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

February 13, 2021

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

RE: **Notice of Exempt Modification for T-Mobile:**
806358 – T-Mobile Site ID: CT11127A
1432 Old Waterbury Road, Southbury, CT 06488
Latitude: 41° 29′ 36.92″ / Longitude: -73° 9′ 54.98″

Dear Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 205-foot mount on the existing 226-foot Monopole Tower, located at 1432 Old Waterbury Road, Southbury, CT. The tower and property are owned by Crown Castle. T-Mobile now intends to remove and replace six (6) antennas with nine (9) total antennas; three (3) 1900/1900 MHz antennas, three (3) 2500/2500 MHz antennas, and three (3) 600/700 MHz antennas. Six of the newly installed antennas will be capable of providing 5G services. The new antennas will be installed at the 205-ft level of the tower. T-Mobile is also proposing tower mount modifications pursuant to the enclosed Mount Analysis.

Planned Modifications:
Tower:

Remove:
(3) TMA

Remove and Replace:
(3) LNX 6515DS-A1M Antenna **(REMOVE)** - (3) RFS-APXVAARR24_43-U-NA20 Antenna 600/700 MHz **(REPLACE)**

(3) RFS-APXV18-206516S-C-A20 Antenna **(REMOVE)** – (3) APX16DWV-16DWV-S-E-A20 Antenna 1900/1900 MHz **(REPLACE)**

Install New:
(3) RRH 4415 B66A
(3) RRH 4424 B25
(3) RRH 4449 B71 B85A
(3) AIR6449 B41 Antenna 2500/2500 MHz
(2) Hybrid Cables 1 3/8”

Existing to Remain:
(12) 1 5/8” Coax
(3) Bias Tee

Ground:

Upgrade to existing ground cabinet. (Internally)
Upgrade existing breaker panel from 100A to 200A.
Upgrade cabinet breaker to 150A.
Install (1) 6160 cabinet.
Install (1) B160 battery cabinet.
Install a 6'x4' pad extension to house new 15kw diesel backup generator.

The facility was approved by the Connecticut Siting Council in Docket No. 88 on March 3, 1988. The approval was given with conditions which this exempt modification follows.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Jeff Manville, First Selectman for the Town of Southbury, Kathy Castagnetta, Land Use Administrator, and Crown Castle is both the tower and property owner.

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

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

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

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

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

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

Sincerely,

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

Attachments
cc:

The Honorable Jeff Manville, First Selectman (*via email only to selectman@southbury-ct.gov*)
Southbury Town Hall
501 Main Street South
Southbury, CT 06488

Kathy Castagnetta, AICP, Land Use Administrator
(*via email only to landuseadmin@southbury-ct.gov*)
Southbury Town Hall
501 Main Street South
Southbury, CT 06488

Crown Castle, Tower & Property Owner

From:	Zsamba, Anne Marie
To:	"selectman@southbury-ct.gov"
Subject:	Notice of Exempt Modification - T-Mobile - 1432 Old Waterbury Road, Southbury - 806358
Date:	Saturday, February 13, 2021 3:14:00 PM
Attachments:	EM-T-MOBILE-CT11127A-1432 OLD WATERBURY RD SOUTHBURY-806358-notice.pdf

Dear First Selectman Manville:

Attached please find T-Mobile's exempt modification application that is being submitted to the Connecticut Siting Council for submission on Tuesday February 16, 2021.

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

Best,
Anne Marie Zsamba

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

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

From:	Zsamba, Anne Marie
To:	landuseadmin@southbury-ct.gov
Subject:	Notice of Exempt Modification - T-Mobile - 1432 Old Waterbury Road, Southbury - 806358
Date:	Saturday, February 13, 2021 3:16:00 PM
Attachments:	EM-T-MOBILE-CT11127A-1432 OLD WATERBURY RD SOUTHBURY-806358-notice.pdf

Dear Land Use Administrator:

Attached please find T-Mobile's exempt modification application that is being submitted to the Connecticut Siting Council for submission on Tuesday February 16, 2021.

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

Best,
Anne Marie Zsamba

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

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

Exhibit A

Original Facility Approval

DOCKET NO. 88 - AN APPLICATION OF METRO MOBILE CTS OF NEW HAVEN, INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR CELLULAR TELEPHONE ANTENNAS AND ASSOCIATED EQUIPMENT IN THE TOWN OF SOUTHBURY, CONNECTICUT	:	CONNECTICUT SITING COUNCIL
	:	MARCH 3, 1988

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

Pursuant to the forgoing opinion, the Connecticut Siting Council hereby directs that a Certificate of Environmental Compatibility and Public Need as provided by Section 16-50k of the General Statutes of Connecticut (CGS) be issued to Metro Mobile CTS of New Haven, Inc. for the construction, operation, and maintenance of a cellular telephone tower site and associated equipment at the "M/A-Southbury" alternative site on Old Waterbury Road in the Town of Southbury, Connecticut. The "M-Southbury" site on Luther Drive is hereby denied.

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

1. The monopole tower at the Southbury site shall be no taller than necessary to provide the proposed service, and in no event shall exceed a total height of 243 feet, including antennas and associated equipment, or violate the air space of Oxford Airport as determined by the Federal Aviation Administration (FAA).
2. The facility shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations.
3. Unless necessary to comply with condition number 2, above, no lights shall be installed on this tower.

4. The Certificate Holder shall prepare a development and management (D&M) plan for the Southbury site in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall provide for permanent evergreen screening around the outside perimeter of the eight-foot chain link fence which will surround the site. The D&M shall also document the final height of the tower as approved by the FAA.
5. The Certificate Holder or its successor shall notify the Council if and when directional antennas or any equipment other than that listed in this application is added to this facility.
6. The Certificate Holder or its successor shall permit public or private entities to share space on the Southbury tower for due consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
7. If this facility does not provide or permanently ceases to provide cellular service following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.

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

9. 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 issuance of this Decision and Order, or within three years of the completion of any appeal taken in this Decision and Order.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of this Decision and Order be served on each person listed below. A notice of the issuance shall be published in the Waterbury Republican and Newtown Bee.

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

The parties or intervenors to this proceeding are:

Metro Mobile CTS of New Haven, Inc. (applicant)
50 Rockland Road
South Norwalk, CT 06854

Mr. Howard L. Slater, Esq. (its representative)
Ms. Jennifer Young Gaudet
Byrne, Slater, Sandler,
Shulman & Rouse, P.C.
330 Main Street
P.O. Box 3216
Hartford, CT 06103

Fleishman and Walsh, P.C. (party)
1725 N Street, N.W.
Washington, D.C. 20036

SNET Cellular, Inc. (intervenor)
Peter J. Tyrrell, Esq.
227 Church Street
New Haven, CT 06506

Dennis Roberts (intervenor)
Martha J. Roberts
306 Luther Drive
Southbury, CT 06488

Carol A. Herskowitz (intervenor)
First Selectman
Town of Southbury
Town Hall
501 Main Street South
Southbury, CT 06488

Duncan M. Graham (party)
Executive Director
Council of Governments
Of The Central Naugatuck Valley
20 East Main Street
Waterbury, CT 06702

1033E

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket 88 or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 3rd day of March, 1988.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Yes
Commissioner Peter Boucher Designee: Roland Miller	Yes
Commissioner Leslie Carothers Designee: Brian Emerick	Yes
Owen L. Clark	Absent
Fred J. Doocy	Yes
Mortimer A. Gelston	Yes
James G. Horsfall	Yes
William H. Smith	Yes
Colin C. Tait	Absent

Exhibit B

Property Card

Town of Southbury, CT

Property Listing Report

Map Block Lot	Building #	Section #	Account
46-8-10A-?			00537703

Property Information

Property Location	1432 OLD WATERBURY ROAD #?
Owner	CROWN ATLANTIC CO LLC
Co-Owner	4017 WASHINGTON RD
Mailing Address	P M BOX 353 MCMURRAY PA 15317
Land Use	300 Ind Land
Land Class	I
Zoning Code	M-2
Census Tract	3411

Street Index	
Acreage	0
Utilities	
Lot Setting/Desc	
Additional Info	

Photo



Sketch

Primary Construction Details

Year Built		Bedrooms		Exterior Walls	
Stories		Full Bathrooms		Exterior Walls 2	
Building Style		Half Bathrooms		Interior Walls	
Building Use		Extra Fixtures		Interior Walls 2	
Building Condition		Bath Style		Heating Type	
Interior Floors 1		Kitchen Style		Heating Fuel	
Interior Floors 2		Roof Style		Sq. Ft. Basement	
Percent Good		Roof Cover		Fin BSMT Quality	
Total Rooms		AC Percent		Percent Basement	
Basement Garages		PLN FPL		Basement Access	
Occupancy		DET FPL		% Attic Finished	
Building Grade		Gas Fireplace		LF Dormer	
Foundation					

Report Created On 6/24/2020

Town of Southbury, CT

Property Listing Report

Map Block Lot	Building #	Section #	Account
46-8-10A-?			00537703

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	0	0
Extras	0	0
Improvements		
Outbuildings	0	0
Land	160000	112000
Total	160000	112000

Outbuilding and Extra Features

Type	Description

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
VOLPE BUILDERS INC	297/1245	6/25/1995	0
CROWN ATLANTIC CO LLC	484/ 720	4/11/2005	220000

Report Created On 6/24/2020

Tax Map # 39

Tax Map # 45

Tax Map #51

Tax Map #52

Tax Map #47

Tax Map # 40

Tax Map # 53

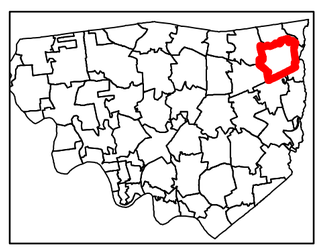
SHEET NO. 46

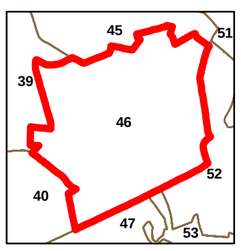
Tax Map Grid
Historic Parcel Line
Parcels
Decks
Buildings
Townline
Misc. Easements
Pavement
Rivers / Streams
Lakes / Ponds

NEGEO
New England Geosystems
www.negeosystems.com

Town of Southbury, CT
Assessor Tax Map

1 inch = 350 feet





SHEET NO. 46

MAP DATE : GL October 2018

THIS MAP H AS BEEN COMPILED FROM RECORDED SURVEYS, DEED DIMENSIONS AND OTHER SOURCES OF INFORMATION. THE DELINEATION OF BOUNDARY LINES IS APPROXIMATE. THIS MAP SHOULD NOT BE RELIED UPON FOR PROPERTY CONVEYANCES.

Print Date: August 2019

Exhibit C

Construction Drawings

T-Mobile

T-MOBILE SITE NUMBER: CT11127A
T-MOBILE SITE NAME: MIDDLEBURY/ I-84 X16
SITE TYPE: MONOPOLE
TOWER HEIGHT: 226'-0"

BUSINESS UNIT #: 806358
SITE ADDRESS: 1432 OLD WATERBURY RD SOUTHBURY, CT 06488
COUNTY: NEW HAVEN
JURISDICTION: TOWN OF SOUTHBURY

T-MOBILE ANCHOR SITE CONFIGURATION: 67D5A998C

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	NHV 109 943107
SITE ADDRESS:	1432 OLD WATERBURY RD SOUTHBURY, CT 06488
COUNTY:	NEW HAVEN
MAP/PARCEL #:	46-8-10A
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.493556°
LONGITUDE:	-73.165238°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	660 FT
CURRENT ZONING:	M-2
JURISDICTION:	TOWN OF SOUTHBURY
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CROWN ATLANTIC CO LLC 4017 WASHINGTON RD P M BOX 353 MCMURRAY, PA 15317
TOWER OWNER:	CROWN CASTLE USA 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	T-MOBILE 35 GRIFFIN ROAD BLOOMFIELD, CT 06002
ELECTRIC PROVIDER:	ITRON INC (203) 874-9381
TELCO PROVIDER:	NOT PROVIDED

PROJECT TEAM

A&E FIRM:	CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317 CROWNAE.APPROVAL@CROWNCASTLE.COM
CROWN CASTLE USA INC. DISTRICT CONTACTS:	1500 CORPORATE DRIVE CANONSBURG, PA 15317
	JOSEPH CLARK - PROJECT MANAGER JOSEPH.CLARK@CROWNCASTLE.COM
	JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCASTLE.COM

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	OVERALL SITE PLAN
C-1.2	SITE PLAN & ENLARGED SITE PLAN
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	ANTENNA & CABLE SCHEDULE
C-4	PLUMBING DIAGRAM
C-5	EQUIPMENT SPECS
C-6	EQUIPMENT SPECS
C-7	GENERATOR DETAILS
E-1	AC PANEL SCHEDULES & ONE LINE DIAGRAM
E-2	DC GENERATOR ONE LINE DIAGRAM
G-1	ANTENNA GROUNDING DIAGRAM
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
ATTACHED	MOUNT SPECS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24X36. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION

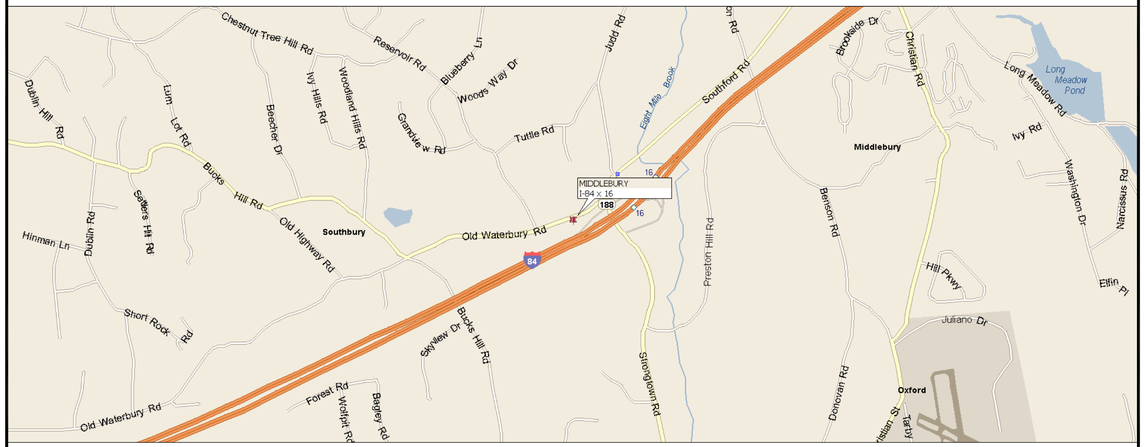
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
- REMOVE (6) ANTENNAS
- REMOVE (3) TMAs
- INSTALL (9) ANTENNAS
- INSTALL (9) RRHs
- INSTALL (2) 1-5/8" HYBRID CABLES

GROUND SCOPE OF WORK:
- REMOVE (1) DUL20
- REMOVE (12) CABINET RADIOS
- INSTALL (1) 6160 CABINET
- INSTALL (1) B160 BATTERY CABINET
- INSTALL (5) BB 6630
- INSTALL (1) BB 6648
- INSTALL (1) IXRe ROUTER
- UPGRADE CABINET BREAKER TO 150A
- UPGRADE BREAKER PANEL FROM 100A TO 200A
- INSTALL 6'x4' PAD EXTENSION

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

LOCATION MAP



NO SCALE

APPLICABLE CODES/REFERENCE DOCUMENTS

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

CODE TYPE	CODE
BUILDING	2018 CT STATE BUILDING CODE
MECHANICAL	2018 CT STATE BUILDING CODE
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	BLACK & VEATCH
DATED:	7/7/20
MOUNT MODIFICATION:	POWER OF DESIGN
DATED:	6/30/20
RFDS REVISION:	4
DATED:	5/19/20
ORDER ID:	524459
REVISION:	0

CALL CONNECTICUT ONE CALL
(800) 922-4455 CBYD.COM
CALL 2 WORKING DAYS BEFORE YOU DIG!

APPROVALS

APPROVAL	SIGNATURE	DATE
PROPERTY OWNER OR REP.		
LAND USE PLANNER		
T-MOBILE		
OPERATIONS		
RF		
NETWORK		
BACKHAUL		
CONSTRUCTION MANAGER		

THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

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

T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/21/20	JJD	CONSTRUCTION	RMC
1	8/12/20	JJD	CONSTRUCTION	MTJ
2	8/31/20	MLC	CONSTRUCTION	RMC
3	10/1/20	MLC	CONSTRUCTION	MTJ

STATE OF CONNECTICUT
31627
LICENSED PROFESSIONAL ENGINEER
10/1/20

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

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

SHEET NUMBER: T-1
REVISION: 3

142310.002.01_806358_NHV 109 943107_CDs.dwg – Sheet:T-1 – User: mjones – Oct 01, 2020 – 10:27am

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" 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: T–MOBILE
   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 "T–MOBILE".
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	CO

SITE PLAN DISCLAIMER:

PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS. CROWN CASTLE USA INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET



1 OVERALL SITE PLAN
SCALE: 30' 15' 0 30' 1"=30'-0" (FULL SIZE) 1"=60'-0" (11x17)

N

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

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

T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/21/20	JJD	CONSTRUCTION	RMC
1	8/12/20	JJD	CONSTRUCTION	MTJ
2	8/31/20	MLC	CONSTRUCTION	RMC
3	10/1/20	MLC	CONSTRUCTION	MTJ

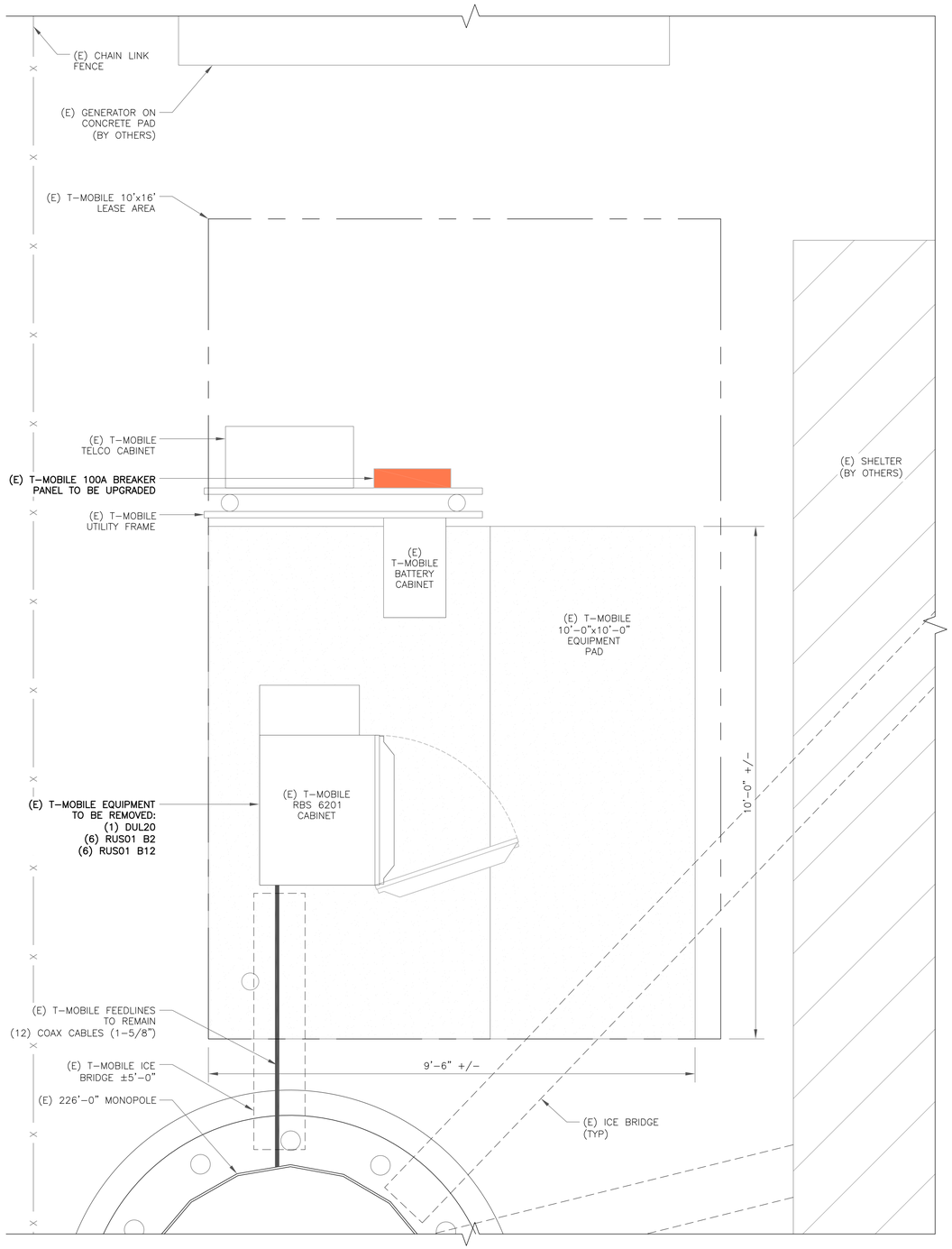
STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER
10/1/20

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

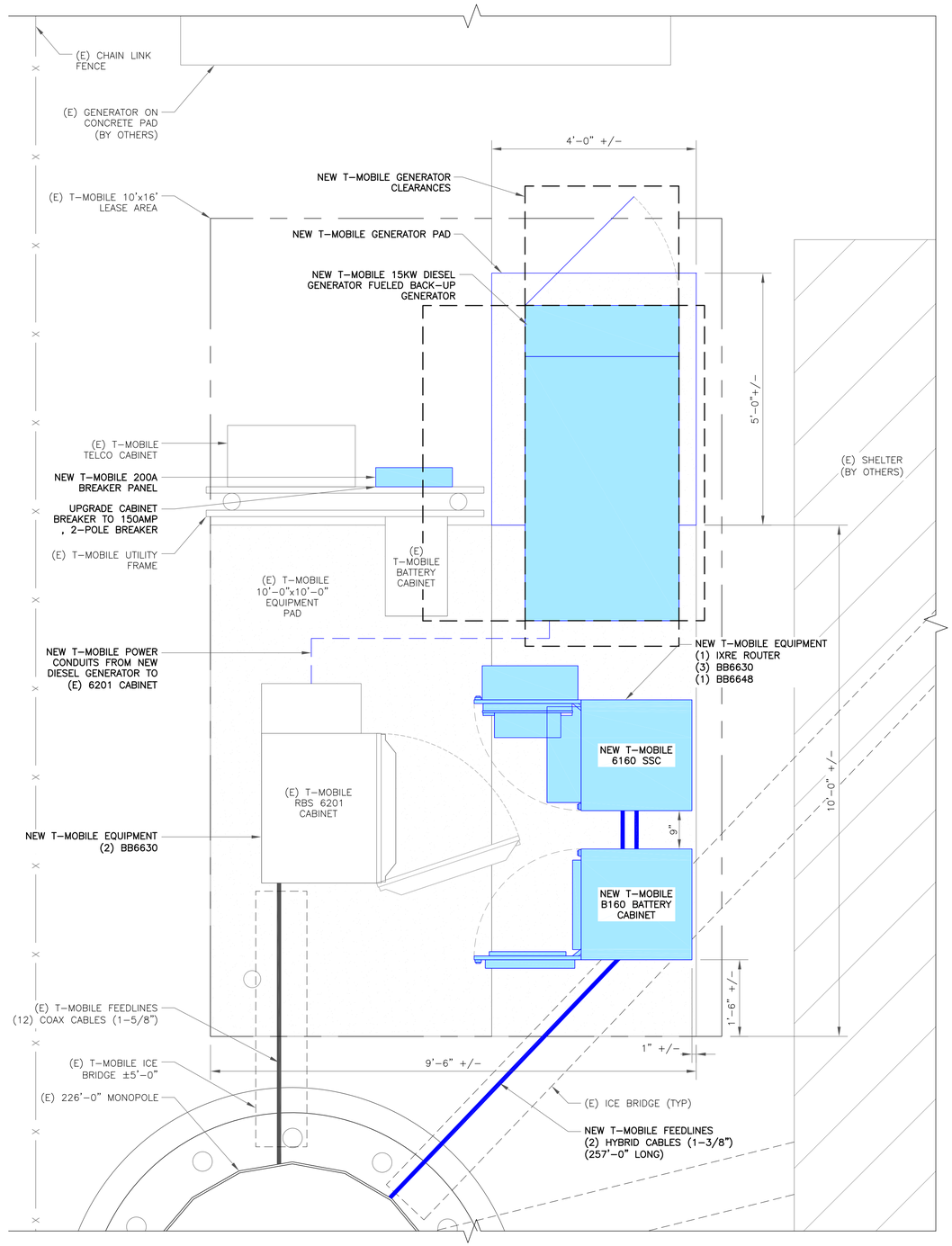
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: C-1.1
REVISION: 3

142310.002.01_806358_NHV 109 943107_CDs.dwg – Sheet:C-1.1 – User: mjones – Oct 01, 2020 – 10:28am



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



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

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ISSUED FOR:

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1	8/12/20	JJD	CONSTRUCTION	MTJ
2	8/31/20	MLC	CONSTRUCTION	RMC
3	10/1/20	MLC	CONSTRUCTION	MTJ

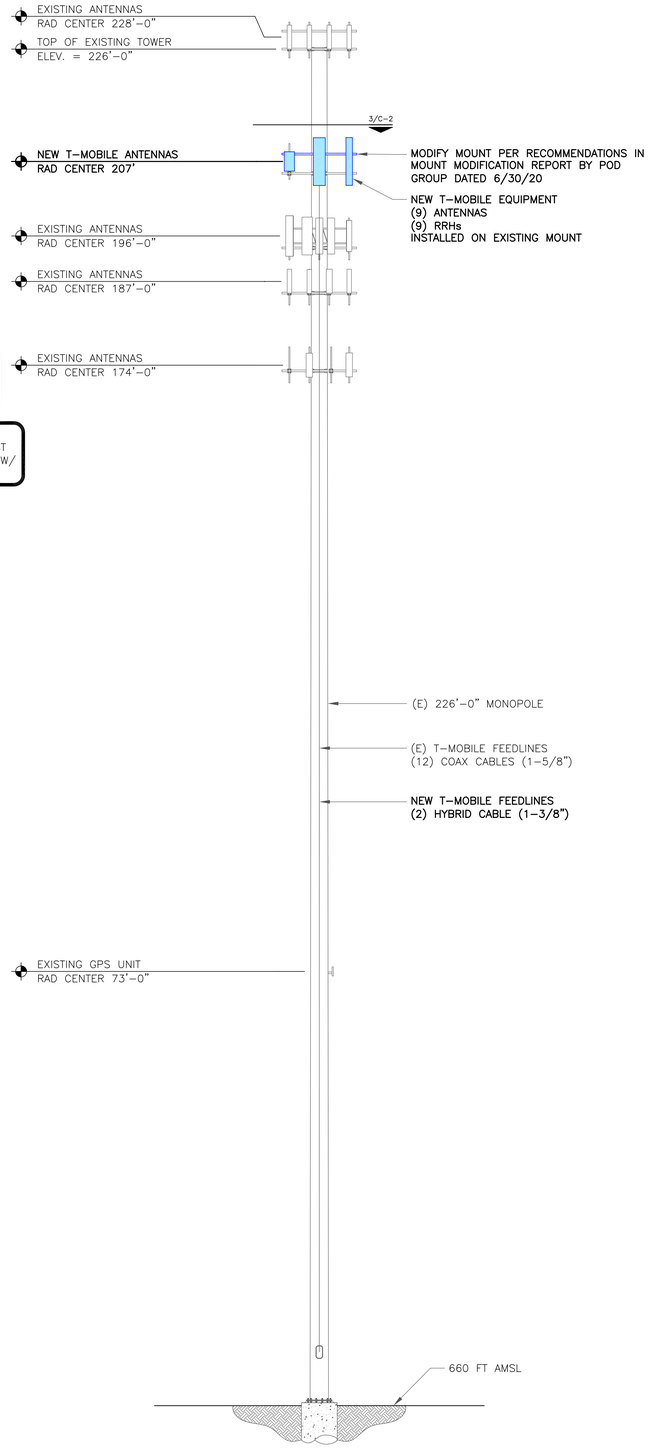
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31627
LICENSED PROFESSIONAL ENGINEER
10/1/20

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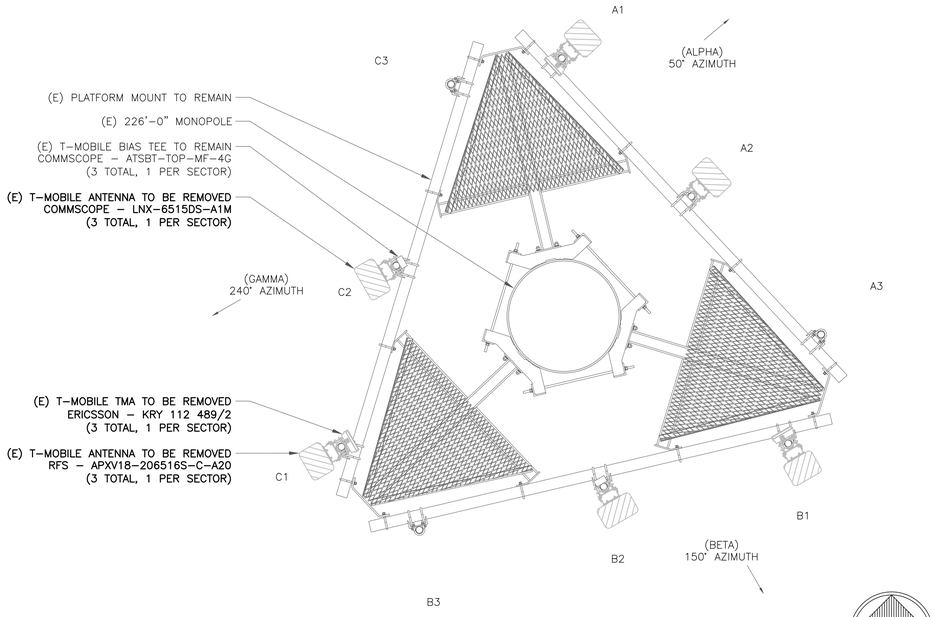
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SHEET NUMBER: C-1.2
REVISION: 3

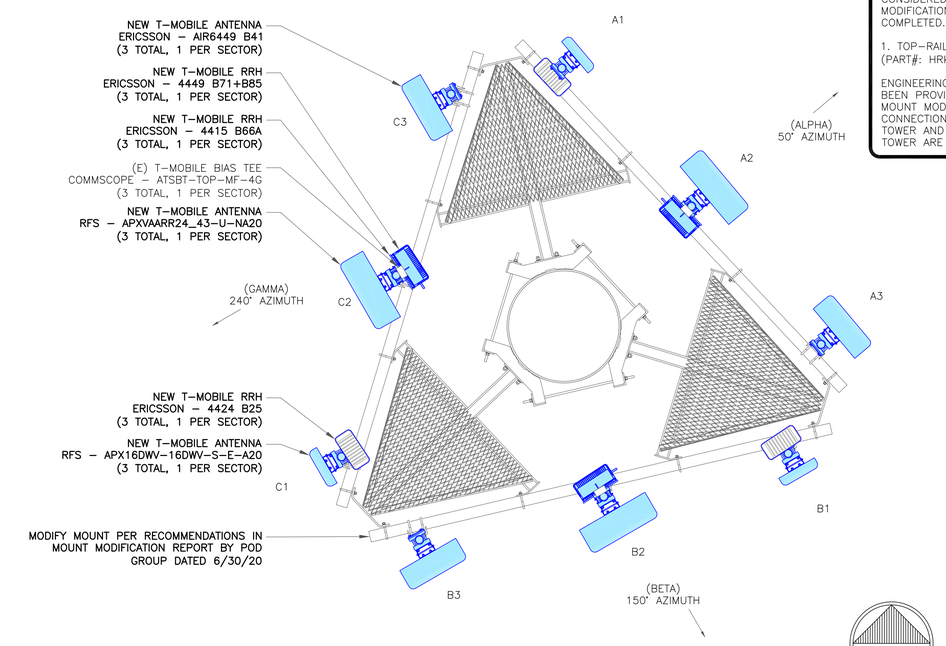
142310.002.01_806358_NHV 109 943107_CDs.dwg – Sheet:C-1.2 – User: mjones – Oct 01, 2020 – 10:29am



1 FINAL ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA LAYOUT
SCALE: NOT TO SCALE



3 FINAL ANTENNA LAYOUT
SCALE: NOT TO SCALE

NOTE: THE MOUNT HAS SUFFICIENT CAPACITY TO CARRY THE PROPOSED LOADING CONFIGURATION. IN ORDER FOR THE RESULTS OF THE ANALYSIS TO BE CONSIDERED VALID, THE STRUCTURAL MODIFICATIONS LISTED BELOW MUST BE COMPLETED.

