP-10	Z	-.075	1
10	MP-10	Z	-.033	.25
11	MP-11	Z	-.041	3.5
12	MP-12	Z	-.053	1
13	MP-2	Z	-.059	4
14	MP-2	Z	-.053	4
15	MP-2	Z	-.048	7
16	MP-4	Z	-.071	4
17	MP-4	Z	-.053	7
18	MP-6	Z	-.059	4
19	MP-6	Z	-.053	4
20	MP-6	Z	-.048	7
21	MP-8	Z	-.071	4
22	MP-8	Z	-.053	7
23	MP-10	Z	-.059	4
24	MP-10	Z	-.053	4
25	MP-10	Z	-.048	7
26	MP-12	Z	-.071	4
27	MP-12	Z	-.053	7
28	MP-1	Z	-.016	1
29	MP-5	Z	-.016	1
30	MP-9	Z	-.016	1
31	MP-2	Z	-.075	9
32	MP-2	Z	-.033	2.579
33	MP-3	Z	-.041	6.032
34	MP-4	Z	-.053	9
35	MP-6	Z	-.075	9
36	MP-6	Z	-.033	2.579
37	MP-7	Z	-.041	6.032
38	MP-8	Z	-.053	9
39	MP-10	Z	-.075	9
40	MP-10	Z	-.033	2.579
41	MP-11	Z	-.041	6.032
42	MP-12	Z	-.053	9

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.017	-.017	0	%100
2	FF-H2	X	-.008	-.008	0	%100
3	FF-H3	X	-.008	-.008	0	%100
4	GSC-1	X	-.011	-.011	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
5	GSC-2	X	0	0	0	%100
6	GSC-3	X	-.011	-.011	0	%100
7	GSI-1	X	-.017	-.017	0	%100
8	GSI-2	X	-.007	-.007	0	%100
9	GSI-3	X	-.007	-.007	0	%100
10	HRC-1	X	-.008	-.008	0	%100
11	HRC-2	X	-.017	-.017	0	%100
12	HRC-3	X	-.008	-.008	0	%100
13	K-1	X	-.008	-.008	0	%100
14	K-2	X	-.008	-.008	0	%100
15	K-3	X	-.008	-.008	0	%100
16	MP-1	X	-.008	-.008	0	%100
17	MP-2	X	-.008	-.008	0	%100
18	MP-3	X	-.008	-.008	0	%100
19	MP-4	X	-.008	-.008	0	%100
20	MP-5	X	-.008	-.008	0	%100
21	MP-6	X	-.008	-.008	0	%100
22	MP-7	X	-.008	-.008	0	%100
23	MP-8	X	-.008	-.008	0	%100
24	MP-9	X	-.008	-.008	0	%100
25	MP-10	X	-.008	-.008	0	%100
26	MP-11	X	-.008	-.008	0	%100
27	MP-12	X	-.008	-.008	0	%100
28	SF-H1	X	0	0	0	%100
29	SF-H2	X	-.014	-.014	0	%100
30	SF-H3	X	-.014	-.014	0	%100
31	HR-1	X	-.008	-.008	0	%100
32	HR-2	X	-.004	-.004	0	%100
33	HR-3	X	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.013	-.013	0	%100
2	FF-H2	X	0	0	0	%100
3	FF-H3	X	-.013	-.013	0	%100
4	GSC-1	X	-.006	-.006	0	%100
5	GSC-2	X	-.004	-.004	0	%100
6	GSC-3	X	-.011	-.011	0	%100
7	GSI-1	X	-.013	-.013	0	%100
8	GSI-2	X	0	0	0	%100
9	GSI-3	X	-.011	-.011	0	%100
10	HRC-1	X	-.011	-.011	0	%100
11	HRC-2	X	-.013	-.013	0	%100
12	HRC-3	X	0	0	0	%100
13	K-1	X	-.007	-.007	0	%100
14	K-2	X	-.007	-.007	0	%100
15	K-3	X	-.007	-.007	0	%100
16	MP-1	X	-.007	-.007	0	%100
17	MP-2	X	-.007	-.007	0	%100
18	MP-3	X	-.007	-.007	0	%100
19	MP-4	X	-.007	-.007	0	%100
20	MP-5	X	-.007	-.007	0	%100
21	MP-6	X	-.007	-.007	0	%100
22	MP-7	X	-.007	-.007	0	%100
23	MP-8	X	-.007	-.007	0	%100
24	MP-9	X	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
25	MP-10	X	-.007	-.007	0	%100
26	MP-11	X	-.007	-.007	0	%100
27	MP-12	X	-.007	-.007	0	%100
28	SF-H1	X	-.006	-.006	0	%100
29	SF-H2	X	-.014	-.014	0	%100
30	SF-H3	X	-.007	-.007	0	%100
31	HR-1	X	-.006	-.006	0	%100
32	HR-2	X	0	0	0	%100
33	HR-3	X	-.006	-.006	0	%100
34	FF-H1	Z	-.007	-.007	0	%100
35	FF-H2	Z	0	0	0	%100
36	FF-H3	Z	-.007	-.007	0	%100
37	GSC-1	Z	-.003	-.003	0	%100
38	GSC-2	Z	-.003	-.003	0	%100
39	GSC-3	Z	-.006	-.006	0	%100
40	GSI-1	Z	-.007	-.007	0	%100
41	GSI-2	Z	0	0	0	%100
42	GSI-3	Z	-.007	-.007	0	%100
43	HRC-1	Z	-.007	-.007	0	%100
44	HRC-2	Z	-.007	-.007	0	%100
45	HRC-3	Z	0	0	0	%100
46	K-1	Z	-.004	-.004	0	%100
47	K-2	Z	-.004	-.004	0	%100
48	K-3	Z	-.004	-.004	0	%100
49	MP-1	Z	-.004	-.004	0	%100
50	MP-2	Z	-.004	-.004	0	%100
51	MP-3	Z	-.004	-.004	0	%100
52	MP-4	Z	-.004	-.004	0	%100
53	MP-5	Z	-.004	-.004	0	%100
54	MP-6	Z	-.004	-.004	0	%100
55	MP-7	Z	-.004	-.004	0	%100
56	MP-8	Z	-.004	-.004	0	%100
57	MP-9	Z	-.004	-.004	0	%100
58	MP-10	Z	-.004	-.004	0	%100
59	MP-11	Z	-.004	-.004	0	%100
60	MP-12	Z	-.004	-.004	0	%100
61	SF-H1	Z	-.004	-.004	0	%100
62	SF-H2	Z	-.007	-.007	0	%100
63	SF-H3	Z	-.004	-.004	0	%100
64	HR-1	Z	-.003	-.003	0	%100
65	HR-2	Z	0	0	0	%100
66	HR-3	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.008	-.008	0	%100
2	FF-H2	X	-.003	-.003	0	%100
3	FF-H3	X	-.012	-.012	0	%100
4	GSC-1	X	-.002	-.002	0	%100
5	GSC-2	X	-.005	-.005	0	%100
6	GSC-3	X	-.009	-.009	0	%100
7	GSI-1	X	-.008	-.008	0	%100
8	GSI-2	X	-.003	-.003	0	%100
9	GSI-3	X	-.01	-.01	0	%100
10	HRC-1	X	-.01	-.01	0	%100
11	HRC-2	X	-.009	-.009	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
12	HRC-3	X	-.003	-.003	0	%100
13	K-1	X	-.006	-.006	0	%100
14	K-2	X	-.006	-.006	0	%100
15	K-3	X	-.006	-.006	0	%100
16	MP-1	X	-.006	-.006	0	%100
17	MP-2	X	-.006	-.006	0	%100
18	MP-3	X	-.006	-.006	0	%100
19	MP-4	X	-.006	-.006	0	%100
20	MP-5	X	-.006	-.006	0	%100
21	MP-6	X	-.006	-.006	0	%100
22	MP-7	X	-.006	-.006	0	%100
23	MP-8	X	-.006	-.006	0	%100
24	MP-9	X	-.006	-.006	0	%100
25	MP-10	X	-.006	-.006	0	%100
26	MP-11	X	-.006	-.006	0	%100
27	MP-12	X	-.006	-.006	0	%100
28	SF-H1	X	-.007	-.007	0	%100
29	SF-H2	X	-.011	-.011	0	%100
30	SF-H3	X	-.003	-.003	0	%100
31	HR-1	X	-.004	-.004	0	%100
32	HR-2	X	-.001	-.001	0	%100
33	HR-3	X	-.005	-.005	0	%100
34	FF-H1	Z	-.008	-.008	0	%100
35	FF-H2	Z	-.003	-.003	0	%100
36	FF-H3	Z	-.012	-.012	0	%100
37	GSC-1	Z	-.002	-.002	0	%100
38	GSC-2	Z	-.007	-.007	0	%100
39	GSC-3	Z	-.008	-.008	0	%100
40	GSI-1	Z	-.008	-.008	0	%100
41	GSI-2	Z	-.003	-.003	0	%100
42	GSI-3	Z	-.012	-.012	0	%100
43	HRC-1	Z	-.011	-.011	0	%100
44	HRC-2	Z	-.009	-.009	0	%100
45	HRC-3	Z	-.003	-.003	0	%100
46	K-1	Z	-.006	-.006	0	%100
47	K-2	Z	-.006	-.006	0	%100
48	K-3	Z	-.006	-.006	0	%100
49	MP-1	Z	-.006	-.006	0	%100
50	MP-2	Z	-.006	-.006	0	%100
51	MP-3	Z	-.006	-.006	0	%100
52	MP-4	Z	-.006	-.006	0	%100
53	MP-5	Z	-.006	-.006	0	%100
54	MP-6	Z	-.006	-.006	0	%100
55	MP-7	Z	-.006	-.006	0	%100
56	MP-8	Z	-.006	-.006	0	%100
57	MP-9	Z	-.006	-.006	0	%100
58	MP-10	Z	-.006	-.006	0	%100
59	MP-11	Z	-.006	-.006	0	%100
60	MP-12	Z	-.006	-.006	0	%100
61	SF-H1	Z	-.008	-.008	0	%100
62	SF-H2	Z	-.01	-.01	0	%100
63	SF-H3	Z	-.003	-.003	0	%100
64	HR-1	Z	-.004	-.004	0	%100
65	HR-2	Z	-.001	-.001	0	%100
66	HR-3	Z	-.005	-.005	0	%100

Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)

Dec 27, 2021
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Member Distributed Loads (BLC 5 : 60 Wind - No Ice)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.004	-.004	0	%100
2	FF-H2	X	-.004	-.004	0	%100
3	FF-H3	X	-.008	-.008	0	%100
4	GSC-1	X	0	0	0	%100
5	GSC-2	X	-.004	-.004	0	%100
6	GSC-3	X	-.006	-.006	0	%100
7	GSI-1	X	-.004	-.004	0	%100
8	GSI-2	X	-.004	-.004	0	%100
9	GSI-3	X	-.007	-.007	0	%100
10	HRC-1	X	-.008	-.008	0	%100
11	HRC-2	X	-.004	-.004	0	%100
12	HRC-3	X	-.004	-.004	0	%100
13	K-1	X	-.004	-.004	0	%100
14	K-2	X	-.004	-.004	0	%100
15	K-3	X	-.004	-.004	0	%100
16	MP-1	X	-.004	-.004	0	%100
17	MP-2	X	-.004	-.004	0	%100
18	MP-3	X	-.004	-.004	0	%100
19	MP-4	X	-.004	-.004	0	%100
20	MP-5	X	-.004	-.004	0	%100
21	MP-6	X	-.004	-.004	0	%100
22	MP-7	X	-.004	-.004	0	%100
23	MP-8	X	-.004	-.004	0	%100
24	MP-9	X	-.004	-.004	0	%100
25	MP-10	X	-.004	-.004	0	%100
26	MP-11	X	-.004	-.004	0	%100
27	MP-12	X	-.004	-.004	0	%100
28	SF-H1	X	-.006	-.006	0	%100
29	SF-H2	X	-.007	-.007	0	%100
30	SF-H3	X	0	0	0	%100
31	HR-1	X	-.002	-.002	0	%100
32	HR-2	X	-.002	-.002	0	%100
33	HR-3	X	-.004	-.004	0	%100
34	FF-H1	Z	-.007	-.007	0	%100
35	FF-H2	Z	-.007	-.007	0	%100
36	FF-H3	Z	-.015	-.015	0	%100
37	GSC-1	Z	0	0	0	%100
38	GSC-2	Z	-.01	-.01	0	%100
39	GSC-3	Z	-.009	-.009	0	%100
40	GSI-1	Z	-.007	-.007	0	%100
41	GSI-2	Z	-.007	-.007	0	%100
42	GSI-3	Z	-.015	-.015	0	%100
43	HRC-1	Z	-.014	-.014	0	%100
44	HRC-2	Z	-.007	-.007	0	%100
45	HRC-3	Z	-.007	-.007	0	%100
46	K-1	Z	-.007	-.007	0	%100
47	K-2	Z	-.007	-.007	0	%100
48	K-3	Z	-.007	-.007	0	%100
49	MP-1	Z	-.007	-.007	0	%100
50	MP-2	Z	-.007	-.007	0	%100
51	MP-3	Z	-.007	-.007	0	%100
52	MP-4	Z	-.007	-.007	0	%100
53	MP-5	Z	-.007	-.007	0	%100
54	MP-6	Z	-.007	-.007	0	%100
55	MP-7	Z	-.007	-.007	0	%100
56	MP-8	Z	-.007	-.007	0	%100
57	MP-9	Z	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
58	MP-10	Z	-.007	-.007	0	%100
59	MP-11	Z	-.007	-.007	0	%100
60	MP-12	Z	-.007	-.007	0	%100
61	SF-H1	Z	-.012	-.012	0	%100
62	SF-H2	Z	-.011	-.011	0	%100
63	SF-H3	Z	0	0	0	%100
64	HR-1	Z	-.003	-.003	0	%100
65	HR-2	Z	-.003	-.003	0	%100
66	HR-3	Z	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Z	0	0	0	%100
2	FF-H2	Z	-.015	-.015	0	%100
3	FF-H3	Z	-.015	-.015	0	%100
4	GSC-1	Z	-.006	-.006	0	%100
5	GSC-2	Z	-.013	-.013	0	%100
6	GSC-3	Z	-.006	-.006	0	%100
7	GSI-1	Z	0	0	0	%100
8	GSI-2	Z	-.015	-.015	0	%100
9	GSI-3	Z	-.015	-.015	0	%100
10	HRC-1	Z	-.014	-.014	0	%100
11	HRC-2	Z	0	0	0	%100
12	HRC-3	Z	-.014	-.014	0	%100
13	K-1	Z	-.008	-.008	0	%100
14	K-2	Z	-.008	-.008	0	%100
15	K-3	Z	-.008	-.008	0	%100
16	MP-1	Z	-.008	-.008	0	%100
17	MP-2	Z	-.008	-.008	0	%100
18	MP-3	Z	-.008	-.008	0	%100
19	MP-4	Z	-.008	-.008	0	%100
20	MP-5	Z	-.008	-.008	0	%100
21	MP-6	Z	-.008	-.008	0	%100
22	MP-7	Z	-.008	-.008	0	%100
23	MP-8	Z	-.008	-.008	0	%100
24	MP-9	Z	-.008	-.008	0	%100
25	MP-10	Z	-.008	-.008	0	%100
26	MP-11	Z	-.008	-.008	0	%100
27	MP-12	Z	-.008	-.008	0	%100
28	SF-H1	Z	-.016	-.016	0	%100
29	SF-H2	Z	-.007	-.007	0	%100
30	SF-H3	Z	-.007	-.007	0	%100
31	HR-1	Z	0	0	0	%100
32	HR-2	Z	-.007	-.007	0	%100
33	HR-3	Z	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.004	.004	0	%100
2	FF-H2	X	.008	.008	0	%100
3	FF-H3	X	.004	.004	0	%100
4	GSC-1	X	.006	.006	0	%100
5	GSC-2	X	.004	.004	0	%100
6	GSC-3	X	0	0	0	%100
7	GSI-1	X	.004	.004	0	%100
8	GSI-2	X	.007	.007	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Distributed Loads (BLC 7 : 120 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
9	GSI-3	X	.004	.004	0	%100
10	HRC-1	X	.004	.004	0	%100
11	HRC-2	X	.004	.004	0	%100
12	HRC-3	X	.008	.008	0	%100
13	K-1	X	.004	.004	0	%100
14	K-2	X	.004	.004	0	%100
15	K-3	X	.004	.004	0	%100
16	MP-1	X	.004	.004	0	%100
17	MP-2	X	.004	.004	0	%100
18	MP-3	X	.004	.004	0	%100
19	MP-4	X	.004	.004	0	%100
20	MP-5	X	.004	.004	0	%100
21	MP-6	X	.004	.004	0	%100
22	MP-7	X	.004	.004	0	%100
23	MP-8	X	.004	.004	0	%100
24	MP-9	X	.004	.004	0	%100
25	MP-10	X	.004	.004	0	%100
26	MP-11	X	.004	.004	0	%100
27	MP-12	X	.004	.004	0	%100
28	SF-H1	X	.006	.006	0	%100
29	SF-H2	X	0	0	0	%100
30	SF-H3	X	.007	.007	0	%100
31	HR-1	X	.002	.002	0	%100
32	HR-2	X	.004	.004	0	%100
33	HR-3	X	.002	.002	0	%100
34	FF-H1	Z	-.007	-.007	0	%100
35	FF-H2	Z	-.015	-.015	0	%100
36	FF-H3	Z	-.007	-.007	0	%100
37	GSC-1	Z	-.009	-.009	0	%100
38	GSC-2	Z	-.01	-.01	0	%100
39	GSC-3	Z	0	0	0	%100
40	GSI-1	Z	-.007	-.007	0	%100
41	GSI-2	Z	-.015	-.015	0	%100
42	GSI-3	Z	-.007	-.007	0	%100
43	HRC-1	Z	-.007	-.007	0	%100
44	HRC-2	Z	-.007	-.007	0	%100
45	HRC-3	Z	-.014	-.014	0	%100
46	K-1	Z	-.007	-.007	0	%100
47	K-2	Z	-.007	-.007	0	%100
48	K-3	Z	-.007	-.007	0	%100
49	MP-1	Z	-.007	-.007	0	%100
50	MP-2	Z	-.007	-.007	0	%100
51	MP-3	Z	-.007	-.007	0	%100
52	MP-4	Z	-.007	-.007	0	%100
53	MP-5	Z	-.007	-.007	0	%100
54	MP-6	Z	-.007	-.007	0	%100
55	MP-7	Z	-.007	-.007	0	%100
56	MP-8	Z	-.007	-.007	0	%100
57	MP-9	Z	-.007	-.007	0	%100
58	MP-10	Z	-.007	-.007	0	%100
59	MP-11	Z	-.007	-.007	0	%100
60	MP-12	Z	-.007	-.007	0	%100
61	SF-H1	Z	-.012	-.012	0	%100
62	SF-H2	Z	0	0	0	%100
63	SF-H3	Z	-.011	-.011	0	%100
64	HR-1	Z	-.003	-.003	0	%100
65	HR-2	Z	-.007	-.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
66	HR-3	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.008	.008	0	%100
2	FF-H2	X	.012	.012	0	%100
3	FF-H3	X	.003	.003	0	%100
4	GSC-1	X	.009	.009	0	%100
5	GSC-2	X	.005	.005	0	%100
6	GSC-3	X	.002	.002	0	%100
7	GSI-1	X	.008	.008	0	%100
8	GSI-2	X	.01	.01	0	%100
9	GSI-3	X	.003	.003	0	%100
10	HRC-1	X	.003	.003	0	%100
11	HRC-2	X	.009	.009	0	%100
12	HRC-3	X	.01	.01	0	%100
13	K-1	X	.006	.006	0	%100
14	K-2	X	.006	.006	0	%100
15	K-3	X	.006	.006	0	%100
16	MP-1	X	.006	.006	0	%100
17	MP-2	X	.006	.006	0	%100
18	MP-3	X	.006	.006	0	%100
19	MP-4	X	.006	.006	0	%100
20	MP-5	X	.006	.006	0	%100
21	MP-6	X	.006	.006	0	%100
22	MP-7	X	.006	.006	0	%100
23	MP-8	X	.006	.006	0	%100
24	MP-9	X	.006	.006	0	%100
25	MP-10	X	.006	.006	0	%100
26	MP-11	X	.006	.006	0	%100
27	MP-12	X	.006	.006	0	%100
28	SF-H1	X	.007	.007	0	%100
29	SF-H2	X	.003	.003	0	%100
30	SF-H3	X	.011	.011	0	%100
31	HR-1	X	.004	.004	0	%100
32	HR-2	X	.005	.005	0	%100
33	HR-3	X	.001	.001	0	%100
34	FF-H1	Z	-.008	-.008	0	%100
35	FF-H2	Z	-.012	-.012	0	%100
36	FF-H3	Z	-.003	-.003	0	%100
37	GSC-1	Z	-.008	-.008	0	%100
38	GSC-2	Z	-.007	-.007	0	%100
39	GSC-3	Z	-.002	-.002	0	%100
40	GSI-1	Z	-.008	-.008	0	%100
41	GSI-2	Z	-.012	-.012	0	%100
42	GSI-3	Z	-.003	-.003	0	%100
43	HRC-1	Z	-.003	-.003	0	%100
44	HRC-2	Z	-.009	-.009	0	%100
45	HRC-3	Z	-.011	-.011	0	%100
46	K-1	Z	-.006	-.006	0	%100
47	K-2	Z	-.006	-.006	0	%100
48	K-3	Z	-.006	-.006	0	%100
49	MP-1	Z	-.006	-.006	0	%100
50	MP-2	Z	-.006	-.006	0	%100
51	MP-3	Z	-.006	-.006	0	%100
52	MP-4	Z	-.006	-.006	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Distributed Loads (BLC 8 : 135 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
53	MP-5	Z	-.006	-.006	0	%100
54	MP-6	Z	-.006	-.006	0	%100
55	MP-7	Z	-.006	-.006	0	%100
56	MP-8	Z	-.006	-.006	0	%100
57	MP-9	Z	-.006	-.006	0	%100
58	MP-10	Z	-.006	-.006	0	%100
59	MP-11	Z	-.006	-.006	0	%100
60	MP-12	Z	-.006	-.006	0	%100
61	SF-H1	Z	-.008	-.008	0	%100
62	SF-H2	Z	-.003	-.003	0	%100
63	SF-H3	Z	-.01	-.01	0	%100
64	HR-1	Z	-.004	-.004	0	%100
65	HR-2	Z	-.005	-.005	0	%100
66	HR-3	Z	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.013	.013	0	%100
2	FF-H2	X	.013	.013	0	%100
3	FF-H3	X	0	0	0	%100
4	GSC-1	X	.011	.011	0	%100
5	GSC-2	X	.004	.004	0	%100
6	GSC-3	X	.006	.006	0	%100
7	GSI-1	X	.013	.013	0	%100
8	GSI-2	X	.011	.011	0	%100
9	GSI-3	X	0	0	0	%100
10	HRC-1	X	0	0	0	%100
11	HRC-2	X	.013	.013	0	%100
12	HRC-3	X	.011	.011	0	%100
13	K-1	X	.007	.007	0	%100
14	K-2	X	.007	.007	0	%100
15	K-3	X	.007	.007	0	%100
16	MP-1	X	.007	.007	0	%100
17	MP-2	X	.007	.007	0	%100
18	MP-3	X	.007	.007	0	%100
19	MP-4	X	.007	.007	0	%100
20	MP-5	X	.007	.007	0	%100
21	MP-6	X	.007	.007	0	%100
22	MP-7	X	.007	.007	0	%100
23	MP-8	X	.007	.007	0	%100
24	MP-9	X	.007	.007	0	%100
25	MP-10	X	.007	.007	0	%100
26	MP-11	X	.007	.007	0	%100
27	MP-12	X	.007	.007	0	%100
28	SF-H1	X	.006	.006	0	%100
29	SF-H2	X	.007	.007	0	%100
30	SF-H3	X	.014	.014	0	%100
31	HR-1	X	.006	.006	0	%100
32	HR-2	X	.006	.006	0	%100
33	HR-3	X	0	0	0	%100
34	FF-H1	Z	-.007	-.007	0	%100
35	FF-H2	Z	-.007	-.007	0	%100
36	FF-H3	Z	0	0	0	%100
37	GSC-1	Z	-.006	-.006	0	%100
38	GSC-2	Z	-.003	-.003	0	%100
39	GSC-3	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
40	GSI-1	Z	-.007	-.007	0	%100
41	GSI-2	Z	-.007	-.007	0	%100
42	GSI-3	Z	0	0	0	%100
43	HRC-1	Z	0	0	0	%100
44	HRC-2	Z	-.007	-.007	0	%100
45	HRC-3	Z	-.007	-.007	0	%100
46	K-1	Z	-.004	-.004	0	%100
47	K-2	Z	-.004	-.004	0	%100
48	K-3	Z	-.004	-.004	0	%100
49	MP-1	Z	-.004	-.004	0	%100
50	MP-2	Z	-.004	-.004	0	%100
51	MP-3	Z	-.004	-.004	0	%100
52	MP-4	Z	-.004	-.004	0	%100
53	MP-5	Z	-.004	-.004	0	%100
54	MP-6	Z	-.004	-.004	0	%100
55	MP-7	Z	-.004	-.004	0	%100
56	MP-8	Z	-.004	-.004	0	%100
57	MP-9	Z	-.004	-.004	0	%100
58	MP-10	Z	-.004	-.004	0	%100
59	MP-11	Z	-.004	-.004	0	%100
60	MP-12	Z	-.004	-.004	0	%100
61	SF-H1	Z	-.004	-.004	0	%100
62	SF-H2	Z	-.004	-.004	0	%100
63	SF-H3	Z	-.007	-.007	0	%100
64	HR-1	Z	-.003	-.003	0	%100
65	HR-2	Z	-.003	-.003	0	%100
66	HR-3	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.017	.017	0	%100
2	FF-H2	X	.008	.008	0	%100
3	FF-H3	X	.008	.008	0	%100
4	GSC-1	X	.011	.011	0	%100
5	GSC-2	X	0	0	0	%100
6	GSC-3	X	.011	.011	0	%100
7	GSI-1	X	.017	.017	0	%100
8	GSI-2	X	.007	.007	0	%100
9	GSI-3	X	.007	.007	0	%100
10	HRC-1	X	.008	.008	0	%100
11	HRC-2	X	.017	.017	0	%100
12	HRC-3	X	.008	.008	0	%100
13	K-1	X	.008	.008	0	%100
14	K-2	X	.008	.008	0	%100
15	K-3	X	.008	.008	0	%100
16	MP-1	X	.008	.008	0	%100
17	MP-2	X	.008	.008	0	%100
18	MP-3	X	.008	.008	0	%100
19	MP-4	X	.008	.008	0	%100
20	MP-5	X	.008	.008	0	%100
21	MP-6	X	.008	.008	0	%100
22	MP-7	X	.008	.008	0	%100
23	MP-8	X	.008	.008	0	%100
24	MP-9	X	.008	.008	0	%100
25	MP-10	X	.008	.008	0	%100
26	MP-11	X	.008	.008	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Distributed Loads (BLC 10 : 180 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
27	MP-12	X	.008	.008	0	%100
28	SF-H1	X	0	0	0	%100
29	SF-H2	X	.014	.014	0	%100
30	SF-H3	X	.014	.014	0	%100
31	HR-1	X	.008	.008	0	%100
32	HR-2	X	.004	.004	0	%100
33	HR-3	X	.004	.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.013	.013	0	%100
2	FF-H2	X	0	0	0	%100
3	FF-H3	X	.013	.013	0	%100
4	GSC-1	X	.006	.006	0	%100
5	GSC-2	X	.004	.004	0	%100
6	GSC-3	X	.011	.011	0	%100
7	GSI-1	X	.013	.013	0	%100
8	GSI-2	X	0	0	0	%100
9	GSI-3	X	.011	.011	0	%100
10	HRC-1	X	.011	.011	0	%100
11	HRC-2	X	.013	.013	0	%100
12	HRC-3	X	0	0	0	%100
13	K-1	X	.007	.007	0	%100
14	K-2	X	.007	.007	0	%100
15	K-3	X	.007	.007	0	%100
16	MP-1	X	.007	.007	0	%100
17	MP-2	X	.007	.007	0	%100
18	MP-3	X	.007	.007	0	%100
19	MP-4	X	.007	.007	0	%100
20	MP-5	X	.007	.007	0	%100
21	MP-6	X	.007	.007	0	%100
22	MP-7	X	.007	.007	0	%100
23	MP-8	X	.007	.007	0	%100
24	MP-9	X	.007	.007	0	%100
25	MP-10	X	.007	.007	0	%100
26	MP-11	X	.007	.007	0	%100
27	MP-12	X	.007	.007	0	%100
28	SF-H1	X	.006	.006	0	%100
29	SF-H2	X	.014	.014	0	%100
30	SF-H3	X	.007	.007	0	%100
31	HR-1	X	.006	.006	0	%100
32	HR-2	X	0	0	0	%100
33	HR-3	X	.006	.006	0	%100
34	FF-H1	Z	.007	.007	0	%100
35	FF-H2	Z	0	0	0	%100
36	FF-H3	Z	.007	.007	0	%100
37	GSC-1	Z	.003	.003	0	%100
38	GSC-2	Z	.003	.003	0	%100
39	GSC-3	Z	.006	.006	0	%100
40	GSI-1	Z	.007	.007	0	%100
41	GSI-2	Z	0	0	0	%100
42	GSI-3	Z	.007	.007	0	%100
43	HRC-1	Z	.007	.007	0	%100