1. TOP-RAIL KIT, SITEPRO1 HANDRAIL KIT (PART#: HRK12-HD)

ENGINEERING DETAIL DRAWINGS HAVE BEEN PROVIDED IN APPENDIX E - MOUNT MODIFICATION DESIGN DRAWINGS. CONNECTION FROM THE MOUNT TO THE TOWER AND LOCAL STRESSES ON THE TOWER ARE SUFFICIENT.

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T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

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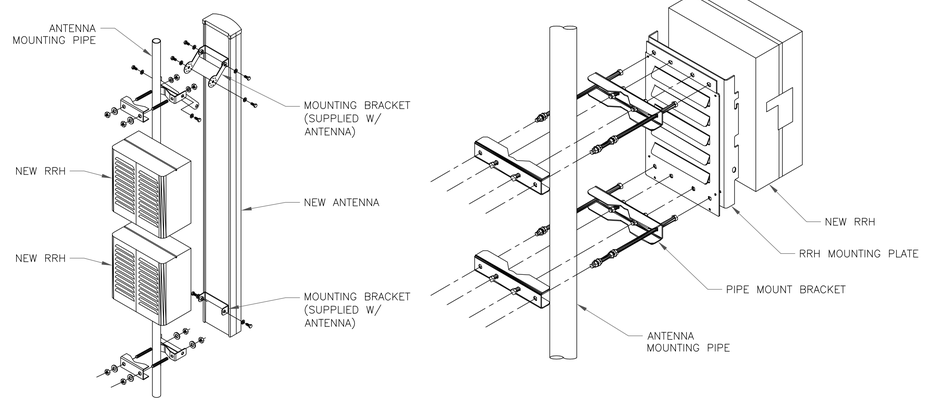
ANTENNA SCHEDULE

SECTOR	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	MECH. TILT	ELECT. TILT	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A1	G1900/L1900	207'	50°	RFS/CELWAVE	APX16DWV-16DWV-S-E-A20	0°	2°/2°	4424 B25	(1) 1-5/8" HYBRID
ALPHA	A2	L700/L600/N600 L2100	207'	50°	RFS/CELWAVE	APXVAARR24_43-U-NA20	0°	2°/2°	4449 B71+B85 4415 B66A	(SHARED) 1-5/8" HYBRID
ALPHA	A3	L2500/N2500	207'	50°	ERICSSON	AIR6449 B41	0°	2°	–	(1) 1-5/8" HYBRID
BETA	B1	G1900/L1900	207'	150°	RFS/CELWAVE	APX16DWV-16DWV-S-E-A20	0°	2°/2°	4424 B25	(SHARED) 1-5/8" HYBRID
BETA	B2	L700/L600/N600 L2100	207'	150°	RFS/CELWAVE	APXVAARR24_43-U-NA20	0°	2°/2°	4449 B71+B85 4415 B66A	(SHARED) 1-5/8" HYBRID
BETA	B3	L2500/N2500	207'	150°	ERICSSON	AIR6449 B41	0°	2°	–	(SHARED) 1-5/8" HYBRID
GAMMA	C1	G1900/L1900	207'	240°	RFS/CELWAVE	APX16DWV-16DWV-S-E-A20	0°	2°/2°	4424 B25	(SHARED) 1-5/8" HYBRID
GAMMA	C2	L700/L600/N600 L2100	207'	240°	RFS/CELWAVE	APXVAARR24_43-U-NA20	0°	2°/2°	4449 B71+B85 4415 B66A	(SHARED) 1-5/8" HYBRID
GAMMA	C3	L2500/N2500	207'	240°	ERICSSON	AIR6449 B41	0°	2°	–	(SHARED) 1-5/8" HYBRID

1 ANTENNA AND CABLE SCHEDULE
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.



2 ANTENNA WITH RRHs MOUNTING DETAIL
SCALE: NOT TO SCALE

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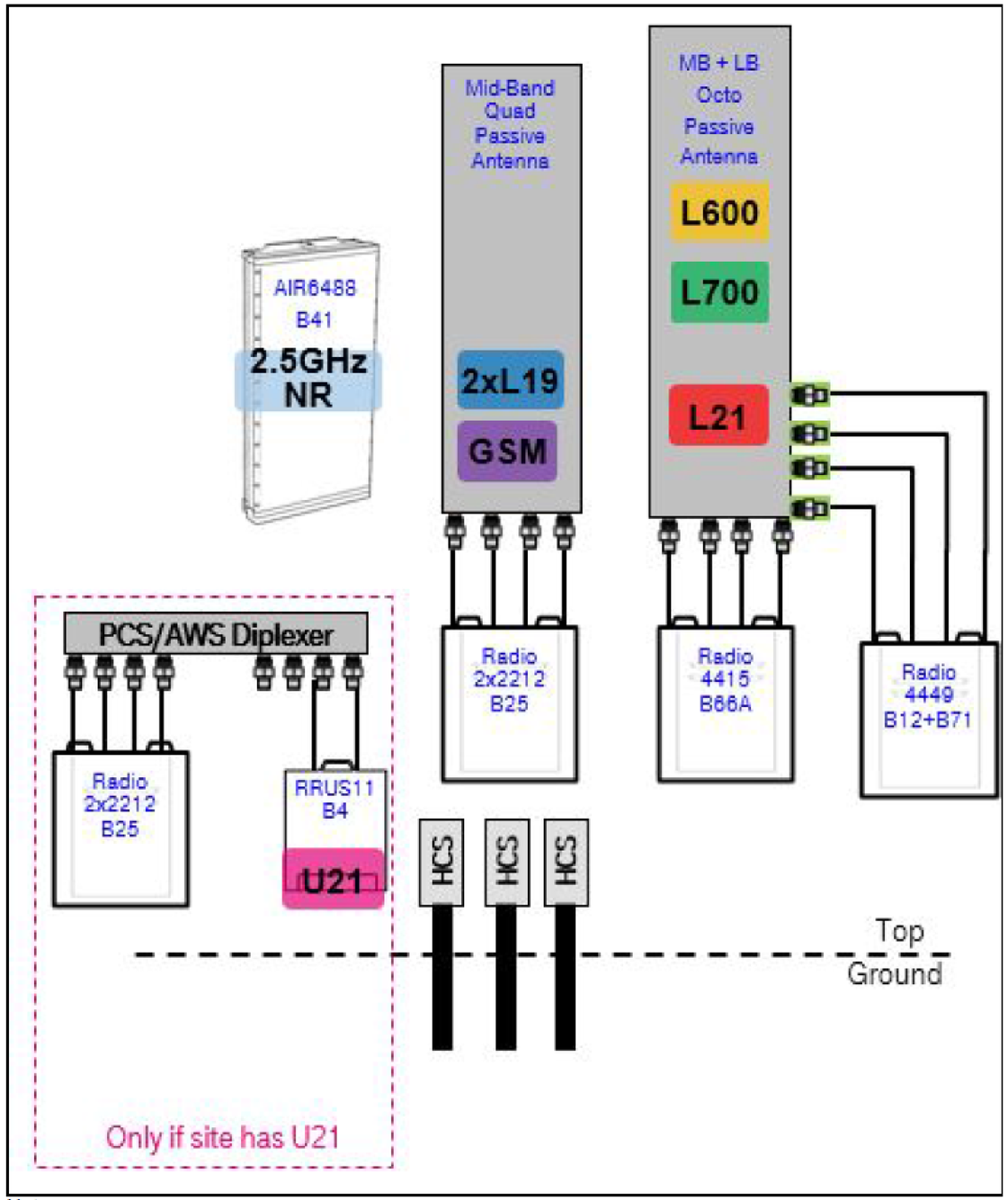
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1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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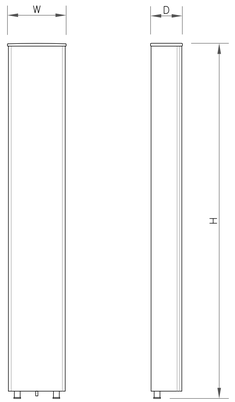
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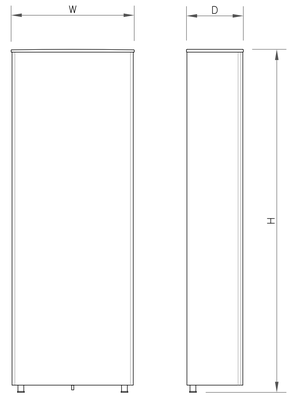
SHEET NUMBER: C-4
REVISION: 3

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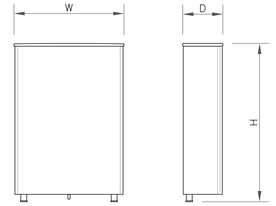
ANTENNA SPECS	
MANUFACTURER	RFS
MODEL #	APX16DWV-16DWV-S-E-A20
WIDTH	13.00"
DEPTH	3.15"
HEIGHT	55.90"
WEIGHT	40.70 LBS

1 ANTENNA SPECS
SCALE: NOT TO SCALE



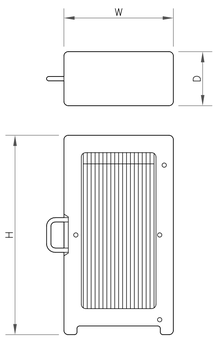
ANTENNA SPECS	
MANUFACTURER	RFS
MODEL #	APXVAARR24_43-U-NA20
WIDTH	24"
DEPTH	8.7"
HEIGHT	95.9"
WEIGHT	153.3 LBS

2 ANTENNA SPECS
SCALE: NOT TO SCALE



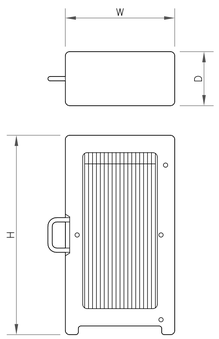
ANTENNA SPECS	
MANUFACTURER	ERICSSON
MODEL #	AIR6449 B41
WIDTH	20.60"
DEPTH	8.60"
HEIGHT	33.10"
WEIGHT	104 LBS

3 ANTENNA SPECS
SCALE: NOT TO SCALE



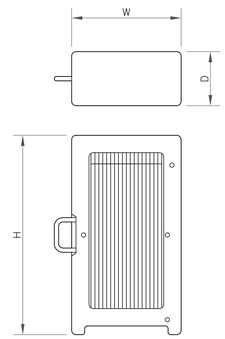
RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	4415 B66A
WIDTH	13.20
DEPTH	5.4"
HEIGHT	14.9"
WEIGHT	46.3 LBS

4 RRU SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	4424 B25
WIDTH	13.50"
DEPTH	9.60"
HEIGHT	16.50"
WEIGHT	88 LBS

5 RRU SPECS
SCALE: NOT TO SCALE



RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	4449 B71+B85
WIDTH	13.20"
DEPTH	10.63"
HEIGHT	17.91"
WEIGHT	73.2 LBS

6 RRU SPECS
SCALE: NOT TO SCALE

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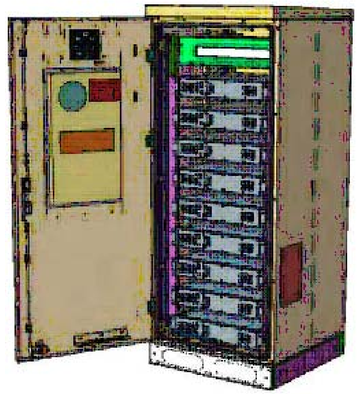
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CABINET SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	6160
WIDTH	25.6"
DEPTH	33.5"
HEIGHT	63"
WEIGHT	60 LBS

1 ERICSSON 6160 SSC
SCALE: NOT TO SCALE



CABINET SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	B160
WIDTH	26"
DEPTH	26"
HEIGHT	63"
WEIGHT	134 KG

2 ERICSSON B160 BATTERY CABINET
SCALE: NOT TO SCALE

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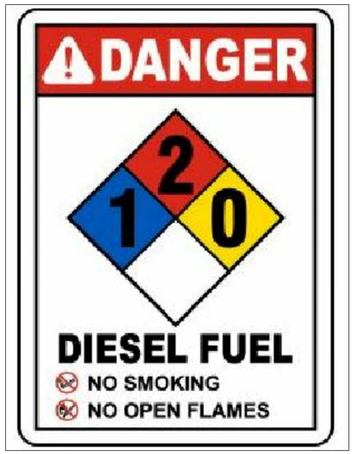
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NEPA 704 HAZARD IDENTIFICATION SYSTEM DIAMOND
10X14 VINYL REFECTIVE ADHESIVE



DIESEL FUEL
COMBUSTIBLE
NO SMOKING
NO OPEN FLAMES
FUEL TANK CAPACITY 54 GALS

(WHITE LETTERING W/ RED & BLACK BACKGROUND) 6X10 REFLECTIVE ADHESIVE

DIESEL (WHITE LETTERING W/ RED BACKGROUND)

COMBUSTIBLE (BLACK LETTERING W/ WHITE BACKGROUND)

FLAMMABLE (BLACK LETTERING W/ WHITE BACKGROUND)

NO SMOKING (BLACK LETTERING W/ WHITE BACKGROUND)

HAZARD RATINGS:

NINE O'CLOCK – HEALTH (BLUE BACKGROUND, BLACK LETTERING)

TWELVE O'CLOCK – FLAMMABILITY (RED BACKGROUND, BLACK LETTERING)

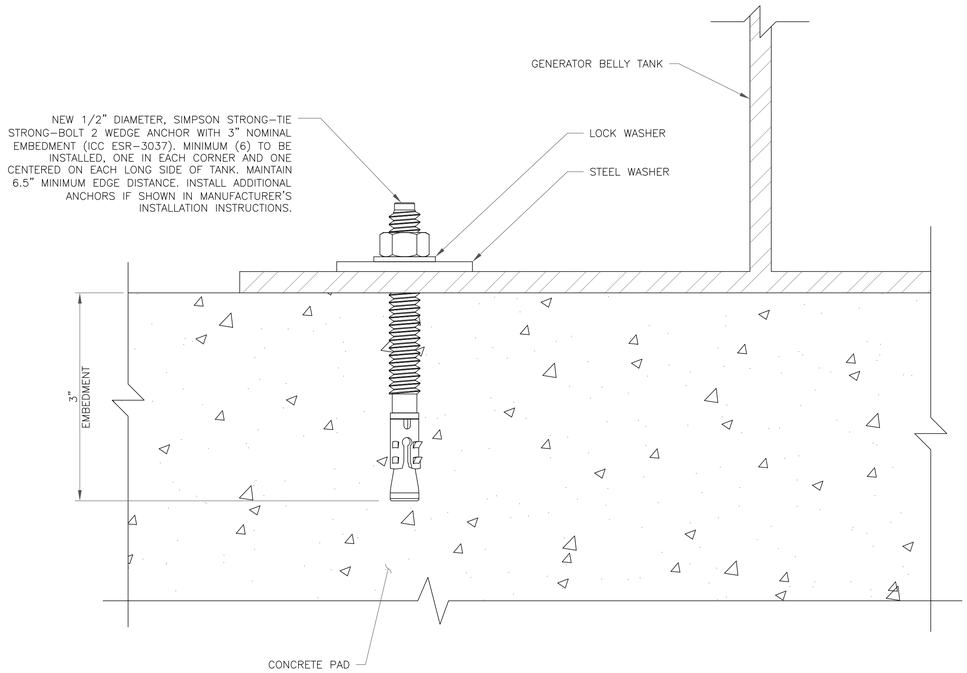
THREE O'CLOCK – INSTABILITY (YELLO BACKGROUND, BLACK LETTERING)

SIX O'CLOCK – SPECIAL (WHITE BACKGROUND, BLACK LETTERING)

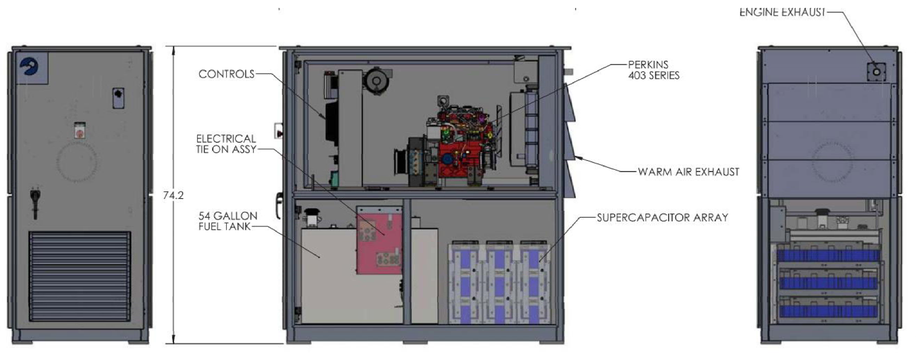
NOTE:

1. SIGNS MUST BE MADE OF DURABLE MATERIAL.
2. LETTERS SHALL NOT BE LESS THAN 1" (76.2mm) MIN. IN HEIGHT & 1/4" (12.7mm) IN STROKE.
3. SIGNS SHALL NOT BE OBSCURED OR REMOVED & SHALL BE IN ENGLISH AS A PRIMARY LANGUAGE.
4. SIGNS TO BE PLACED ON GENERATOR/FUEL TANK PER NEPA 704.
5. CONTRACTOR TO PROVIDE ALL REQUIRED SIGNAGE.

1 GENERATOR SIGN DETAIL
SCALE: NOT TO SCALE

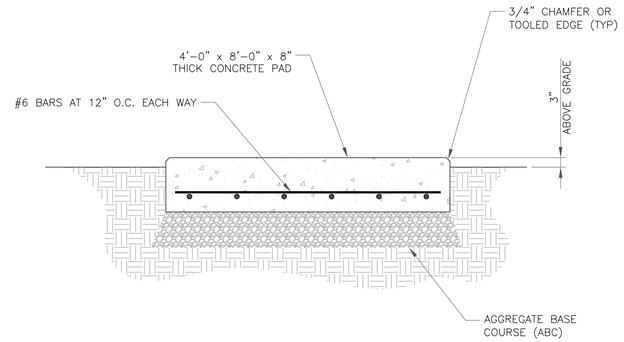


2 GENERATOR ANCHORAGE DETAIL
SCALE: NOT TO SCALE



BACKUP POWER GENERATOR	
EQUIPMENT MAKE: POLAR MODEL: 15 KW DIESEL	DIMENSIONS 74.0"L X 36.1"W x 74.2"H
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH T-MOBILE CONSTRUCTION MANAGER PRIOR TO ORDERING.	

3 BACK-UP GENERATOR DETAIL
SCALE: NOT TO SCALE



NOTES:

1) MINIMUM CONCRETE STRENGTH (f'c) TO BE 4,500 psi UNLESS NOTED OTHERWISE. CONCRETE MIX SHALL BE DESIGNED BY A CERTIFIED LABORATORY. CONCRETE EXPOSED TO FREEZE-THAW CYCLES TO CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F2 CLASS EXPOSURE. CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A WATER-TO-CEMENT RATIO (W/C) NOT TO EXCEED 0.45.

2) CONCRETE PAD SHALL BEAR ON A MINIMUM OF 8" OF AGGREGATE BASE COURSE (ABC) MATERIAL COMPACTED TO 98% OF MAXIMUM DENSITY DETERMINED BY ASTM D1557 (MODIFIED PROCTOR). MATERIAL SHOULD BE WITHIN 3% OF OPTIMUM MOISTURE AT TIME OF COMPACTION.

3) ALL REINFORCING TO MAINTAIN 3" COVER WHEN CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.

4 CONCRETE PAD DETAIL
SCALE: NOT TO SCALE

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SHEET NUMBER: C-7

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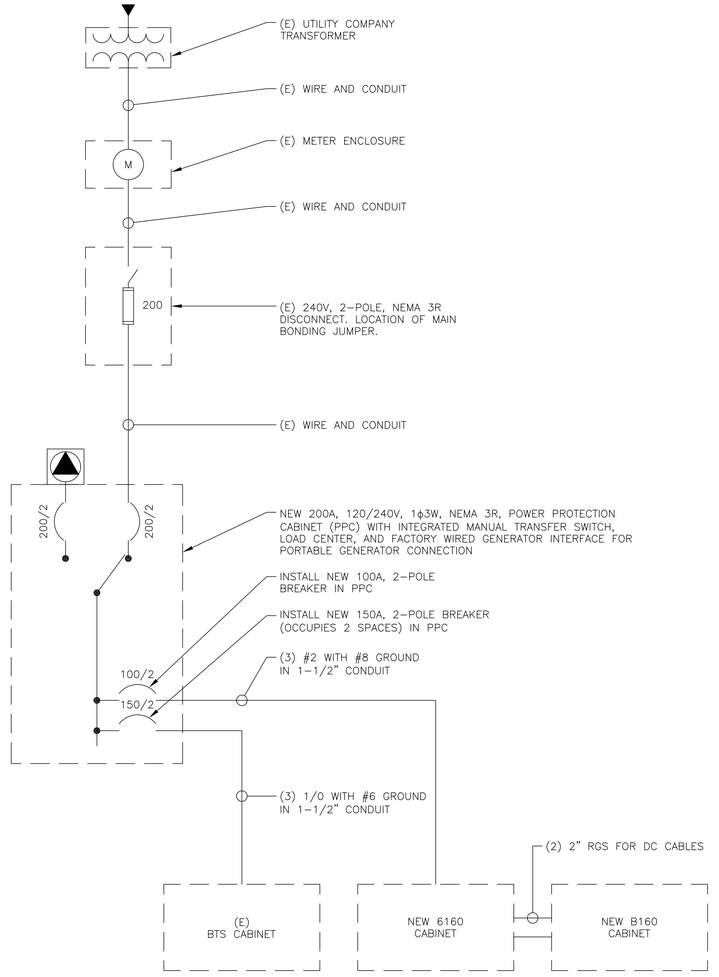
FINAL PANEL SCHEDULE							
LOAD	POLES	AMPS	BUS L1	BUS L2	AMPS	POLES	LOAD
GFCI	1	20A	1	2	150A	2	RBS 6201
6160	2	100A	3	4			
			5	6			
			7	8			
			9	10			
			11	12			
			13	14			
			15	16			

RATED VOLTAGE: ■120/240 ☐_____, 1 PHASE, 3 WIRE	BRANCH POLES: ■16 ☐24 ☐30 ☐42		APPROVED MF'RS
RATED AMPS: ■100 ☐200 ☐400 ☐_____.	CABINET: ■SURFACE ☐FLUSH		NEMA ☐1 ■3R ☐4X
☐MAIN LUGS ONLY ☐MAIN 100 AMPS ■BREAKER ☐FUSED SWITCH	■HINGED DOOR		■KEYED DOOR LATCH
☐FUSED ■CIRCUIT BREAKER BRANCH DEVICES	☐_____ TO BE GFCI BREAKERS	FULL NEUTRAL BUS	GROUND BAR
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL			

EXISTING 100A BREAKER PANEL TO BE REPLACED W/ NEW 200A BREAKER PANEL. SQUARE D P/N: QO12040M200RB (OR APPROVED EQUAL)
REPLACE EXISTING BREAKER IN POSITION 2 AND 4 WITH A NEW 2P 150A BREAKER. INSTALL NEW 2P 100A BREAKER IN 3 AND 5.
REPLACE EXISTING BREAKERS W/ NEW BREAKERS OF SAME AMPERAGE INSIDE NEW PANEL.
REPLACE EXISTING WIRES FOR EXISTING 6201 CABINET WITH (3) 1/0 AWG THWN (COPPER) AND (1) #6G AWG. MINIMUM CONDUIT SIZE TO BE 2".
INSTALL NEW WIRES FOR NEW 6160 CABINET (3) 1/0 AWG THWN (COPPER) AND (1) #6G AWG. MINIMUM CONDUIT SIZE TO BE 2".
UPGRADE FEEDER WIRES TO MEET AMPACITY.
FINAL PANEL DESIGN AND CALCULATIONS FOR WIRE SIZE WERE BASED OFF OF EXISTING PHOTOS

1 FINAL T-MOBILE PANEL DETAIL
SCALE: NOT TO SCALE

1 AC PANEL SCHEDULE
SCALE: NOT TO SCALE



NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.

2 ONE LINE DIAGRAM
SCALE: NOT TO SCALE

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

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

T-MOBILE SITE NUMBER:
CT11127A

BU #: **806358**
NHV 109 943107

1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	7/21/20	JJD	CONSTRUCTION	RMC
1	8/12/20	JJD	CONSTRUCTION	MTJ
2	8/31/20	MLC	CONSTRUCTION	RMC
3	10/1/20	MLC	CONSTRUCTION	MTJ



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

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

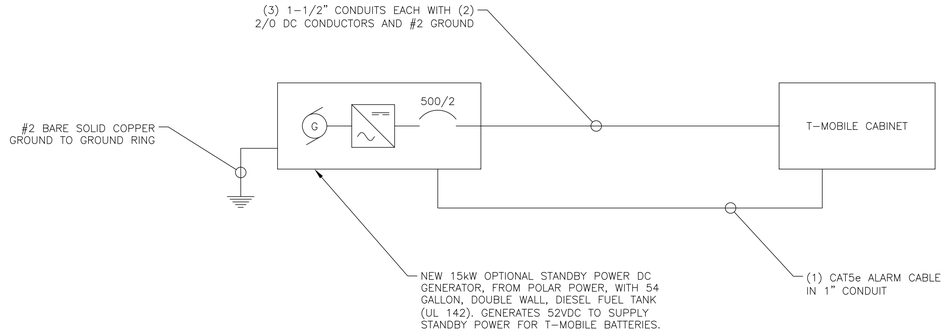
SHEET NUMBER: E-1

REVISION: 3

142310.002.01_806358_NHV 109 943107_CDs.dwg - Sheet:E-1 - User: mjones - Oct 01, 2020 - 10:30am

NOTES:

1. ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 UNLESS NOTED OTHERWISE.
2. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
3. ALL GROUNDING AND BONDING PER THE NEC.



1 DC GENERATOR ONE LINE DIAGRAM
SCALE: NOT TO SCALE

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35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

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3	10/1/20	MLC	CONSTRUCTION	MTJ

STATE OF CONNECTICUT
31627
LICENSED
PROFESSIONAL ENGINEER
10/1/20

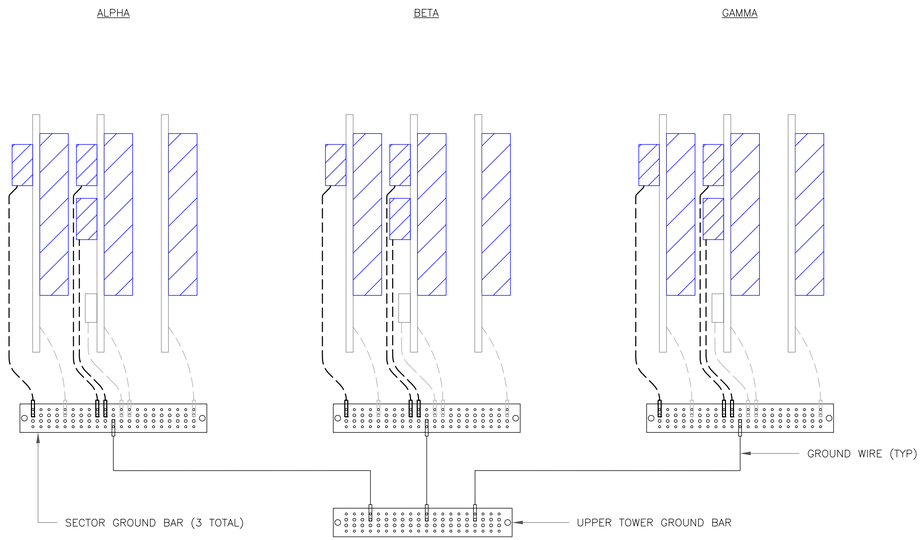
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SHEET NUMBER: E-2

REVISION: 3

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NOTE:

ALL NEW GROUNDS TO BE #6 STRANDED COPPER WITH GREEN INSULATION UNLESS NOTED OTHERWISE.

1 ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

CROWN CASTLE
1500 CORPORATE DRIVE
CANONSBURG, PA 15317

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1717 S. BOULDER
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T-MOBILE SITE NUMBER:
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1432 OLD WATERBURY RD
SOUTHBURY, CT 06488

EXISTING
226'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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1	8/12/20	JJD	CONSTRUCTION	MTJ
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3	10/1/20	MLC	CONSTRUCTION	MTJ

STATE OF CONNECTICUT
31627
LICENSED PROFESSIONAL ENGINEER
10/1/20

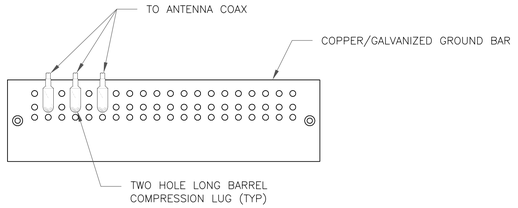
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SHEET NUMBER: G-1

REVISION: 3

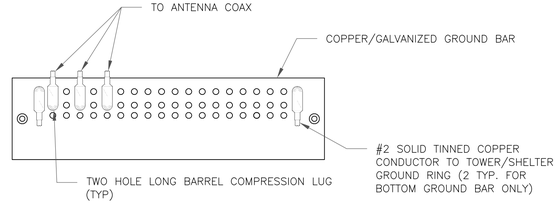
142310.002.01_806358_NHV 109 943107_CDs.dwg – Sheet:G-1 – User: mjones – Oct 01, 2020 – 10:30am



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.

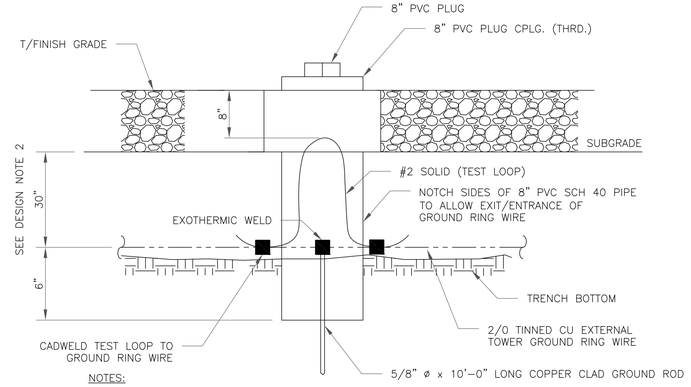
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



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.