44	HRC-2	Z	.007	.007	0	%100
45	HRC-3	Z	0	0	0	%100
46	K-1	Z	.004	.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
47	K-2	Z	.004	.004	0	%100
48	K-3	Z	.004	.004	0	%100
49	MP-1	Z	.004	.004	0	%100
50	MP-2	Z	.004	.004	0	%100
51	MP-3	Z	.004	.004	0	%100
52	MP-4	Z	.004	.004	0	%100
53	MP-5	Z	.004	.004	0	%100
54	MP-6	Z	.004	.004	0	%100
55	MP-7	Z	.004	.004	0	%100
56	MP-8	Z	.004	.004	0	%100
57	MP-9	Z	.004	.004	0	%100
58	MP-10	Z	.004	.004	0	%100
59	MP-11	Z	.004	.004	0	%100
60	MP-12	Z	.004	.004	0	%100
61	SF-H1	Z	.004	.004	0	%100
62	SF-H2	Z	.007	.007	0	%100
63	SF-H3	Z	.004	.004	0	%100
64	HR-1	Z	.003	.003	0	%100
65	HR-2	Z	0	0	0	%100
66	HR-3	Z	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.008	.008	0	%100
2	FF-H2	X	.003	.003	0	%100
3	FF-H3	X	.012	.012	0	%100
4	GSC-1	X	.002	.002	0	%100
5	GSC-2	X	.005	.005	0	%100
6	GSC-3	X	.009	.009	0	%100
7	GSI-1	X	.008	.008	0	%100
8	GSI-2	X	.003	.003	0	%100
9	GSI-3	X	.01	.01	0	%100
10	HRC-1	X	.01	.01	0	%100
11	HRC-2	X	.009	.009	0	%100
12	HRC-3	X	.003	.003	0	%100
13	K-1	X	.006	.006	0	%100
14	K-2	X	.006	.006	0	%100
15	K-3	X	.006	.006	0	%100
16	MP-1	X	.006	.006	0	%100
17	MP-2	X	.006	.006	0	%100
18	MP-3	X	.006	.006	0	%100
19	MP-4	X	.006	.006	0	%100
20	MP-5	X	.006	.006	0	%100
21	MP-6	X	.006	.006	0	%100
22	MP-7	X	.006	.006	0	%100
23	MP-8	X	.006	.006	0	%100
24	MP-9	X	.006	.006	0	%100
25	MP-10	X	.006	.006	0	%100
26	MP-11	X	.006	.006	0	%100
27	MP-12	X	.006	.006	0	%100
28	SF-H1	X	.007	.007	0	%100
29	SF-H2	X	.011	.011	0	%100
30	SF-H3	X	.003	.003	0	%100
31	HR-1	X	.004	.004	0	%100
32	HR-2	X	.001	.001	0	%100
33	HR-3	X	.005	.005	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
34	FF-H1	Z	.008	.008	0	%100
35	FF-H2	Z	.003	.003	0	%100
36	FF-H3	Z	.012	.012	0	%100
37	GSC-1	Z	.002	.002	0	%100
38	GSC-2	Z	.007	.007	0	%100
39	GSC-3	Z	.008	.008	0	%100
40	GSI-1	Z	.008	.008	0	%100
41	GSI-2	Z	.003	.003	0	%100
42	GSI-3	Z	.012	.012	0	%100
43	HRC-1	Z	.011	.011	0	%100
44	HRC-2	Z	.009	.009	0	%100
45	HRC-3	Z	.003	.003	0	%100
46	K-1	Z	.006	.006	0	%100
47	K-2	Z	.006	.006	0	%100
48	K-3	Z	.006	.006	0	%100
49	MP-1	Z	.006	.006	0	%100
50	MP-2	Z	.006	.006	0	%100
51	MP-3	Z	.006	.006	0	%100
52	MP-4	Z	.006	.006	0	%100
53	MP-5	Z	.006	.006	0	%100
54	MP-6	Z	.006	.006	0	%100
55	MP-7	Z	.006	.006	0	%100
56	MP-8	Z	.006	.006	0	%100
57	MP-9	Z	.006	.006	0	%100
58	MP-10	Z	.006	.006	0	%100
59	MP-11	Z	.006	.006	0	%100
60	MP-12	Z	.006	.006	0	%100
61	SF-H1	Z	.008	.008	0	%100
62	SF-H2	Z	.01	.01	0	%100
63	SF-H3	Z	.003	.003	0	%100
64	HR-1	Z	.004	.004	0	%100
65	HR-2	Z	.001	.001	0	%100
66	HR-3	Z	.005	.005	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.004	.004	0	%100
2	FF-H2	X	.004	.004	0	%100
3	FF-H3	X	.008	.008	0	%100
4	GSC-1	X	0	0	0	%100
5	GSC-2	X	.004	.004	0	%100
6	GSC-3	X	.006	.006	0	%100
7	GSI-1	X	.004	.004	0	%100
8	GSI-2	X	.004	.004	0	%100
9	GSI-3	X	.007	.007	0	%100
10	HRC-1	X	.008	.008	0	%100
11	HRC-2	X	.004	.004	0	%100
12	HRC-3	X	.004	.004	0	%100
13	K-1	X	.004	.004	0	%100
14	K-2	X	.004	.004	0	%100
15	K-3	X	.004	.004	0	%100
16	MP-1	X	.004	.004	0	%100
17	MP-2	X	.004	.004	0	%100
18	MP-3	X	.004	.004	0	%100
19	MP-4	X	.004	.004	0	%100
20	MP-5	X	.004	.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
21	MP-6	X	.004	.004	0	%100
22	MP-7	X	.004	.004	0	%100
23	MP-8	X	.004	.004	0	%100
24	MP-9	X	.004	.004	0	%100
25	MP-10	X	.004	.004	0	%100
26	MP-11	X	.004	.004	0	%100
27	MP-12	X	.004	.004	0	%100
28	SF-H1	X	.006	.006	0	%100
29	SF-H2	X	.007	.007	0	%100
30	SF-H3	X	0	0	0	%100
31	HR-1	X	.002	.002	0	%100
32	HR-2	X	.002	.002	0	%100
33	HR-3	X	.004	.004	0	%100
34	FF-H1	Z	.007	.007	0	%100
35	FF-H2	Z	.007	.007	0	%100
36	FF-H3	Z	.015	.015	0	%100
37	GSC-1	Z	0	0	0	%100
38	GSC-2	Z	.01	.01	0	%100
39	GSC-3	Z	.009	.009	0	%100
40	GSI-1	Z	.007	.007	0	%100
41	GSI-2	Z	.007	.007	0	%100
42	GSI-3	Z	.015	.015	0	%100
43	HRC-1	Z	.014	.014	0	%100
44	HRC-2	Z	.007	.007	0	%100
45	HRC-3	Z	.007	.007	0	%100
46	K-1	Z	.007	.007	0	%100
47	K-2	Z	.007	.007	0	%100
48	K-3	Z	.007	.007	0	%100
49	MP-1	Z	.007	.007	0	%100
50	MP-2	Z	.007	.007	0	%100
51	MP-3	Z	.007	.007	0	%100
52	MP-4	Z	.007	.007	0	%100
53	MP-5	Z	.007	.007	0	%100
54	MP-6	Z	.007	.007	0	%100
55	MP-7	Z	.007	.007	0	%100
56	MP-8	Z	.007	.007	0	%100
57	MP-9	Z	.007	.007	0	%100
58	MP-10	Z	.007	.007	0	%100
59	MP-11	Z	.007	.007	0	%100
60	MP-12	Z	.007	.007	0	%100
61	SF-H1	Z	.012	.012	0	%100
62	SF-H2	Z	.011	.011	0	%100
63	SF-H3	Z	0	0	0	%100
64	HR-1	Z	.003	.003	0	%100
65	HR-2	Z	.003	.003	0	%100
66	HR-3	Z	.007	.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Z	0	0	0	%100
2	FF-H2	Z	.015	.015	0	%100
3	FF-H3	Z	.015	.015	0	%100
4	GSC-1	Z	.006	.006	0	%100
5	GSC-2	Z	.013	.013	0	%100
6	GSC-3	Z	.006	.006	0	%100
7	GSI-1	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
8	GSI-2	Z	.015	.015	0	%100
9	GSI-3	Z	.015	.015	0	%100
10	HRC-1	Z	.014	.014	0	%100
11	HRC-2	Z	0	0	0	%100
12	HRC-3	Z	.014	.014	0	%100
13	K-1	Z	.008	.008	0	%100
14	K-2	Z	.008	.008	0	%100
15	K-3	Z	.008	.008	0	%100
16	MP-1	Z	.008	.008	0	%100
17	MP-2	Z	.008	.008	0	%100
18	MP-3	Z	.008	.008	0	%100
19	MP-4	Z	.008	.008	0	%100
20	MP-5	Z	.008	.008	0	%100
21	MP-6	Z	.008	.008	0	%100
22	MP-7	Z	.008	.008	0	%100
23	MP-8	Z	.008	.008	0	%100
24	MP-9	Z	.008	.008	0	%100
25	MP-10	Z	.008	.008	0	%100
26	MP-11	Z	.008	.008	0	%100
27	MP-12	Z	.008	.008	0	%100
28	SF-H1	Z	.016	.016	0	%100
29	SF-H2	Z	.007	.007	0	%100
30	SF-H3	Z	.007	.007	0	%100
31	HR-1	Z	0	0	0	%100
32	HR-2	Z	.007	.007	0	%100
33	HR-3	Z	.007	.007	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.004	-.004	0	%100
2	FF-H2	X	-.008	-.008	0	%100
3	FF-H3	X	-.004	-.004	0	%100
4	GSC-1	X	-.006	-.006	0	%100
5	GSC-2	X	-.004	-.004	0	%100
6	GSC-3	X	0	0	0	%100
7	GSI-1	X	-.004	-.004	0	%100
8	GSI-2	X	-.007	-.007	0	%100
9	GSI-3	X	-.004	-.004	0	%100
10	HRC-1	X	-.004	-.004	0	%100
11	HRC-2	X	-.004	-.004	0	%100
12	HRC-3	X	-.008	-.008	0	%100
13	K-1	X	-.004	-.004	0	%100
14	K-2	X	-.004	-.004	0	%100
15	K-3	X	-.004	-.004	0	%100
16	MP-1	X	-.004	-.004	0	%100
17	MP-2	X	-.004	-.004	0	%100
18	MP-3	X	-.004	-.004	0	%100
19	MP-4	X	-.004	-.004	0	%100
20	MP-5	X	-.004	-.004	0	%100
21	MP-6	X	-.004	-.004	0	%100
22	MP-7	X	-.004	-.004	0	%100
23	MP-8	X	-.004	-.004	0	%100
24	MP-9	X	-.004	-.004	0	%100
25	MP-10	X	-.004	-.004	0	%100
26	MP-11	X	-.004	-.004	0	%100
27	MP-12	X	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
28	SF-H1	X	-.006	-.006	0	%100
29	SF-H2	X	0	0	0	%100
30	SF-H3	X	-.007	-.007	0	%100
31	HR-1	X	-.002	-.002	0	%100
32	HR-2	X	-.004	-.004	0	%100
33	HR-3	X	-.002	-.002	0	%100
34	FF-H1	Z	.007	.007	0	%100
35	FF-H2	Z	.015	.015	0	%100
36	FF-H3	Z	.007	.007	0	%100
37	GSC-1	Z	.009	.009	0	%100
38	GSC-2	Z	.01	.01	0	%100
39	GSC-3	Z	0	0	0	%100
40	GSI-1	Z	.007	.007	0	%100
41	GSI-2	Z	.015	.015	0	%100
42	GSI-3	Z	.007	.007	0	%100
43	HRC-1	Z	.007	.007	0	%100
44	HRC-2	Z	.007	.007	0	%100
45	HRC-3	Z	.014	.014	0	%100
46	K-1	Z	.007	.007	0	%100
47	K-2	Z	.007	.007	0	%100
48	K-3	Z	.007	.007	0	%100
49	MP-1	Z	.007	.007	0	%100
50	MP-2	Z	.007	.007	0	%100
51	MP-3	Z	.007	.007	0	%100
52	MP-4	Z	.007	.007	0	%100
53	MP-5	Z	.007	.007	0	%100
54	MP-6	Z	.007	.007	0	%100
55	MP-7	Z	.007	.007	0	%100
56	MP-8	Z	.007	.007	0	%100
57	MP-9	Z	.007	.007	0	%100
58	MP-10	Z	.007	.007	0	%100
59	MP-11	Z	.007	.007	0	%100
60	MP-12	Z	.007	.007	0	%100
61	SF-H1	Z	.012	.012	0	%100
62	SF-H2	Z	0	0	0	%100
63	SF-H3	Z	.011	.011	0	%100
64	HR-1	Z	.003	.003	0	%100
65	HR-2	Z	.007	.007	0	%100
66	HR-3	Z	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.008	-.008	0	%100
2	FF-H2	X	-.012	-.012	0	%100
3	FF-H3	X	-.003	-.003	0	%100
4	GSC-1	X	-.009	-.009	0	%100
5	GSC-2	X	-.005	-.005	0	%100
6	GSC-3	X	-.002	-.002	0	%100
7	GSI-1	X	-.008	-.008	0	%100
8	GSI-2	X	-.01	-.01	0	%100
9	GSI-3	X	-.003	-.003	0	%100
10	HRC-1	X	-.003	-.003	0	%100
11	HRC-2	X	-.009	-.009	0	%100
12	HRC-3	X	-.01	-.01	0	%100
13	K-1	X	-.006	-.006	0	%100
14	K-2	X	-.006	-.006	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
15	K-3	X	-.006	-.006	0	%100
16	MP-1	X	-.006	-.006	0	%100
17	MP-2	X	-.006	-.006	0	%100
18	MP-3	X	-.006	-.006	0	%100
19	MP-4	X	-.006	-.006	0	%100
20	MP-5	X	-.006	-.006	0	%100
21	MP-6	X	-.006	-.006	0	%100
22	MP-7	X	-.006	-.006	0	%100
23	MP-8	X	-.006	-.006	0	%100
24	MP-9	X	-.006	-.006	0	%100
25	MP-10	X	-.006	-.006	0	%100
26	MP-11	X	-.006	-.006	0	%100
27	MP-12	X	-.006	-.006	0	%100
28	SF-H1	X	-.007	-.007	0	%100
29	SF-H2	X	-.003	-.003	0	%100
30	SF-H3	X	-.011	-.011	0	%100
31	HR-1	X	-.004	-.004	0	%100
32	HR-2	X	-.005	-.005	0	%100
33	HR-3	X	-.001	-.001	0	%100
34	FF-H1	Z	.008	.008	0	%100
35	FF-H2	Z	.012	.012	0	%100
36	FF-H3	Z	.003	.003	0	%100
37	GSC-1	Z	.008	.008	0	%100
38	GSC-2	Z	.007	.007	0	%100
39	GSC-3	Z	.002	.002	0	%100
40	GSI-1	Z	.008	.008	0	%100
41	GSI-2	Z	.012	.012	0	%100
42	GSI-3	Z	.003	.003	0	%100
43	HRC-1	Z	.003	.003	0	%100
44	HRC-2	Z	.009	.009	0	%100
45	HRC-3	Z	.011	.011	0	%100
46	K-1	Z	.006	.006	0	%100
47	K-2	Z	.006	.006	0	%100
48	K-3	Z	.006	.006	0	%100
49	MP-1	Z	.006	.006	0	%100
50	MP-2	Z	.006	.006	0	%100
51	MP-3	Z	.006	.006	0	%100
52	MP-4	Z	.006	.006	0	%100
53	MP-5	Z	.006	.006	0	%100
54	MP-6	Z	.006	.006	0	%100
55	MP-7	Z	.006	.006	0	%100
56	MP-8	Z	.006	.006	0	%100
57	MP-9	Z	.006	.006	0	%100
58	MP-10	Z	.006	.006	0	%100
59	MP-11	Z	.006	.006	0	%100
60	MP-12	Z	.006	.006	0	%100
61	SF-H1	Z	.008	.008	0	%100
62	SF-H2	Z	.003	.003	0	%100
63	SF-H3	Z	.01	.01	0	%100
64	HR-1	Z	.004	.004	0	%100
65	HR-2	Z	.005	.005	0	%100
66	HR-3	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.013	-.013	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
2	FF-H2	X	-.013	-.013	0	%100
3	FF-H3	X	0	0	0	%100
4	GSC-1	X	-.011	-.011	0	%100
5	GSC-2	X	-.004	-.004	0	%100
6	GSC-3	X	-.006	-.006	0	%100
7	GSI-1	X	-.013	-.013	0	%100
8	GSI-2	X	-.011	-.011	0	%100
9	GSI-3	X	0	0	0	%100
10	HRC-1	X	0	0	0	%100
11	HRC-2	X	-.013	-.013	0	%100
12	HRC-3	X	-.011	-.011	0	%100
13	K-1	X	-.007	-.007	0	%100
14	K-2	X	-.007	-.007	0	%100
15	K-3	X	-.007	-.007	0	%100
16	MP-1	X	-.007	-.007	0	%100
17	MP-2	X	-.007	-.007	0	%100
18	MP-3	X	-.007	-.007	0	%100
19	MP-4	X	-.007	-.007	0	%100
20	MP-5	X	-.007	-.007	0	%100
21	MP-6	X	-.007	-.007	0	%100
22	MP-7	X	-.007	-.007	0	%100
23	MP-8	X	-.007	-.007	0	%100
24	MP-9	X	-.007	-.007	0	%100
25	MP-10	X	-.007	-.007	0	%100
26	MP-11	X	-.007	-.007	0	%100
27	MP-12	X	-.007	-.007	0	%100
28	SF-H1	X	-.006	-.006	0	%100
29	SF-H2	X	-.007	-.007	0	%100
30	SF-H3	X	-.014	-.014	0	%100
31	HR-1	X	-.006	-.006	0	%100
32	HR-2	X	-.006	-.006	0	%100
33	HR-3	X	0	0	0	%100
34	FF-H1	Z	.007	.007	0	%100
35	FF-H2	Z	.007	.007	0	%100
36	FF-H3	Z	0	0	0	%100
37	GSC-1	Z	.006	.006	0	%100
38	GSC-2	Z	.003	.003	0	%100
39	GSC-3	Z	.003	.003	0	%100
40	GSI-1	Z	.007	.007	0	%100
41	GSI-2	Z	.007	.007	0	%100
42	GSI-3	Z	0	0	0	%100
43	HRC-1	Z	0	0	0	%100
44	HRC-2	Z	.007	.007	0	%100
45	HRC-3	Z	.007	.007	0	%100
46	K-1	Z	.004	.004	0	%100
47	K-2	Z	.004	.004	0	%100
48	K-3	Z	.004	.004	0	%100
49	MP-1	Z	.004	.004	0	%100
50	MP-2	Z	.004	.004	0	%100
51	MP-3	Z	.004	.004	0	%100
52	MP-4	Z	.004	.004	0	%100
53	MP-5	Z	.004	.004	0	%100
54	MP-6	Z	.004	.004	0	%100
55	MP-7	Z	.004	.004	0	%100
56	MP-8	Z	.004	.004	0	%100
57	MP-9	Z	.004	.004	0	%100
58	MP-10	Z	.004	.004	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Distributed Loads (BLC 17 : 330 Wind - No Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
59	MP-11	Z	.004	.004	0	%100
60	MP-12	Z	.004	.004	0	%100
61	SF-H1	Z	.004	.004	0	%100
62	SF-H2	Z	.004	.004	0	%100
63	SF-H3	Z	.007	.007	0	%100
64	HR-1	Z	.003	.003	0	%100
65	HR-2	Z	.003	.003	0	%100
66	HR-3	Z	0	0	0	%100

Member Distributed Loads (BLC 18 : Ice Weight)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Y	-.006	-.006	0	%100
2	FF-H2	Y	-.006	-.006	0	%100
3	FF-H3	Y	-.006	-.006	0	%100
4	GSC-1	Y	-.009	-.009	0	%100
5	GSC-2	Y	-.009	-.009	0	%100
6	GSC-3	Y	-.009	-.009	0	%100
7	GSI-1	Y	-.006	-.006	0	%100
8	GSI-2	Y	-.006	-.006	0	%100
9	GSI-3	Y	-.006	-.006	0	%100
10	HRC-1	Y	-.011	-.011	0	%100
11	HRC-2	Y	-.011	-.011	0	%100
12	HRC-3	Y	-.011	-.011	0	%100
13	K-1	Y	-.005	-.005	0	%100
14	K-2	Y	-.005	-.005	0	%100
15	K-3	Y	-.005	-.005	0	%100
16	MP-1	Y	-.005	-.005	0	%100
17	MP-2	Y	-.005	-.005	0	%100
18	MP-3	Y	-.005	-.005	0	%100
19	MP-4	Y	-.005	-.005	0	%100
20	MP-5	Y	-.005	-.005	0	%100
21	MP-6	Y	-.005	-.005	0	%100
22	MP-7	Y	-.005	-.005	0	%100
23	MP-8	Y	-.005	-.005	0	%100
24	MP-9	Y	-.005	-.005	0	%100
25	MP-10	Y	-.005	-.005	0	%100
26	MP-11	Y	-.005	-.005	0	%100
27	MP-12	Y	-.005	-.005	0	%100
28	SF-H1	Y	-.008	-.008	0	%100
29	SF-H2	Y	-.008	-.008	0	%100
30	SF-H3	Y	-.008	-.008	0	%100
31	HR-1	Y	-.005	-.005	0	%100
32	HR-2	Y	-.005	-.005	0	%100
33	HR-3	Y	-.005	-.005	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.005	-.005	0	%100
2	FF-H2	X	-.005	-.005	0	%100
3	FF-H3	X	-.005	-.005	0	%100
4	GSC-1	X	-.004	-.004	0	%100
5	GSC-2	X	-.003	-.003	0	%100
6	GSC-3	X	-.004	-.004	0	%100
7	GSI-1	X	-.005	-.005	0	%100
8	GSI-2	X	-.004	-.004	0	%100
9	GSI-3	X	-.004	-.004	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
10	HRC-1	X	-.004	-.004	0	%100
11	HRC-2	X	-.005	-.005	0	%100
12	HRC-3	X	-.004	-.004	0	%100
13	K-1	X	-.002	-.002	0	%100
14	K-2	X	-.002	-.002	0	%100
15	K-3	X	-.002	-.002	0	%100
16	MP-1	X	-.002	-.002	0	%100
17	MP-2	X	-.003	-.003	0	%100
18	MP-3	X	-.003	-.003	0	%100
19	MP-4	X	-.003	-.003	0	%100
20	MP-5	X	-.002	-.002	0	%100
21	MP-6	X	-.003	-.003	0	%100
22	MP-7	X	-.003	-.003	0	%100
23	MP-8	X	-.003	-.003	0	%100
24	MP-9	X	-.002	-.002	0	%100
25	MP-10	X	-.003	-.003	0	%100
26	MP-11	X	-.003	-.003	0	%100
27	MP-12	X	-.003	-.003	0	%100
28	SF-H1	X	-.004	-.004	0	%100
29	SF-H2	X	-.004	-.004	0	%100
30	SF-H3	X	-.004	-.004	0	%100
31	HR-1	X	-.003	-.003	0	%100
32	HR-2	X	-.002	-.002	0	%100
33	HR-3	X	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.004	-.004	0	%100
2	FF-H2	X	0	0	0	%100
3	FF-H3	X	-.003	-.003	0	%100
4	GSC-1	X	-.002	-.002	0	%100
5	GSC-2	X	-.001	-.001	0	%100
6	GSC-3	X	-.003	-.003	0	%100
7	GSI-1	X	-.004	-.004	0	%100
8	GSI-2	X	0	0	0	%100
9	GSI-3	X	-.003	-.003	0	%100
10	HRC-1	X	-.003	-.003	0	%100
11	HRC-2	X	-.004	-.004	0	%100
12	HRC-3	X	0	0	0	%100
13	K-1	X	-.002	-.002	0	%100
14	K-2	X	-.002	-.002	0	%100
15	K-3	X	-.002	-.002	0	%100
16	MP-1	X	-.002	-.002	0	%100
17	MP-2	X	-.002	-.002	0	%100
18	MP-3	X	-.002	-.002	0	%100
19	MP-4	X	-.002	-.002	0	%100
20	MP-5	X	-.002	-.002	0	%100
21	MP-6	X	-.002	-.002	0	%100
22	MP-7	X	-.002	-.002	0	%100
23	MP-8	X	-.002	-.002	0	%100
24	MP-9	X	-.002	-.002	0	%100
25	MP-10	X	-.002	-.002	0	%100
26	MP-11	X	-.002	-.002	0	%100
27	MP-12	X	-.002	-.002	0	%100
28	SF-H1	X	-.002	-.002	0	%100
29	SF-H2	X	-.004	-.004	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Distributed Loads (BLC 20 : 30 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
30	SF-H3	X	-.002	-.002	0	%100
31	HR-1	X	-.002	-.002	0	%100
32	HR-2	X	0	0	0	%100
33	HR-3	X	-.002	-.002	0	%100
34	FF-H1	Z	-.002	-.002	0	%100
35	FF-H2	Z	0	0	0	%100
36	FF-H3	Z	-.002	-.002	0	%100
37	GSC-1	Z	-.000902	-.000902	0	%100
38	GSC-2	Z	-.001	-.001	0	%100
39	GSC-3	Z	-.002	-.002	0	%100
40	GSI-1	Z	-.002	-.002	0	%100
41	GSI-2	Z	0	0	0	%100
42	GSI-3	Z	-.002	-.002	0	%100
43	HRC-1	Z	-.002	-.002	0	%100
44	HRC-2	Z	-.002	-.002	0	%100
45	HRC-3	Z	0	0	0	%100
46	K-1	Z	-.001	-.001	0	%100
47	K-2	Z	-.001	-.001	0	%100
48	K-3	Z	-.001	-.001	0	%100
49	MP-1	Z	-.001	-.001	0	%100
50	MP-2	Z	-.001	-.001	0	%100
51	MP-3	Z	-.001	-.001	0	%100
52	MP-4	Z	-.001	-.001	0	%100
53	MP-5	Z	-.001	-.001	0	%100
54	MP-6	Z	-.001	-.001	0	%100
55	MP-7	Z	-.001	-.001	0	%100
56	MP-8	Z	-.001	-.001	0	%100
57	MP-9	Z	-.001	-.001	0	%100
58	MP-10	Z	-.001	-.001	0	%100
59	MP-11	Z	-.001	-.001	0	%100
60	MP-12	Z	-.001	-.001	0	%100
61	SF-H1	Z	-.001	-.001	0	%100
62	SF-H2	Z	-.002	-.002	0	%100
63	SF-H3	Z	-.001	-.001	0	%100
64	HR-1	Z	-.001	-.001	0	%100
65	HR-2	Z	0	0	0	%100
66	HR-3	Z	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.003	-.003	0	%100
2	FF-H2	X	-.000852	-.000852	0	%100
3	FF-H3	X	-.003	-.003	0	%100
4	GSC-1	X	-.000718	-.000718	0	%100
5	GSC-2	X	-.002	-.002	0	%100
6	GSC-3	X	-.003	-.003	0	%100
7	GSI-1	X	-.003	-.003	0	%100
8	GSI-2	X	-.000761	-.000761	0	%100
9	GSI-3	X	-.003	-.003	0	%100
10	HRC-1	X	-.003	-.003	0	%100
11	HRC-2	X	-.002	-.002	0	%100
12	HRC-3	X	-.000818	-.000818	0	%100
13	K-1	X	-.002	-.002	0	%100
14	K-2	X	-.002	-.002	0	%100
15	K-3	X	-.002	-.002	0	%100
16	MP-1	X	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
17	MP-2	X	-.002	-.002	0	%100
18	MP-3	X	-.002	-.002	0	%100
19	MP-4	X	-.002	-.002	0	%100
20	MP-5	X	-.002	-.002	0	%100
21	MP-6	X	-.002	-.002	0	%100
22	MP-7	X	-.002	-.002	0	%100
23	MP-8	X	-.002	-.002	0	%100
24	MP-9	X	-.002	-.002	0	%100
25	MP-10	X	-.002	-.002	0	%100
26	MP-11	X	-.002	-.002	0	%100
27	MP-12	X	-.002	-.002	0	%100
28	SF-H1	X	-.002	-.002	0	%100
29	SF-H2	X	-.003	-.003	0	%100
30	SF-H3	X	-.000823	-.000823	0	%100
31	HR-1	X	-.001	-.001	0	%100
32	HR-2	X	-.000446	-.000446	0	%100
33	HR-3	X	-.002	-.002	0	%100
34	FF-H1	Z	-.002	-.002	0	%100
35	FF-H2	Z	-.001	-.001	0	%100
36	FF-H3	Z	-.004	-.004	0	%100
37	GSC-1	Z	-.00066	-.00066	0	%100
38	GSC-2	Z	-.002	-.002	0	%100
39	GSC-3	Z	-.002	-.002	0	%100
40	GSI-1	Z	-.002	-.002	0	%100
41	GSI-2	Z	-.000883	-.000883	0	%100
42	GSI-3	Z	-.003	-.003	0	%100
43	HRC-1	Z	-.003	-.003	0	%100
44	HRC-2	Z	-.002	-.002	0	%100
45	HRC-3	Z	-.000857	-.000857	0	%100
46	K-1	Z	-.002	-.002	0	%100
47	K-2	Z	-.002	-.002	0	%100
48	K-3	Z	-.002	-.002	0	%100
49	MP-1	Z	-.002	-.002	0	%100
50	MP-2	Z	-.002	-.002	0	%100
51	MP-3	Z	-.002	-.002	0	%100
52	MP-4	Z	-.002	-.002	0	%100
53	MP-5	Z	-.002	-.002	0	%100
54	MP-6	Z	-.002	-.002	0	%100
55	MP-7	Z	-.002	-.002	0	%100
56	MP-8	Z	-.002	-.002	0	%100
57	MP-9	Z	-.002	-.002	0	%100
58	MP-10	Z	-.002	-.002	0	%100
59	MP-11	Z	-.002	-.002	0	%100
60	MP-12	Z	-.002	-.002	0	%100
61	SF-H1	Z	-.002	-.002	0	%100
62	SF-H2	Z	-.003	-.003	0	%100
63	SF-H3	Z	-.000767	-.000767	0	%100
64	HR-1	Z	-.001	-.001	0	%100
65	HR-2	Z	-.00053	-.00053	0	%100
66	HR-3	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.001	-.001	0	%100
2	FF-H2	X	-.001	-.001	0	%100
3	FF-H3	X	-.002	-.002	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
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Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
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Member Distributed Loads (BLC 22 : 60 Wind - Ice) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
4	GSC-1	X	0	0	0	%100
5	GSC-2	X	-.001	-.001	0	%100
6	GSC-3	X	-.002	-.002	0	%100
7	GSI-1	X	-.001	-.001	0	%100
8	GSI-2	X	-.001	-.001	0	%100
9	GSI-3	X	-.002	-.002	0	%100
10	HRC-1	X	-.002	-.002	0	%100
11	HRC-2	X	-.001	-.001	0	%100
12	HRC-3	X	-.001	-.001	0	%100
13	K-1	X	-.001	-.001	0	%100
14	K-2	X	-.001	-.001	0	%100
15	K-3	X	-.001	-.001	0	%100
16	MP-1	X	-.001	-.001	0	%100
17	MP-2	X	-.001	-.001	0	%100
18	MP-3	X	-.001	-.001	0	%100
19	MP-4	X	-.001	-.001	0	%100
20	MP-5	X	-.001	-.001	0	%100
21	MP-6	X	-.001	-.001	0	%100
22	MP-7	X	-.001	-.001	0	%100
23	MP-8	X	-.001	-.001	0	%100
24	MP-9	X	-.001	-.001	0	%100
25	MP-10	X	-.001	-.001	0	%100
26	MP-11	X	-.001	-.001	0	%100
27	MP-12	X	-.001	-.001	0	%100
28	SF-H1	X	-.002	-.002	0	%100
29	SF-H2	X	-.002	-.002	0	%100
30	SF-H3	X	0	0	0	%100
31	HR-1	X	-.000725	-.000725	0	%100
32	HR-2	X	-.000609	-.000609	0	%100
33	HR-3	X	-.001	-.001	0	%100
34	FF-H1	Z	-.002	-.002	0	%100
35	FF-H2	Z	-.002	-.002	0	%100
36	FF-H3	Z	-.005	-.005	0	%100
37	GSC-1	Z	0	0	0	%100
38	GSC-2	Z	-.003	-.003	0	%100
39	GSC-3	Z	-.003	-.003	0	%100
40	GSI-1	Z	-.002	-.002	0	%100
41	GSI-2	Z	-.002	-.002	0	%100
42	GSI-3	Z	-.004	-.004	0	%100
43	HRC-1	Z	-.004	-.004	0	%100
44	HRC-2	Z	-.002	-.002	0	%100
45	HRC-3	Z	-.002	-.002	0	%100
46	K-1	Z	-.002	-.002	0	%100
47	K-2	Z	-.002	-.002	0	%100
48	K-3	Z	-.002	-.002	0	%100
49	MP-1	Z	-.002	-.002	0	%100
50	MP-2	Z	-.003	-.003	0	%100
51	MP-3	Z	-.002	-.002	0	%100
52	MP-4	Z	-.003	-.003	0	%100
53	MP-5	Z	-.002	-.002	0	%100
54	MP-6	Z	-.003	-.003	0	%100
55	MP-7	Z	-.002	-.002	0	%100
56	MP-8	Z	-.003	-.003	0	%100
57	MP-9	Z	-.002	-.002	0	%100
58	MP-10	Z	-.003	-.003	0	%100
59	MP-11	Z	-.002	-.002	0	%100
60	MP-12	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
61	SF-H1	Z	-.003	-.003	0	%100
62	SF-H2	Z	-.003	-.003	0	%100
63	SF-H3	Z	0	0	0	%100
64	HR-1	Z	-.001	-.001	0	%100
65	HR-2	Z	-.001	-.001	0	%100
66	HR-3	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Z	0	0	0	%100
2	FF-H2	Z	-.005	-.005	0	%100
3	FF-H3	Z	-.005	-.005	0	%100
4	GSC-1	Z	-.002	-.002	0	%100
5	GSC-2	Z	-.004	-.004	0	%100
6	GSC-3	Z	-.002	-.002	0	%100
7	GSI-1	Z	0	0	0	%100
8	GSI-2	Z	-.004	-.004	0	%100
9	GSI-3	Z	-.004	-.004	0	%100
10	HRC-1	Z	-.004	-.004	0	%100
11	HRC-2	Z	0	0	0	%100
12	HRC-3	Z	-.004	-.004	0	%100
13	K-1	Z	-.002	-.002	0	%100
14	K-2	Z	-.002	-.002	0	%100
15	K-3	Z	-.002	-.002	0	%100
16	MP-1	Z	-.003	-.003	0	%100
17	MP-2	Z	-.003	-.003	0	%100
18	MP-3	Z	-.003	-.003	0	%100
19	MP-4	Z	-.003	-.003	0	%100
20	MP-5	Z	-.003	-.003	0	%100
21	MP-6	Z	-.003	-.003	0	%100
22	MP-7	Z	-.003	-.003	0	%100
23	MP-8	Z	-.003	-.003	0	%100
24	MP-9	Z	-.003	-.003	0	%100
25	MP-10	Z	-.003	-.003	0	%100
26	MP-11	Z	-.003	-.003	0	%100
27	MP-12	Z	-.003	-.003	0	%100
28	SF-H1	Z	-.005	-.005	0	%100
29	SF-H2	Z	-.002	-.002	0	%100
30	SF-H3	Z	-.002	-.002	0	%100
31	HR-1	Z	0	0	0	%100
32	HR-2	Z	-.003	-.003	0	%100
33	HR-3	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.001	.001	0	%100
2	FF-H2	X	.002	.002	0	%100
3	FF-H3	X	.001	.001	0	%100
4	GSC-1	X	.002	.002	0	%100
5	GSC-2	X	.001	.001	0	%100
6	GSC-3	X	0	0	0	%100
7	GSI-1	X	.001	.001	0	%100
8	GSI-2	X	.002	.002	0	%100
9	GSI-3	X	.001	.001	0	%100
10	HRC-1	X	.001	.001	0	%100
11	HRC-2	X	.001	.001	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
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Checked By: PHX