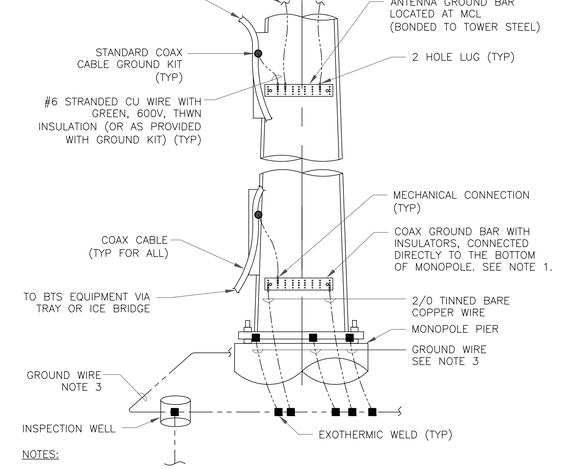
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

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

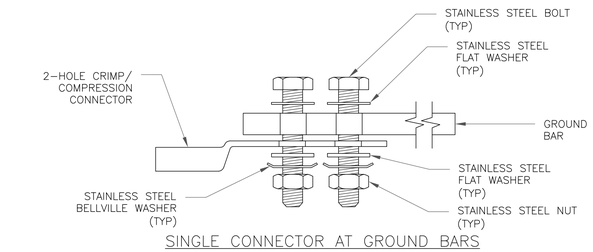
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



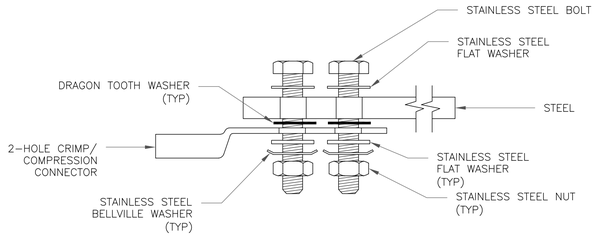
NOTES:

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

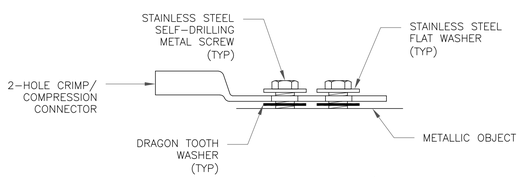
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

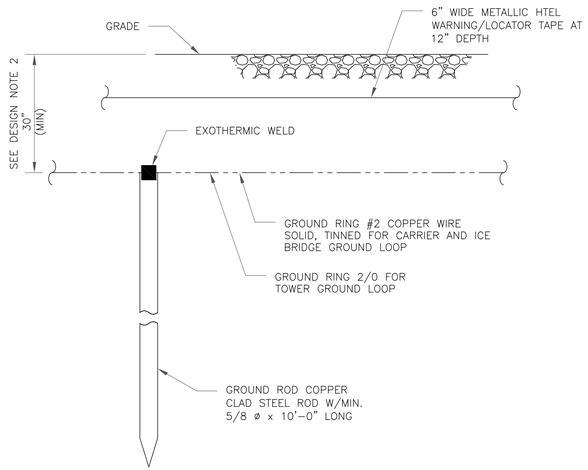


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

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

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

T-Mobile
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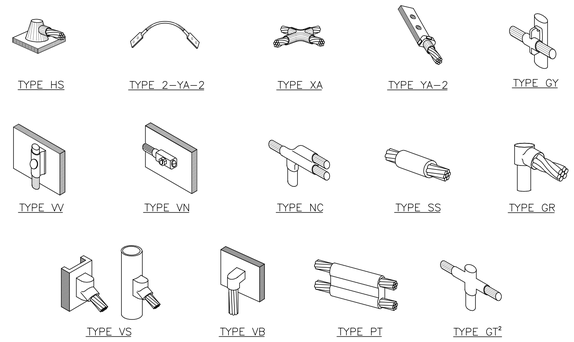


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SHEET NUMBER: G-2
REVISION: 3

142310.002.01_806358_NHV 109 943107_CDs.dwg – Sheet:G-2 – User: mjones – Oct 01, 2020 – 10:31am

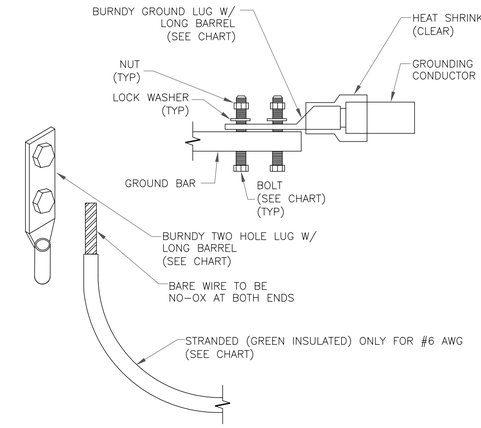


NOTE:

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

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

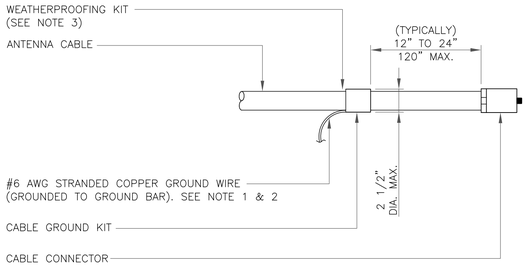
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

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

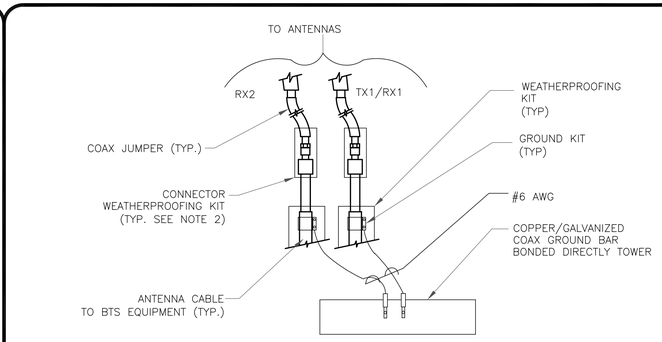
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

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

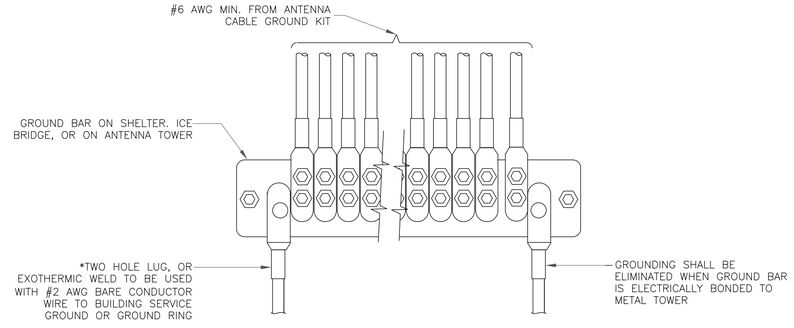
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



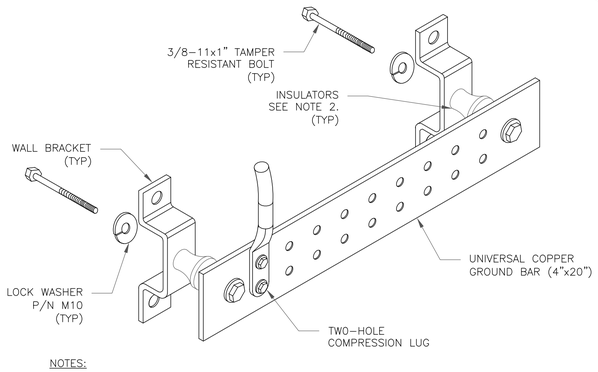
NOTES:

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

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



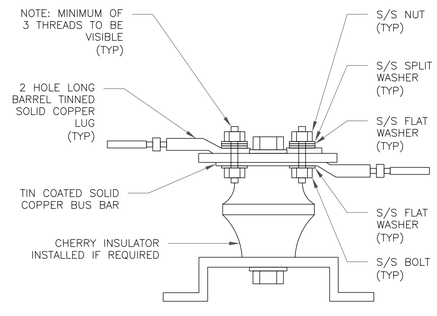
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



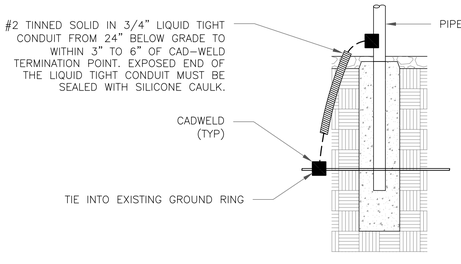
NOTES:

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

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

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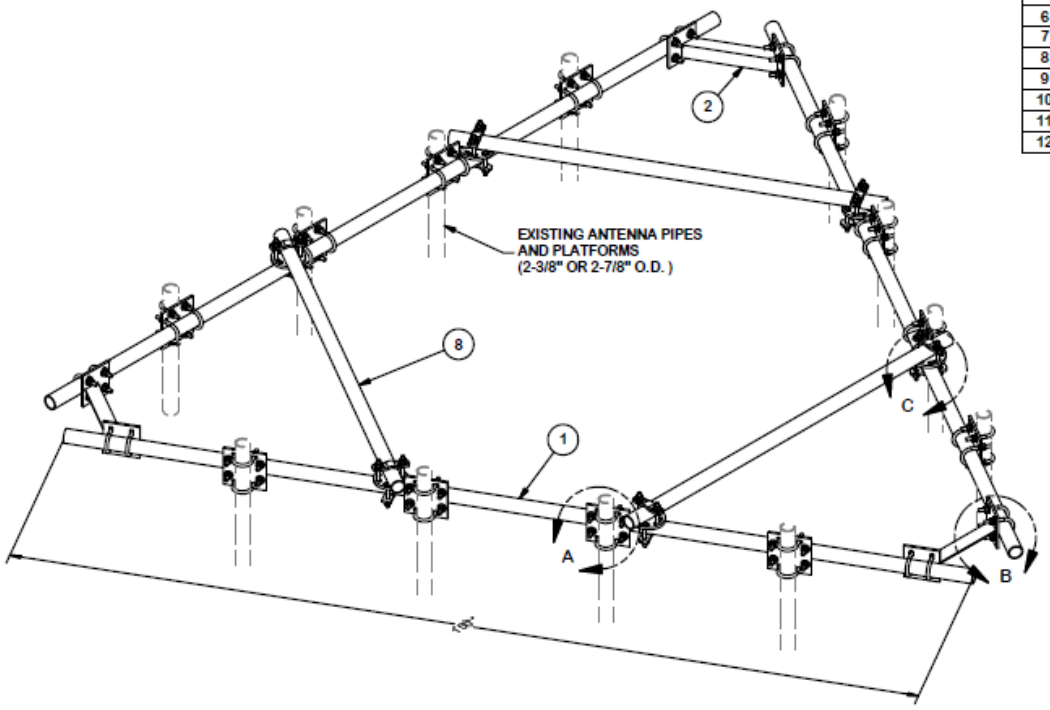
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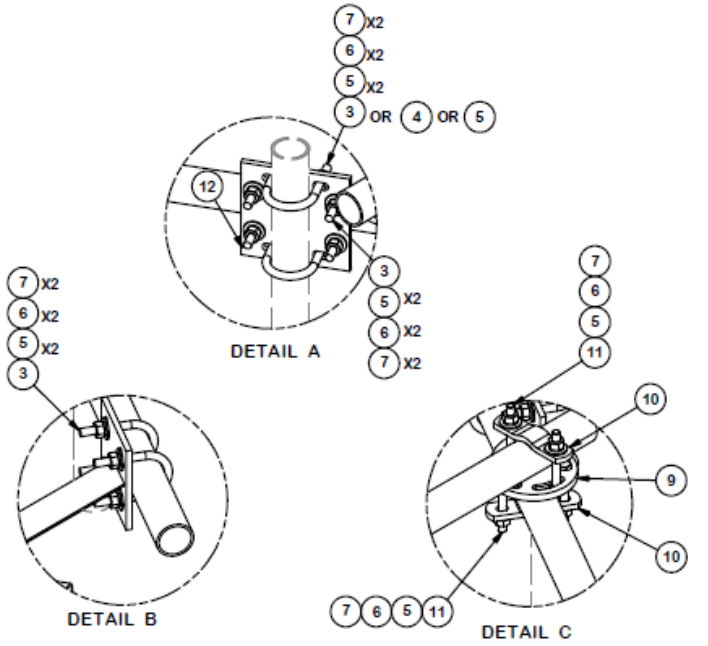
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SHEET NUMBER: G-3
REVISION: 3

142310.002.01_806358_NHV 109 943107_CDs.dwg - Sheet:G-3 - User: mjones - Oct 01, 2020 - 10:31am

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2150	2-3/8" OD X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	15.42
4	24	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.26	6.17
5	144	G12FW	1/2" HDG USS FLATWASHER		0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER		0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P272	2-3/8" X 72" SCH 40 GALVANIZED PIPE	72 in	23.07	69.20
9	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.48	14.90
10	12	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	10.95
11	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
					TOTAL WT. #	406.61





TOLERANCE NOTES

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

PROPRIETARY NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION
HEAY DUTY HANDRAIL KIT
FOR 12' PLATFORMS WITH
2-3/8" OR 2-7/8" ANTENNA PIPES

SITE PRO 1
A valmont COMPANY
Engineering Support Team: 1-888-753-7446
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 3/31/2015		HRK12-HD

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	BMC 3/31/2015	HRK12-HD

Exhibit D

Structural Analysis Report

Date: **July 07, 2020**

Denice Nicholson
Crown Castle
3 Corporate Dr
Clifton Park, NY 12065

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

Subject:	**Structural Analysis Report**	
Carrier Designation:	***T-Mobile* Co-Locate**	
	Carrier Site Number:	CT11127A
	Carrier Site Name:	Middlebury/ I-84 X16
Crown Castle Designation:	**Crown Castle BU Number:**	806358
	Crown Castle Site Name:	NHV 109 943107
	Crown Castle JDE Job Number:	614600
	Crown Castle Work Order Number:	1860417
	Crown Castle Order Number:	524459 Rev. 0
Engineering Firm Designation:	**Black & Veatch Corp. Project Number:**	400087
Site Data:	**1432 Old Waterbury Road, Southbury, New Haven County, CT** **Latitude *41° 29' 36.92"*, Longitude *-73° 9' 54.98"*** **225.79 Foot - Monopole Tower**	

Dear Denice Nicholson,

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

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

LC7: Proposed Equipment Configuration **Sufficient Capacity – 61.2%**

This analysis utilizes an ultimate 3-second gust wind speed of 120 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: Nannapas Jitmanasumpune / Thunwa Chalermyan

Respectfully submitted by:



Joshua J. Riley, P.E.
Professional Engineer

07/07/2020

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1) INTRODUCTION

This tower is a 225.78 ft Monopole tower designed by Engineered Endeavors, Inc.

The tower has been modified multiple times in the past to accommodate additional loading.

The tower has been modified per reinforcement drawings by Vertical Structures Inc. in January of 2007. Reinforcement consists of addition of 28 base plate stiffeners. Refer to Post Rework Inspection Report by Vertical Structures Inc. This modification has been considered effective in this analysis.

The tower was later reinforced per reinforcement drawings by Tower Engineering Professionals. in March of 2013. Reinforcement consists of addition of flat plates at flats 1,7 and 13 between the elevation 124' to 134'. Refer to Post Modification Inspection Report by Tower Engineering Professionals. This modification has been considered ineffective in this analysis.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
207.0	207.0	1	cci tower mounts (v2.1)	Platform Mount [10.8' LP 712-1]	14	1-5/8
		1	site pro 1	Handrail Kit [HRK12-HD]		
		3	commscope	ATSBT-TOP-MF-4G		
		3	ericsson	AIR6449 B41 w/ Mount Pipe		
		3	ericsson	RADIO 4415 B66A_CCIV3		
		3	ericsson	RADIO 4424		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	rfs celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe		
		3	rfs celwave	APXVAARR24_43-U-NA20_ T-MOBILE w/ Mount Pipe		

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)
228.0	229.0	3	alcatel lucent	B13 RRH 4X30	14	1-5/8
		3	alcatel lucent	B4 RRH2X60-4R		
		6	antel	LPA-80080/6CF w/ Mount Pipe		
		6	commscope	SBNHH-1D65B w/ Mount Pipe		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		2	raycap	RRFDC-3315-PF-48		
		12	rfs celwave	FD9R6004/2C-3L		
	228.0	1	cci tower mounts (v2.1)	Platform Mount (10' LP 101-1)		
		1	cci tower mounts (v2.1)	Side Arm Mount [SO 203-3]		
193.0	195.0	3	cci antennas	DTMABP7819VG12A	2 6 12 1	3/8 5/8 1-1/4 2”conduit
		3	cci antennas	OPA-65R-LCUU-H6 w/ Mount Pipe		
		3	cci antennas	OPA65R-BU6D w/ Mount Pipe		
		3	ericsson	RRUS 11 B12		
		3	ericsson	RRUS 32 B2_CCIV2		
		3	ericsson	RRUS 4426 B66		
		3	ericsson	RRUS 4478 B14_CCIV2		
		3	ericsson	WCS RRUS-32-B30		
		3	kaelus	DBC0061F1V51-2		
		3	kathrein	800 10121 w/ Mount Pipe		
		3	kathrein	80010798 w/ Mount Pipe		
		6	kathrein	860 10025		
		3	raycap	DC6-48-60-18-8F		
	193.0	1	sabre	C10857333C [SM 504-3]		
185.0	187.0	3	decibel	978QNB120E-M w/ Mount Pipe	1 6	1/2 1-5/8
		6	ems wireless	FV90-16-02DP w/ Mount Pipe		
		3	nokia	CS72993.07		
		3	rfs celwave	APXV18-206517S-C w/ Mount Pipe		
	185.0	1	cci tower mounts (v2.1)	Platform Mount [LP 712-1]		
173.0	173.0	3	alcatel lucent	1900MHz RRH (65MHz)	-	-
		3	alcatel lucent	800 EXTERNAL NOTCH FILTER		
		3	alcatel lucent	800MHZ RRH		
		1	cci tower mounts (v2.1)	Side Arm Mount [SO 102-3]		
		9	rfs celwave	ACU-A20-N		
172.0	174.0	3	alcatel lucent	TD-RRH8x20-25	4	1-1/4
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
	172.0	1	cci tower mounts (v2.1)	Platform Mount [LP 1201-1]		
72.0	73.0	1	gps	GPS_A	1	1/2
	72.0	1	cci tower mounts (v2.1)	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	East Coast Drilling & Boring Inc.	217688	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Engineered Endeavours Inc.	821496	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Engineered Endeavours Inc.	821494	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	Vertical Structures Inc.	1276594	CCISITES
4-POST-MODIFICATION INSPECTION	Vertical Structures Inc.	1863184	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	Vertical Structures Inc.	4062841	CCISITES
4-POST-MODIFICATION INSPECTION	Tower Engineering Professionals.	4062849	CCISITES

3.1) Analysis Method

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

3.2) Assumptions

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

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

4) ANALYSIS RESULTS

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

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	225.79 - 197.75	Pole	TP28.6563x21.5x0.1875	1	-8.25	1002.63	35.3	Pass
L2	197.75 - 162.72	Pole	TP37.0938x27.24x0.375	2	-26.12	2589.87	40.7	Pass
L3	162.72 - 120.09	Pole	TP47.1563x35.0487x0.4375	3	-40.02	3846.79	51.7	Pass
L4	120.09 - 78.99	Pole	TP56.6563x44.6617x0.5	4	-57.65	5287.57	51.9	Pass
L5	78.99 - 38.92	Pole	TP65.7813x53.7418x0.5625	5	-79.94	6910.70	49.3	Pass
L6	38.92 - 0	Pole	TP74.5x62.453x0.5625	6	-111.27	8108.48	52.9	Pass
							Summary	
						Pole (L6)	52.9	Pass
						Rating =	52.9	Pass

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

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	54.4	Pass
	Base Plate		35.5	Pass
	Base Plate Stiffener		40.2	Pass
1,2	Base Foundation (Compared w/ Design Loads)	0	61.2	Pass

Structure Rating (max from all components) =	61.2%

Notes:
1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
2) Foundation capacity determined by comparing analysis reactions to original design reactions.

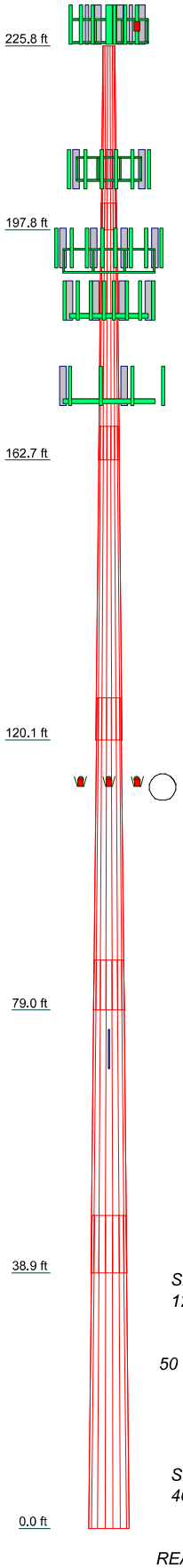
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	28.04	18	0.1875	4.08	21.5000	28.6563		1.4
2	39.11	18	0.3750	5.14	27.2400	37.0938		5.0
3	47.77	18	0.4375	6.39	35.0487	47.1563		9.2
4	47.49	18	0.5000	7.58	44.6617	56.6563		12.9
5	47.65	18	0.5625	8.72	53.7418	65.7813		17.1
6	47.64	18	0.5625		62.4530	74.5000		19.7
							A572-65	65.3



ALL REACTIONS ARE FACTORED

AXIAL 174 K

SHEAR 12 K *MOMENT 2078 kip-ft*

TORQUE 1 kip-ft
50 mph WIND - 1.5000 in ICE

AXIAL 111 K

SHEAR 46 K *MOMENT 7323 kip-ft*

TORQUE 4 kip-ft
REACTIONS - 120 mph WIND

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	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 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 52.9%

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Black & Veatch Corp.
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Overland Park, KS 66211
Phone: (913) 458-6909
FAX:

Job: *NHV 109 943107 (BU# 806358)*			
Project: *400087 (806358.1860417)*			
Client: Crown Castle	Drawn by: Thunwa Chalermyan	App'd:	
Code: TIA-222-H	Date: 07/07/20	Scale: NTS	
Path:		Dwg No. E-1	

Tower Input Data

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

1) Tower is located in New Haven County, Connecticut.
2) Tower base elevation above sea level: 666.00 ft.
3) Basic wind speed of 120 mph.
4) Risk Category II.
5) Exposure Category B.
6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
7) Topographic Category: 1.
8) Crest Height: 0.00 ft.
9) Nominal ice thickness of 1.5000 in.
10) Ice thickness is considered to increase with height.
11) Ice density of 56 pcf.
12) A wind speed of 50 mph is used in combination with ice.
13) Temperature drop of 50 °F.
14) Deflections calculated using a wind speed of 60 mph.
15) A non-linear (P-delta) analysis was used.
16) Pressures are calculated at each section.
17) Stress ratio used in pole design is 1.05.
18) Tower analysis based on target reliabilities in accordance with Annex S.
19) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
20) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Tapered Pole Section Geometry

Section	*Elevation*	*Section Length*	*Splice Length*	*Number of Sides*	*Top Diameter*	*Bottom Diameter*	*Wall Thickness*	*Bend Radius*	*Pole Grade*
	ft	*ft*	*ft*		*in*	*in*	*in*	*in*	
L1	225.79-197.75	28.04	4.08	18	21.5000	28.6563	0.1875	0.7500	A572-65 (65 ksi)

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
L2	197.75-162.72	39.11	5.14	18	27.2400	37.0938	0.3750	1.5000	A572-65 (65 ksi)
L3	162.72-120.09	47.77	6.39	18	35.0487	47.1563	0.4375	1.7500	A572-65 (65 ksi)
L4	120.09-78.99	47.49	7.58	18	44.6617	56.6563	0.5000	2.0000	A572-65 (65 ksi)
L5	78.99-38.92	47.65	8.72	18	53.7418	65.7813	0.5625	2.2500	A572-65 (65 ksi)
L6	38.92-0.00	47.64		18	62.4530	74.5000	0.5625	2.2500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	21.8027	12.6836	727.8616	7.5659	10.9220	66.6418	1456.6810	6.3430	3.4540	18.421
	29.0694	16.9425	1734.8057	10.1064	14.5574	119.1702	3471.8941	8.4728	4.7135	25.139
L2	28.6462	31.9760	2915.6455	9.5371	13.8379	210.6999	5835.1275	15.9911	4.1342	11.025
	37.6081	43.7045	7444.5646	13.0352	18.8436	395.0707	14898.9250	21.8564	5.8685	15.649
L3	36.8448	48.0620	7274.0008	12.2870	17.8048	408.5427	14557.5728	24.0356	5.3986	12.34
	47.8162	64.8748	17889.4123	16.5852	23.9554	746.7807	35802.3639	32.4436	7.5295	17.21
L4	46.9123	70.0846	17268.3558	15.6774	22.6881	761.1185	34559.4338	35.0489	6.9805	13.961
	57.4531	89.1200	35506.5661	19.9355	28.7814	1233.6647	71059.8527	44.5685	9.0915	18.183
L5	56.4288	94.9449	33922.9718	18.8786	27.3008	1242.5625	67890.5803	47.4815	8.4686	15.055
	66.7093	116.4399	62572.6159	23.1527	33.4169	1872.4856	125227.5665	58.2310	10.5875	18.822
L6	65.5688	110.4978	53473.5634	21.9711	31.7261	1685.4739	107017.4887	55.2594	10.0017	17.781
	75.5625	132.0062	91171.9378	26.2478	37.8460	2409.0244	182463.8419	66.0156	12.1220	21.55

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 225.79-197.75				1	1	1			
L2 197.75-162.72				1	1	1			
L3 162.72-120.09				1	1	1			
L4 120.09-78.99				1	1	1			
L5 78.99-38.92				1	1	1			
L6 38.92-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

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

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
Safety Line 3/8	A	No	Surface Ar (CaAa)	225.78 - 8.00	1	1	-0.080 -0.070	0.3750		0.22
HB158-1-08U8-S8J18(1-5/8)	C	No	Surface Ar (CaAa)	225.78 - 8.00	2	1	0.220 0.260	1.9800		1.30
***										
WR-VG82ST-BRDA(5/8)	A	No	Surface Ar (CaAa)	193.00 - 8.00	2	2	-0.300 -0.280	0.6450		0.31
WR-VG82ST-BRDA(5/8)	A	No	Surface Ar (CaAa)	193.00 - 8.00	2	2	-0.320 -0.300	0.6450		0.31
LDF6-50A(1-1/4)	A	No	Surface Ar (CaAa)	193.00 - 8.00	3	3	-0.410 -0.320	1.5500		0.60
***										
LDF7-50A(1-5/8)	C	No	Surface Ar (CaAa)	185.00 - 8.00	6	6	-0.070 0.350	1.9800		0.82
LDF4-50A(1/2)	C	No	Surface Ar (CaAa)	185.00 - 8.00	1	1	0.480 0.490	0.6250		0.15
*****										
PL1x6 Reinforcement - Wind Area/Weight	A	No	Surface Af (CaAa)	134.00 - 124.00	1	1	0.000 0.000	6.0000	14.0000	20.41
PL1x6 Reinforcement - Wind Area/Weight	B	No	Surface Af (CaAa)	134.00 - 124.00	1	1	0.000 0.000	6.0000	14.0000	20.41
PL1x6 Reinforcement - Wind Area/Weight	C	No	Surface Af (CaAa)	134.00 - 124.00	1	1	0.000 0.000	6.0000	14.0000	20.41
***										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
***									
561(1-5/8)	C	No	No	Inside Pole	225.78 - 0.00	12	No Ice	0.00	1.35
							1/2" Ice	0.00	1.35
							1" Ice	0.00	1.35
							2" Ice	0.00	1.35
***									
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	205.00 - 0.00	2	No Ice	0.00	2.40
							1/2" Ice	0.00	2.40
							1" Ice	0.00	2.40
							2" Ice	0.00	2.40
LDF7-50A(1-5/8)	C	No	No	Inside Pole	205.00 - 0.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
							2" Ice	0.00	0.82
AVA7-50(1-5/8)	C	No	No	Inside Pole	205.00 - 0.00	6	No Ice	0.00	0.70
							1/2" Ice	0.00	0.70
							1" Ice	0.00	0.70
							2" Ice	0.00	0.70
LDF6-50A(1-1/4)	C	No	No	Inside Pole	193.00 - 0.00	9	No Ice	0.00	0.60
							1/2" Ice	0.00	0.60
							1" Ice	0.00	0.60
							2" Ice	0.00	0.60
WR-VG82ST-BRDA(5/8)	C	No	No	Inside Pole	193.00 - 0.00	2	No Ice	0.00	0.31
							1/2" Ice	0.00	0.31
							1" Ice	0.00	0.31
							2" Ice	0.00	0.31
FB-L98B-034-XXX(3/8)	C	No	No	Inside Pole	193.00 - 0.00	2	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
2" innerduct conduit	C	No	No	Inside Pole	193.00 - 0.00	1	No Ice	0.00	0.20
							1/2" Ice	0.00	0.20
							1" Ice	0.00	0.20
							2" Ice	0.00	0.20

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
***									
HB114-21U3M12-XXXF(1-1/4)	C	No	No	Inside Pole	172.00 - 0.00	1	No Ice	0.00	1.22
							1/2" Ice	0.00	1.22
							1" Ice	0.00	1.22
							2" Ice	0.00	1.22
HB114-1-0813U4-M5J(1-1/4)	C	No	No	Inside Pole	172.00 - 0.00	3	No Ice	0.00	1.20
							1/2" Ice	0.00	1.20
							1" Ice	0.00	1.20
							2" Ice	0.00	1.20
***									
LDF4-50A(1/2)	C	No	No	Inside Pole	72.00 - 0.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
***									

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	225.79-197.75	A	0.000	0.000	1.051	0.000	0.01
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	5.550	0.000	0.63
L2	197.75-162.72	A	0.000	0.000	23.206	0.000	0.10
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	34.797	0.000	1.50
L3	162.72-120.09	A	0.000	0.000	41.541	0.000	0.34
		B	0.000	0.000	9.121	0.000	0.20
		C	0.000	0.000	70.871	0.000	2.29
L4	120.09-78.99	A	0.000	0.000	31.257	0.000	0.13
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	59.533	0.000	2.01
L5	78.99-38.92	A	0.000	0.000	30.473	0.000	0.13
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	58.041	0.000	1.97
L6	38.92-0.00	A	0.000	0.000	23.515	0.000	0.10
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	44.788	0.000	1.85

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	225.79-197.75	A	1.535	0.000	0.000	9.656	0.000	0.11
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	14.155	0.000	1.00
L2	197.75-162.72	A	1.510	0.000	0.000	74.293	0.000	0.82
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	67.558	0.000	2.49
L3	162.72-120.09	A	1.474	0.000	0.000	112.036	0.000	1.43
		B		0.000	0.000	10.743	0.000	0.32
		C		0.000	0.000	127.005	0.000	3.96
L4	120.09-78.99	A	1.423	0.000	0.000	96.237	0.000	1.03
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	111.117	0.000	3.47
L5	78.99-38.92	A	1.351	0.000	0.000	91.895	0.000	0.96
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	107.012	0.000	3.32

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
L6	38.92-0.00	A	1.207	0.000	0.000	68.788	0.000	0.70
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	81.124	0.000	2.83

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	225.79-197.75	-1.0264	1.3167	-2.0604	1.3115
L2	197.75-162.72	-4.7494	5.0406	-5.2799	3.6273
L3	162.72-120.09	-4.9332	5.9386	-5.8685	4.6256
L4	120.09-78.99	-6.0862	7.3099	-7.0238	5.5476
L5	78.99-38.92	-6.4621	7.7497	-7.6179	6.0518
L6	38.92-0.00	-5.6913	6.8187	-6.9942	5.6158

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	1	Safety Line 3/8	197.75 - 225.78	1.0000	1.0000
L1	4	HB158-1-08U8-S8J18(1-5/8)	197.75 - 225.78	1.0000	1.0000
L1	10	WR-VG82ST-BRDA(5/8)	197.75 - 193.00	1.0000	1.0000
L1	11	WR-VG82ST-BRDA(5/8)	197.75 - 193.00	1.0000	1.0000
L1	12	LDF6-50A(1-1/4)	197.75 - 193.00	1.0000	1.0000
L1	18	LDF7-50A(1-5/8)	197.75 - 185.00	1.0000	1.0000
L1	19	LDF4-50A(1/2)	197.75 - 185.00	1.0000	1.0000
L2	1	Safety Line 3/8	162.72 - 197.75	1.0000	1.0000
L2	4	HB158-1-08U8-S8J18(1-5/8)	162.72 - 197.75	1.0000	1.0000
L2	10	WR-VG82ST-BRDA(5/8)	162.72 - 193.00	1.0000	1.0000
L2	11	WR-VG82ST-BRDA(5/8)	162.72 - 193.00	1.0000	1.0000
L2	12	LDF6-50A(1-1/4)	162.72 - 193.00	1.0000	1.0000
L2	18	LDF7-50A(1-5/8)	162.72 - 185.00	1.0000	1.0000
L2	19	LDF4-50A(1/2)	162.72 - 185.00	1.0000	1.0000
L2	26	PL1x6 Reinforcement - Wind Area/Weight	162.72 - 134.00	1.0000	1.0000
L2	27	PL1x6 Reinforcement - Wind Area/Weight	162.72 - 134.00	1.0000	1.0000
L2	28	PL1x6 Reinforcement - Wind Area/Weight	162.72 - 134.00	1.0000	1.0000
L3	1	Safety Line 3/8	120.09 -	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			162.72		
L3	4	HB158-1-08U8-S8J18(1-5/8)	120.09 - 162.72	1.0000	1.0000
L3	10	WR-VG82ST-BRDA(5/8)	120.09 - 162.72	1.0000	1.0000
L3	11	WR-VG82ST-BRDA(5/8)	120.09 - 162.72	1.0000	1.0000
L3	12	LDF6-50A(1-1/4)	120.09 - 162.72	1.0000	1.0000
L3	18	LDF7-50A(1-5/8)	120.09 - 162.72	1.0000	1.0000
L3	19	LDF4-50A(1/2)	120.09 - 162.72	1.0000	1.0000
L4	1	Safety Line 3/8	78.99 - 120.09	1.0000	1.0000
L4	4	HB158-1-08U8-S8J18(1-5/8)	78.99 - 120.09	1.0000	1.0000
L4	10	WR-VG82ST-BRDA(5/8)	78.99 - 120.09	1.0000	1.0000
L4	11	WR-VG82ST-BRDA(5/8)	78.99 - 120.09	1.0000	1.0000
L4	12	LDF6-50A(1-1/4)	78.99 - 120.09	1.0000	1.0000
L4	18	LDF7-50A(1-5/8)	78.99 - 120.09	1.0000	1.0000
L4	19	LDF4-50A(1/2)	78.99 - 120.09	1.0000	1.0000
L5	1	Safety Line 3/8	38.92 - 78.99	1.0000	1.0000
L5	4	HB158-1-08U8-S8J18(1-5/8)	38.92 - 78.99	1.0000	1.0000
L5	10	WR-VG82ST-BRDA(5/8)	38.92 - 78.99	1.0000	1.0000
L5	11	WR-VG82ST-BRDA(5/8)	38.92 - 78.99	1.0000	1.0000
L5	12	LDF6-50A(1-1/4)	38.92 - 78.99	1.0000	1.0000
L5	18	LDF7-50A(1-5/8)	38.92 - 78.99	1.0000	1.0000
L5	19	LDF4-50A(1/2)	38.92 - 78.99	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Lightning Rod 5/8"x5'	C	From Leg	4.00 0.00 2.00	0.00	226.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.31 0.83 1.32 1.96	0.31 0.83 1.32 1.96	0.01 0.01 0.02 0.04
Flash Beacon Lighting	B	From Leg	4.00 0.00 2.00	0.00	226.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.70 3.10 3.50 4.30	2.70 3.10 3.50 4.30	0.05 0.07 0.09 0.13
Beacon side markers	A	From Face	3.00	0.00	113.00	No Ice	0.93	0.93	0.02

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00 0.00			1/2" Ice 1" Ice 2" Ice	1.07 1.21 1.49	1.07 1.21 1.49	0.03 0.03 0.04
Beacon side markers	B	From Face	3.00 0.00 0.00	0.00	113.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.93 1.07 1.21 1.49	0.93 1.07 1.21 1.49	0.02 0.03 0.03 0.04
Beacon side markers	C	From Face	3.00 0.00 0.00	0.00	113.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.93 1.07 1.21 1.49	0.93 1.07 1.21 1.49	0.02 0.03 0.03 0.04
***									
Platform Mount (10' LP 101-1)	C	None		0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	29.86 34.15 38.81 50.38	29.86 34.15 38.81 50.38	1.25 1.93 2.72 4.59
Side Arm Mount [SO 203-3]	C	None		0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.68 8.05 9.55 12.80	6.68 8.05 9.55 12.80	0.38 0.46 0.57 0.87
Transition Ladder	C	From Leg	2.00 0.00 -2.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.00 8.00 10.00 14.00	6.00 8.00 10.00 14.00	0.16 0.24 0.32 0.48
SBNHH-1D65B w/ Mount Pipe	A	From Leg	3.00 -1.67 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.72	3.30 3.68 4.07 4.87	0.07 0.13 0.20 0.39
SBNHH-1D65B w/ Mount Pipe	B	From Leg	3.00 -1.67 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.72	3.30 3.68 4.07 4.87	0.07 0.13 0.20 0.39
SBNHH-1D65B w/ Mount Pipe	C	From Leg	3.00 -1.67 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.72	3.30 3.68 4.07 4.87	0.07 0.13 0.20 0.39
SBNHH-1D65B w/ Mount Pipe	A	From Leg	3.00 1.67 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.72	3.30 3.68 4.07 4.87	0.07 0.13 0.20 0.39
SBNHH-1D65B w/ Mount Pipe	B	From Leg	3.00 1.67 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.72	3.30 3.68 4.07 4.87	0.07 0.13 0.20 0.39
SBNHH-1D65B w/ Mount Pipe	C	From Leg	3.00 1.67 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.72	3.30 3.68 4.07 4.87	0.07 0.13 0.20 0.39
LPA-80080/6CF w/ Mount Pipe	A	From Leg	3.00 5.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.26 11.43 12.31 14.13	0.05 0.11 0.19 0.36

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
LPA-80080/6CF w/ Mount Pipe	B	From Leg	3.00 5.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.26 11.43 12.31 14.13	0.05 0.11 0.19 0.36
LPA-80080/6CF w/ Mount Pipe	C	From Leg	3.00 5.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.26 11.43 12.31 14.13	0.05 0.11 0.19 0.36
LPA-80080/6CF w/ Mount Pipe	A	From Face	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.26 11.43 12.31 14.13	0.05 0.11 0.19 0.36
LPA-80080/6CF w/ Mount Pipe	B	From Face	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.26 11.43 12.31 14.13	0.05 0.11 0.19 0.36
LPA-80080/6CF w/ Mount Pipe	C	From Face	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.56 5.11 5.61 6.65	10.26 11.43 12.31 14.13	0.05 0.11 0.19 0.36
B4 RRH2X60-4R	A	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.36 3.61 3.88 4.42	2.00 2.24 2.48 2.97	0.06 0.08 0.10 0.17
B4 RRH2X60-4R	B	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.36 3.61 3.88 4.42	2.00 2.24 2.48 2.97	0.06 0.08 0.10 0.17
B4 RRH2X60-4R	C	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.36 3.61 3.88 4.42	2.00 2.24 2.48 2.97	0.06 0.08 0.10 0.17
B13 RRH 4X30	A	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.84	1.32 1.48 1.64 2.00	0.06 0.07 0.09 0.14
B13 RRH 4X30	B	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.84	1.32 1.48 1.64 2.00	0.06 0.07 0.09 0.14
B13 RRH 4X30	C	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.06 2.24 2.43 2.84	1.32 1.48 1.64 2.00	0.06 0.07 0.09 0.14
(4) FD9R6004/2C-3L	A	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.31 0.39 0.47 0.65	0.08 0.12 0.17 0.29	0.00 0.01 0.01 0.02
(4) FD9R6004/2C-3L	B	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.31 0.39 0.47 0.65	0.08 0.12 0.17 0.29	0.00 0.01 0.01 0.02

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(4) FD9R6004/2C-3L	C	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.31 0.39 0.47 0.65	0.08 0.12 0.17 0.29	0.00 0.01 0.01 0.02
RRFDC-3315-PF-48	B	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.71 3.95 4.20 4.72	2.19 2.39 2.61 3.05	0.02 0.05 0.09 0.17
RRFDC-3315-PF-48	C	From Leg	3.00 0.00 1.00	0.00	228.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.71 3.95 4.20 4.72	2.19 2.39 2.61 3.05	0.02 0.05 0.09 0.17
***									
Platform Mount [10.8' LP 712-1]	C	None		0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	21.22 24.12 27.02 32.81	21.22 24.12 27.02 32.81	1.15 1.65 2.20 3.43
Transition Ladder	C	From Leg	2.00 0.00 -4.50	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.00 8.00 10.00 14.00	6.00 8.00 10.00 14.00	0.16 0.24 0.32 0.48
12.5' x 2.375" Horizontal Mount Pipe	A	From Leg	4.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.98 4.25 5.55 8.06	0.01 0.05 0.10 0.24	0.05 0.07 0.98 0.18
12.5' x 2.375" Horizontal Mount Pipe	B	From Leg	4.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.98 4.25 5.55 8.06	0.01 0.05 0.10 0.24	0.05 0.07 0.98 0.18
12.5' x 2.375" Horizontal Mount Pipe	C	From Leg	4.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.98 4.25 5.55 8.06	0.01 0.05 0.10 0.24	0.05 0.07 0.98 0.18
6' x 2" Horizontal Mount Pipe	A	From Face	2.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.14 1.76 2.14 2.90	0.01 0.04 0.09 0.21	0.02 0.03 0.04 0.08
6' x 2" Horizontal Mount Pipe	B	From Face	2.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.14 1.76 2.14 2.90	0.01 0.04 0.09 0.21	0.02 0.03 0.04 0.08
6' x 2" Horizontal Mount Pipe	C	From Face	2.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.14 1.76 2.14 2.90	0.01 0.04 0.09 0.21	0.02 0.03 0.04 0.08
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	3.00 -5.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.29 6.86 7.45 8.68	2.76 3.27 3.79 4.90	0.06 0.11 0.16 0.29
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	3.00 -5.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice	6.29 6.86 7.45 8.68	2.76 3.27 3.79 4.90	0.06 0.11 0.16 0.29

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	3.00 -5.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.29 6.86 7.45 8.68	2.76 3.27 3.79 4.90	0.06 0.11 0.16 0.29
APXVAARR24_43-U-NA20_T-MOBILE w/ Mount Pipe	A	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20_T-MOBILE w/ Mount Pipe	B	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20_T-MOBILE w/ Mount Pipe	C	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
AIR6449 B41 w/ Mount Pipe	A	From Leg	3.00 5.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.89 6.26 6.63 7.41	3.28 3.74 4.22 5.21	0.12 0.17 0.22 0.35
AIR6449 B41 w/ Mount Pipe	B	From Leg	3.00 5.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.89 6.26 6.63 7.41	3.28 3.74 4.22 5.21	0.12 0.17 0.22 0.35
AIR6449 B41 w/ Mount Pipe	C	From Leg	3.00 5.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.89 6.26 6.63 7.41	3.28 3.74 4.22 5.21	0.12 0.17 0.22 0.35
RADIO 4424	A	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.86 2.03 2.20 2.58	1.32 1.47 1.62 1.96	0.09 0.11 0.13 0.18
RADIO 4424	B	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.86 2.03 2.20 2.58	1.32 1.47 1.62 1.96	0.09 0.11 0.13 0.18
RADIO 4424	C	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.86 2.03 2.20 2.58	1.32 1.47 1.62 1.96	0.09 0.11 0.13 0.18
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
RADIO 4415 B66A_CCIV3	A	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	0.68 0.79 0.91 1.18	0.05 0.06 0.07 0.11
RADIO 4415 B66A_CCIV3	B	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	0.68 0.79 0.91 1.18	0.05 0.06 0.07 0.11
RADIO 4415 B66A_CCIV3	C	From Leg	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.64 1.80 1.97 2.32	0.68 0.79 0.91 1.18	0.05 0.06 0.07 0.11
ATSBT-TOP-MF-4G	A	From Face	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.17 0.23 0.29 0.44	0.09 0.14 0.19 0.32	0.00 0.00 0.01 0.01
ATSBT-TOP-MF-4G	B	From Face	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.17 0.23 0.29 0.44	0.09 0.14 0.19 0.32	0.00 0.00 0.01 0.01
ATSBT-TOP-MF-4G	C	From Face	3.00 0.00 0.00	0.00	207.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.17 0.23 0.29 0.44	0.09 0.14 0.19 0.32	0.00 0.00 0.01 0.01
***									
Sabre C10857333C [SM 504-3]	C	None		0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	31.05 43.83 56.44 81.28	31.05 43.83 56.44 81.28	1.71 2.33 3.14 5.36
Transition Ladder	C	From Leg	2.00 0.00 -2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.00 8.00 10.00 14.00	6.00 8.00 10.00 14.00	0.16 0.24 0.32 0.48
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.00 -7.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34	6.05 6.71 7.39 8.79	0.09 0.18 0.27 0.51
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.00 -2.33 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34	6.05 6.71 7.39 8.79	0.09 0.18 0.27 0.51
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.00 7.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	12.25 13.00 13.76 15.34	6.05 6.71 7.39 8.79	0.09 0.18 0.27 0.51
800 10121 w/ Mount Pipe	A	From Leg	4.00 -2.33 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.60 4.00 4.42 5.29	2.95 3.34 3.74 4.59	0.07 0.11 0.17 0.30
800 10121 w/ Mount Pipe	B	From Leg	4.00 -7.00 2.00	0.00	193.00	No Ice 1/2" Ice	3.60 4.00 4.42	2.95 3.34 3.74	0.07 0.11 0.17

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	5.29	4.59	0.30
						2" Ice			
800 10121 w/ Mount Pipe	C	From Leg	4.00 -7.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.60 4.00 4.42 5.29	2.95 3.34 3.74 4.59	0.07 0.11 0.17 0.30
OPA-65R-LCUU-H6 w/ Mount Pipe	A	From Leg	4.00 2.33 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	9.19 9.94 10.71 12.30	6.21 6.93 7.66 9.17	0.11 0.18 0.26 0.45
OPA-65R-LCUU-H6 w/ Mount Pipe	B	From Leg	4.00 2.33 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	9.19 9.94 10.71 12.30	6.21 6.93 7.66 9.17	0.11 0.18 0.26 0.45
OPA-65R-LCUU-H6 w/ Mount Pipe	C	From Leg	4.00 -2.33 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	9.19 9.94 10.71 12.30	6.21 6.93 7.66 9.17	0.11 0.18 0.26 0.45
80010798 w/ Mount Pipe	A	From Leg	4.00 7.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.79 8.40 9.02 10.30	4.90 5.47 6.06 7.26	0.11 0.19 0.27 0.48
80010798 w/ Mount Pipe	B	From Leg	4.00 7.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.79 8.40 9.02 10.30	4.90 5.47 6.06 7.26	0.11 0.19 0.27 0.48
80010798 w/ Mount Pipe	C	From Leg	4.00 2.33 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.79 8.40 9.02 10.30	4.90 5.47 6.06 7.26	0.11 0.19 0.27 0.48
RRUS 4478 B14_CCIV2	A	From Leg	4.00 0.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.39 2.78	1.25 1.40 1.55 1.89	0.06 0.08 0.10 0.15
RRUS 4478 B14_CCIV2	B	From Leg	4.00 0.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.39 2.78	1.25 1.40 1.55 1.89	0.06 0.08 0.10 0.15
RRUS 4478 B14_CCIV2	C	From Leg	4.00 0.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.02 2.20 2.39 2.78	1.25 1.40 1.55 1.89	0.06 0.08 0.10 0.15
RRUS 32 B2_CCIV2	A	From Leg	4.00 0.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.86 3.09 3.32 3.81	1.78 1.97 2.17 2.59	0.06 0.08 0.10 0.16
RRUS 32 B2_CCIV2	B	From Leg	4.00 0.00 2.00	0.00	193.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.86 3.09 3.32 3.81	1.78 1.97 2.17 2.59	0.06 0.08 0.10 0.16
RRUS 32 B2_CCIV2	C	From Leg	4.00 0.00 2.00	0.00	193.00	No Ice 1/2" Ice	2.86 3.09 3.32	1.78 1.97 2.17	0.06 0.08 0.10

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	3.81	2.59	0.16
						2" Ice			
DC6-48-60-18-8F	B	From Leg	1.00	0.00	193.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			2.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
DTMABP7819VG12A	A	From Leg	4.00	0.00	193.00	No Ice	0.98	0.34	0.02
			0.00			1/2"	1.10	0.42	0.03
			2.00			Ice	1.23	0.51	0.04
						1" Ice	1.52	0.71	0.06
						2" Ice			
DTMABP7819VG12A	B	From Leg	4.00	0.00	193.00	No Ice	0.98	0.34	0.02
			0.00			1/2"	1.10	0.42	0.03
			2.00			Ice	1.23	0.51	0.04
						1" Ice	1.52	0.71	0.06
						2" Ice			
DTMABP7819VG12A	C	From Leg	4.00	0.00	193.00	No Ice	0.98	0.34	0.02
			0.00			1/2"	1.10	0.42	0.03
			2.00			Ice	1.23	0.51	0.04
						1" Ice	1.52	0.71	0.06
						2" Ice			
WCS RRUS-32-B30	A	From Leg	4.00	0.00	193.00	No Ice	3.31	2.42	0.08
			0.00			1/2"	3.56	2.64	0.10
			2.00			Ice	3.81	2.86	0.14
						1" Ice	4.33	3.32	0.21
						2" Ice			
WCS RRUS-32-B30	B	From Leg	4.00	0.00	193.00	No Ice	3.31	2.42	0.08
			0.00			1/2"	3.56	2.64	0.10
			2.00			Ice	3.81	2.86	0.14
						1" Ice	4.33	3.32	0.21
						2" Ice			
WCS RRUS-32-B30	C	From Leg	4.00	0.00	193.00	No Ice	3.31	2.42	0.08
			0.00			1/2"	3.56	2.64	0.10
			2.00			Ice	3.81	2.86	0.14
						1" Ice	4.33	3.32	0.21
						2" Ice			
(2) 860 10025	A	From Leg	4.00	0.00	193.00	No Ice	0.14	0.12	0.00
			0.00			1/2"	0.20	0.17	0.00
			2.00			Ice	0.26	0.23	0.01
						1" Ice	0.41	0.38	0.01
						2" Ice			
(2) 860 10025	B	From Leg	4.00	0.00	193.00	No Ice	0.14	0.12	0.00
			0.00			1/2"	0.20	0.17	0.00
			2.00			Ice	0.26	0.23	0.01
						1" Ice	0.41	0.38	0.01
						2" Ice			
(2) 860 10025	C	From Leg	4.00	0.00	193.00	No Ice	0.14	0.12	0.00
			0.00			1/2"	0.20	0.17	0.00
			2.00			Ice	0.26	0.23	0.01
						1" Ice	0.41	0.38	0.01
						2" Ice			
DBC0061F1V51-2	A	From Leg	4.00	0.00	193.00	No Ice	0.43	0.41	0.03
			0.00			1/2"	0.51	0.50	0.03
			2.00			Ice	0.61	0.59	0.04
						1" Ice	0.81	0.79	0.06
						2" Ice			
DBC0061F1V51-2	B	From Leg	4.00	0.00	193.00	No Ice	0.43	0.41	0.03
			0.00			1/2"	0.51	0.50	0.03
			2.00			Ice	0.61	0.59	0.04
						1" Ice	0.81	0.79	0.06
						2" Ice			
DBC0061F1V51-2	C	From Leg	4.00	0.00	193.00	No Ice	0.43	0.41	0.03
			0.00			1/2"	0.51	0.50	0.03
			2.00			Ice	0.61	0.59	0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	0.81	0.79	0.06
						2" Ice			
DC6-48-60-18-8F	A	From Leg	1.00	0.00	193.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			2.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
DC6-48-60-18-8F	B	From Leg	1.00	0.00	193.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			2.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
RRUS 11 B12	A	From Leg	4.00	0.00	193.00	No Ice	2.83	1.18	0.05
			0.00			1/2"	3.04	1.33	0.07
			2.00			Ice	3.26	1.48	0.10
						1" Ice	3.71	1.83	0.15
						2" Ice			
RRUS 11 B12	B	From Leg	4.00	0.00	193.00	No Ice	2.83	1.18	0.05
			0.00			1/2"	3.04	1.33	0.07
			2.00			Ice	3.26	1.48	0.10
						1" Ice	3.71	1.83	0.15
						2" Ice			
RRUS 11 B12	C	From Leg	4.00	0.00	193.00	No Ice	2.83	1.18	0.05
			0.00			1/2"	3.04	1.33	0.07
			2.00			Ice	3.26	1.48	0.10
						1" Ice	3.71	1.83	0.15
						2" Ice			
RRUS 4426 B66	A	From Leg	4.00	0.00	193.00	No Ice	1.64	0.73	0.10
			0.00			1/2"	1.80	0.84	0.11
			2.00			Ice	1.97	0.97	0.13
						1" Ice	2.33	1.24	0.17
						2" Ice			
RRUS 4426 B66	B	From Leg	4.00	0.00	193.00	No Ice	1.64	0.73	0.10
			0.00			1/2"	1.80	0.84	0.11
			2.00			Ice	1.97	0.97	0.13
						1" Ice	2.33	1.24	0.17
						2" Ice			
RRUS 4426 B66	C	From Leg	4.00	0.00	193.00	No Ice	1.64	0.73	0.10
			0.00			1/2"	1.80	0.84	0.11
			2.00			Ice	1.97	0.97	0.13
						1" Ice	2.33	1.24	0.17
						2" Ice			
***									
Platform Mount [LP 712-1]	C	None		0.00	185.00	No Ice	24.56	24.56	1.34
						1/2"	27.92	27.92	1.91
						Ice	31.27	31.27	2.55
						1" Ice	37.98	37.98	3.97
						2" Ice			
Transition Ladder	C	From Leg	2.00	0.00	185.00	No Ice	6.00	6.00	0.16
			0.00			1/2"	8.00	8.00	0.24
			-2.00			Ice	10.00	10.00	0.32
						1" Ice	14.00	14.00	0.48
						2" Ice			
APXV18-206517S-C w/ Mount Pipe	A	From Leg	3.00	0.00	185.00	No Ice	3.79	3.16	0.05
			-6.00			1/2"	4.38	3.75	0.09
			2.00			Ice	4.99	4.35	0.15
						1" Ice	6.25	5.59	0.28
						2" Ice			
APXV18-206517S-C w/ Mount Pipe	B	From Leg	3.00	0.00	185.00	No Ice	3.79	3.16	0.05
			-6.00			1/2"	4.38	3.75	0.09
			2.00			Ice	4.99	4.35	0.15
						1" Ice	6.25	5.59	0.28
						2" Ice			
APXV18-206517S-C w/ Mount Pipe	C	From Leg	3.00	0.00	185.00	No Ice	3.79	3.16	0.05
			-6.00			1/2"	4.38	3.75	0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			2.00			Ice	4.99	4.35	0.15
						1" Ice	6.25	5.59	0.28
						2" Ice			
978QNB120E-M w/ Mount Pipe	A	From Leg	3.00 -2.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.83 8.28 8.74 9.67	4.25 5.01 5.71 7.16	0.06 0.11 0.18 0.33
978QNB120E-M w/ Mount Pipe	B	From Leg	3.00 -2.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.83 8.28 8.74 9.67	4.25 5.01 5.71 7.16	0.06 0.11 0.18 0.33
978QNB120E-M w/ Mount Pipe	C	From Leg	3.00 -2.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.83 8.28 8.74 9.67	4.25 5.01 5.71 7.16	0.06 0.11 0.18 0.33
FV90-16-02DP w/ Mount Pipe	A	From Leg	3.00 2.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.47 5.08 5.70 7.01	2.92 3.50 4.10 5.35	0.04 0.07 0.11 0.22
FV90-16-02DP w/ Mount Pipe	B	From Leg	3.00 2.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.47 5.08 5.70 7.01	2.92 3.50 4.10 5.35	0.04 0.07 0.11 0.22
FV90-16-02DP w/ Mount Pipe	C	From Leg	3.00 2.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.47 5.08 5.70 7.01	2.92 3.50 4.10 5.35	0.04 0.07 0.11 0.22
FV90-16-02DP w/ Mount Pipe	A	From Leg	3.00 6.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.47 5.08 5.70 7.01	2.92 3.50 4.10 5.35	0.04 0.07 0.11 0.22
FV90-16-02DP w/ Mount Pipe	B	From Leg	3.00 6.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.47 5.08 5.70 7.01	2.92 3.50 4.10 5.35	0.04 0.07 0.11 0.22
FV90-16-02DP w/ Mount Pipe	C	From Leg	3.00 6.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.47 5.08 5.70 7.01	2.92 3.50 4.10 5.35	0.04 0.07 0.11 0.22
CS72993.07	A	From Leg	3.00 0.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.23 1.36 1.51 1.83	0.39 0.48 0.59 0.81	0.02 0.03 0.04 0.06
CS72993.07	B	From Leg	3.00 0.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.23 1.36 1.51 1.83	0.39 0.48 0.59 0.81	0.02 0.03 0.04 0.06
CS72993.07	C	From Leg	3.00 0.00 2.00	0.00	185.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.23 1.36 1.51 1.83	0.39 0.48 0.59 0.81	0.02 0.03 0.04 0.06
***									
Side Arm Mount [SO 102-	C	None		0.00	173.00	No Ice	3.60	3.60	0.07

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
3]						1/2" Ice	4.18	4.18	0.11
						1" Ice	4.75	4.75	0.14
						2" Ice	5.90	5.90	0.20
6'x2" Mount Pipe	A	From Leg	0.50 0.00 0.00	0.00	173.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6'x2" Mount Pipe	B	From Leg	0.50 0.00 0.00	0.00	173.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6'x2" Mount Pipe	C	From Leg	0.50 0.00 0.00	0.00	173.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
800 EXTERNAL NOTCH FILTER	A	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	0.66 0.76 0.87 1.11	0.32 0.40 0.48 0.67	0.01 0.02 0.02 0.04
800 EXTERNAL NOTCH FILTER	B	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	0.66 0.76 0.87 1.11	0.32 0.40 0.48 0.67	0.01 0.02 0.02 0.04
800 EXTERNAL NOTCH FILTER	C	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	0.66 0.76 0.87 1.11	0.32 0.40 0.48 0.67	0.01 0.02 0.02 0.04
(3) ACU-A20-N	A	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	0.07 0.10 0.15 0.26	0.12 0.16 0.21 0.34	0.00 0.00 0.00 0.01
(3) ACU-A20-N	B	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	0.07 0.10 0.15 0.26	0.12 0.16 0.21 0.34	0.00 0.00 0.00 0.01
(3) ACU-A20-N	C	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	0.07 0.10 0.15 0.26	0.12 0.16 0.21 0.34	0.00 0.00 0.00 0.01
1900MHz RRH (65MHz)	A	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
1900MHz RRH (65MHz)	B	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
1900MHz RRH (65MHz)	C	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
800MHZ RRH	A	From Leg	1.00	0.00	173.00	No Ice	2.13	1.77	0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00 0.00			1/2" Ice 1" Ice 2" Ice	2.32 2.51 2.92	1.95 2.13 2.51	0.07 0.10 0.16
800MHZ RRH	B	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	0.05 0.07 0.10 0.16
800MHZ RRH	C	From Leg	1.00 0.00 0.00	0.00	173.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.13 2.32 2.51 2.92	1.77 1.95 2.13 2.51	0.05 0.07 0.10 0.16
***									
Platform Mount [LP 1201-1]	C	None		0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	18.38 22.11 25.87 33.47	18.38 22.11 25.87 33.47	2.10 2.65 3.26 4.66
6'x2" Mount Pipe	A	From Leg	4.00 -2.33 0.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6'x2" Mount Pipe	B	From Leg	4.00 -2.33 0.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6'x2" Mount Pipe	C	From Leg	4.00 -2.33 0.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6'x2" Mount Pipe	A	From Leg	4.00 7.00 0.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6'x2" Mount Pipe	B	From Leg	4.00 7.00 0.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
6'x2" Mount Pipe	C	From Leg	4.00 7.00 0.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.00 -7.00 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.00 -7.00 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.00 -7.00 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.48 4.88 5.71	2.86 3.23 3.61 4.40	0.08 0.13 0.19 0.33

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
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.00 2.33 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.00 2.33 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.00 2.33 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.60 5.05 5.50 6.44	4.01 4.45 4.89 5.82	0.10 0.16 0.23 0.42
TD-RRH8x20-25	A	From Leg	4.00 0.00 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.05 4.30 4.56 5.10	1.53 1.71 1.90 2.30	0.07 0.10 0.13 0.20
TD-RRH8x20-25	B	From Leg	4.00 0.00 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.05 4.30 4.56 5.10	1.53 1.71 1.90 2.30	0.07 0.10 0.13 0.20
TD-RRH8x20-25	C	From Leg	4.00 0.00 2.00	0.00	172.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.05 4.30 4.56 5.10	1.53 1.71 1.90 2.30	0.07 0.10 0.13 0.20
***									
Side Arm Mount [SO 701-1]	A	From Leg	0.00 0.00 0.00	0.00	72.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	0.07 0.08 0.09 0.12
GPS_A	A	From Leg	3.00 0.00 1.00	0.00	72.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.26 0.32 0.39 0.56	0.26 0.32 0.39 0.56	0.00 0.00 0.01 0.02
***									

Load Combinations

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

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	225.79 - 197.75	Pole	Max Tension	26	0.00	-0.00	0.00
			Max. Compression	26	-24.45	2.15	-2.82
			Max. Mx	20	-8.31	212.11	-0.81
			Max. My	14	-8.32	0.77	-210.38
			Max. Vy	20	-12.52	212.11	-0.81
			Max. Vx	14	12.45	0.77	-210.38
			Max. Torque	22			1.70
L2	197.75 - 162.72	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.27	6.61	-5.80
			Max. Mx	20	-26.26	925.39	-2.04
			Max. My	14	-26.27	1.76	-921.18
			Max. Vy	20	-28.14	925.39	-2.04
			Max. Vx	14	28.06	1.76	-921.18
			Max. Torque	24			4.02
L3	162.72 - 120.09	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-82.97	8.97	-8.93
			Max. Mx	20	-40.16	2175.83	-2.70
			Max. My	14	-40.17	2.17	-2168.85
			Max. Vy	20	-32.26	2175.83	-2.70
			Max. Vx	14	32.18	2.17	-2168.85

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	24			4.02
L4	120.09 - 78.99	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-106.65	11.37	-12.29
			Max. Mx	20	-57.75	3550.48	-3.43
			Max. My	14	-57.76	2.56	-3540.91
			Max. Vy	20	-36.47	3550.48	-3.43
			Max. Vx	14	36.40	2.56	-3540.91
			Max. Torque	24			4.00
L5	78.99 - 38.92	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-135.31	13.67	-15.27
			Max. Mx	20	-80.00	5050.75	-4.03
			Max. My	14	-80.00	2.95	-5037.92
			Max. Vy	20	-40.37	5050.75	-4.03
			Max. Vx	14	40.28	2.95	-5037.92
			Max. Torque	24			4.00
L6	38.92 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-173.84	15.95	-18.70
			Max. Mx	20	-111.27	7068.01	-4.89
			Max. My	14	-111.27	3.34	-7051.05
			Max. Vy	20	-44.09	7068.01	-4.89
			Max. Vx	14	44.00	3.34	-7051.05
			Max. Torque	2			3.92

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	35	173.84	10.71	-6.17
	Max. H_x	21	83.47	44.05	-0.00
	Max. H_z	2	111.29	0.00	43.96
	Max. M_x	2	7041.27	0.00	43.96
	Max. M_z	8	7061.26	-44.05	-0.00
	Max. Torsion	2	3.92	0.00	43.96
	Min. Vert	5	83.47	-22.03	38.07
	Min. H_x	9	83.47	-44.05	-0.00
	Min. H_z	14	111.29	0.00	-43.96
	Min. M_x	14	-7051.05	0.00	-43.96
	Min. M_z	20	-7068.01	44.05	-0.00
	Min. Torsion	14	-3.92	0.00	-43.96

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	92.74	0.00	0.00	3.85	2.65	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	111.29	-0.00	-43.96	-7041.27	3.34	-3.92
0.9 Dead+1.0 Wind 0 deg - No Ice	83.47	-0.00	-43.96	-6942.37	2.45	-3.91
1.2 Dead+1.0 Wind 30 deg - No Ice	111.29	22.03	-38.07	-6097.24	-3529.00	-2.88
0.9 Dead+1.0 Wind 30 deg - No Ice	83.47	22.03	-38.07	-6011.77	-3479.64	-2.89
1.2 Dead+1.0 Wind 60 deg - No Ice	111.29	38.15	-21.98	-3518.15	-6114.81	-1.08
0.9 Dead+1.0 Wind 60 deg - No Ice	83.47	38.15	-21.98	-3469.35	-6028.67	-1.09