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
12	HRC-3	X	.002	.002	0	%100
13	K-1	X	.001	.001	0	%100
14	K-2	X	.001	.001	0	%100
15	K-3	X	.001	.001	0	%100
16	MP-1	X	.001	.001	0	%100
17	MP-2	X	.001	.001	0	%100
18	MP-3	X	.001	.001	0	%100
19	MP-4	X	.001	.001	0	%100
20	MP-5	X	.001	.001	0	%100
21	MP-6	X	.001	.001	0	%100
22	MP-7	X	.001	.001	0	%100
23	MP-8	X	.001	.001	0	%100
24	MP-9	X	.001	.001	0	%100
25	MP-10	X	.001	.001	0	%100
26	MP-11	X	.001	.001	0	%100
27	MP-12	X	.001	.001	0	%100
28	SF-H1	X	.002	.002	0	%100
29	SF-H2	X	0	0	0	%100
30	SF-H3	X	.002	.002	0	%100
31	HR-1	X	.000725	.000725	0	%100
32	HR-2	X	.001	.001	0	%100
33	HR-3	X	.000609	.000609	0	%100
34	FF-H1	Z	-.002	-.002	0	%100
35	FF-H2	Z	-.005	-.005	0	%100
36	FF-H3	Z	-.002	-.002	0	%100
37	GSC-1	Z	-.003	-.003	0	%100
38	GSC-2	Z	-.003	-.003	0	%100
39	GSC-3	Z	0	0	0	%100
40	GSI-1	Z	-.002	-.002	0	%100
41	GSI-2	Z	-.004	-.004	0	%100
42	GSI-3	Z	-.002	-.002	0	%100
43	HRC-1	Z	-.002	-.002	0	%100
44	HRC-2	Z	-.002	-.002	0	%100
45	HRC-3	Z	-.004	-.004	0	%100
46	K-1	Z	-.002	-.002	0	%100
47	K-2	Z	-.002	-.002	0	%100
48	K-3	Z	-.002	-.002	0	%100
49	MP-1	Z	-.002	-.002	0	%100
50	MP-2	Z	-.003	-.003	0	%100
51	MP-3	Z	-.002	-.002	0	%100
52	MP-4	Z	-.003	-.003	0	%100
53	MP-5	Z	-.002	-.002	0	%100
54	MP-6	Z	-.003	-.003	0	%100
55	MP-7	Z	-.002	-.002	0	%100
56	MP-8	Z	-.003	-.003	0	%100
57	MP-9	Z	-.002	-.002	0	%100
58	MP-10	Z	-.003	-.003	0	%100
59	MP-11	Z	-.002	-.002	0	%100
60	MP-12	Z	-.003	-.003	0	%100
61	SF-H1	Z	-.003	-.003	0	%100
62	SF-H2	Z	0	0	0	%100
63	SF-H3	Z	-.003	-.003	0	%100
64	HR-1	Z	-.001	-.001	0	%100
65	HR-2	Z	-.003	-.003	0	%100
66	HR-3	Z	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.003	.003	0	%100
2	FF-H2	X	.003	.003	0	%100
3	FF-H3	X	.000852	.000852	0	%100
4	GSC-1	X	.003	.003	0	%100
5	GSC-2	X	.002	.002	0	%100
6	GSC-3	X	.000718	.000718	0	%100
7	GSI-1	X	.003	.003	0	%100
8	GSI-2	X	.003	.003	0	%100
9	GSI-3	X	.000761	.000761	0	%100
10	HRC-1	X	.000818	.000818	0	%100
11	HRC-2	X	.002	.002	0	%100
12	HRC-3	X	.003	.003	0	%100
13	K-1	X	.002	.002	0	%100
14	K-2	X	.002	.002	0	%100
15	K-3	X	.002	.002	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SF-H1	X	.002	.002	0	%100
29	SF-H2	X	.000823	.000823	0	%100
30	SF-H3	X	.003	.003	0	%100
31	HR-1	X	.001	.001	0	%100
32	HR-2	X	.002	.002	0	%100
33	HR-3	X	.000446	.000446	0	%100
34	FF-H1	Z	-.002	-.002	0	%100
35	FF-H2	Z	-.004	-.004	0	%100
36	FF-H3	Z	-.001	-.001	0	%100
37	GSC-1	Z	-.002	-.002	0	%100
38	GSC-2	Z	-.002	-.002	0	%100
39	GSC-3	Z	-.00066	-.00066	0	%100
40	GSI-1	Z	-.002	-.002	0	%100
41	GSI-2	Z	-.003	-.003	0	%100
42	GSI-3	Z	-.000883	-.000883	0	%100
43	HRC-1	Z	-.000857	-.000857	0	%100
44	HRC-2	Z	-.002	-.002	0	%100
45	HRC-3	Z	-.003	-.003	0	%100
46	K-1	Z	-.002	-.002	0	%100
47	K-2	Z	-.002	-.002	0	%100
48	K-3	Z	-.002	-.002	0	%100
49	MP-1	Z	-.002	-.002	0	%100
50	MP-2	Z	-.002	-.002	0	%100
51	MP-3	Z	-.002	-.002	0	%100
52	MP-4	Z	-.002	-.002	0	%100
53	MP-5	Z	-.002	-.002	0	%100
54	MP-6	Z	-.002	-.002	0	%100
55	MP-7	Z	-.002	-.002	0	%100
56	MP-8	Z	-.002	-.002	0	%100
57	MP-9	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
58	MP-10	Z	-.002	-.002	0	%100
59	MP-11	Z	-.002	-.002	0	%100
60	MP-12	Z	-.002	-.002	0	%100
61	SF-H1	Z	-.002	-.002	0	%100
62	SF-H2	Z	-.000767	-.000767	0	%100
63	SF-H3	Z	-.003	-.003	0	%100
64	HR-1	Z	-.001	-.001	0	%100
65	HR-2	Z	-.002	-.002	0	%100
66	HR-3	Z	-.00053	-.00053	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.004	.004	0	%100
2	FF-H2	X	.003	.003	0	%100
3	FF-H3	X	0	0	0	%100
4	GSC-1	X	.003	.003	0	%100
5	GSC-2	X	.001	.001	0	%100
6	GSC-3	X	.002	.002	0	%100
7	GSI-1	X	.004	.004	0	%100
8	GSI-2	X	.003	.003	0	%100
9	GSI-3	X	0	0	0	%100
10	HRC-1	X	0	0	0	%100
11	HRC-2	X	.004	.004	0	%100
12	HRC-3	X	.003	.003	0	%100
13	K-1	X	.002	.002	0	%100
14	K-2	X	.002	.002	0	%100
15	K-3	X	.002	.002	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SF-H1	X	.002	.002	0	%100
29	SF-H2	X	.002	.002	0	%100
30	SF-H3	X	.004	.004	0	%100
31	HR-1	X	.002	.002	0	%100
32	HR-2	X	.002	.002	0	%100
33	HR-3	X	0	0	0	%100
34	FF-H1	Z	-.002	-.002	0	%100
35	FF-H2	Z	-.002	-.002	0	%100
36	FF-H3	Z	0	0	0	%100
37	GSC-1	Z	-.002	-.002	0	%100
38	GSC-2	Z	-.001	-.001	0	%100
39	GSC-3	Z	-.000902	-.000902	0	%100
40	GSI-1	Z	-.002	-.002	0	%100
41	GSI-2	Z	-.002	-.002	0	%100
42	GSI-3	Z	0	0	0	%100
43	HRC-1	Z	0	0	0	%100
44	HRC-2	Z	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
45	HRC-3	Z	-.002	-.002	0	%100
46	K-1	Z	-.001	-.001	0	%100
47	K-2	Z	-.001	-.001	0	%100
48	K-3	Z	-.001	-.001	0	%100
49	MP-1	Z	-.001	-.001	0	%100
50	MP-2	Z	-.001	-.001	0	%100
51	MP-3	Z	-.001	-.001	0	%100
52	MP-4	Z	-.001	-.001	0	%100
53	MP-5	Z	-.001	-.001	0	%100
54	MP-6	Z	-.001	-.001	0	%100
55	MP-7	Z	-.001	-.001	0	%100
56	MP-8	Z	-.001	-.001	0	%100
57	MP-9	Z	-.001	-.001	0	%100
58	MP-10	Z	-.001	-.001	0	%100
59	MP-11	Z	-.001	-.001	0	%100
60	MP-12	Z	-.001	-.001	0	%100
61	SF-H1	Z	-.001	-.001	0	%100
62	SF-H2	Z	-.001	-.001	0	%100
63	SF-H3	Z	-.002	-.002	0	%100
64	HR-1	Z	-.001	-.001	0	%100
65	HR-2	Z	-.001	-.001	0	%100
66	HR-3	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.005	.005	0	%100
2	FF-H2	X	.005	.005	0	%100
3	FF-H3	X	.005	.005	0	%100
4	GSC-1	X	.004	.004	0	%100
5	GSC-2	X	.003	.003	0	%100
6	GSC-3	X	.004	.004	0	%100
7	GSI-1	X	.005	.005	0	%100
8	GSI-2	X	.004	.004	0	%100
9	GSI-3	X	.004	.004	0	%100
10	HRC-1	X	.004	.004	0	%100
11	HRC-2	X	.005	.005	0	%100
12	HRC-3	X	.004	.004	0	%100
13	K-1	X	.002	.002	0	%100
14	K-2	X	.002	.002	0	%100
15	K-3	X	.002	.002	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.003	.003	0	%100
18	MP-3	X	.003	.003	0	%100
19	MP-4	X	.003	.003	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.003	.003	0	%100
22	MP-7	X	.003	.003	0	%100
23	MP-8	X	.003	.003	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.003	.003	0	%100
26	MP-11	X	.003	.003	0	%100
27	MP-12	X	.003	.003	0	%100
28	SF-H1	X	.004	.004	0	%100
29	SF-H2	X	.004	.004	0	%100
30	SF-H3	X	.004	.004	0	%100
31	HR-1	X	.003	.003	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
32	HR-2	X	.002	.002	0	%100
33	HR-3	X	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.004	.004	0	%100
2	FF-H2	X	0	0	0	%100
3	FF-H3	X	.003	.003	0	%100
4	GSC-1	X	.002	.002	0	%100
5	GSC-2	X	.001	.001	0	%100
6	GSC-3	X	.003	.003	0	%100
7	GSI-1	X	.004	.004	0	%100
8	GSI-2	X	0	0	0	%100
9	GSI-3	X	.003	.003	0	%100
10	HRC-1	X	.003	.003	0	%100
11	HRC-2	X	.004	.004	0	%100
12	HRC-3	X	0	0	0	%100
13	K-1	X	.002	.002	0	%100
14	K-2	X	.002	.002	0	%100
15	K-3	X	.002	.002	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SF-H1	X	.002	.002	0	%100
29	SF-H2	X	.004	.004	0	%100
30	SF-H3	X	.002	.002	0	%100
31	HR-1	X	.002	.002	0	%100
32	HR-2	X	0	0	0	%100
33	HR-3	X	.002	.002	0	%100
34	FF-H1	Z	.002	.002	0	%100
35	FF-H2	Z	0	0	0	%100
36	FF-H3	Z	.002	.002	0	%100
37	GSC-1	Z	.000902	.000902	0	%100
38	GSC-2	Z	.001	.001	0	%100
39	GSC-3	Z	.002	.002	0	%100
40	GSI-1	Z	.002	.002	0	%100
41	GSI-2	Z	0	0	0	%100
42	GSI-3	Z	.002	.002	0	%100
43	HRC-1	Z	.002	.002	0	%100
44	HRC-2	Z	.002	.002	0	%100
45	HRC-3	Z	0	0	0	%100
46	K-1	Z	.001	.001	0	%100
47	K-2	Z	.001	.001	0	%100
48	K-3	Z	.001	.001	0	%100
49	MP-1	Z	.001	.001	0	%100
50	MP-2	Z	.001	.001	0	%100
51	MP-3	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
52	MP-4	Z	.001	.001	0	%100
53	MP-5	Z	.001	.001	0	%100
54	MP-6	Z	.001	.001	0	%100
55	MP-7	Z	.001	.001	0	%100
56	MP-8	Z	.001	.001	0	%100
57	MP-9	Z	.001	.001	0	%100
58	MP-10	Z	.001	.001	0	%100
59	MP-11	Z	.001	.001	0	%100
60	MP-12	Z	.001	.001	0	%100
61	SF-H1	Z	.001	.001	0	%100
62	SF-H2	Z	.002	.002	0	%100
63	SF-H3	Z	.001	.001	0	%100
64	HR-1	Z	.001	.001	0	%100
65	HR-2	Z	0	0	0	%100
66	HR-3	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.003	.003	0	%100
2	FF-H2	X	.000852	.000852	0	%100
3	FF-H3	X	.003	.003	0	%100
4	GSC-1	X	.000718	.000718	0	%100
5	GSC-2	X	.002	.002	0	%100
6	GSC-3	X	.003	.003	0	%100
7	GSI-1	X	.003	.003	0	%100
8	GSI-2	X	.000761	.000761	0	%100
9	GSI-3	X	.003	.003	0	%100
10	HRC-1	X	.003	.003	0	%100
11	HRC-2	X	.002	.002	0	%100
12	HRC-3	X	.000818	.000818	0	%100
13	K-1	X	.002	.002	0	%100
14	K-2	X	.002	.002	0	%100
15	K-3	X	.002	.002	0	%100
16	MP-1	X	.002	.002	0	%100
17	MP-2	X	.002	.002	0	%100
18	MP-3	X	.002	.002	0	%100
19	MP-4	X	.002	.002	0	%100
20	MP-5	X	.002	.002	0	%100
21	MP-6	X	.002	.002	0	%100
22	MP-7	X	.002	.002	0	%100
23	MP-8	X	.002	.002	0	%100
24	MP-9	X	.002	.002	0	%100
25	MP-10	X	.002	.002	0	%100
26	MP-11	X	.002	.002	0	%100
27	MP-12	X	.002	.002	0	%100
28	SF-H1	X	.002	.002	0	%100
29	SF-H2	X	.003	.003	0	%100
30	SF-H3	X	.000823	.000823	0	%100
31	HR-1	X	.001	.001	0	%100
32	HR-2	X	.000446	.000446	0	%100
33	HR-3	X	.002	.002	0	%100
34	FF-H1	Z	.002	.002	0	%100
35	FF-H2	Z	.001	.001	0	%100
36	FF-H3	Z	.004	.004	0	%100
37	GSC-1	Z	.00066	.00066	0	%100
38	GSC-2	Z	.002	.002	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
39	GSC-3	Z	.002	.002	0	%100
40	GSI-1	Z	.002	.002	0	%100
41	GSI-2	Z	.000883	.000883	0	%100
42	GSI-3	Z	.003	.003	0	%100
43	HRC-1	Z	.003	.003	0	%100
44	HRC-2	Z	.002	.002	0	%100
45	HRC-3	Z	.000857	.000857	0	%100
46	K-1	Z	.002	.002	0	%100
47	K-2	Z	.002	.002	0	%100
48	K-3	Z	.002	.002	0	%100
49	MP-1	Z	.002	.002	0	%100
50	MP-2	Z	.002	.002	0	%100
51	MP-3	Z	.002	.002	0	%100
52	MP-4	Z	.002	.002	0	%100
53	MP-5	Z	.002	.002	0	%100
54	MP-6	Z	.002	.002	0	%100
55	MP-7	Z	.002	.002	0	%100
56	MP-8	Z	.002	.002	0	%100
57	MP-9	Z	.002	.002	0	%100
58	MP-10	Z	.002	.002	0	%100
59	MP-11	Z	.002	.002	0	%100
60	MP-12	Z	.002	.002	0	%100
61	SF-H1	Z	.002	.002	0	%100
62	SF-H2	Z	.003	.003	0	%100
63	SF-H3	Z	.000767	.000767	0	%100
64	HR-1	Z	.001	.001	0	%100
65	HR-2	Z	.00053	.00053	0	%100
66	HR-3	Z	.002	.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	.001	.001	0	%100
2	FF-H2	X	.001	.001	0	%100
3	FF-H3	X	.002	.002	0	%100
4	GSC-1	X	0	0	0	%100
5	GSC-2	X	.001	.001	0	%100
6	GSC-3	X	.002	.002	0	%100
7	GSI-1	X	.001	.001	0	%100
8	GSI-2	X	.001	.001	0	%100
9	GSI-3	X	.002	.002	0	%100
10	HRC-1	X	.002	.002	0	%100
11	HRC-2	X	.001	.001	0	%100
12	HRC-3	X	.001	.001	0	%100
13	K-1	X	.001	.001	0	%100
14	K-2	X	.001	.001	0	%100
15	K-3	X	.001	.001	0	%100
16	MP-1	X	.001	.001	0	%100
17	MP-2	X	.001	.001	0	%100
18	MP-3	X	.001	.001	0	%100
19	MP-4	X	.001	.001	0	%100
20	MP-5	X	.001	.001	0	%100
21	MP-6	X	.001	.001	0	%100
22	MP-7	X	.001	.001	0	%100
23	MP-8	X	.001	.001	0	%100
24	MP-9	X	.001	.001	0	%100
25	MP-10	X	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
26	MP-11	X	.001	.001	0	%100
27	MP-12	X	.001	.001	0	%100
28	SF-H1	X	.002	.002	0	%100
29	SF-H2	X	.002	.002	0	%100
30	SF-H3	X	0	0	0	%100
31	HR-1	X	.000725	.000725	0	%100
32	HR-2	X	.000609	.000609	0	%100
33	HR-3	X	.001	.001	0	%100
34	FF-H1	Z	.002	.002	0	%100
35	FF-H2	Z	.002	.002	0	%100
36	FF-H3	Z	.005	.005	0	%100
37	GSC-1	Z	0	0	0	%100
38	GSC-2	Z	.003	.003	0	%100
39	GSC-3	Z	.003	.003	0	%100
40	GSI-1	Z	.002	.002	0	%100
41	GSI-2	Z	.002	.002	0	%100
42	GSI-3	Z	.004	.004	0	%100
43	HRC-1	Z	.004	.004	0	%100
44	HRC-2	Z	.002	.002	0	%100
45	HRC-3	Z	.002	.002	0	%100
46	K-1	Z	.002	.002	0	%100
47	K-2	Z	.002	.002	0	%100
48	K-3	Z	.002	.002	0	%100
49	MP-1	Z	.002	.002	0	%100
50	MP-2	Z	.003	.003	0	%100
51	MP-3	Z	.002	.002	0	%100
52	MP-4	Z	.003	.003	0	%100
53	MP-5	Z	.002	.002	0	%100
54	MP-6	Z	.003	.003	0	%100
55	MP-7	Z	.002	.002	0	%100
56	MP-8	Z	.003	.003	0	%100
57	MP-9	Z	.002	.002	0	%100
58	MP-10	Z	.003	.003	0	%100
59	MP-11	Z	.002	.002	0	%100
60	MP-12	Z	.003	.003	0	%100
61	SF-H1	Z	.003	.003	0	%100
62	SF-H2	Z	.003	.003	0	%100
63	SF-H3	Z	0	0	0	%100
64	HR-1	Z	.001	.001	0	%100
65	HR-2	Z	.001	.001	0	%100
66	HR-3	Z	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Z	0	0	0	%100
2	FF-H2	Z	.005	.005	0	%100
3	FF-H3	Z	.005	.005	0	%100
4	GSC-1	Z	.002	.002	0	%100
5	GSC-2	Z	.004	.004	0	%100
6	GSC-3	Z	.002	.002	0	%100
7	GSI-1	Z	0	0	0	%100
8	GSI-2	Z	.004	.004	0	%100
9	GSI-3	Z	.004	.004	0	%100
10	HRC-1	Z	.004	.004	0	%100
11	HRC-2	Z	0	0	0	%100
12	HRC-3	Z	.004	.004	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
13	K-1	Z	.002	.002	0	%100
14	K-2	Z	.002	.002	0	%100
15	K-3	Z	.002	.002	0	%100
16	MP-1	Z	.003	.003	0	%100
17	MP-2	Z	.003	.003	0	%100
18	MP-3	Z	.003	.003	0	%100
19	MP-4	Z	.003	.003	0	%100
20	MP-5	Z	.003	.003	0	%100
21	MP-6	Z	.003	.003	0	%100
22	MP-7	Z	.003	.003	0	%100
23	MP-8	Z	.003	.003	0	%100
24	MP-9	Z	.003	.003	0	%100
25	MP-10	Z	.003	.003	0	%100
26	MP-11	Z	.003	.003	0	%100
27	MP-12	Z	.003	.003	0	%100
28	SF-H1	Z	.005	.005	0	%100
29	SF-H2	Z	.002	.002	0	%100
30	SF-H3	Z	.002	.002	0	%100
31	HR-1	Z	0	0	0	%100
32	HR-2	Z	.003	.003	0	%100
33	HR-3	Z	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.001	-.001	0	%100
2	FF-H2	X	-.002	-.002	0	%100
3	FF-H3	X	-.001	-.001	0	%100
4	GSC-1	X	-.002	-.002	0	%100
5	GSC-2	X	-.001	-.001	0	%100
6	GSC-3	X	0	0	0	%100
7	GSI-1	X	-.001	-.001	0	%100
8	GSI-2	X	-.002	-.002	0	%100
9	GSI-3	X	-.001	-.001	0	%100
10	HRC-1	X	-.001	-.001	0	%100
11	HRC-2	X	-.001	-.001	0	%100
12	HRC-3	X	-.002	-.002	0	%100
13	K-1	X	-.001	-.001	0	%100
14	K-2	X	-.001	-.001	0	%100
15	K-3	X	-.001	-.001	0	%100
16	MP-1	X	-.001	-.001	0	%100
17	MP-2	X	-.001	-.001	0	%100
18	MP-3	X	-.001	-.001	0	%100
19	MP-4	X	-.001	-.001	0	%100
20	MP-5	X	-.001	-.001	0	%100
21	MP-6	X	-.001	-.001	0	%100
22	MP-7	X	-.001	-.001	0	%100
23	MP-8	X	-.001	-.001	0	%100
24	MP-9	X	-.001	-.001	0	%100
25	MP-10	X	-.001	-.001	0	%100
26	MP-11	X	-.001	-.001	0	%100
27	MP-12	X	-.001	-.001	0	%100
28	SF-H1	X	-.002	-.002	0	%100
29	SF-H2	X	0	0	0	%100
30	SF-H3	X	-.002	-.002	0	%100
31	HR-1	X	-.000725	-.000725	0	%100
32	HR-2	X	-.001	-.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
33	HR-3	X	-.000609	-.000609	0	%100
34	FF-H1	Z	.002	.002	0	%100
35	FF-H2	Z	.005	.005	0	%100
36	FF-H3	Z	.002	.002	0	%100
37	GSC-1	Z	.003	.003	0	%100
38	GSC-2	Z	.003	.003	0	%100
39	GSC-3	Z	0	0	0	%100
40	GSI-1	Z	.002	.002	0	%100
41	GSI-2	Z	.004	.004	0	%100
42	GSI-3	Z	.002	.002	0	%100
43	HRC-1	Z	.002	.002	0	%100
44	HRC-2	Z	.002	.002	0	%100
45	HRC-3	Z	.004	.004	0	%100
46	K-1	Z	.002	.002	0	%100
47	K-2	Z	.002	.002	0	%100
48	K-3	Z	.002	.002	0	%100
49	MP-1	Z	.002	.002	0	%100
50	MP-2	Z	.003	.003	0	%100
51	MP-3	Z	.002	.002	0	%100
52	MP-4	Z	.003	.003	0	%100
53	MP-5	Z	.002	.002	0	%100
54	MP-6	Z	.003	.003	0	%100
55	MP-7	Z	.002	.002	0	%100
56	MP-8	Z	.003	.003	0	%100
57	MP-9	Z	.002	.002	0	%100
58	MP-10	Z	.003	.003	0	%100
59	MP-11	Z	.002	.002	0	%100
60	MP-12	Z	.003	.003	0	%100
61	SF-H1	Z	.003	.003	0	%100
62	SF-H2	Z	0	0	0	%100
63	SF-H3	Z	.003	.003	0	%100
64	HR-1	Z	.001	.001	0	%100
65	HR-2	Z	.003	.003	0	%100
66	HR-3	Z	.001	.001	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.003	-.003	0	%100
2	FF-H2	X	-.003	-.003	0	%100
3	FF-H3	X	-.000852	-.000852	0	%100
4	GSC-1	X	-.003	-.003	0	%100
5	GSC-2	X	-.002	-.002	0	%100
6	GSC-3	X	-.000718	-.000718	0	%100
7	GSI-1	X	-.003	-.003	0	%100
8	GSI-2	X	-.003	-.003	0	%100
9	GSI-3	X	-.000761	-.000761	0	%100
10	HRC-1	X	-.000818	-.000818	0	%100
11	HRC-2	X	-.002	-.002	0	%100
12	HRC-3	X	-.003	-.003	0	%100
13	K-1	X	-.002	-.002	0	%100
14	K-2	X	-.002	-.002	0	%100
15	K-3	X	-.002	-.002	0	%100
16	MP-1	X	-.002	-.002	0	%100
17	MP-2	X	-.002	-.002	0	%100
18	MP-3	X	-.002	-.002	0	%100
19	MP-4	X	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
20	MP-5	X	-.002	-.002	0	%100
21	MP-6	X	-.002	-.002	0	%100
22	MP-7	X	-.002	-.002	0	%100
23	MP-8	X	-.002	-.002	0	%100
24	MP-9	X	-.002	-.002	0	%100
25	MP-10	X	-.002	-.002	0	%100
26	MP-11	X	-.002	-.002	0	%100
27	MP-12	X	-.002	-.002	0	%100
28	SF-H1	X	-.002	-.002	0	%100
29	SF-H2	X	-.000823	-.000823	0	%100
30	SF-H3	X	-.003	-.003	0	%100
31	HR-1	X	-.001	-.001	0	%100
32	HR-2	X	-.002	-.002	0	%100
33	HR-3	X	-.000446	-.000446	0	%100
34	FF-H1	Z	.002	.002	0	%100
35	FF-H2	Z	.004	.004	0	%100
36	FF-H3	Z	.001	.001	0	%100
37	GSC-1	Z	.002	.002	0	%100
38	GSC-2	Z	.002	.002	0	%100
39	GSC-3	Z	.00066	.00066	0	%100
40	GSI-1	Z	.002	.002	0	%100
41	GSI-2	Z	.003	.003	0	%100
42	GSI-3	Z	.000883	.000883	0	%100
43	HRC-1	Z	.000857	.000857	0	%100
44	HRC-2	Z	.002	.002	0	%100
45	HRC-3	Z	.003	.003	0	%100
46	K-1	Z	.002	.002	0	%100
47	K-2	Z	.002	.002	0	%100
48	K-3	Z	.002	.002	0	%100
49	MP-1	Z	.002	.002	0	%100
50	MP-2	Z	.002	.002	0	%100
51	MP-3	Z	.002	.002	0	%100
52	MP-4	Z	.002	.002	0	%100
53	MP-5	Z	.002	.002	0	%100
54	MP-6	Z	.002	.002	0	%100
55	MP-7	Z	.002	.002	0	%100
56	MP-8	Z	.002	.002	0	%100
57	MP-9	Z	.002	.002	0	%100
58	MP-10	Z	.002	.002	0	%100
59	MP-11	Z	.002	.002	0	%100
60	MP-12	Z	.002	.002	0	%100
61	SF-H1	Z	.002	.002	0	%100
62	SF-H2	Z	.000767	.000767	0	%100
63	SF-H3	Z	.003	.003	0	%100
64	HR-1	Z	.001	.001	0	%100
65	HR-2	Z	.002	.002	0	%100
66	HR-3	Z	.00053	.00053	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	X	-.004	-.004	0	%100
2	FF-H2	X	-.003	-.003	0	%100
3	FF-H3	X	0	0	0	%100
4	GSC-1	X	-.003	-.003	0	%100
5	GSC-2	X	-.001	-.001	0	%100
6	GSC-3	X	-.002	-.002	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
7	GSI-1	X	-.004	-.004	0	%100
8	GSI-2	X	-.003	-.003	0	%100
9	GSI-3	X	0	0	0	%100
10	HRC-1	X	0	0	0	%100
11	HRC-2	X	-.004	-.004	0	%100
12	HRC-3	X	-.003	-.003	0	%100
13	K-1	X	-.002	-.002	0	%100
14	K-2	X	-.002	-.002	0	%100
15	K-3	X	-.002	-.002	0	%100
16	MP-1	X	-.002	-.002	0	%100
17	MP-2	X	-.002	-.002	0	%100
18	MP-3	X	-.002	-.002	0	%100
19	MP-4	X	-.002	-.002	0	%100
20	MP-5	X	-.002	-.002	0	%100
21	MP-6	X	-.002	-.002	0	%100
22	MP-7	X	-.002	-.002	0	%100
23	MP-8	X	-.002	-.002	0	%100
24	MP-9	X	-.002	-.002	0	%100
25	MP-10	X	-.002	-.002	0	%100
26	MP-11	X	-.002	-.002	0	%100
27	MP-12	X	-.002	-.002	0	%100
28	SF-H1	X	-.002	-.002	0	%100
29	SF-H2	X	-.002	-.002	0	%100
30	SF-H3	X	-.004	-.004	0	%100
31	HR-1	X	-.002	-.002	0	%100
32	HR-2	X	-.002	-.002	0	%100
33	HR-3	X	0	0	0	%100
34	FF-H1	Z	.002	.002	0	%100
35	FF-H2	Z	.002	.002	0	%100
36	FF-H3	Z	0	0	0	%100
37	GSC-1	Z	.002	.002	0	%100
38	GSC-2	Z	.001	.001	0	%100
39	GSC-3	Z	.000902	.000902	0	%100
40	GSI-1	Z	.002	.002	0	%100
41	GSI-2	Z	.002	.002	0	%100
42	GSI-3	Z	0	0	0	%100
43	HRC-1	Z	0	0	0	%100
44	HRC-2	Z	.002	.002	0	%100
45	HRC-3	Z	.002	.002	0	%100
46	K-1	Z	.001	.001	0	%100
47	K-2	Z	.001	.001	0	%100
48	K-3	Z	.001	.001	0	%100
49	MP-1	Z	.001	.001	0	%100
50	MP-2	Z	.001	.001	0	%100
51	MP-3	Z	.001	.001	0	%100
52	MP-4	Z	.001	.001	0	%100
53	MP-5	Z	.001	.001	0	%100
54	MP-6	Z	.001	.001	0	%100
55	MP-7	Z	.001	.001	0	%100
56	MP-8	Z	.001	.001	0	%100
57	MP-9	Z	.001	.001	0	%100
58	MP-10	Z	.001	.001	0	%100
59	MP-11	Z	.001	.001	0	%100
60	MP-12	Z	.001	.001	0	%100
61	SF-H1	Z	.001	.001	0	%100
62	SF-H2	Z	.001	.001	0	%100
63	SF-H3	Z	.002	.002	0	%100

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
64	HR-1	Z	.001	.001	0	%100
65	HR-2	Z	.001	.001	0	%100
66	HR-3	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Y	-.000398	-.006	0	2
2	FF-H1	Y	-.006	-.01	2	4
3	FF-H1	Y	-.01	-.009	4	6
4	FF-H1	Y	-.009	-.009	6	8
5	FF-H1	Y	-.009	-.01	8	10
6	FF-H1	Y	-.01	-.006	10	12
7	FF-H1	Y	-.006	-.000398	12	14
8	GSC-1	Y	-.002	-.009	0	1.5
9	GSC-1	Y	-.009	-.016	1.5	3
10	GSC-3	Y	-.002	-.009	0	1.5
11	GSC-3	Y	-.009	-.016	1.5	3
12	GSI-1	Y	-.009	-.009	.013	8.791
13	FF-H3	Y	-.000398	-.006	0	2
14	FF-H3	Y	-.006	-.01	2	4
15	FF-H3	Y	-.01	-.009	4	6
16	FF-H3	Y	-.009	-.009	6	8
17	FF-H3	Y	-.009	-.01	8	10
18	FF-H3	Y	-.01	-.006	10	12
19	FF-H3	Y	-.006	-.000398	12	14
20	GSC-2	Y	-.002	-.009	0	1.5
21	GSC-2	Y	-.009	-.016	1.5	3
22	GSI-3	Y	-.009	-.009	.013	8.791
23	FF-H2	Y	-.000398	-.006	0	2
24	FF-H2	Y	-.006	-.01	2	4
25	FF-H2	Y	-.01	-.009	4	6
26	FF-H2	Y	-.009	-.009	6	8
27	FF-H2	Y	-.009	-.01	8	10
28	FF-H2	Y	-.01	-.006	10	12
29	FF-H2	Y	-.006	-.000398	12	14
30	GSI-2	Y	-.009	-.009	.013	8.791