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 90 deg - No Ice	111.29	44.05	0.00	4.89	-7061.26	1.01
0.9 Dead+1.0 Wind 90 deg - No Ice	83.47	44.05	0.00	3.60	-6961.64	0.99
1.2 Dead+1.0 Wind 120 deg - No Ice	111.29	39.48	22.74	3659.02	-6341.85	2.82
0.9 Dead+1.0 Wind 120 deg - No Ice	83.47	39.48	22.74	3605.88	-6252.69	2.80
1.2 Dead+1.0 Wind 150 deg - No Ice	111.29	22.03	38.07	6107.02	-3528.99	3.89
0.9 Dead+1.0 Wind 150 deg - No Ice	83.47	22.03	38.07	6018.96	-3479.64	3.87
1.2 Dead+1.0 Wind 180 deg - No Ice	111.29	-0.00	43.96	7051.05	3.34	3.92
0.9 Dead+1.0 Wind 180 deg - No Ice	83.47	-0.00	43.96	6949.56	2.45	3.91
1.2 Dead+1.0 Wind 210 deg - No Ice	111.29	-22.03	38.07	6107.05	3535.69	2.90
0.9 Dead+1.0 Wind 210 deg - No Ice	83.47	-22.03	38.07	6018.98	3484.55	2.90
1.2 Dead+1.0 Wind 240 deg - No Ice	111.29	-38.15	21.98	3527.97	6121.54	1.10
0.9 Dead+1.0 Wind 240 deg - No Ice	83.47	-38.15	21.98	3476.57	6033.61	1.11
1.2 Dead+1.0 Wind 270 deg - No Ice	111.29	-44.05	0.00	4.89	7068.01	-1.01
0.9 Dead+1.0 Wind 270 deg - No Ice	83.47	-44.05	0.00	3.60	6966.59	-0.99
1.2 Dead+1.0 Wind 300 deg - No Ice	111.29	-39.48	-22.74	-3649.27	6348.59	-2.84
0.9 Dead+1.0 Wind 300 deg - No Ice	83.47	-39.48	-22.74	-3598.72	6257.63	-2.82
1.2 Dead+1.0 Wind 330 deg - No Ice	111.29	-22.03	-38.07	-6097.27	3535.70	-3.90
0.9 Dead+1.0 Wind 330 deg - No Ice	83.47	-22.03	-38.07	-6011.79	3484.55	-3.89
1.2 Dead+1.0 Ice+1.0 Temp	173.84	-0.00	0.00	18.70	15.95	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	173.84	-0.00	-12.34	-2031.94	16.25	-1.18
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	173.84	6.18	-10.69	-1757.16	-1011.32	-0.77
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	173.84	10.71	-6.17	-1006.45	-1763.55	-0.16
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	173.84	12.36	0.00	19.05	-2038.89	0.50
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	173.84	10.71	6.17	1044.54	-1763.55	1.03
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	173.84	6.18	10.69	1795.25	-1011.32	1.27
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	173.84	-0.00	12.34	2070.03	16.25	1.18
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	173.84	-6.18	10.69	1795.25	1043.82	0.77
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	173.84	-10.71	6.17	1044.54	1796.05	0.16
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	173.84	-12.36	0.00	19.05	2071.39	-0.50
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	173.84	-10.71	-6.17	-1006.45	1796.05	-1.03
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	173.84	-6.18	-10.69	-1757.16	1043.82	-1.28
Dead+Wind 0 deg - Service	92.74	-0.00	-10.35	-1641.23	2.79	-0.93
Dead+Wind 30 deg - Service	92.74	5.19	-8.96	-1420.81	-822.01	-0.69
Dead+Wind 60 deg - Service	92.74	8.98	-5.17	-818.59	-1425.81	-0.26
Dead+Wind 90 deg - Service	92.74	10.37	0.00	4.04	-1646.81	0.24
Dead+Wind 120 deg - Service	92.74	9.29	5.36	857.38	-1478.97	0.67
Dead+Wind 150 deg - Service	92.74	5.19	8.96	1428.89	-822.01	0.93

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 180 deg - Service	92.74	-0.00	10.35	1649.32	2.79	0.93
Dead+Wind 210 deg - Service	92.74	-5.19	8.96	1428.90	827.59	0.69
Dead+Wind 240 deg - Service	92.74	-8.98	5.17	826.68	1431.39	0.26
Dead+Wind 270 deg - Service	92.74	-10.37	0.00	4.04	1652.39	-0.24
Dead+Wind 300 deg - Service	92.74	-9.29	-5.36	-849.29	1484.55	-0.67
Dead+Wind 330 deg - Service	92.74	-5.19	-8.96	-1420.81	827.59	-0.93

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.00	-92.74	0.00	0.00	92.74	0.00	0.000%
2	0.00	-111.29	-43.96	0.00	111.29	43.96	0.000%
3	0.00	-83.47	-43.96	0.00	83.47	43.96	0.000%
4	22.03	-111.29	-38.07	-22.03	111.29	38.07	0.000%
5	22.03	-83.47	-38.07	-22.03	83.47	38.07	0.000%
6	38.15	-111.29	-21.98	-38.15	111.29	21.98	0.000%
7	38.15	-83.47	-21.98	-38.15	83.47	21.98	0.000%
8	44.05	-111.29	0.00	-44.05	111.29	-0.00	0.000%
9	44.05	-83.47	0.00	-44.05	83.47	-0.00	0.000%
10	39.48	-111.29	22.74	-39.48	111.29	-22.74	0.000%
11	39.48	-83.47	22.74	-39.48	83.47	-22.74	0.000%
12	22.03	-111.29	38.07	-22.03	111.29	-38.07	0.000%
13	22.03	-83.47	38.07	-22.03	83.47	-38.07	0.000%
14	0.00	-111.29	43.96	0.00	111.29	-43.96	0.000%
15	0.00	-83.47	43.96	0.00	83.47	-43.96	0.000%
16	-22.03	-111.29	38.07	22.03	111.29	-38.07	0.000%
17	-22.03	-83.47	38.07	22.03	83.47	-38.07	0.000%
18	-38.15	-111.29	21.98	38.15	111.29	-21.98	0.000%
19	-38.15	-83.47	21.98	38.15	83.47	-21.98	0.000%
20	-44.05	-111.29	0.00	44.05	111.29	-0.00	0.000%
21	-44.05	-83.47	0.00	44.05	83.47	-0.00	0.000%
22	-39.48	-111.29	-22.74	39.48	111.29	22.74	0.000%
23	-39.48	-83.47	-22.74	39.48	83.47	22.74	0.000%
24	-22.03	-111.29	-38.07	22.03	111.29	38.07	0.000%
25	-22.03	-83.47	-38.07	22.03	83.47	38.07	0.000%
26	0.00	-173.84	0.00	0.00	173.84	-0.00	0.000%
27	0.00	-173.84	-12.34	0.00	173.84	12.34	0.000%
28	6.18	-173.84	-10.69	-6.18	173.84	10.69	0.000%
29	10.71	-173.84	-6.17	-10.71	173.84	6.17	0.000%
30	12.36	-173.84	0.00	-12.36	173.84	-0.00	0.000%
31	10.71	-173.84	6.17	-10.71	173.84	-6.17	0.000%
32	6.18	-173.84	10.69	-6.18	173.84	-10.69	0.000%
33	0.00	-173.84	12.34	0.00	173.84	-12.34	0.000%
34	-6.18	-173.84	10.69	6.18	173.84	-10.69	0.000%
35	-10.71	-173.84	6.17	10.71	173.84	-6.17	0.000%
36	-12.36	-173.84	0.00	12.36	173.84	-0.00	0.000%
37	-10.71	-173.84	-6.17	10.71	173.84	6.17	0.000%
38	-6.18	-173.84	-10.69	6.18	173.84	10.69	0.000%
39	0.00	-92.74	-10.35	0.00	92.74	10.35	0.000%
40	5.19	-92.74	-8.96	-5.19	92.74	8.96	0.000%
41	8.98	-92.74	-5.17	-8.98	92.74	5.17	0.000%
42	10.37	-92.74	0.00	-10.37	92.74	-0.00	0.000%
43	9.29	-92.74	5.36	-9.29	92.74	-5.36	0.000%
44	5.19	-92.74	8.96	-5.19	92.74	-8.96	0.000%
45	0.00	-92.74	10.35	0.00	92.74	-10.35	0.000%
46	-5.19	-92.74	8.96	5.19	92.74	-8.96	0.000%
47	-8.98	-92.74	5.17	8.98	92.74	-5.17	0.000%
48	-10.37	-92.74	0.00	10.37	92.74	-0.00	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
49	-9.29	-92.74	-5.36	9.29	92.74	5.36	0.000%
50	-5.19	-92.74	-8.96	5.19	92.74	8.96	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00022073
3	Yes	5	0.00000001	0.00010958
4	Yes	6	0.00000001	0.00020328
5	Yes	6	0.00000001	0.00007006
6	Yes	6	0.00000001	0.00021026
7	Yes	6	0.00000001	0.00007274
8	Yes	5	0.00000001	0.00009376
9	Yes	4	0.00000001	0.00094067
10	Yes	6	0.00000001	0.00023086
11	Yes	6	0.00000001	0.00007907
12	Yes	6	0.00000001	0.00020173
13	Yes	6	0.00000001	0.00006936
14	Yes	5	0.00000001	0.00022105
15	Yes	5	0.00000001	0.00010968
16	Yes	6	0.00000001	0.00021545
17	Yes	6	0.00000001	0.00007454
18	Yes	6	0.00000001	0.00020858
19	Yes	6	0.00000001	0.00007184
20	Yes	5	0.00000001	0.00009388
21	Yes	4	0.00000001	0.00094170
22	Yes	6	0.00000001	0.00021813
23	Yes	6	0.00000001	0.00007427
24	Yes	6	0.00000001	0.00021743
25	Yes	6	0.00000001	0.00007541
26	Yes	4	0.00000001	0.00016229
27	Yes	6	0.00000001	0.00019908
28	Yes	6	0.00000001	0.00025099
29	Yes	6	0.00000001	0.00025281
30	Yes	6	0.00000001	0.00019898
31	Yes	6	0.00000001	0.00026331
32	Yes	6	0.00000001	0.00025693
33	Yes	6	0.00000001	0.00020421
34	Yes	6	0.00000001	0.00026904
35	Yes	6	0.00000001	0.00026708
36	Yes	6	0.00000001	0.00020388
37	Yes	6	0.00000001	0.00025714
38	Yes	6	0.00000001	0.00026346
39	Yes	4	0.00000001	0.00022545
40	Yes	4	0.00000001	0.00068662
41	Yes	4	0.00000001	0.00075244
42	Yes	4	0.00000001	0.00014844
43	Yes	4	0.00000001	0.00089540
44	Yes	4	0.00000001	0.00068101
45	Yes	4	0.00000001	0.00022725
46	Yes	4	0.00000001	0.00082127
47	Yes	4	0.00000001	0.00074218
48	Yes	4	0.00000001	0.00014940
49	Yes	4	0.00000001	0.00075776
50	Yes	4	0.00000001	0.00084362

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	225.79 - 197.75	34.6717	49	1.52	0.01
L2	201.83 - 162.72	27.3089	49	1.38	0.00
L3	167.86 - 120.09	18.2004	49	1.14	0.00
L4	126.48 - 78.99	9.7569	49	0.78	0.00
L5	86.57 - 38.92	4.3925	49	0.48	0.00
L6	47.64 - 0	1.3289	49	0.25	0.00

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
228.00	Platform Mount (10' LP 101-1)	49	34.6717	1.52	0.01	37522
226.00	Lightning Rod 5/8"x5'	49	34.6717	1.52	0.01	37522
207.00	Platform Mount [10.8' LP 712-1]	49	28.8535	1.42	0.00	9984
193.00	Sabre C10857333C [SM 504-3]	49	24.7634	1.33	0.00	7629
185.00	Platform Mount [LP 712-1]	49	22.5629	1.27	0.00	7427
173.00	Side Arm Mount [SO 102-3]	49	19.4572	1.18	0.00	7143
172.00	Platform Mount [LP 1201-1]	49	19.2092	1.18	0.00	7120
113.00	Beacon side markers	49	7.6626	0.67	0.00	7313
72.00	Side Arm Mount [SO 701-1]	49	3.0017	0.39	0.00	8813

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	225.79 - 197.75	148.3730	22	6.52	0.02
L2	201.83 - 162.72	116.9275	22	5.93	0.02
L3	167.86 - 120.09	77.9763	22	4.90	0.01
L4	126.48 - 78.99	41.8151	22	3.36	0.00
L5	86.57 - 38.92	18.8233	22	2.08	0.00
L6	47.64 - 0	5.6933	22	1.08	0.00

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
228.00	Platform Mount (10' LP 101-1)	22	148.3730	6.52	0.02	9076
226.00	Lightning Rod 5/8"x5'	22	148.3730	6.52	0.02	9076
207.00	Platform Mount [10.8' LP 712-1]	22	123.5262	6.07	0.02	2412
193.00	Sabre C10857333C [SM 504-3]	22	106.0483	5.69	0.02	1827
185.00	Platform Mount [LP 712-1]	22	96.6401	5.46	0.01	1774
173.00	Side Arm Mount [SO 102-3]	22	83.3546	5.08	0.01	1699
172.00	Platform Mount [LP 1201-1]	22	82.2933	5.04	0.01	1693
113.00	Beacon side markers	22	32.8401	2.89	0.00	1714
72.00	Side Arm Mount [SO 701-1]	22	12.8622	1.68	0.00	2058

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	225.79 - 197.75 (1)	TP28.6563x21.5x0.1875	28.04	0.00	0.0	16.3228	-8.25	954.88	0.009
L2	197.75 - 162.72 (2)	TP37.0938x27.24x0.375	39.11	0.00	0.0	42.1631	-26.12	2466.54	0.011
L3	162.72 - 120.09 (3)	TP47.1563x35.0487x0.4375	47.77	0.00	0.0	62.6258	-40.02	3663.61	0.011
L4	120.09 - 78.99 (4)	TP56.6563x44.6617x0.5	47.49	0.00	0.0	86.0817	-57.65	5035.78	0.011
L5	78.99 - 38.92 (5)	TP65.7813x53.7418x0.5625	47.65	0.00	0.0	112.5060	-79.94	6581.62	0.012
L6	38.92 - 0 (6)	TP74.5x62.453x0.5625	47.64	0.00	0.0	132.0060	-111.27	7722.36	0.014

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	225.79 - 197.75 (1)	TP28.6563x21.5x0.1875	214.45	596.72	0.359	0.00	596.72	0.000
L2	197.75 - 162.72 (2)	TP37.0938x27.24x0.375	944.78	2275.65	0.415	0.00	2275.65	0.000
L3	162.72 - 120.09 (3)	TP47.1563x35.0487x0.4375	2238.82	4220.43	0.530	0.00	4220.43	0.000
L4	120.09 - 78.99 (4)	TP56.6563x44.6617x0.5	3671.33	6884.04	0.533	0.00	6884.04	0.000
L5	78.99 - 38.92 (5)	TP65.7813x53.7418x0.5625	5232.53	10359.42	0.505	0.00	10359.42	0.000
L6	38.92 - 0 (6)	TP74.5x62.453x0.5625	7322.68	13554.17	0.540	0.00	13554.17	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	225.79 - 197.75 (1)	TP28.6563x21.5x0.1875	12.79	286.46	0.045	1.70	688.08	0.002
L2	197.75 - 162.72 (2)	TP37.0938x27.24x0.375	28.93	739.96	0.039	3.01	2295.53	0.001
L3	162.72 - 120.09 (3)	TP47.1563x35.0487x0.4375	33.57	1099.08	0.031	3.00	4340.89	0.001
L4	120.09 - 78.99 (4)	TP56.6563x44.6617x0.5	38.02	1510.73	0.025	3.00	7176.32	0.000
L5	78.99 - 38.92 (5)	TP65.7813x53.7418x0.5625	41.93	1974.49	0.021	2.84	10896.33	0.000
L6	38.92 - 0 (6)	TP74.5x62.453x0.5625	45.60	2316.71	0.020	2.84	15000.83	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

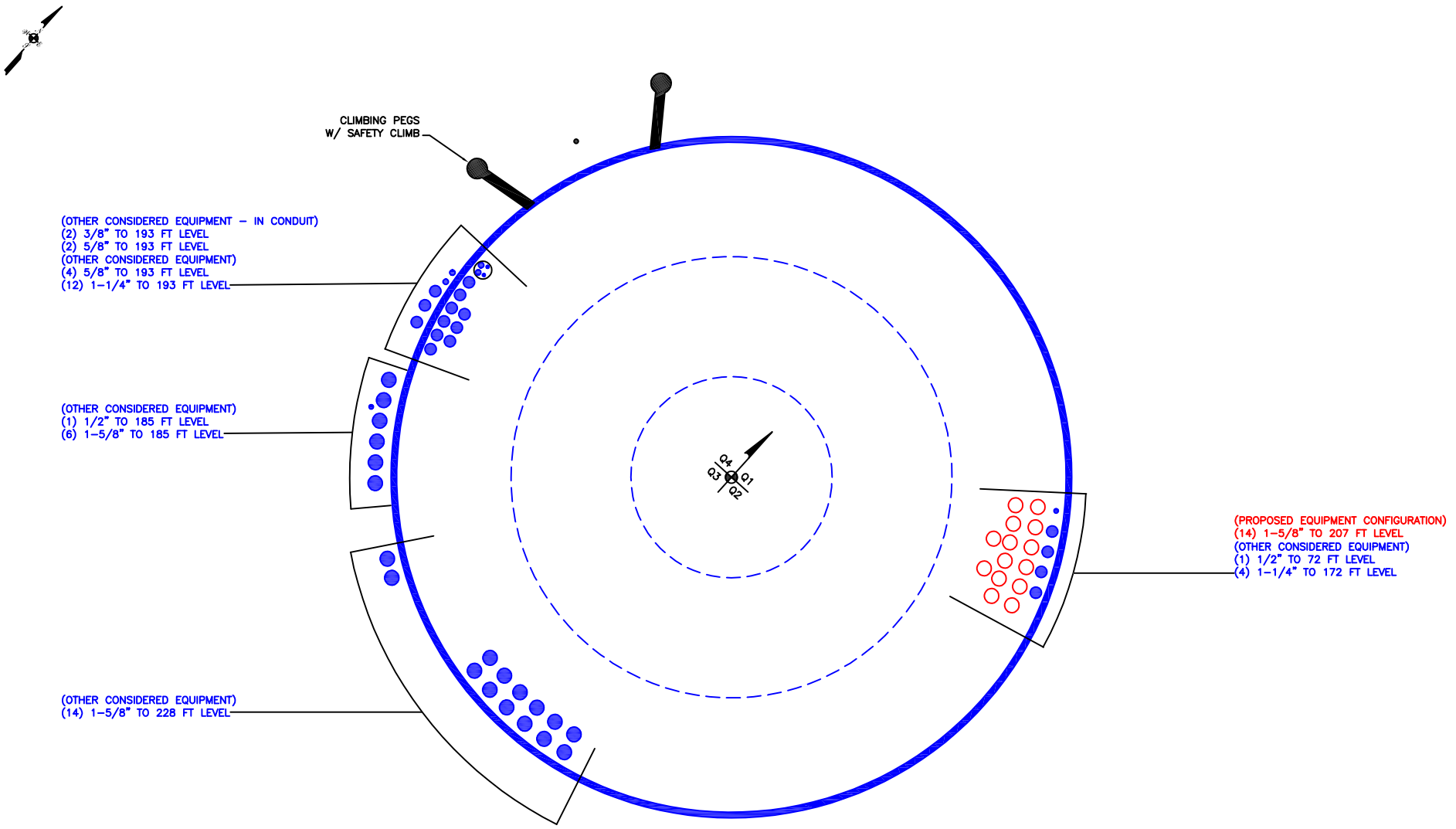
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	225.79 - 197.75 (1)	0.009	0.359	0.000	0.045	0.002	0.370	1.050	4.8.2
L2	197.75 - 162.72 (2)	0.011	0.415	0.000	0.039	0.001	0.427	1.050	4.8.2
L3	162.72 - 120.09 (3)	0.011	0.530	0.000	0.031	0.001	0.542	1.050	4.8.2
L4	120.09 - 78.99 (4)	0.011	0.533	0.000	0.025	0.000	0.545	1.050	4.8.2
L5	78.99 - 38.92 (5)	0.012	0.505	0.000	0.021	0.000	0.518	1.050	4.8.2
L6	38.92 - 0 (6)	0.014	0.540	0.000	0.020	0.000	0.555	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	225.79 - 197.75	Pole	TP28.6563x21.5x0.1875	1	-8.25	1002.63	35.3	Pass
L2	197.75 - 162.72	Pole	TP37.0938x27.24x0.375	2	-26.12	2589.87	40.7	Pass
L3	162.72 - 120.09	Pole	TP47.1563x35.0487x0.4375	3	-40.02	3846.79	51.7	Pass
L4	120.09 - 78.99	Pole	TP56.6563x44.6617x0.5	4	-57.65	5287.57	51.9	Pass
L5	78.99 - 38.92	Pole	TP65.7813x53.7418x0.5625	5	-79.94	6910.70	49.3	Pass
L6	38.92 - 0	Pole	TP74.5x62.453x0.5625	6	-111.27	8108.48	52.9	Pass
							Summary	
						Pole (L6)	52.9	Pass
						RATING =	**52.9**	**Pass**

APPENDIX B

BASE LEVEL DRAWING


CLIMBING PEGS
W/ SAFETY CLIMB
(OTHER CONSIDERED EQUIPMENT – IN CONDUIT)
(2) 3/8" TO 193 FT LEVEL
(2) 5/8" TO 193 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(4) 5/8" TO 193 FT LEVEL
(12) 1-1/4" TO 193 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 185 FT LEVEL
(6) 1-5/8" TO 185 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(14) 1-5/8" TO 228 FT LEVEL
Q4
Q1
Q3
Q2
(PROPOSED EQUIPMENT CONFIGURATION)
(14) 1-5/8" TO 207 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 72 FT LEVEL
(4) 1-1/4" TO 172 FT LEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

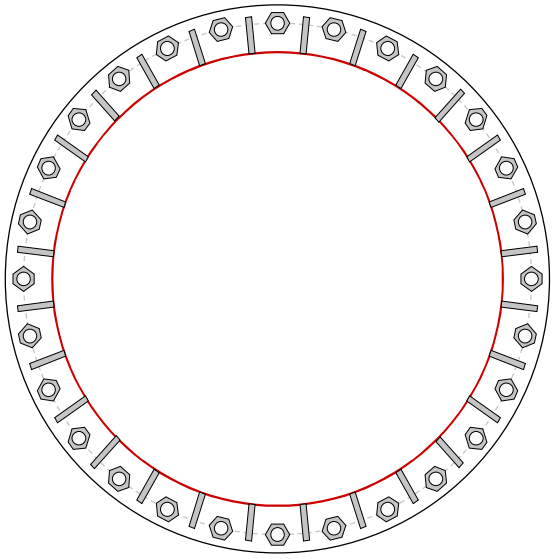
Monopole Base Plate Connection

Site Info	
BU #	806358
Site Name	NHV 109 943107
Order #	524459 Rev.0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.5625

Applied Loads	
Moment (kip-ft)	7322.69
Axial Force (kips)	111.27
Shear Force (kips)	45.60

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(28) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 84" BC

Base Plate Data

90" OD x 2.5" Plate (A871-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

(28) 18"H x 6"W x 1"T, Notch: 1"
plate: Fy= 50 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.5" groove, 45° dbl bevel, 0.5" fillet
vert. weld: 0.5" fillet

Pole Data

74.5" x 0.5625" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary		*(units of kips, kip-in)*
Pu_c = 153.37	ϕPn_c = 268.39	**Stress Rating**
Vu = 1.63	ϕVn = 120.77	**54.4%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary		
Max Stress (ksi):	20.15	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**35.5%**	**Pass**

Stiffener Summary		
Horizontal Weld:	**39.9%**	**Pass**
Vertical Weld:	**25.4%**	**Pass**
Plate Flexure+Shear:	**8.9%**	**Pass**
Plate Tension+Shear:	**40.2%**	**Pass**
Plate Compression:	**39.5%**	**Pass**
Pole Summary		
Punching Shear:	**6.2%**	**Pass**

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Overland Park, KS 66211
Phone: (913) 458-6909

Client:	Crown Castle	*Design:*	NJE
Project:	400087 (806358.1860417)	*Date:*	7/7/2020
Site:	NHV 109 943107	*Verify:*	TCN
Title:	Foundation Design Reaction Comparison	*Date:*	7/7/2020
		Code:	TIA-222-H

Template Version 1.8

FOUNDATION ANALYSIS:

Original Tower Design Reactions:

Drilled Caisson:

Shear:	68.6	Kip
Overturning moment:	11392.8	Kip-ft

Note: Design reactions are multiplied by 1.35 for comparison as allowed by TIA-222-H Section 15.6.2.

TnxTower Reactions:

Drilled Caisson:

Shear:	45.6	Kip
Overturning moment:	7322.7	Kip-ft

Stress Ratio:

Drilled Caisson:

Shear:	**63.3%**
Overturning moment:	**61.2%**

Note: Ratings per TIA-222-H Section 15.5.

Conclusion:

When the calculated reactions are compared to the original design reactions, the existing foundation is considered to have been designed and constructed with adequate capacity to support the existing and proposed loads.

Controlling Foundation Stress Ratio: **61.2%**

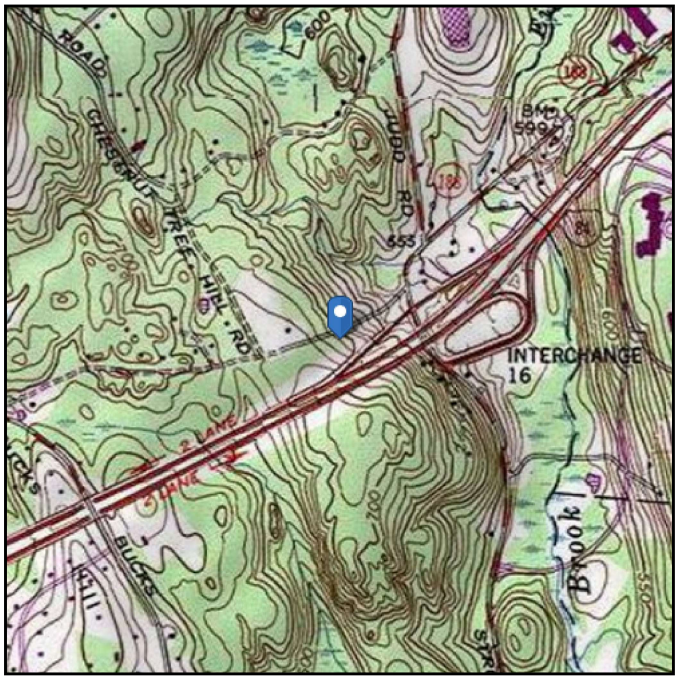
Note: Although the stress ratio for shear is greater than the stress ratio for overturning moment, the moment reaction is the governing criteria for a monopole drilled shaft foundation.

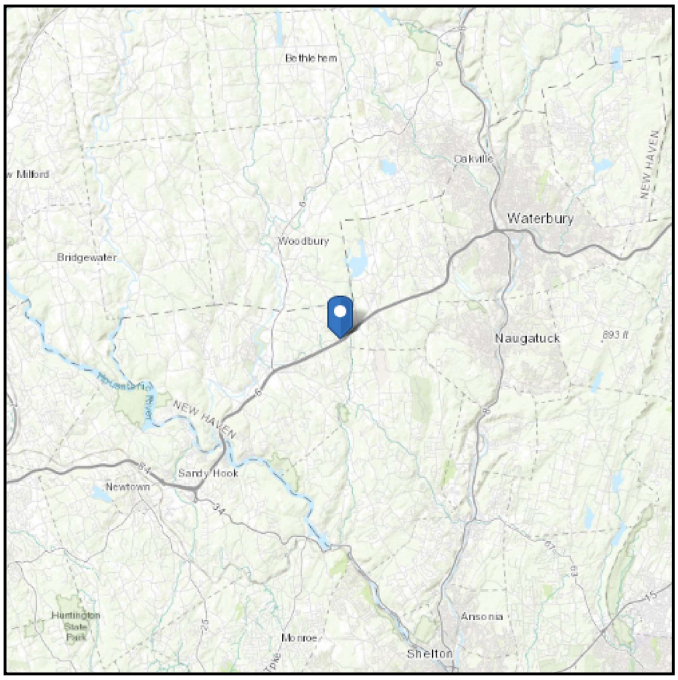
ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 666.03 ft (NAVD 88)
Latitude: 41.493589
Longitude: -73.165272





Wind

Results:

Wind Speed:	119 Vmph	*120 per Local Jurisdiction
10-year MRI	76 Vmph	
25-year MRI	86 Vmph	
50-year MRI	91 Vmph	
100-year MRI	98 Vmph	
Data Source:	ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014	
Date Accessed:	Mon Jul 06 2020	

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

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

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

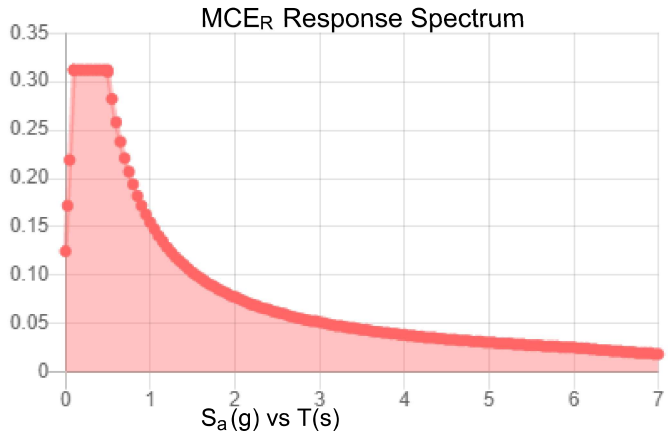
Seismic

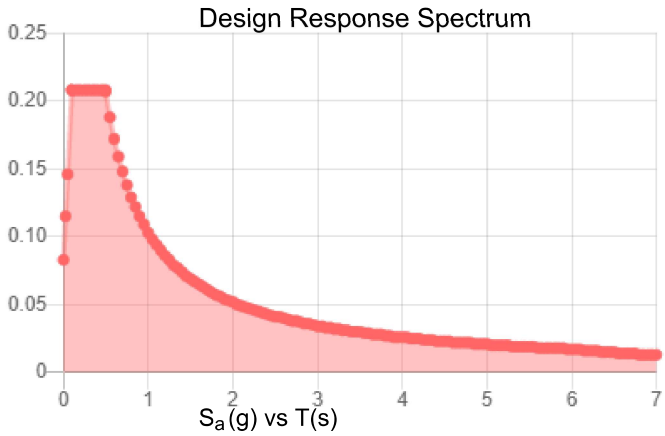
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.195	S_{DS} :	0.208
S_1 :	0.065	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.102
S_{MS} :	0.312	PGA_M :	0.163
S_{M1} :	0.155	F_{PGA} :	1.595
		I_e :	1

Seismic Design Category B





Data Accessed: Mon Jul 06 2020

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

Ice

Results:

Ice Thickness:	0.75 in.
Concurrent Temperature:	15 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Mon Jul 06 2020

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

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

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Exhibit E

Mount Analysis

Date: **June 30, 2020**

Darcy Tarr
Crown Castle
6325 Ardey Kell Rd., Suite 600
Charlotte, NC 28277
(704) 405.6589

POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Akron, OH 44312
(330) 961.7432
mhoudeshell@podgrp.com

Subject:	**Mount Modification Analysis Report**	
Carrier Designation:	**T-Mobile**	
	Carrier Site ID:	**CT11127A**
	Carrier Site Name:	**Middlebury/ I-84 X 16**
Crown Castle Designation:	**Crown Castle BU Number:**	**806358**
	Crown Castle Site Name:	**NHV 109 943107**
	Crown Castle JDE Job Number:	**614600**
	Crown Castle Order Number:	**524459 Rev 0**
Engineering Firm Designation:	**POD Report Designation:**	**20-66148**
Site Data:	**1432 Old Waterbury Road, Southbury, New Haven County, CT, 06488** **Latitude 41°29'36.92" Longitude -73°09'58.98"**	
Structure Information:	**Tower Height & Type:**	**226.0 ft Monopole**
	Mount Elevation:	**205 ft**
	Mount Type:	**10.8 ft Low Profile Platform**

Dear Darcy Tarr,

POD Group is pleased to submit this "Mount Modification Analysis Report" to determine the structural integrity of T-Mobile's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned 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:

10.8 ft Low Profile Platform (Multiple Sector) Sufficient*
***See Section 4.1 of this report for the loading and structural modifications required in order for the mount to support the loading listed in Table 1.**

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as required by the Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount structural analysis prepared by: Nathan Gilkerson

Respectfully submitted by:



6/30/20

Jason Cheronis, P.E.
Connecticut PE #: PEN.0032793

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1) INTRODUCTION

This mount is an existing 10.8 ft Low Profile Platform. This mount is installed at the 205 ft elevation of the 226.0 ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2015 IBC, 2018 CSBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	120 mph
Exposure Category:	B
Topographic Factor at Base:	1.000
Topographic Factor at Mount:	1.000
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.198
Seismic S_1:	0.065
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb
Man Live Load at Mount Pipes:	500 lb

Table 1 - Final Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
205	207	3	Ericsson	AIR6449 B41	10.8 ft Low Profile Platform	-
		3	RFS	APX16DWV-16DWV-S-E-A20		
		3	RFS	APXVAARR24_43-U-NA20_T-MOBILE		
		3	CommScope	ATSBT-TOP-MF-4G		
		3	Ericsson	RADIO 4415 B66A_CCIV3		
		3	Ericsson	RADIO 4424		
		3	Ericsson	RADIO 4449 B71 B85A_T-MOBILE		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Application	-	Crown Castle Order ID: 524459 Rev 0 Dated: 06/09/2020	Crown Castle
Level Drawing	-	Crown Castle Sheet # A1-205 Dated: 06/10/2020	Crown Castle
RFDS	-	Crown Castle Site ID: CT11127A Dated: 05/19/2020	Crown Castle
Handrail Specification Sheet	-	SitePro1 Part #: HRK12-HD Dated: 03/31/2015	SitePro1
Mount Modification Design Drawings	-	POD Project #: 20-66148 Dated: 06/30/2020	POD

3.1) Analysis Method

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

A tool internally developed, using Microsoft Excel, by POD Group, was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the calculations are included in Appendices B.