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	FF-H1	Y	-.000155	-.002	0	2
2	FF-H1	Y	-.002	-.004	2	4
3	FF-H1	Y	-.004	-.003	4	6
4	FF-H1	Y	-.003	-.003	6	8
5	FF-H1	Y	-.003	-.004	8	10
6	FF-H1	Y	-.004	-.002	10	12
7	FF-H1	Y	-.002	-.000155	12	14
8	GSC-1	Y	-.00069	-.003	0	1.5
9	GSC-1	Y	-.003	-.006	1.5	3
10	GSC-3	Y	-.00069	-.003	0	1.5
11	GSC-3	Y	-.003	-.006	1.5	3
12	GSI-1	Y	-.004	-.004	.013	8.791
13	FF-H3	Y	-.000155	-.002	0	2
14	FF-H3	Y	-.002	-.004	2	4
15	FF-H3	Y	-.004	-.003	4	6
16	FF-H3	Y	-.003	-.003	6	8
17	FF-H3	Y	-.003	-.004	8	10

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
18	FF-H3	Y	-.004	-.002	10	12
19	FF-H3	Y	-.002	-.000155	12	14
20	GSC-2	Y	-.00069	-.003	0	1.5
21	GSC-2	Y	-.003	-.006	1.5	3
22	GSI-3	Y	-.004	-.004	.013	8.791
23	FF-H2	Y	-.000155	-.002	0	2
24	FF-H2	Y	-.002	-.004	2	4
25	FF-H2	Y	-.004	-.003	4	6
26	FF-H2	Y	-.003	-.003	6	8
27	FF-H2	Y	-.003	-.004	8	10
28	FF-H2	Y	-.004	-.002	10	12
29	FF-H2	Y	-.002	-.000155	12	14
30	GSI-2	Y	-.004	-.004	.013	8.791