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

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) The weight of the mount was increased 10% in the analysis to account for connections, coax, and jumpers.
5) Member sizes have been assumed from photos of the site and experience with similar mounting systems. If the sizes assumed in this report differ from the actual member sizes, POD Group shall be contacted immediately, and the results of the analysis shall be considered null and void.
6) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
7) Steel grades have been assumed as follows, unless noted otherwise:
    a. Channel, Solid Round, Angle, Plate — ASTM A36 (GR 36)
    b. HSS (Rectangular) — ASTM 500 (GR B-46)
    c. Pipe — ASTM A53 (GR 35)
    d. Connection Bolts — ASTM A325

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and POD Group should be allowed to review any new information to determine its effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (10.8 ft Low Profile Platform)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
-	Connection Angle	CONNANGLE3	205	41.6	Pass
	Corner	CORNER1	205	76.3	Pass
	Face	FACE2,2	205	57.6	Pass
	Mount Pipe	MP BETA2	205	66.1	Pass
	Standoff	SO1	205	71.0	Pass
	Rail	M78	205	41.8	Pass

Structure Rating (max from all components) =	76.3%

4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. In order for the results of the analysis to be considered valid, the structural modifications listed below must be completed.

1. Top-rail kit, SitePro1 Handrail Kit (Part #: HRK12-HD)

Engineering detail drawings have been provided in Appendix E – Mount Modification Design Drawings. Connection from the mount to the tower and local stresses on the tower are sufficient.

5) DISCLAIMER OF WARRANTIES

POD Group has not performed a site visit to the structure to verify the member sizes or antenna/coax loading unless noted otherwise. If the existing conditions are not as represented in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the structure or foundation. This report does not replace a full structure inspection. The structure, foundations, and mounting systems are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by POD Group in connection with this Structural Analysis are limited to a computer analysis of the structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

POD Group does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing structure. POD Group provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

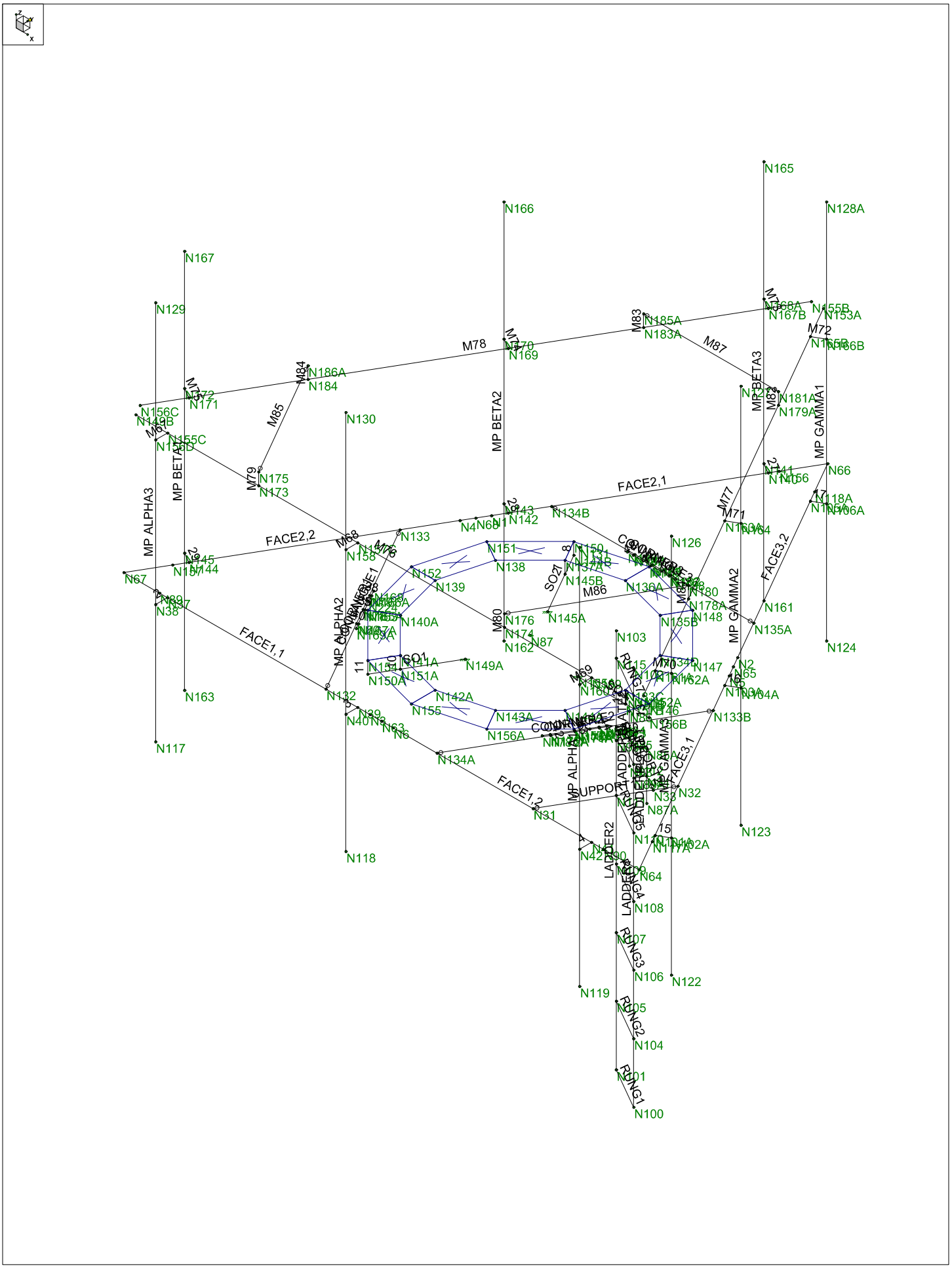
It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

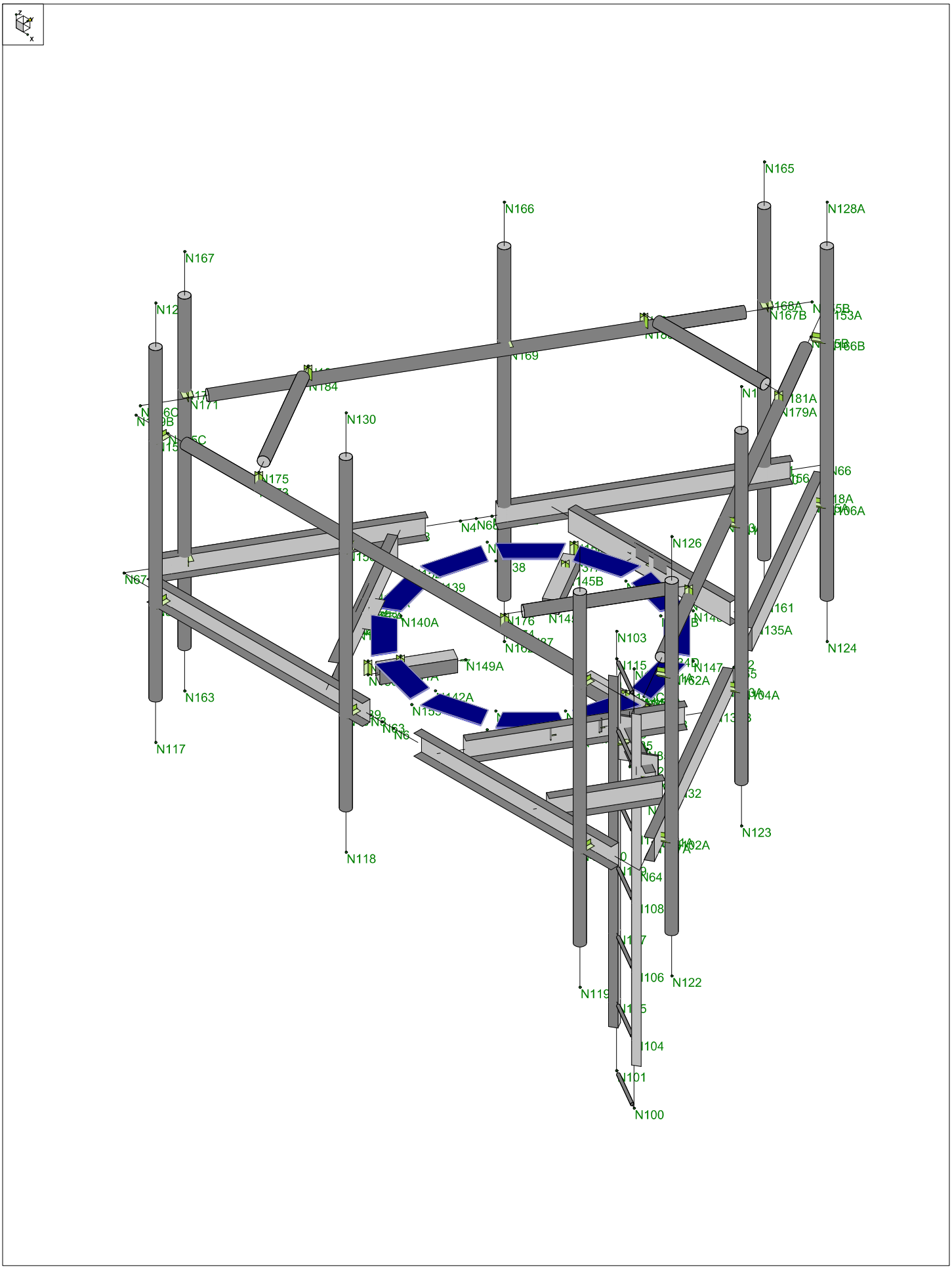
The attached sketches are a schematic representation of the analyzed structure. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from POD Group, but are beyond the scope of this report.

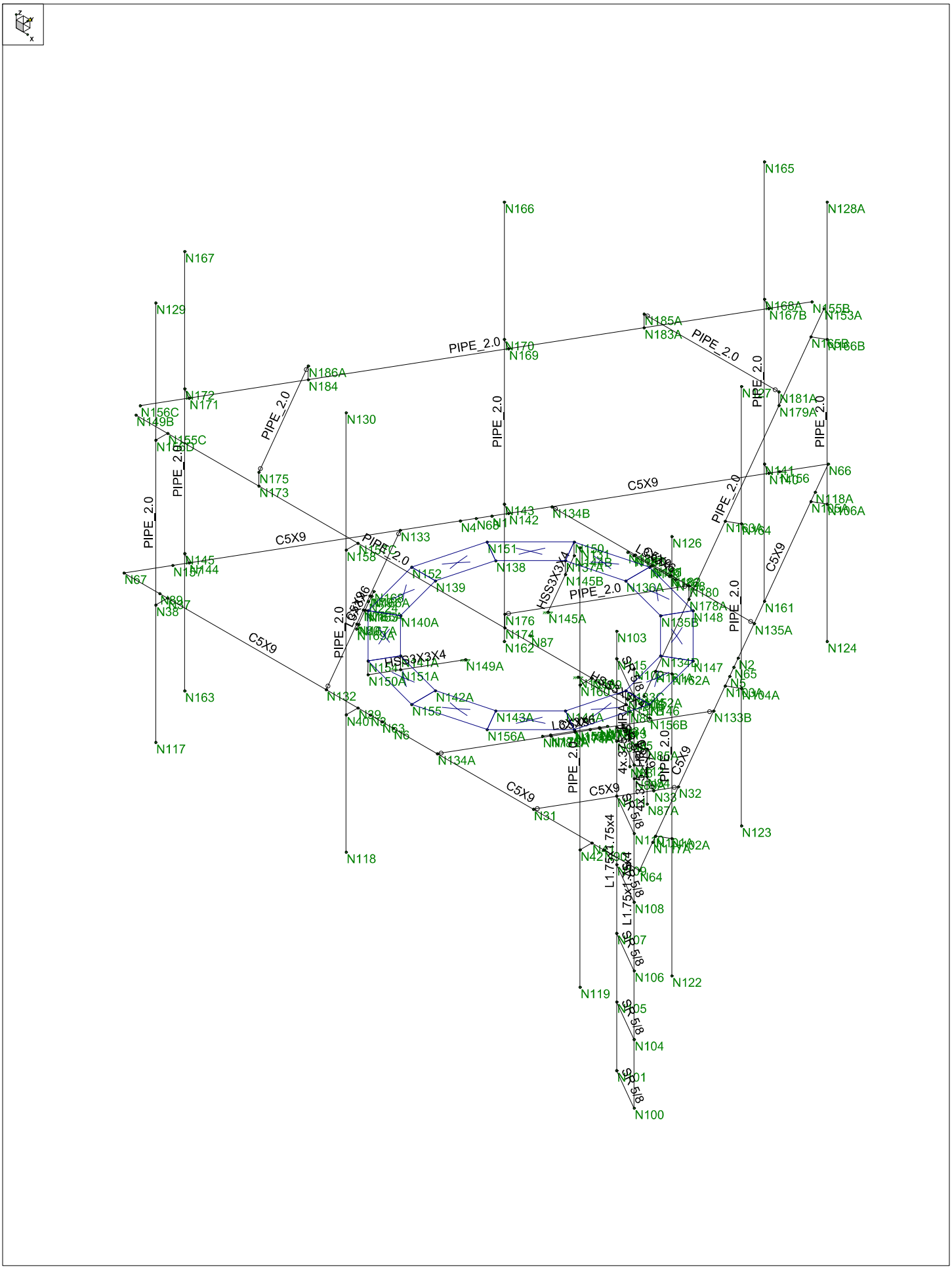
POD Group makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this structure. POD Group will not be responsible whatsoever, for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of POD Group pursuant to this report will be limited to the total fee received for preparation of this report.

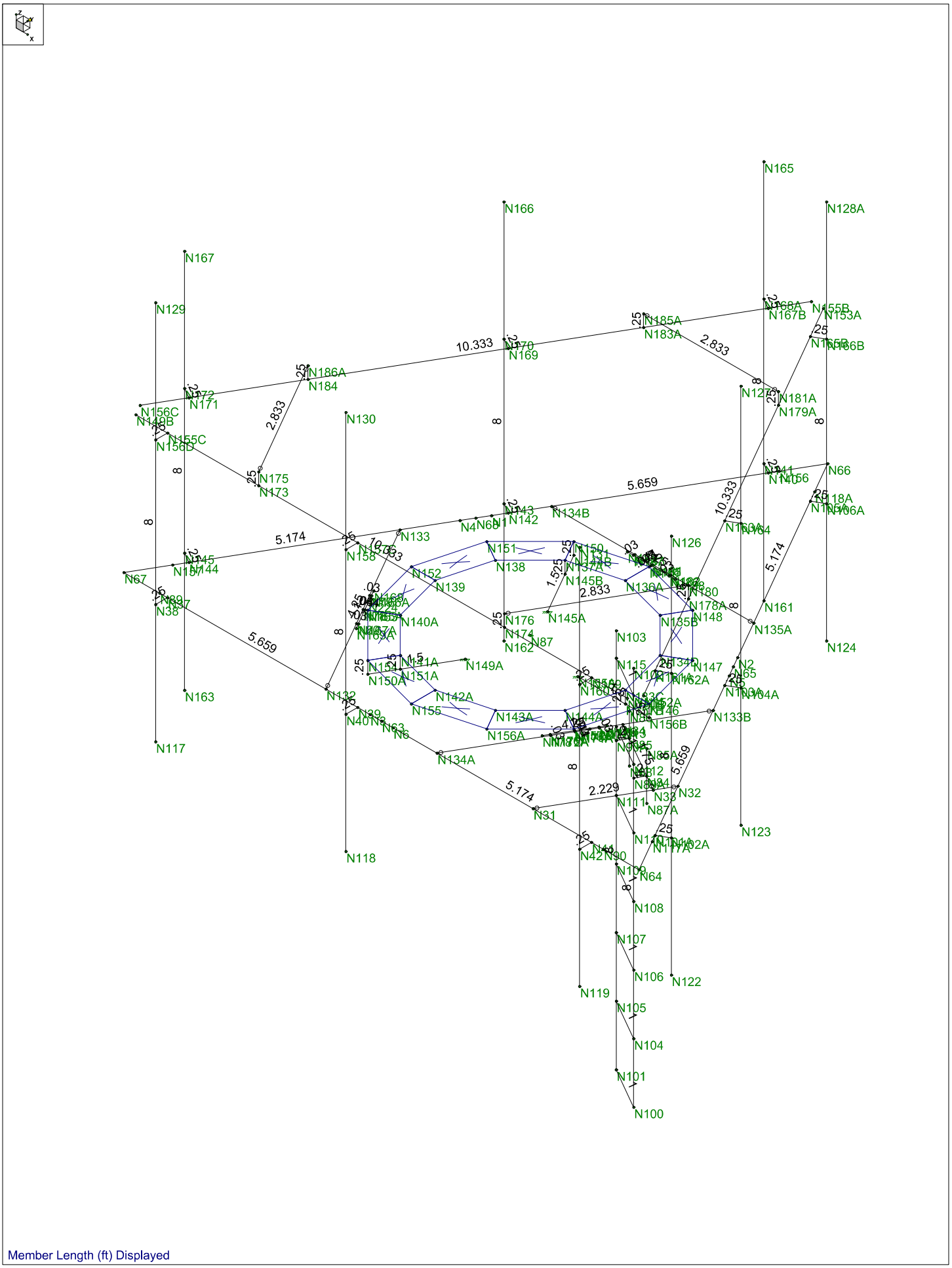
APPENDIX A

Wire Frame and Rendered Models

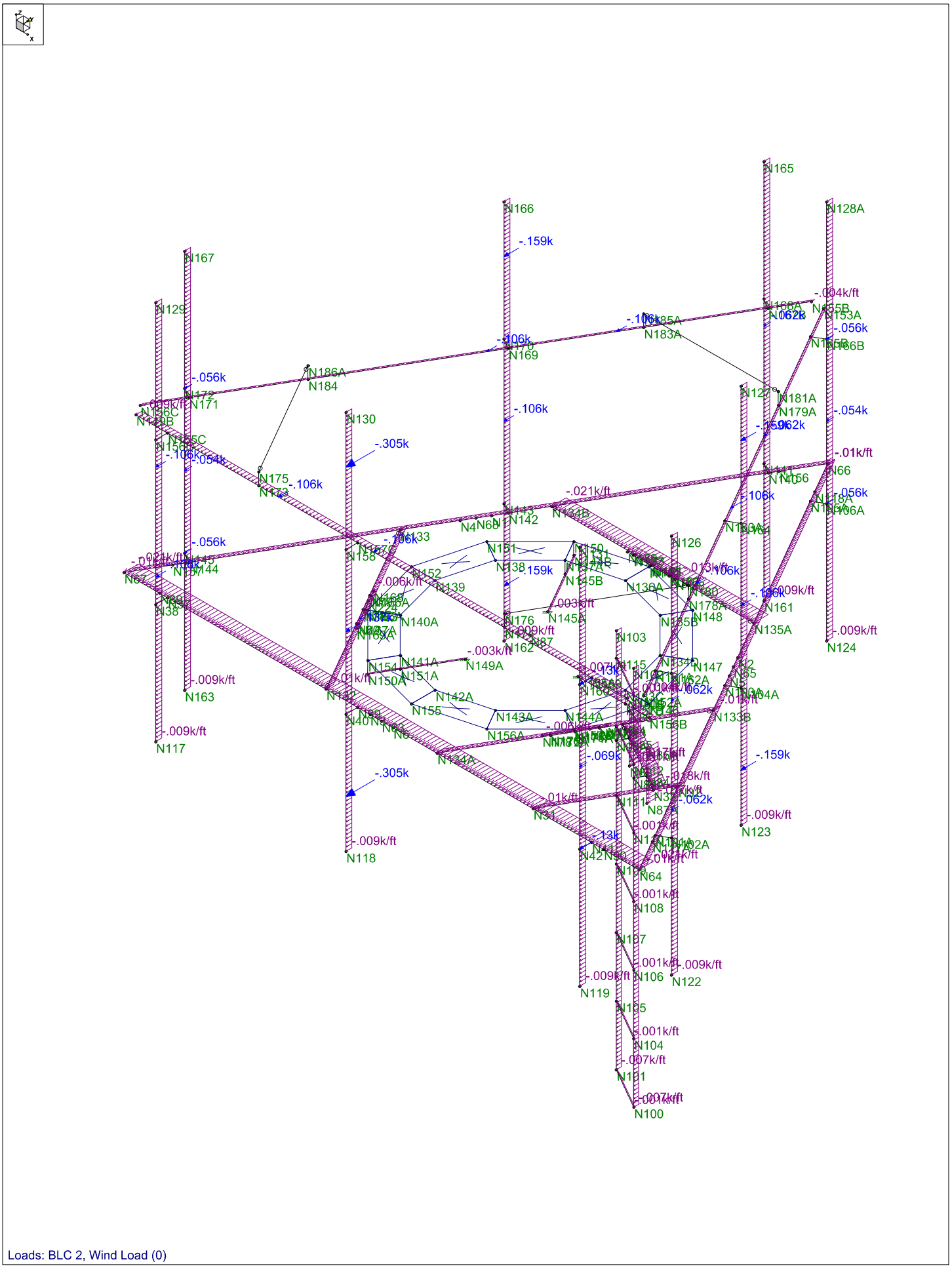

N165
N166
N128A
N167
N129
N168A
N155B
N153A
N167B
M83
N185A
N183A
M87
M72
N166B
M78
N169
M84
N186A
N184
N172
N171
N156C
N149B
M85
N130
MP BETA2
MP BETA3
N181A
N179A
M82
MP GAMMA1
N155C
M79
N175
N173
FACE2,1
N66
N118A
N106A
N143
N142
N134B
M77
M71
N104
FACE2,2
N133
N126
N151
N150
N138
N152
N139
SO21
N145B
M86
N130A
N180
N178A
N161
N135A
N124
N176
N145A
N135B
N148
N174
N162
N87
N103
N147
N134D
N149A
N154
N151A
N150A
N140A
FACE1,1
N132
N142A
N155
N143A
N156A
N133B
N163
N39
N40
N63
N6
N134A
FACE1,2
N31
N32
N87A
N123
N118
N64
N108
N107
N106
N122
N119
N105
N104
N101
N100
MP ALPHA3
MP BETA1
MP ALPHA2
MP GAMMA2
FACE3,2
FACE3,1
SUPPORT LADDER1
LADDER2
RING3
RING2
RING1


N165
N166
N128A
N167
N168A
N167B
N153A
N169
N184
N171
N181A
N179A
N130
N175
N66
N126
N145B
N140A
N103
N149A
N147
N142A
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N101
N100

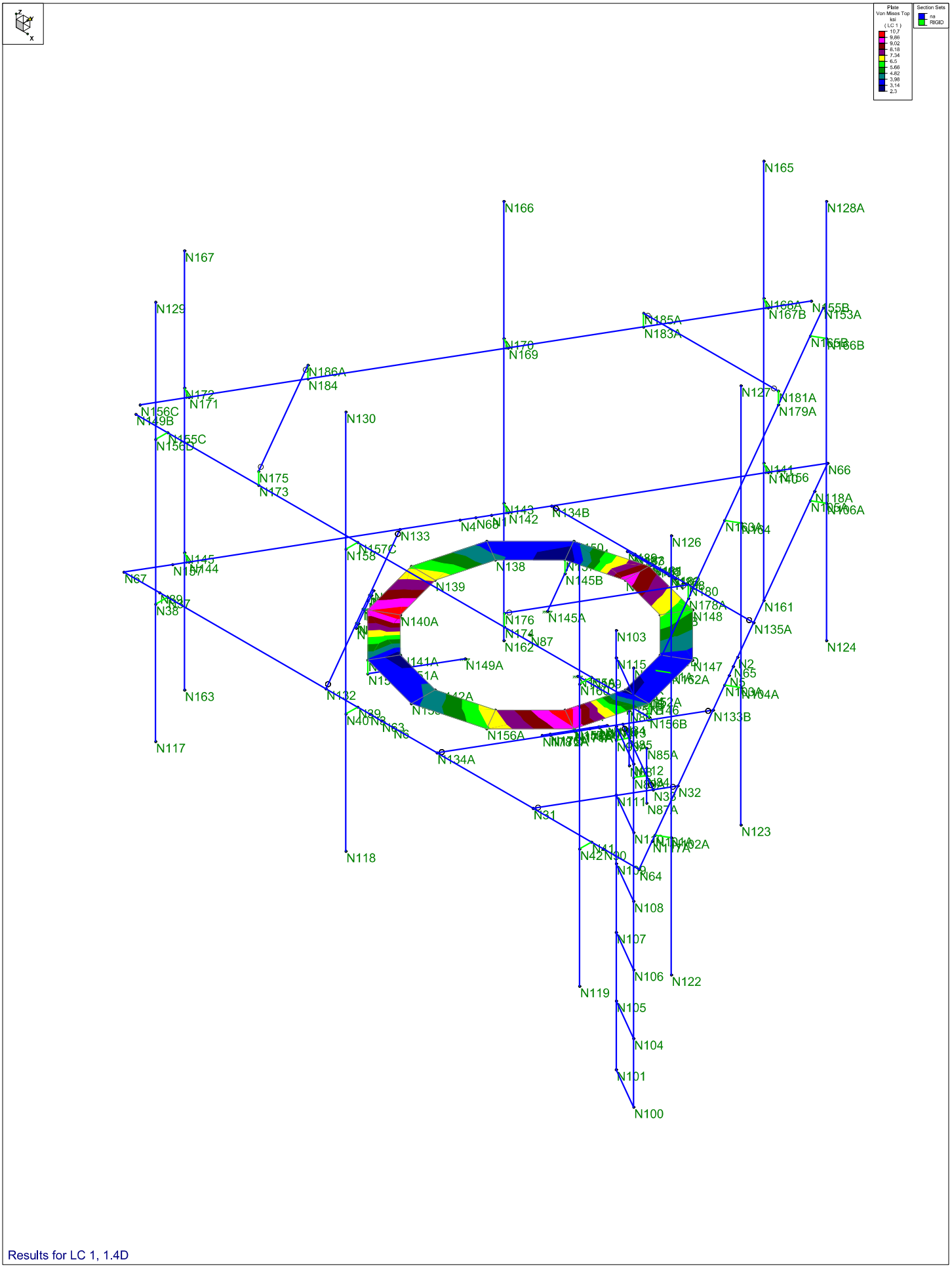

N165
N166
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N168A
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N167B
N185A
N183A
N166B
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N170
N169
N186A
N184
N172
N171
N156C
N149B
N155C
N130
N175
N173
N181A
N179A
N66
C5X9
N143
N134B
N142
N118A
N106A
N133
N126
N151
N158
N138
N152
N139
N145
N144
N157
N67
N89
N38
N140A
N176
N174
N162
N87
N145A
N103
N135B
N148
N178A
N180
N161
N135A
N124
N163
N132
N149A
N154
N151A
N150A
N142A
N155
N143A
N156A
N147
N2
N65
N5
N104A
N133B
N156B
N134A
N31
N32
N87A
N123
N117
N118
N64
N108
N107
N106
N122
N119
N105
N104
N101
N100
HSS3X3X4
L6X6X5/16
L1.75x1.75x4
4x.3125
C5X9
PIPE_2.0



Member Length (ft) Displayed



Loads: BLC 2, Wind Load (0)


Plate
Von Mises Top
ksi
(LC 1)
10.7
9.86
9.02
8.18
7.34
6.5
5.66
4.82
3.98
3.14
2.3
Section Sets
na
RIGID
N165
N166
N128A
N167
N129
N168A
N155B
N167B
N153A
N185A
N183A
N170
N169
N186A
N184
N172
N171
N156C
N149B
N155C
N156B
N130
N175
N173
N127
N181A
N179A
N66
N118A
N106A
N143
N142
N134B
N133
N157C
N158
N126
N145
N144
N67
N138
N145B
N139
N178A
N148
N161
N140A
N176
N145A
N135A
N174
N162
N87
N103
N124
N149A
N115
N147
N163
N132
N156A
N133B
N134A
N85A
N31
N32
N87A
N123
N118
N119
N64
N108
N107
N106
N122
N105
N104
N101
N100
Results for LC 1, 1.4D

APPENDIX B

Software Input Calculations

POD Job #	**20-66148**
Site Number	**806358**
Site Name	**NVH 109 943107**

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1		
V (Wind Speed)	120	I(ice)	1	Sms	0.317		
Zs	667			Sm1	0.156		
ti	1	Ss	0.198	Sds	0.211		
Vi	50	S1	0.065	Sd1	0.104		
Kzt	1	Soil Site Class	D (assumed)	Seismic Design Category			
Exposure	B	Fa	1.600	B			
zg	1200	Fv	2.400	Seismic Analysis Not Required			
α	7			R	2	TIA-222-H 16.7	
Kmin	0.7	Tower Type	Monopole	As	1	TIA-222-H 16.7	
G_H	1	Tower Height	226	Cs, Min	0.03	TIA-222-H 2.7.7.1.1	
Ke	0.98			Cs	0.1056	TIA-222-H 2.7.7.1.1	
K_D	0.95						
K_a	0.9						

Appurtenance Information

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity		MP #
AIR6449 B41	No		207	4	24		A/B/C	1	3	
APX16DWV-16DWV-S-E-A2(	No		207	4	36		A/B/C	1	1	
APXVAARR24_43-U-NA20_T	No		207	4	72		A/B/C	1	2	
ATS8T-TOP-MF- 4G	No		207	4			A/B/C	1	2	
RADIO 4415 B66A_CCIV3	No		207	4			A/B/C	1	2	
RADIO 4424	No		207	4			A/B/C	1	1	
RADIO 4449 B71 B85A_T-M	No		207	4			A/B/C	1	2	

Mount Information

Elevation (ft)	205	Grating Thickness (in)	1
K_z	1.21	Grating Ice Weight (k/ft²)	0.015
Kiz	1.20		
tiz	1.20		

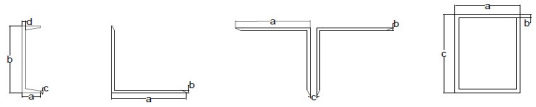
	Length (ft)	Width (in)	Centerline
Mount Pipes	8	2.375	207