Member Area Loads (BLC 1 : Dead)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	FF3	GSI13	GSI14	FF1	Y	Two Way	-.012
2	FF1	GSI14	GSI15	SF1-1	Y	Two Way	-.012
3	SF1-1	GSI15	GSI13	FF3	Y	Two Way	-.012

Member Area Loads (BLC 18 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	FF3	GSI13	GSI14	FF1	Y	Two Way	-.005
2	GSI14	FF1	SF1-1	GSI15	Y	Two Way	-.005
3	SF1-1	GSI15	GSI13	FF3	Y	Two Way	-.005

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

	Member	Shape	Code Check	Loc...	LC	Shea...	Loc...	Dir	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	...	Eqn
1	MP-10	PIPE 2.0 Nominal	.680	6.8...	23	.159	3.1...		20	16.186	33.848	1.997	1.997	2...	H1-1b
2	FF-H3	L3X3X4	.640	14	22	.203	7	y	21	29.495	46.656	1.688	3.013	2...	H2-1
3	FF-H2	L3X3X4	.633	14	34	.212	7	y	31	29.495	46.656	1.688	3.047	2...	H2-1
4	FF-H1	L3X3X4	.623	14	43	.209	7	y	26	29.495	46.656	1.688	3.026	2...	H2-1
5	MP-2	PIPE 2.0 Nominal	.619	6.8...	29	.173	3.1...		25	16.186	33.848	1.997	1.997	1...	H1-1b
6	MP-6	PIPE 2.0 Nominal	.617	6.8...	18	.180	3.1...		30	16.186	33.848	1.997	1.997	2...	H1-1b
7	HR-3	PIPE 2.0 Nominal	.590	4.4...	30	.364	1.5...		29	11.573	33.848	1.997	1.997	3...	H3-6
8	HR-2	PIPE 2.0 Nominal	.555	4.4...	32	.394	11....		23	11.573	33.848	1.997	1.997	2...	H3-6
9	MP-3	PIPE 2.0 Nominal	.540	6.3...	23	.160	6.3...		28	16.186	33.848	1.997	1.997	2...	H1-1b
10	HR-1	PIPE 2.0 Nominal	.536	4.4...	26	.377	11....		18	11.573	33.848	1.997	1.997	3...	H3-6
11	MP-11	PIPE 2.0 Nominal	.519	6.3...	33	.178	6.3...		22	16.186	33.848	1.997	1.997	4...	H1-1b
12	MP-7	PIPE 2.0 Nominal	.516	6.3...	29	.164	6.3...		33	16.186	33.848	1.997	1.997	4...	H1-1b
13	HRC-2	L6.6x4.46x0.25	.492	0	14	.080	0	z	30	51.019	80.264	2.473	7.149	1...	H2-1
14	HRC-1	L6.6x4.46x0.25	.462	0	9	.076	0	z	25	51.019	80.264	2.473	7.149	1...	H2-1
15	HRC-3	L6.6x4.46x0.25	.424	0	3	.070	0	z	20	51.019	80.264	2.473	7.149	1...	H2-1
16	MP-12	PIPE 2.0 Nominal	.410	6.8...	22	.128	6.8...		26	16.186	33.848	1.997	1.997	4...	H1-1b
17	GSC-1	LL3x3x4x6	.410	0	42	.064	2	y	27	65.608	93.312	8.512	4.416	1...	H1-1b
18	GSC-3	LL3x3x4x6	.408	0	22	.069	2	y	22	65.608	93.312	8.512	4.416	1...	H1-1b
19	GSC-2	LL3x3x4x6	.406	0	48	.067	2	y	33	65.608	93.312	8.512	4.416	1...	H1-1b
20	GSI-1	L3X3X4	.404	8.8...	23	.021	8.8...	y	39	38.918	46.656	1.688	3.481	2...	H2-1
21	GSI-3	L3X3X4	.402	0	23	.022	8.8...	y	34	38.918	46.656	1.688	3.49	2...	H2-1
22	MP-8	PIPE 2.0 Nominal	.394	6.8...	32	.145	6.8...		22	16.186	33.848	1.997	1.997	1...	H1-1b
23	GSI-2	L3X3X4	.386	8.8...	29	.021	8.8...	y	45	38.918	46.656	1.688	3.481	2...	H2-1
24	MP-4	PIPE 2.0 Nominal	.367	6.8...	27	.139	6.8...		32	16.186	33.848	1.997	1.997	1...	H1-1b
25	MP-1	PIPE 2.0 Nominal	.326	4	23	.118	4		20	16.186	33.848	1.997	1.997	2...	H1-1b

RISA A NEMETSCHEK COMPANY
Company : Tower Engineering Professionals
Designer : JXK
Job Number : TEP No. 25630.636130
Model Name : CT NHV-2075 CAC 801367 (BU 801367)
Dec 27, 2021
9:13 AM
Checked By: PHX

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

	Member	Shape	Code Check	Loc...	LC	Shea...	Loc...	Dir	LC	phi*Pn...	phi*Pn...	phi*M...	phi*M...	...	Eqn
26	MP-5	PIPE 2.0 Nominal	.322	4	29	.124	4		25	16.186	33.848	1.997	1.997	1...	H1-1b
27	MP-9	PIPE 2.0 Nominal	.304	4	33	.131	4		30	16.186	33.848	1.997	1.997	1...	H1-1b
28	K-2	PIPE 2.0 Nominal	.195	0	34	.008	5.7...		31	22.978	33.848	1.997	1.997	1...	H1-1...
29	K-3	PIPE 2.0 Nominal	.190	0	39	.008	5.7...		21	22.978	33.848	1.997	1.997	1...	H1-1...
30	K-1	PIPE 2.0 Nominal	.188	0	45	.008	5.7...		26	22.978	33.848	1.997	1.997	1...	H1-1...

Envelope AISI S100-16: LRFD Cold Formed Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	phi*Pn[k]	phi*Tn[k]	phi*Mn...	phi*Mn...	phi*...	phi*...	Cb	Eqn
1	SF-H3	PL-9 Su...	.676	0	23	.239	0	y	32	114.085	131.648	6.783	18.116	22.043	40.559	2.792	H1.1-2
2	SF-H2	PL-9 Su...	.643	0	18	.213	0	y	27	114.085	131.648	6.783	18.116	22.043	40.559	2.806	H1.1-2
3	SF-H1	PL-9 Su...	.641	0	24	.229	0	y	22	114.085	131.648	6.783	18.116	22.043	40.559	2.684	H1.1-2

APPENDIX D

ADDITIONAL CALCULATIONS

AT&T TARP Mount Program Spec Sheet

Site: Cheshire Larsens Pond (CTL05263)

TARP Mount Specification

Basic Wind Speed (MPH)	Radial Ice (in.)	Height (ft.)	Exposure Category	Class	Topo Category	Number of Loaded Mount Pipes / Sector	Allowable[1] EPA / Pipe (ft^2)	Allowable[1] Weight / Pipe (lbf)
118.0	*1.0*	*160.0*	*B*	*II*	*1*	*3*	*18.4*	*286.7*

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

Exhibit F

Power Density/RF Emissions Report

EBI Consulting

environmental | engineering | due diligence

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

AT&T Existing Facility

Site ID: CTL05263 - 801367

Cheshire Larsens Pond
1121 Summit Road
Cheshire, Connecticut 06410

January 27, 2022

EBI Project Number: 6222000337

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**20.53%**

January 27, 2022

AT&T

Emissions Analysis for Site: CTL05263 - 801367 - Cheshire Larsens Pond

EBI Consulting was directed to analyze the proposed AT&T facility located at **1121 Summit Road** in **Cheshire, 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 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu W/cm^2$). The number of $\mu W/cm^2$ 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 ($\mu W/cm^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately 400 $\mu W/cm^2$ and 467 $\mu W/cm^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is 1000 $\mu W/cm^2$. 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 1121 Summit Road in Cheshire, 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 power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

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) 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.

4) 4 LTE / 5G 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.

5) 4 LTE / 5G 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.

6) 4 LTE channels (WCS Band – 2300 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 25 Watts per Channel.

7) 2 C-Band Channels (3700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 144.58 Watts per Channel.

8) 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.

9) 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.

10) The antennas used in this modeling are the Quintel QD8616-7 for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU8DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector A, the Quintel QD8616-7 for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU8DA for the 700 MHz / 850 MHz / 2300 MHz channel(s) in Sector B, the Quintel QD8616-7 for the 700 MHz / 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6419 for the 3700 MHz channel(s), the Ericsson AIR 6449 for the 3700 MHz channel(s), the CCI DMP65R-BU8DA for the 700 MHz / 850 MHz / 2300 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.

11) The antenna mounting height centerline of the proposed antennas is 160 feet above ground level (AGL).

12) 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.

13) 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:	Quintel QD8616-7	Make / Model:	Quintel QD8616-7	Make / Model:	Quintel QD8616-7
Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	700 MHz / 1900 MHz / 2100 MHz
Gain:	12.85 dBd / 14.75 dBd / 14.95 dBd	Gain:	12.85 dBd / 14.75 dBd / 14.95 dBd	Gain:	12.85 dBd / 14.75 dBd / 14.95 dBd
Height (AGL):	160 feet	Height (AGL):	160 feet	Height (AGL):	160 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	560 Watts	Total TX Power (W):	560 Watts	Total TX Power (W):	560 Watts
ERP (W):	15,363.24	ERP (W):	15,363.24	ERP (W):	15,363.24
Antenna A1 MPE %:	**2.86%**	Antenna B1 MPE %:	**2.86%**	Antenna C1 MPE %:	**2.86%**
Antenna #:	**2**	Antenna #:	**2**	Antenna #:	**2**
Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419	Make / Model:	Ericsson AIR 6419
Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz
Gain:	23.45 dBd	Gain:	23.45 dBd	Gain:	23.45 dBd
Height (AGL):	162 feet	Height (AGL):	162 feet	Height (AGL):	162 feet
Channel Count:	1	Channel Count:	1	Channel Count:	1
Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts
ERP (W):	31,996.92	ERP (W):	31,996.92	ERP (W):	31,996.92
Antenna A2 MPE %:	**4.73%**	Antenna B2 MPE %:	**4.73%**	Antenna C2 MPE %:	**4.73%**
Antenna #:	**3**	Antenna #:	**3**	Antenna #:	**3**
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz	Frequency Bands:	3700 MHz
Gain:	23.45 dBd	Gain:	23.45 dBd	Gain:	23.45 dBd
Height (AGL):	158 feet	Height (AGL):	158 feet	Height (AGL):	158 feet
Channel Count:	1	Channel Count:	1	Channel Count:	1
Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts	Total TX Power (W):	144.58 Watts
ERP (W):	31,996.92	ERP (W):	31,996.92	ERP (W):	31,996.92
Antenna A3 MPE %:	**4.98%**	Antenna B3 MPE %:	**4.98%**	Antenna C3 MPE %:	**4.98%**
Antenna #:	**4**	Antenna #:	**4**	Antenna #:	**4**
Make / Model:	CCI DMP65R-BU8DA	Make / Model:	CCI DMP65R-BU8DA	Make / Model:	CCI DMP65R-BU8DA
Frequency Bands:	700 MHz / 850 MHz / 2300 MHz	Frequency Bands:	700 MHz / 850 MHz / 2300 MHz	Frequency Bands:	700 MHz / 850 MHz / 2300 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):	160 feet	Height (AGL):	160 feet	Height (AGL):	160 feet
Channel Count:	12	Channel Count:	12	Channel Count:	12
Total TX Power (W):	420 Watts	Total TX Power (W):	420 Watts	Total TX Power (W):	420 Watts
ERP (W):	9,197.92	ERP (W):	9,197.92	ERP (W):	9,197.92
Antenna A4 MPE %:	**2.14%**	Antenna B4 MPE %:	**2.14%**	Antenna C4 MPE %:	**2.14%**

• An adjusted power reduction factor of 0.32 was applied to the AIR 6449 antennas per guidance from AT&T.
• Specifications were not available for the Ericsson AIR 6419 antenna. Per AT&T, specifications for the AIR 6449 antenna were used to model the 6419 due to its similarity.

Site Composite MPE %	
Carrier	**MPE %**
AT&T (Max at Sector A):	14.71%
T-Mobile	3.64%
Verizon	1.41%
Sprint	0.77%
Site Total MPE % :	20.53%

AT&T MPE % Per Sector	
AT&T Sector A Total:	14.71%
AT&T Sector B Total:	14.71%
AT&T Sector C Total:	14.71%
Site Total MPE % :	20.53%

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 (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
AT&T 700 MHz LTE FN	4	771.01	160.0	4.68	700 MHz LTE FN	467	1.00%
AT&T 1900 MHz LTE/5G	4	1194.15	160.0	7.24	1900 MHz LTE/5G	1000	0.72%
AT&T 2100 MHz LTE/5G	4	1875.65	160.0	11.37	2100 MHz LTE/5G	1000	1.14%
AT&T 3700 MHz C-Band	1	31996.92	162.0	47.27	3700 MHz C-Band	1000	4.73%
AT&T 3700 MHz C-Band	1	31996.92	158.0	49.79	3700 MHz C-Band	1000	4.98%
AT&T 700 MHz LTE	4	612.43	160.0	3.71	700 MHz LTE	467	0.80%
AT&T 850 MHz 5G	4	703.17	160.0	4.26	850 MHz 5G	567	0.75%
AT&T 2300 MHz LTE	4	983.88	160.0	5.97	2300 MHz LTE	1000	0.60%
						Total:	**14.71%**

• 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:	14.71%
Sector B:	14.71%
Sector C:	14.71%
AT&T Maximum MPE % (Sector A):	14.71%
Site Total:	20.53%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **20.53%** 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.