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
RUNG	1	0.625	Yes	7
Rail (on)	10.33	2.375	Yes	
Rail (off)	10.33	2.375	No	

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D		Frame Member	# of Members
CONNANGLE	1	3	Angle		3	0.375			No	3
CORNER	4.25	5	Channel		1.89	5	0.32	0.325	No	3
FACE yes	10.833	5	Channel		1.89	5	0.32	0.325	Yes	2
FACE no	10.833	5	Channel		1.89	5	0.32	0.325	No	1
LADDER	8	1.75	Angle		1.75	0.25			Yes	2
LADDERPLATE	1	4	Channel		0	4	0	0.375	No	2
SQ	1.5	2.5	Square HSS		2.5	0.25	2.5		No	3
SUPPORT	2.229	5	Channel		1.89	5	0.32	0.325	No	2



Version 3.2

Appurtenance Wind Calculations

Model	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft$_2$)	$(EPA)_N$ (ft^2)	$(EPA)_T$(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
AIR6449 B41	33.1	20.6	8.6	104.0	1.22	41.59	5.11	2.24	0.213	0.093	0.183	0.183	0.093
APX16DWV-16DWV-S-E-A2(	55.9	13.3	3.2	40.7	1.22	41.59	6.26	1.50	0.260	0.062	0.211	0.211	0.062
APXVAARR24_43-U-NA20_T	95.9	24.0	8.7	153.3	1.22	41.59	14.67	5.32	0.610	0.221	0.513	0.513	0.221
ATSBT-TOP-MF- 4G	3.7	2.0	5.6	1.8	1.22	41.59	0.06	0.16	0.002	0.006	0.003	0.003	0.006
RADIO 4415 B66A_CCIV3	14.9	13.2	6.4	46.3	1.22	41.59	1.48	0.72	0.061	0.030	0.053	0.053	0.030
RADIO 4424	16.5	13.5	9.6	88.0	1.22	41.59	1.67	1.19	0.069	0.049	0.064	0.064	0.049
RADIO 4449 B71 B85A_T-M(	17.9	13.2	10.6	73.2	1.22	41.59	1.77	1.43	0.074	0.059	0.070	0.070	0.059

Appurtenance Ice Calculations

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kiz	qz (lb/ft$_2$)	$(EPA)_N$ (ft^2)	$(EPA)_T$(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
AIR6449 B41	1.20	35.50	23.00	11.00	101.18	1.20	7.22	3.58	1.75	0.026	0.013	0.023	0.023	0.013
APX16DWV-16DWV-S-E-A2(	1.20	58.30	15.70	5.55	88.87	1.20	7.22	6.94	2.47	0.050	0.018	0.042	0.042	0.018
APXVAARR24_43-U-NA20_T	1.20	98.30	26.40	11.10	285.00	1.20	7.22	14.88	6.26	0.107	0.045	0.092	0.092	0.045
ATSBT-TOP-MF- 4G	1.20	6.10	4.40	8.03	5.65	1.20	7.22	0.12	0.22	0.001	0.002	0.001	0.001	0.002
RADIO 4415 B66A_CCIV3	1.20	17.30	15.60	8.80	36.23	1.20	7.22	1.18	0.67	0.009	0.005	0.008	0.008	0.005
RADIO 4424	1.20	18.90	15.90	12.00	47.64	1.20	7.22	1.32	1.00	0.010	0.007	0.009	0.009	0.007
RADIO 4449 B71 B85A_T-M(	1.20	20.31	15.60	13.03	52.43	1.20	7.22	1.39	1.16	0.010	0.008	0.010	0.010	0.008

Round Members

Member	q_z (lb/ft^2)	Ar	C	Rr	Cf	EPA (ft^2)	Load (k/ft)	Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA (ft^2)	Load (k/ft)
	Wind Calculations										Ice Calculations				
RUNG	41.47	0.36	6.71	0.62	1.20	0.03	0.001	3.03	0.00	7.20	1.77	0.73	1.20	0.20	0.001

Flat Members

Member	q_z (lb/ft^2)	Af	Cf	EPA	Load (k/ft)	Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA	Load (k/ft)
	Wind Calculations								Ice Calculations				
CONNANGLE	41.47	0.75	2.00	0.45	0.009	5.40	0.01	7.20	1.35	0.73	2.00	0.60	0.002
CORNER	41.47	5.31	2.00	3.19	0.016	7.40	0.01	7.20	7.86	0.73	2.00	3.47	0.003
FACE yes	41.47	9.03	2.00	8.12	0.031	7.40	0.01	7.20	13.36	0.73	2.00	8.83	0.006
FACE no	41.47	4.51	2.00	8.12	0.016	7.40	0.01	7.20	6.68	0.73	2.00	8.83	0.003
LADDER	41.47	2.33	2.00	2.10	0.011	4.15	0.01	7.20	5.53	0.73	2.00	3.66	0.003
LADDERPLATE	41.47	0.67	2.00	0.60	0.012	6.40	0.01	7.20	1.07	0.73	2.00	0.71	0.003
SO	41.47	0.94	1.25	0.35	0.005	4.90	0.01	7.20	1.84	0.73	1.25	0.51	0.001
SUPPORT	41.47	1.86	2.00	1.67	0.016	7.40	0.01	7.20	2.75	0.73	2.00	1.82	0.003

Appurtenance Seismic Calculations

Model	Weight	Sds	ρ	Cs	As	Ev	Eh
AIR6449 B41	104.0	0.211	1.000	0.106	1.000	0.004	0.011
APX16DWV-16DWV-S-E-A2(	40.7	0.211	1.000	0.106	1.000	0.002	0.004
APXVAARR24_43-U-NA20_T	153.3	0.211	1.000	0.106	1.000	0.006	0.016
ATSBT-TOP-MF- 4G	1.8	0.211	1.000	0.106	1.000	0.000	0.000
RADIO 4415 B66A_CCIV3	46.3	0.211	1.000	0.106	1.000	0.002	0.005
RADIO 4424	88.0	0.211	1.000	0.106	1.000	0.004	0.009
RADIO 4449 B71 B85A_T-M(	73.2	0.211	1.000	0.106	1.000	0.003	0.008

Version 3.2

APPENDIX C

Software Analysis Output

Hot Rolled Steel Design Parameters

	Label	Shape	Length[...	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Funct...
1	CONNANGLE1	L3X3X6	1			Lbyy						Lateral
2	CONNANGLE2	L3X3X6	1			Lbyy						Lateral
3	CONNANGLE3	L3X3X6	1			Lbyy						Lateral
4	CORNER1	C5X9	4.25			Lbyy						Lateral
5	CORNER2	C5X9	4.25			Lbyy						Lateral
6	CORNER3	C5X9	4.25			Lbyy						Lateral
7	FACE1,1	C5X9	5.659			Lbyy						Lateral
8	FACE1,2	C5X9	5.174			Lbyy						Lateral
9	FACE2,1	C5X9	5.659			Lbyy						Lateral
10	FACE2,2	C5X9	5.174			Lbyy						Lateral
11	FACE3,1	C5X9	5.659			Lbyy						Lateral
12	FACE3,2	C5X9	5.174			Lbyy						Lateral
13	LADDER1	L1.75x1.7...	8			Lbyy						Lateral
14	LADDER2	L1.75x1.7...	8			Lbyy						Lateral
15	LADDERPLA...	4x.375_H...	1			Lbyy						Lateral
16	LADDERPLA...	4x.375_H...	1			Lbyy						Lateral
17	MP ALPHA1	PIPE_2.0	8			Lbyy						Lateral
18	MP ALPHA2	PIPE_2.0	8			Lbyy						Lateral
19	MP ALPHA3	PIPE_2.0	8			Lbyy						Lateral
20	MP BETA1	PIPE_2.0	8			Lbyy						Lateral
21	MP BETA2	PIPE_2.0	8			Lbyy						Lateral
22	MP BETA3	PIPE_2.0	8			Lbyy						Lateral
23	MP GAMMA1	PIPE_2.0	8			Lbyy						Lateral
24	MP GAMMA2	PIPE_2.0	8			Lbyy						Lateral
25	MP GAMMA3	PIPE_2.0	8			Lbyy						Lateral
26	RUNG1	SR 5/8	1			Lbyy						Lateral
27	RUNG2	SR 5/8	1			Lbyy						Lateral
28	RUNG3	SR 5/8	1			Lbyy						Lateral
29	RUNG4	SR 5/8	1			Lbyy						Lateral
30	RUNG5	SR 5/8	1			Lbyy						Lateral
31	RUNG6	SR 5/8	1			Lbyy						Lateral
32	RUNG7	SR 5/8	1			Lbyy						Lateral
33	SO1	HSS3X3X4	1.5			Lbyy						Lateral
34	SO2	HSS3X3X4	1.5			Lbyy						Lateral
35	SO3	HSS3X3X4	1.5			Lbyy						Lateral
36	SUPPORT1	C5X9	2.229			Lbyy						Lateral
37	SUPPORT2	C5X9	1.75			Lbyy						Lateral
38	M76	PIPE_2.0	10.333			Lbyy						Lateral
39	M77	PIPE_2.0	10.333			Lbyy						Lateral
40	M78	PIPE_2.0	10.333			Lbyy						Lateral
41	M85	PIPE_2.0	2.833			Lbyy						Lateral
42	M86	PIPE_2.0	2.833			Lbyy						Lateral
43	M87	PIPE_2.0	2.833			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotat...	Section/Shape	Type	Design List	Material	Design...
1	1	N149	N185			RIGID	None	None	RIGID	Typical
2	2	N37	N38			RIGID	None	None	RIGID	Typical
3	3	N39	N40			RIGID	None	None	RIGID	Typical
4	4	N41	N42			RIGID	None	None	RIGID	Typical
5	5	N165A	N153			RIGID	None	None	RIGID	Typical
6	6	N157A	N175A			RIGID	None	None	RIGID	Typical
7	7	N145B	N137A			RIGID	None	None	RIGID	Typical
8	8	N144B	N150			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotat...	Section/Shape	Type	Design List	Material	Design...
9	9	N84	N89A			RIGID	None	None	RIGID	Typical
10	10	N151A	N141A			RIGID	None	None	RIGID	Typical
11	11	N150A	N154			RIGID	None	None	RIGID	Typical
12	12	N157B	N133C			RIGID	None	None	RIGID	Typical
13	13	N156B	N146			RIGID	None	None	RIGID	Typical
14	15	N101A	N102A			RIGID	None	None	RIGID	Typical
15	16	N103A	N104A			RIGID	None	None	RIGID	Typical
16	17	N105A	N106A			RIGID	None	None	RIGID	Typical
17	27	N140	N141		180	RIGID	None	None	RIGID	Typical
18	28	N142	N143		180	RIGID	None	None	RIGID	Typical
19	29	N144	N145		180	RIGID	None	None	RIGID	Typical
20	38	N79	N166A			RIGID	None	None	RIGID	Typical
21	39	N78	N165A			RIGID	None	None	RIGID	Typical
22	40	N80	N167A			RIGID	None	None	RIGID	Typical
23	42	N172A	N176A		180	RIGID	None	None	RIGID	Typical
24	43	N171A	N175A		180	RIGID	None	None	RIGID	Typical
25	44	N173A	N177		180	RIGID	None	None	RIGID	Typical
26	46	N182	N186		180	RIGID	None	None	RIGID	Typical
27	47	N181	N185		180	RIGID	None	None	RIGID	Typical
28	48	N183	N187		180	RIGID	None	None	RIGID	Typical
29	50	N85	N90A			RIGID	None	None	RIGID	Typical
30	CONNANGLE1	N168	N169A			L3X3X6	Beam	Single Angle	A36 Gr.36	Typical
31	CONNANGLE2	N178	N179			L3X3X6	Beam	Single Angle	A36 Gr.36	Typical
32	CONNANGLE3	N188	N189		180	L3X3X6	Beam	Single Angle	A36 Gr.36	Typical
33	CORNER1	N132	N133		90	C5X9	Beam	Channel	A36 Gr.36	Typical
34	CORNER2	N133B	N134A		90	C5X9	Beam	Channel	A36 Gr.36	Typical
35	CORNER3	N134B	N135A		270	C5X9	Beam	Channel	A36 Gr.36	Typical
36	FACE1,1	N67	N6		90	C5X9	Beam	Channel	A36 Gr.36	Typical
37	FACE1,2	N64	N6		90	C5X9	Beam	Channel	A36 Gr.36	Typical
38	FACE2,1	N66	N4		90	C5X9	Beam	Channel	A36 Gr.36	Typical
39	FACE2,2	N67	N4		90	C5X9	Beam	Channel	A36 Gr.36	Typical
40	FACE3,1	N64	N2		90	C5X9	Beam	Channel	A36 Gr.36	Typical
41	FACE3,2	N66	N2		90	C5X9	Beam	Channel	A36 Gr.36	Typical
42	LADDER1	N100	N102		300	L1.75x1.75x4	Beam	Single Angle	A36 Gr.36	Typical
43	LADDER2	N101	N103		30	L1.75x1.75x4	Beam	Single Angle	A36 Gr.36	Typical
44	LADDERPLAT...	N87A	N85A		120	4x.375_HRA	Beam	RECT	A36 Gr.36	Typical
45	LADDERPLAT...	N88	N86		120	4x.375_HRA	Beam	RECT	A36 Gr.36	Typical
46	MP ALPHA1	N119	N131			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
47	MP ALPHA2	N118	N130			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
48	MP ALPHA3	N117	N129			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
49	MP BETA1	N163	N167		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
50	MP BETA2	N162	N166		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
51	MP BETA3	N161	N165		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
52	MP GAMMA1	N124	N128A		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
53	MP GAMMA2	N123	N127		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
54	MP GAMMA3	N122	N126		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
55	RUNG1	N100	N101			SR 5/8	Beam	BAR	A36 Gr.36	Typical
56	RUNG2	N104	N105			SR 5/8	Beam	BAR	A36 Gr.36	Typical
57	RUNG3	N106	N107			SR 5/8	Beam	BAR	A36 Gr.36	Typical
58	RUNG4	N108	N109			SR 5/8	Beam	BAR	A36 Gr.36	Typical
59	RUNG5	N110	N111			SR 5/8	Beam	BAR	A36 Gr.36	Typical
60	RUNG6	N112	N113			SR 5/8	Beam	BAR	A36 Gr.36	Typical
61	RUNG7	N114	N115			SR 5/8	Beam	BAR	A36 Gr.36	Typical
62	SO1	N149A	N150A			HSS3X3X4	Beam	HSS Pipe	A500 Gr.B Rect	Typical
63	SO2	N145A	N144B			HSS3X3X4	Beam	HSS Pipe	A500 Gr.B Rect	Typical
64	SO3	N155A	N156B			HSS3X3X4	Beam	HSS Pipe	A500 Gr.B Rect	Typical
65	SUPPORT1	N31	N32		90	C5X9	Beam	Channel	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotat...	Section/Shape	Type	Design List	Material	Design...
66	SUPPORT2	N33	N34		90	C5X9	Beam	Channel	A36 Gr.36	Typical
67	M67	N155C	N156D			RIGID	None	None	RIGID	Typical
68	M68	N157C	N158			RIGID	None	None	RIGID	Typical
69	M69	N159	N160			RIGID	None	None	RIGID	Typical
70	M70	N161A	N162A			RIGID	None	None	RIGID	Typical
71	M71	N163A	N164			RIGID	None	None	RIGID	Typical
72	M72	N165B	N166B			RIGID	None	None	RIGID	Typical
73	M73	N167B	N168A		180	RIGID	None	None	RIGID	Typical
74	M74	N169	N170		180	RIGID	None	None	RIGID	Typical
75	M75	N171	N172		180	RIGID	None	None	RIGID	Typical
76	M76	N149B	N150B			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
77	M77	N152A	N153A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
78	M78	N155B	N156C			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
79	M79	N173	N175			RIGID	None	None	RIGID	Typical
80	M80	N174	N176			RIGID	None	None	RIGID	Typical
81	M81	N178A	N180			RIGID	None	None	RIGID	Typical
82	M82	N179A	N181A			RIGID	None	None	RIGID	Typical
83	M83	N183A	N185A			RIGID	None	None	RIGID	Typical
84	M84	N184	N186A			RIGID	None	None	RIGID	Typical
85	M85	N175	N186A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
86	M86	N180	N176			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
87	M87	N185A	N181A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	1						Yes	** NA **			None
2	2						Yes	** NA **			None
3	3						Yes	** NA **			None
4	4						Yes	** NA **			None
5	5						Yes	** NA **			None
6	6						Yes	** NA **			None
7	7						Yes	** NA **			None
8	8						Yes	** NA **			None
9	9						Yes	** NA **			None
10	10						Yes	** NA **			None
11	11						Yes	** NA **			None
12	12						Yes	** NA **			None
13	13						Yes	** NA **			None
14	15						Yes	** NA **			None
15	16						Yes	** NA **			None
16	17						Yes	** NA **			None
17	27						Yes	** NA **			None
18	28						Yes	** NA **			None
19	29						Yes	** NA **			None
20	38						Yes	** NA **			None
21	39						Yes	** NA **			None
22	40						Yes	** NA **			None
23	42						Yes	** NA **			None
24	43						Yes	** NA **			None
25	44						Yes	** NA **			None
26	46						Yes	** NA **			None
27	47						Yes	** NA **			None
28	48						Yes	** NA **			None
29	50						Yes	** NA **			None
30	CONNANG...						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
31	CONNANG...						Yes				None
32	CONNANG...						Yes				None
33	CORNER1	BenPIN	BenPIN				Yes	Default			None
34	CORNER2	BenPIN	BenPIN				Yes	Default			None
35	CORNER3	BenPIN	BenPIN				Yes	Default			None
36	FACE1,1						Yes				None
37	FACE1,2						Yes				None
38	FACE2,1						Yes				None
39	FACE2,2						Yes				None
40	FACE3,1						Yes				None
41	FACE3,2						Yes				None
42	LADDER1						Yes				None
43	LADDER2						Yes				None
44	LADDERP...						Yes		-z		None
45	LADDERP...						Yes	Default	-z		None
46	MP ALPHA1						Yes				None
47	MP ALPHA2						Yes				None
48	MP ALPHA3						Yes				None
49	MP BETA1						Yes				None
50	MP BETA2						Yes				None
51	MP BETA3						Yes				None
52	MP GAMM...						Yes				None
53	MP GAMM...						Yes				None
54	MP GAMM...						Yes				None
55	RUNG1						Yes				None
56	RUNG2						Yes				None
57	RUNG3						Yes				None
58	RUNG4						Yes				None
59	RUNG5						Yes				None
60	RUNG6						Yes				None
61	RUNG7						Yes				None
62	SO1						Yes				None
63	SO2						Yes				None
64	SO3						Yes				None
65	SUPPORT1	BenPIN	BenPIN				Yes	Default			None
66	SUPPORT2	BenPIN	BenPIN				Yes	Default			None
67	M67						Yes	** NA **			None
68	M68						Yes	** NA **			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	M76						Yes				None
77	M77						Yes				None
78	M78						Yes				None
79	M79						Yes	** NA **			None
80	M80						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	M82						Yes	** NA **			None
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85	BenPIN	BenPIN				Yes	Default			None
86	M86	BenPIN	BenPIN				Yes	Default			None
87	M87	BenPIN	BenPIN				Yes	Default			None

Hot Rolled Steel Properties

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

Member Point Loads (BLC 1 : Live Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	FACE1,1	Z	-.5	0

Member Point Loads (BLC 2 : Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.106	5
2	MP ALPHA3	Y	-.106	3
3	MP BETA3	Y	-.062	5
4	MP BETA3	Y	-.062	3
5	MP GAMMA3	Y	-.062	5
6	MP GAMMA3	Y	-.062	3
7	MP ALPHA1	Y	-.13	5.5
8	MP ALPHA1	Y	-.13	2.5
9	MP BETA1	Y	-.056	5.5
10	MP BETA1	Y	-.056	2.5
11	MP GAMMA1	Y	-.056	5.5
12	MP GAMMA1	Y	-.056	2.5
13	MP ALPHA2	Y	-.305	7
14	MP ALPHA2	Y	-.305	1
15	MP BETA2	Y	-.159	7
16	MP BETA2	Y	-.159	1
17	MP GAMMA2	Y	-.159	7
18	MP GAMMA2	Y	-.159	1
19	MP ALPHA2	Y	-.002	4
20	MP BETA2	Y	-.005	4
21	MP GAMMA2	Y	-.005	4
22	MP ALPHA2	Y	-.061	4
23	MP BETA2	Y	-.038	4
24	MP GAMMA2	Y	-.038	4
25	MP ALPHA1	Y	-.069	4
26	MP BETA1	Y	-.054	4
27	MP GAMMA1	Y	-.054	4
28	MP ALPHA2	Y	-.074	4
29	MP BETA2	Y	-.063	4
30	MP GAMMA2	Y	-.063	4
31	M76	Y	-.106	5
32	M76	Y	-.106	3
33	M77	Y	-.106	5
34	M77	Y	-.106	3
35	M78	Y	-.106	5
36	M78	Y	-.106	3

Member Point Loads (BLC 3 : Dead Load)

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

Member Point Loads (BLC 3 : Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Z	-.052	5
2	MP ALPHA3	Z	-.052	3
3	MP BETA3	Z	-.052	5
4	MP BETA3	Z	-.052	3
5	MP GAMMA3	Z	-.052	5
6	MP GAMMA3	Z	-.052	3
7	MP ALPHA1	Z	-.02	5.5
8	MP ALPHA1	Z	-.02	2.5
9	MP BETA1	Z	-.02	5.5
10	MP BETA1	Z	-.02	2.5
11	MP GAMMA1	Z	-.02	5.5
12	MP GAMMA1	Z	-.02	2.5
13	MP ALPHA2	Z	-.077	7
14	MP ALPHA2	Z	-.077	1
15	MP BETA2	Z	-.077	7
16	MP BETA2	Z	-.077	1
17	MP GAMMA2	Z	-.077	7
18	MP GAMMA2	Z	-.077	1
19	MP ALPHA2	Z	-.002	4
20	MP BETA2	Z	-.002	4
21	MP GAMMA2	Z	-.002	4
22	MP ALPHA2	Z	-.046	4
23	MP BETA2	Z	-.046	4
24	MP GAMMA2	Z	-.046	4
25	MP ALPHA1	Z	-.088	4
26	MP BETA1	Z	-.088	4
27	MP GAMMA1	Z	-.088	4
28	MP ALPHA2	Z	-.073	4
29	MP BETA2	Z	-.073	4
30	MP GAMMA2	Z	-.073	4
31	M76	Z	-.052	5
32	M76	Z	-.052	3
33	M77	Z	-.052	5
34	M77	Z	-.052	3
35	M78	Z	-.052	5
36	M78	Z	-.052	3

Member Point Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.079	5
2	MP ALPHA3	Y	-.079	3
3	MP ALPHA3	X	-.046	5
4	MP ALPHA3	X	-.046	3
5	MP BETA3	Y	-.04	5
6	MP BETA3	Y	-.04	3
7	MP BETA3	X	-.023	5
8	MP BETA3	X	-.023	3
9	MP GAMMA3	Y	-.079	5
10	MP GAMMA3	Y	-.079	3
11	MP GAMMA3	X	-.046	5
12	MP GAMMA3	X	-.046	3
13	MP ALPHA1	Y	-.091	5.5
14	MP ALPHA1	Y	-.091	2.5
15	MP ALPHA1	X	-.053	5.5
16	MP ALPHA1	X	-.053	2.5
17	MP BETA1	Y	-.027	5.5

Member Point Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA1	Y	-.027	2.5
19	MP BETA1	X	-.016	5.5
20	MP BETA1	X	-.016	2.5
21	MP GAMMA1	Y	-.091	5.5
22	MP GAMMA1	Y	-.091	2.5
23	MP GAMMA1	X	-.053	5.5
24	MP GAMMA1	X	-.053	2.5
25	MP ALPHA2	Y	-.222	7
26	MP ALPHA2	Y	-.222	1
27	MP ALPHA2	X	-.128	7
28	MP ALPHA2	X	-.128	1
29	MP BETA2	Y	-.096	7
30	MP BETA2	Y	-.096	1
31	MP BETA2	X	-.055	7
32	MP BETA2	X	-.055	1
33	MP GAMMA2	Y	-.222	7
34	MP GAMMA2	Y	-.222	1
35	MP GAMMA2	X	-.128	7
36	MP GAMMA2	X	-.128	1
37	MP ALPHA2	Y	-.003	4
38	MP ALPHA2	X	-.002	4
39	MP BETA2	Y	-.006	4
40	MP BETA2	X	-.003	4
41	MP GAMMA2	Y	-.003	4
42	MP GAMMA2	X	-.002	4
43	MP ALPHA2	Y	-.046	4
44	MP ALPHA2	X	-.027	4
45	MP BETA2	Y	-.026	4
46	MP BETA2	X	-.015	4
47	MP GAMMA2	Y	-.046	4
48	MP GAMMA2	X	-.027	4
49	MP ALPHA1	Y	-.056	4
50	MP ALPHA1	X	-.032	4
51	MP BETA1	Y	-.043	4
52	MP BETA1	X	-.025	4
53	MP GAMMA1	Y	-.056	4
54	MP GAMMA1	X	-.032	4
55	MP ALPHA2	Y	-.061	4
56	MP ALPHA2	X	-.035	4
57	MP BETA2	Y	-.051	4
58	MP BETA2	X	-.03	4
59	MP GAMMA2	Y	-.061	4
60	MP GAMMA2	X	-.035	4
61	M76	Y	-.079	5
62	M76	Y	-.079	3
63	M76	X	-.046	5
64	M76	X	-.046	3
65	M77	Y	-.079	5
66	M77	Y	-.079	3
67	M77	X	-.046	5
68	M77	X	-.046	3
69	M78	Y	-.079	5
70	M78	Y	-.079	3
71	M78	X	-.046	5
72	M78	X	-.046	3

Member Point Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.031	5
2	MP ALPHA3	Y	-.031	3
3	MP ALPHA3	X	-.053	5
4	MP ALPHA3	X	-.053	3
5	MP BETA3	Y	-.031	5
6	MP BETA3	Y	-.031	3
7	MP BETA3	X	-.053	5
8	MP BETA3	X	-.053	3
9	MP GAMMA3	Y	-.053	5
10	MP GAMMA3	Y	-.053	3
11	MP GAMMA3	X	-.092	5
12	MP GAMMA3	X	-.092	3
13	MP ALPHA1	Y	-.028	5.5
14	MP ALPHA1	Y	-.028	2.5
15	MP ALPHA1	X	-.048	5.5
16	MP ALPHA1	X	-.048	2.5
17	MP BETA1	Y	-.028	5.5
18	MP BETA1	Y	-.028	2.5
19	MP BETA1	X	-.048	5.5
20	MP BETA1	X	-.048	2.5
21	MP GAMMA1	Y	-.065	5.5
22	MP GAMMA1	Y	-.065	2.5
23	MP GAMMA1	X	-.113	5.5
24	MP GAMMA1	X	-.113	2.5
25	MP ALPHA2	Y	-.08	7
26	MP ALPHA2	Y	-.08	1
27	MP ALPHA2	X	-.138	7
28	MP ALPHA2	X	-.138	1
29	MP BETA2	Y	-.08	7
30	MP BETA2	Y	-.08	1
31	MP BETA2	X	-.138	7
32	MP BETA2	X	-.138	1
33	MP GAMMA2	Y	-.152	7
34	MP GAMMA2	Y	-.152	1
35	MP GAMMA2	X	-.264	7
36	MP GAMMA2	X	-.264	1
37	MP ALPHA2	Y	-.003	4
38	MP ALPHA2	X	-.005	4
39	MP BETA2	Y	-.003	4
40	MP BETA2	X	-.005	4
41	MP GAMMA2	Y	-.001	4
42	MP GAMMA2	X	-.002	4
43	MP ALPHA2	Y	-.019	4
44	MP ALPHA2	X	-.033	4
45	MP BETA2	Y	-.019	4
46	MP BETA2	X	-.033	4
47	MP GAMMA2	Y	-.031	4
48	MP GAMMA2	X	-.053	4
49	MP ALPHA1	Y	-.027	4
50	MP ALPHA1	X	-.047	4
51	MP BETA1	Y	-.027	4
52	MP BETA1	X	-.047	4
53	MP GAMMA1	Y	-.035	4
54	MP GAMMA1	X	-.06	4
55	MP ALPHA2	Y	-.031	4
56	MP ALPHA2	X	-.055	4
57	MP BETA2	Y	-.031	4

Member Point Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	-.055	4
59	MP GAMMA2	Y	-.037	4
60	MP GAMMA2	X	-.064	4
61	M76	Y	-.031	5
62	M76	Y	-.031	3
63	M76	X	-.053	5
64	M76	X	-.053	3
65	M77	Y	-.031	5
66	M77	Y	-.031	3
67	M77	X	-.053	5
68	M77	X	-.053	3
69	M78	Y	-.031	5
70	M78	Y	-.031	3
71	M78	X	-.053	5
72	M78	X	-.053	3

Member Point Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.047	5
2	MP ALPHA3	X	-.047	3
3	MP BETA3	X	-.091	5
4	MP BETA3	X	-.091	3
5	MP GAMMA3	X	-.091	5
6	MP GAMMA3	X	-.091	3
7	MP ALPHA1	X	-.031	5.5
8	MP ALPHA1	X	-.031	2.5
9	MP BETA1	X	-.105	5.5
10	MP BETA1	X	-.105	2.5
11	MP GAMMA1	X	-.105	5.5
12	MP GAMMA1	X	-.105	2.5
13	MP ALPHA2	X	-.111	7
14	MP ALPHA2	X	-.111	1
15	MP BETA2	X	-.256	7
16	MP BETA2	X	-.256	1
17	MP GAMMA2	X	-.256	7
18	MP GAMMA2	X	-.256	1
19	MP ALPHA2	X	-.006	4
20	MP BETA2	X	-.003	4
21	MP GAMMA2	X	-.003	4
22	MP ALPHA2	X	-.03	4
23	MP BETA2	X	-.053	4
24	MP GAMMA2	X	-.053	4
25	MP ALPHA1	X	-.049	4
26	MP BETA1	X	-.064	4
27	MP GAMMA1	X	-.064	4
28	MP ALPHA2	X	-.059	4
29	MP BETA2	X	-.07	4
30	MP GAMMA2	X	-.07	4
31	M76	X	-.047	5
32	M76	X	-.047	3
33	M77	X	-.047	5
34	M77	X	-.047	3
35	M78	X	-.047	5
36	M78	X	-.047	3

Member Point Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.031	5
2	MP ALPHA3	Y	.031	3
3	MP ALPHA3	X	-.053	5
4	MP ALPHA3	X	-.053	3
5	MP BETA3	Y	.053	5
6	MP BETA3	Y	.053	3
7	MP BETA3	X	-.092	5
8	MP BETA3	X	-.092	3
9	MP GAMMA3	Y	.031	5
10	MP GAMMA3	Y	.031	3
11	MP GAMMA3	X	-.053	5
12	MP GAMMA3	X	-.053	3
13	MP ALPHA1	Y	.028	5.5
14	MP ALPHA1	Y	.028	2.5
15	MP ALPHA1	X	-.048	5.5
16	MP ALPHA1	X	-.048	2.5
17	MP BETA1	Y	.065	5.5
18	MP BETA1	Y	.065	2.5
19	MP BETA1	X	-.113	5.5
20	MP BETA1	X	-.113	2.5
21	MP GAMMA1	Y	.028	5.5
22	MP GAMMA1	Y	.028	2.5
23	MP GAMMA1	X	-.048	5.5
24	MP GAMMA1	X	-.048	2.5
25	MP ALPHA2	Y	.08	7
26	MP ALPHA2	Y	.08	1
27	MP ALPHA2	X	-.138	7
28	MP ALPHA2	X	-.138	1
29	MP BETA2	Y	.152	7
30	MP BETA2	Y	.152	1
31	MP BETA2	X	-.264	7
32	MP BETA2	X	-.264	1
33	MP GAMMA2	Y	.08	7
34	MP GAMMA2	Y	.08	1
35	MP GAMMA2	X	-.138	7
36	MP GAMMA2	X	-.138	1
37	MP ALPHA2	Y	.003	4
38	MP ALPHA2	X	-.005	4
39	MP BETA2	Y	.001	4
40	MP BETA2	X	-.002	4
41	MP GAMMA2	Y	.003	4
42	MP GAMMA2	X	-.005	4
43	MP ALPHA2	Y	.019	4
44	MP ALPHA2	X	-.033	4
45	MP BETA2	Y	.031	4
46	MP BETA2	X	-.053	4
47	MP GAMMA2	Y	.019	4
48	MP GAMMA2	X	-.033	4
49	MP ALPHA1	Y	.027	4
50	MP ALPHA1	X	-.047	4
51	MP BETA1	Y	.035	4
52	MP BETA1	X	-.06	4
53	MP GAMMA1	Y	.027	4
54	MP GAMMA1	X	-.047	4
55	MP ALPHA2	Y	.031	4
56	MP ALPHA2	X	-.055	4
57	MP BETA2	Y	.037	4

Member Point Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	-.064	4
59	MP GAMMA2	Y	.031	4
60	MP GAMMA2	X	-.055	4
61	M76	Y	.031	5
62	M76	Y	.031	3
63	M76	X	-.053	5
64	M76	X	-.053	3
65	M77	Y	.031	5
66	M77	Y	.031	3
67	M77	X	-.053	5
68	M77	X	-.053	3
69	M78	Y	.031	5
70	M78	Y	.031	3
71	M78	X	-.053	5
72	M78	X	-.053	3

Member Point Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.079	5
2	MP ALPHA3	Y	.079	3
3	MP ALPHA3	X	-.046	5
4	MP ALPHA3	X	-.046	3
5	MP BETA3	Y	.079	5
6	MP BETA3	Y	.079	3
7	MP BETA3	X	-.046	5
8	MP BETA3	X	-.046	3
9	MP GAMMA3	Y	.04	5
10	MP GAMMA3	Y	.04	3
11	MP GAMMA3	X	-.023	5
12	MP GAMMA3	X	-.023	3
13	MP ALPHA1	Y	.091	5.5
14	MP ALPHA1	Y	.091	2.5
15	MP ALPHA1	X	-.053	5.5
16	MP ALPHA1	X	-.053	2.5
17	MP BETA1	Y	.091	5.5
18	MP BETA1	Y	.091	2.5
19	MP BETA1	X	-.053	5.5
20	MP BETA1	X	-.053	2.5
21	MP GAMMA1	Y	.027	5.5
22	MP GAMMA1	Y	.027	2.5
23	MP GAMMA1	X	-.016	5.5
24	MP GAMMA1	X	-.016	2.5
25	MP ALPHA2	Y	.222	7
26	MP ALPHA2	Y	.222	1
27	MP ALPHA2	X	-.128	7
28	MP ALPHA2	X	-.128	1
29	MP BETA2	Y	.222	7
30	MP BETA2	Y	.222	1
31	MP BETA2	X	-.128	7
32	MP BETA2	X	-.128	1
33	MP GAMMA2	Y	.096	7
34	MP GAMMA2	Y	.096	1
35	MP GAMMA2	X	-.055	7
36	MP GAMMA2	X	-.055	1
37	MP ALPHA2	Y	.003	4
38	MP ALPHA2	X	-.002	4

Member Point Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP BETA2	Y	.003	4
40	MP BETA2	X	-.002	4
41	MP GAMMA2	Y	.006	4
42	MP GAMMA2	X	-.003	4
43	MP ALPHA2	Y	.046	4
44	MP ALPHA2	X	-.027	4
45	MP BETA2	Y	.046	4
46	MP BETA2	X	-.027	4
47	MP GAMMA2	Y	.026	4
48	MP GAMMA2	X	-.015	4
49	MP ALPHA1	Y	.056	4
50	MP ALPHA1	X	-.032	4
51	MP BETA1	Y	.056	4
52	MP BETA1	X	-.032	4
53	MP GAMMA1	Y	.043	4
54	MP GAMMA1	X	-.025	4
55	MP ALPHA2	Y	.061	4
56	MP ALPHA2	X	-.035	4
57	MP BETA2	Y	.061	4
58	MP BETA2	X	-.035	4
59	MP GAMMA2	Y	.051	4
60	MP GAMMA2	X	-.03	4
61	M76	Y	.079	5
62	M76	Y	.079	3
63	M76	X	-.046	5
64	M76	X	-.046	3
65	M77	Y	.079	5
66	M77	Y	.079	3
67	M77	X	-.046	5
68	M77	X	-.046	3
69	M78	Y	.079	5
70	M78	Y	.079	3
71	M78	X	-.046	5
72	M78	X	-.046	3

Member Point Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.106	5
2	MP ALPHA3	Y	.106	3
3	MP BETA3	Y	.062	5
4	MP BETA3	Y	.062	3
5	MP GAMMA3	Y	.062	5
6	MP GAMMA3	Y	.062	3
7	MP ALPHA1	Y	.13	5.5
8	MP ALPHA1	Y	.13	2.5
9	MP BETA1	Y	.056	5.5
10	MP BETA1	Y	.056	2.5
11	MP GAMMA1	Y	.056	5.5
12	MP GAMMA1	Y	.056	2.5
13	MP ALPHA2	Y	.305	7
14	MP ALPHA2	Y	.305	1
15	MP BETA2	Y	.159	7
16	MP BETA2	Y	.159	1
17	MP GAMMA2	Y	.159	7
18	MP GAMMA2	Y	.159	1
19	MP ALPHA2	Y	.002	4

Member Point Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP BETA2	Y	.005	4
21	MP GAMMA2	Y	.005	4
22	MP ALPHA2	Y	.061	4
23	MP BETA2	Y	.038	4
24	MP GAMMA2	Y	.038	4
25	MP ALPHA1	Y	.069	4
26	MP BETA1	Y	.054	4
27	MP GAMMA1	Y	.054	4
28	MP ALPHA2	Y	.074	4
29	MP BETA2	Y	.063	4
30	MP GAMMA2	Y	.063	4
31	M76	Y	.106	5
32	M76	Y	.106	3
33	M77	Y	.106	5
34	M77	Y	.106	3
35	M78	Y	.106	5
36	M78	Y	.106	3

Member Point Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.079	5
2	MP ALPHA3	Y	.079	3
3	MP ALPHA3	X	.046	5
4	MP ALPHA3	X	.046	3
5	MP BETA3	Y	.04	5
6	MP BETA3	Y	.04	3
7	MP BETA3	X	.023	5
8	MP BETA3	X	.023	3
9	MP GAMMA3	Y	.079	5
10	MP GAMMA3	Y	.079	3
11	MP GAMMA3	X	.046	5
12	MP GAMMA3	X	.046	3
13	MP ALPHA1	Y	.091	5.5
14	MP ALPHA1	Y	.091	2.5
15	MP ALPHA1	X	.053	5.5
16	MP ALPHA1	X	.053	2.5
17	MP BETA1	Y	.027	5.5
18	MP BETA1	Y	.027	2.5
19	MP BETA1	X	.016	5.5
20	MP BETA1	X	.016	2.5
21	MP GAMMA1	Y	.091	5.5
22	MP GAMMA1	Y	.091	2.5
23	MP GAMMA1	X	.053	5.5
24	MP GAMMA1	X	.053	2.5
25	MP ALPHA2	Y	.222	7
26	MP ALPHA2	Y	.222	1
27	MP ALPHA2	X	.128	7
28	MP ALPHA2	X	.128	1
29	MP BETA2	Y	.096	7
30	MP BETA2	Y	.096	1
31	MP BETA2	X	.055	7
32	MP BETA2	X	.055	1
33	MP GAMMA2	Y	.222	7
34	MP GAMMA2	Y	.222	1
35	MP GAMMA2	X	.128	7
36	MP GAMMA2	X	.128	1

Member Point Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP ALPHA2	Y	.003	4
38	MP ALPHA2	X	.002	4
39	MP BETA2	Y	.006	4
40	MP BETA2	X	.003	4
41	MP GAMMA2	Y	.003	4
42	MP GAMMA2	X	.002	4
43	MP ALPHA2	Y	.046	4
44	MP ALPHA2	X	.027	4
45	MP BETA2	Y	.026	4
46	MP BETA2	X	.015	4
47	MP GAMMA2	Y	.046	4
48	MP GAMMA2	X	.027	4
49	MP ALPHA1	Y	.056	4
50	MP ALPHA1	X	.032	4
51	MP BETA1	Y	.043	4
52	MP BETA1	X	.025	4
53	MP GAMMA1	Y	.056	4
54	MP GAMMA1	X	.032	4
55	MP ALPHA2	Y	.061	4
56	MP ALPHA2	X	.035	4
57	MP BETA2	Y	.051	4
58	MP BETA2	X	.03	4
59	MP GAMMA2	Y	.061	4
60	MP GAMMA2	X	.035	4
61	M76	Y	.079	5
62	M76	Y	.079	3
63	M76	X	.046	5
64	M76	X	.046	3
65	M77	Y	.079	5
66	M77	Y	.079	3
67	M77	X	.046	5
68	M77	X	.046	3
69	M78	Y	.079	5
70	M78	Y	.079	3
71	M78	X	.046	5
72	M78	X	.046	3

Member Point Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.031	5
2	MP ALPHA3	Y	.031	3
3	MP ALPHA3	X	.053	5
4	MP ALPHA3	X	.053	3
5	MP BETA3	Y	.031	5
6	MP BETA3	Y	.031	3
7	MP BETA3	X	.053	5
8	MP BETA3	X	.053	3
9	MP GAMMA3	Y	.053	5
10	MP GAMMA3	Y	.053	3
11	MP GAMMA3	X	.092	5
12	MP GAMMA3	X	.092	3
13	MP ALPHA1	Y	.028	5.5
14	MP ALPHA1	Y	.028	2.5
15	MP ALPHA1	X	.048	5.5
16	MP ALPHA1	X	.048	2.5
17	MP BETA1	Y	.028	5.5

Member Point Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA1	Y	.028	2.5
19	MP BETA1	X	.048	5.5
20	MP BETA1	X	.048	2.5
21	MP GAMMA1	Y	.065	5.5
22	MP GAMMA1	Y	.065	2.5
23	MP GAMMA1	X	.113	5.5
24	MP GAMMA1	X	.113	2.5
25	MP ALPHA2	Y	.08	7
26	MP ALPHA2	Y	.08	1
27	MP ALPHA2	X	.138	7
28	MP ALPHA2	X	.138	1
29	MP BETA2	Y	.08	7
30	MP BETA2	Y	.08	1
31	MP BETA2	X	.138	7
32	MP BETA2	X	.138	1
33	MP GAMMA2	Y	.152	7
34	MP GAMMA2	Y	.152	1
35	MP GAMMA2	X	.264	7
36	MP GAMMA2	X	.264	1
37	MP ALPHA2	Y	.003	4
38	MP ALPHA2	X	.005	4
39	MP BETA2	Y	.003	4
40	MP BETA2	X	.005	4
41	MP GAMMA2	Y	.001	4
42	MP GAMMA2	X	.002	4
43	MP ALPHA2	Y	.019	4
44	MP ALPHA2	X	.033	4
45	MP BETA2	Y	.019	4
46	MP BETA2	X	.033	4
47	MP GAMMA2	Y	.031	4
48	MP GAMMA2	X	.053	4
49	MP ALPHA1	Y	.027	4
50	MP ALPHA1	X	.047	4
51	MP BETA1	Y	.027	4
52	MP BETA1	X	.047	4
53	MP GAMMA1	Y	.035	4
54	MP GAMMA1	X	.06	4
55	MP ALPHA2	Y	.031	4
56	MP ALPHA2	X	.055	4
57	MP BETA2	Y	.031	4
58	MP BETA2	X	.055	4
59	MP GAMMA2	Y	.037	4
60	MP GAMMA2	X	.064	4
61	M76	Y	.031	5
62	M76	Y	.031	3
63	M76	X	.053	5
64	M76	X	.053	3
65	M77	Y	.031	5
66	M77	Y	.031	3
67	M77	X	.053	5
68	M77	X	.053	3
69	M78	Y	.031	5
70	M78	Y	.031	3
71	M78	X	.053	5
72	M78	X	.053	3

Member Point Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	.047	5
2	MP ALPHA3	X	.047	3
3	MP BETA3	X	.091	5
4	MP BETA3	X	.091	3
5	MP GAMMA3	X	.091	5
6	MP GAMMA3	X	.091	3
7	MP ALPHA1	X	.031	5.5
8	MP ALPHA1	X	.031	2.5
9	MP BETA1	X	.105	5.5
10	MP BETA1	X	.105	2.5
11	MP GAMMA1	X	.105	5.5
12	MP GAMMA1	X	.105	2.5
13	MP ALPHA2	X	.111	7
14	MP ALPHA2	X	.111	1
15	MP BETA2	X	.256	7
16	MP BETA2	X	.256	1
17	MP GAMMA2	X	.256	7
18	MP GAMMA2	X	.256	1
19	MP ALPHA2	X	.006	4
20	MP BETA2	X	.003	4
21	MP GAMMA2	X	.003	4
22	MP ALPHA2	X	.03	4
23	MP BETA2	X	.053	4
24	MP GAMMA2	X	.053	4
25	MP ALPHA1	X	.049	4
26	MP BETA1	X	.064	4
27	MP GAMMA1	X	.064	4
28	MP ALPHA2	X	.059	4
29	MP BETA2	X	.07	4
30	MP GAMMA2	X	.07	4
31	M76	X	.047	5
32	M76	X	.047	3
33	M77	X	.047	5
34	M77	X	.047	3
35	M78	X	.047	5
36	M78	X	.047	3

Member Point Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.031	5
2	MP ALPHA3	Y	-.031	3
3	MP ALPHA3	X	.053	5
4	MP ALPHA3	X	.053	3
5	MP BETA3	Y	-.053	5
6	MP BETA3	Y	-.053	3
7	MP BETA3	X	.092	5
8	MP BETA3	X	.092	3
9	MP GAMMA3	Y	-.031	5
10	MP GAMMA3	Y	-.031	3
11	MP GAMMA3	X	.053	5
12	MP GAMMA3	X	.053	3
13	MP ALPHA1	Y	-.028	5.5
14	MP ALPHA1	Y	-.028	2.5
15	MP ALPHA1	X	.048	5.5
16	MP ALPHA1	X	.048	2.5
17	MP BETA1	Y	-.065	5.5

Member Point Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA1	Y	-.065	2.5
19	MP BETA1	X	.113	5.5
20	MP BETA1	X	.113	2.5
21	MP GAMMA1	Y	-.028	5.5
22	MP GAMMA1	Y	-.028	2.5
23	MP GAMMA1	X	.048	5.5
24	MP GAMMA1	X	.048	2.5
25	MP ALPHA2	Y	-.08	7
26	MP ALPHA2	Y	-.08	1
27	MP ALPHA2	X	.138	7
28	MP ALPHA2	X	.138	1
29	MP BETA2	Y	-.152	7
30	MP BETA2	Y	-.152	1
31	MP BETA2	X	.264	7
32	MP BETA2	X	.264	1
33	MP GAMMA2	Y	-.08	7
34	MP GAMMA2	Y	-.08	1
35	MP GAMMA2	X	.138	7
36	MP GAMMA2	X	.138	1
37	MP ALPHA2	Y	-.003	4
38	MP ALPHA2	X	.005	4
39	MP BETA2	Y	-.001	4
40	MP BETA2	X	.002	4
41	MP GAMMA2	Y	-.003	4
42	MP GAMMA2	X	.005	4
43	MP ALPHA2	Y	-.019	4
44	MP ALPHA2	X	.033	4
45	MP BETA2	Y	-.031	4
46	MP BETA2	X	.053	4
47	MP GAMMA2	Y	-.019	4
48	MP GAMMA2	X	.033	4
49	MP ALPHA1	Y	-.027	4
50	MP ALPHA1	X	.047	4
51	MP BETA1	Y	-.035	4
52	MP BETA1	X	.06	4
53	MP GAMMA1	Y	-.027	4
54	MP GAMMA1	X	.047	4
55	MP ALPHA2	Y	-.031	4
56	MP ALPHA2	X	.055	4
57	MP BETA2	Y	-.037	4
58	MP BETA2	X	.064	4
59	MP GAMMA2	Y	-.031	4
60	MP GAMMA2	X	.055	4
61	M76	Y	-.031	5
62	M76	Y	-.031	3
63	M76	X	.053	5
64	M76	X	.053	3
65	M77	Y	-.031	5
66	M77	Y	-.031	3
67	M77	X	.053	5
68	M77	X	.053	3
69	M78	Y	-.031	5
70	M78	Y	-.031	3
71	M78	X	.053	5
72	M78	X	.053	3

Member Point Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.079	5
2	MP ALPHA3	Y	-.079	3
3	MP ALPHA3	X	.046	5
4	MP ALPHA3	X	.046	3
5	MP BETA3	Y	-.079	5
6	MP BETA3	Y	-.079	3
7	MP BETA3	X	.046	5
8	MP BETA3	X	.046	3
9	MP GAMMA3	Y	-.04	5
10	MP GAMMA3	Y	-.04	3
11	MP GAMMA3	X	.023	5
12	MP GAMMA3	X	.023	3
13	MP ALPHA1	Y	-.091	5.5
14	MP ALPHA1	Y	-.091	2.5
15	MP ALPHA1	X	.053	5.5
16	MP ALPHA1	X	.053	2.5
17	MP BETA1	Y	-.091	5.5
18	MP BETA1	Y	-.091	2.5
19	MP BETA1	X	.053	5.5
20	MP BETA1	X	.053	2.5
21	MP GAMMA1	Y	-.027	5.5
22	MP GAMMA1	Y	-.027	2.5
23	MP GAMMA1	X	.016	5.5
24	MP GAMMA1	X	.016	2.5
25	MP ALPHA2	Y	-.222	7
26	MP ALPHA2	Y	-.222	1
27	MP ALPHA2	X	.128	7
28	MP ALPHA2	X	.128	1
29	MP BETA2	Y	-.222	7
30	MP BETA2	Y	-.222	1
31	MP BETA2	X	.128	7
32	MP BETA2	X	.128	1
33	MP GAMMA2	Y	-.096	7
34	MP GAMMA2	Y	-.096	1
35	MP GAMMA2	X	.055	7
36	MP GAMMA2	X	.055	1
37	MP ALPHA2	Y	-.003	4
38	MP ALPHA2	X	.002	4
39	MP BETA2	Y	-.003	4
40	MP BETA2	X	.002	4
41	MP GAMMA2	Y	-.006	4
42	MP GAMMA2	X	.003	4
43	MP ALPHA2	Y	-.046	4
44	MP ALPHA2	X	.027	4
45	MP BETA2	Y	-.046	4
46	MP BETA2	X	.027	4
47	MP GAMMA2	Y	-.026	4
48	MP GAMMA2	X	.015	4
49	MP ALPHA1	Y	-.056	4
50	MP ALPHA1	X	.032	4
51	MP BETA1	Y	-.056	4
52	MP BETA1	X	.032	4
53	MP GAMMA1	Y	-.043	4
54	MP GAMMA1	X	.025	4
55	MP ALPHA2	Y	-.061	4
56	MP ALPHA2	X	.035	4
57	MP BETA2	Y	-.061	4

Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	.035	4
59	MP GAMMA2	Y	-.051	4
60	MP GAMMA2	X	.03	4
61	M76	Y	-.079	5
62	M76	Y	-.079	3
63	M76	X	.046	5
64	M76	X	.046	3
65	M77	Y	-.079	5
66	M77	Y	-.079	3
67	M77	X	.046	5
68	M77	X	.046	3
69	M78	Y	-.079	5
70	M78	Y	-.079	3
71	M78	X	.046	5
72	M78	X	.046	3

Member Point Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.007	5
2	MP ALPHA3	Y	-.007	3
3	MP BETA3	Y	-.004	5
4	MP BETA3	Y	-.004	3
5	MP GAMMA3	Y	-.004	5
6	MP GAMMA3	Y	-.004	3
7	MP ALPHA1	Y	-.008	5.5
8	MP ALPHA1	Y	-.008	2.5
9	MP BETA1	Y	-.003	5.5
10	MP BETA1	Y	-.003	2.5
11	MP GAMMA1	Y	-.003	5.5
12	MP GAMMA1	Y	-.003	2.5
13	MP ALPHA2	Y	-.019	7
14	MP ALPHA2	Y	-.019	1
15	MP BETA2	Y	-.01	7
16	MP BETA2	Y	-.01	1
17	MP GAMMA2	Y	-.01	7
18	MP GAMMA2	Y	-.01	1
19	MP ALPHA2	Y	-.000144	4
20	MP BETA2	Y	-.000341	4
21	MP GAMMA2	Y	-.000341	4
22	MP ALPHA2	Y	-.004	4
23	MP BETA2	Y	-.002	4
24	MP GAMMA2	Y	-.002	4
25	MP ALPHA1	Y	-.004	4
26	MP BETA1	Y	-.003	4
27	MP GAMMA1	Y	-.003	4
28	MP ALPHA2	Y	-.005	4
29	MP BETA2	Y	-.004	4
30	MP GAMMA2	Y	-.004	4
31	M76	Y	-.007	5
32	M76	Y	-.007	3
33	M77	Y	-.007	5
34	M77	Y	-.007	3
35	M78	Y	-.007	5
36	M78	Y	-.007	3

Member Point Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.005	5
2	MP ALPHA3	Y	-.005	3
3	MP ALPHA3	X	-.003	5
4	MP ALPHA3	X	-.003	3
5	MP BETA3	Y	-.003	5
6	MP BETA3	Y	-.003	3
7	MP BETA3	X	-.001	5
8	MP BETA3	X	-.001	3
9	MP GAMMA3	Y	-.005	5
10	MP GAMMA3	Y	-.005	3
11	MP GAMMA3	X	-.003	5
12	MP GAMMA3	X	-.003	3
13	MP ALPHA1	Y	-.006	5.5
14	MP ALPHA1	Y	-.006	2.5
15	MP ALPHA1	X	-.003	5.5
16	MP ALPHA1	X	-.003	2.5
17	MP BETA1	Y	-.002	5.5
18	MP BETA1	Y	-.002	2.5
19	MP BETA1	X	-.000975	5.5
20	MP BETA1	X	-.000975	2.5
21	MP GAMMA1	Y	-.006	5.5
22	MP GAMMA1	Y	-.006	2.5
23	MP GAMMA1	X	-.003	5.5
24	MP GAMMA1	X	-.003	2.5
25	MP ALPHA2	Y	-.014	7
26	MP ALPHA2	Y	-.014	1
27	MP ALPHA2	X	-.008	7
28	MP ALPHA2	X	-.008	1
29	MP BETA2	Y	-.006	7
30	MP BETA2	Y	-.006	1
31	MP BETA2	X	-.003	7
32	MP BETA2	X	-.003	1
33	MP GAMMA2	Y	-.014	7
34	MP GAMMA2	Y	-.014	1
35	MP GAMMA2	X	-.008	7
36	MP GAMMA2	X	-.008	1
37	MP ALPHA2	Y	-.000182	4
38	MP ALPHA2	X	-.000105	4
39	MP BETA2	Y	-.000352	4
40	MP BETA2	X	-.000203	4
41	MP GAMMA2	Y	-.000182	4
42	MP GAMMA2	X	-.000105	4
43	MP ALPHA2	Y	-.003	4
44	MP ALPHA2	X	-.002	4
45	MP BETA2	Y	-.002	4
46	MP BETA2	X	-.00093	4
47	MP GAMMA2	Y	-.003	4
48	MP GAMMA2	X	-.002	4
49	MP ALPHA1	Y	-.003	4
50	MP ALPHA1	X	-.002	4
51	MP BETA1	Y	-.003	4
52	MP BETA1	X	-.002	4
53	MP GAMMA1	Y	-.003	4
54	MP GAMMA1	X	-.002	4
55	MP ALPHA2	Y	-.004	4
56	MP ALPHA2	X	-.002	4
57	MP BETA2	Y	-.003	4

Member Point Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	-.002	4
59	MP GAMMA2	Y	-.004	4
60	MP GAMMA2	X	-.002	4
61	M76	Y	-.005	5
62	M76	Y	-.005	3
63	M76	X	-.003	5
64	M76	X	-.003	3
65	M77	Y	-.005	5
66	M77	Y	-.005	3
67	M77	X	-.003	5
68	M77	X	-.003	3
69	M78	Y	-.005	5
70	M78	Y	-.005	3
71	M78	X	-.003	5
72	M78	X	-.003	3

Member Point Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.002	5
2	MP ALPHA3	Y	-.002	3
3	MP ALPHA3	X	-.003	5
4	MP ALPHA3	X	-.003	3
5	MP BETA3	Y	-.002	5
6	MP BETA3	Y	-.002	3
7	MP BETA3	X	-.003	5
8	MP BETA3	X	-.003	3
9	MP GAMMA3	Y	-.003	5
10	MP GAMMA3	Y	-.003	3
11	MP GAMMA3	X	-.006	5
12	MP GAMMA3	X	-.006	3
13	MP ALPHA1	Y	-.002	5.5
14	MP ALPHA1	Y	-.002	2.5
15	MP ALPHA1	X	-.003	5.5
16	MP ALPHA1	X	-.003	2.5
17	MP BETA1	Y	-.002	5.5
18	MP BETA1	Y	-.002	2.5
19	MP BETA1	X	-.003	5.5
20	MP BETA1	X	-.003	2.5
21	MP GAMMA1	Y	-.004	5.5
22	MP GAMMA1	Y	-.004	2.5
23	MP GAMMA1	X	-.007	5.5
24	MP GAMMA1	X	-.007	2.5
25	MP ALPHA2	Y	-.005	7
26	MP ALPHA2	Y	-.005	1
27	MP ALPHA2	X	-.009	7
28	MP ALPHA2	X	-.009	1
29	MP BETA2	Y	-.005	7
30	MP BETA2	Y	-.005	1
31	MP BETA2	X	-.009	7
32	MP BETA2	X	-.009	1
33	MP GAMMA2	Y	-.01	7
34	MP GAMMA2	Y	-.01	1
35	MP GAMMA2	X	-.017	7
36	MP GAMMA2	X	-.017	1
37	MP ALPHA2	Y	-.00017	4
38	MP ALPHA2	X	-.000295	4

Member Point Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP BETA2	Y	-.00017	4
40	MP BETA2	X	-.000295	4
41	MP GAMMA2	Y	-7.2e-5	4
42	MP GAMMA2	X	-.000125	4
43	MP ALPHA2	Y	-.001	4
44	MP ALPHA2	X	-.002	4
45	MP BETA2	Y	-.001	4
46	MP BETA2	X	-.002	4
47	MP GAMMA2	Y	-.002	4
48	MP GAMMA2	X	-.003	4
49	MP ALPHA1	Y	-.002	4
50	MP ALPHA1	X	-.003	4
51	MP BETA1	Y	-.002	4
52	MP BETA1	X	-.003	4
53	MP GAMMA1	Y	-.002	4
54	MP GAMMA1	X	-.004	4
55	MP ALPHA2	Y	-.002	4
56	MP ALPHA2	X	-.003	4
57	MP BETA2	Y	-.002	4
58	MP BETA2	X	-.003	4
59	MP GAMMA2	Y	-.002	4
60	MP GAMMA2	X	-.004	4
61	M76	Y	-.002	5
62	M76	Y	-.002	3
63	M76	X	-.003	5
64	M76	X	-.003	3
65	M77	Y	-.002	5
66	M77	Y	-.002	3
67	M77	X	-.003	5
68	M77	X	-.003	3
69	M78	Y	-.002	5
70	M78	Y	-.002	3
71	M78	X	-.003	5
72	M78	X	-.003	3

Member Point Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.003	5
2	MP ALPHA3	X	-.003	3
3	MP BETA3	X	-.006	5
4	MP BETA3	X	-.006	3
5	MP GAMMA3	X	-.006	5
6	MP GAMMA3	X	-.006	3
7	MP ALPHA1	X	-.002	5.5
8	MP ALPHA1	X	-.002	2.5
9	MP BETA1	X	-.007	5.5
10	MP BETA1	X	-.007	2.5
11	MP GAMMA1	X	-.007	5.5
12	MP GAMMA1	X	-.007	2.5
13	MP ALPHA2	X	-.007	7
14	MP ALPHA2	X	-.007	1
15	MP BETA2	X	-.016	7
16	MP BETA2	X	-.016	1
17	MP GAMMA2	X	-.016	7
18	MP GAMMA2	X	-.016	1
19	MP ALPHA2	X	-.000406	4

Member Point Loads (BLC 18 : Maintanence (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP BETA2	X	-.00021	4
21	MP GAMMA2	X	-.00021	4
22	MP ALPHA2	X	-.002	4
23	MP BETA2	X	-.003	4
24	MP GAMMA2	X	-.003	4
25	MP ALPHA1	X	-.003	4
26	MP BETA1	X	-.004	4
27	MP GAMMA1	X	-.004	4
28	MP ALPHA2	X	-.004	4
29	MP BETA2	X	-.004	4
30	MP GAMMA2	X	-.004	4
31	M76	X	-.003	5
32	M76	X	-.003	3
33	M77	X	-.003	5
34	M77	X	-.003	3
35	M78	X	-.003	5
36	M78	X	-.003	3

Member Point Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.002	5
2	MP ALPHA3	Y	.002	3
3	MP ALPHA3	X	-.003	5
4	MP ALPHA3	X	-.003	3
5	MP BETA3	Y	.003	5
6	MP BETA3	Y	.003	3
7	MP BETA3	X	-.006	5
8	MP BETA3	X	-.006	3
9	MP GAMMA3	Y	.002	5
10	MP GAMMA3	Y	.002	3
11	MP GAMMA3	X	-.003	5
12	MP GAMMA3	X	-.003	3
13	MP ALPHA1	Y	.002	5.5
14	MP ALPHA1	Y	.002	2.5
15	MP ALPHA1	X	-.003	5.5
16	MP ALPHA1	X	-.003	2.5
17	MP BETA1	Y	.004	5.5
18	MP BETA1	Y	.004	2.5
19	MP BETA1	X	-.007	5.5
20	MP BETA1	X	-.007	2.5
21	MP GAMMA1	Y	.002	5.5
22	MP GAMMA1	Y	.002	2.5
23	MP GAMMA1	X	-.003	5.5
24	MP GAMMA1	X	-.003	2.5
25	MP ALPHA2	Y	.005	7
26	MP ALPHA2	Y	.005	1
27	MP ALPHA2	X	-.009	7
28	MP ALPHA2	X	-.009	1
29	MP BETA2	Y	.01	7
30	MP BETA2	Y	.01	1
31	MP BETA2	X	-.017	7
32	MP BETA2	X	-.017	1
33	MP GAMMA2	Y	.005	7
34	MP GAMMA2	Y	.005	1
35	MP GAMMA2	X	-.009	7
36	MP GAMMA2	X	-.009	1

Member Point Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP ALPHA2	Y	.00017	4
38	MP ALPHA2	X	-.000295	4
39	MP BETA2	Y	7.2e-5	4
40	MP BETA2	X	-.000125	4
41	MP GAMMA2	Y	.00017	4
42	MP GAMMA2	X	-.000295	4
43	MP ALPHA2	Y	.001	4
44	MP ALPHA2	X	-.002	4
45	MP BETA2	Y	.002	4
46	MP BETA2	X	-.003	4
47	MP GAMMA2	Y	.001	4
48	MP GAMMA2	X	-.002	4
49	MP ALPHA1	Y	.002	4
50	MP ALPHA1	X	-.003	4
51	MP BETA1	Y	.002	4
52	MP BETA1	X	-.004	4
53	MP GAMMA1	Y	.002	4
54	MP GAMMA1	X	-.003	4
55	MP ALPHA2	Y	.002	4
56	MP ALPHA2	X	-.003	4
57	MP BETA2	Y	.002	4
58	MP BETA2	X	-.004	4
59	MP GAMMA2	Y	.002	4
60	MP GAMMA2	X	-.003	4
61	M76	Y	.002	5
62	M76	Y	.002	3
63	M76	X	-.003	5
64	M76	X	-.003	3
65	M77	Y	.002	5
66	M77	Y	.002	3
67	M77	X	-.003	5
68	M77	X	-.003	3
69	M78	Y	.002	5
70	M78	Y	.002	3
71	M78	X	-.003	5
72	M78	X	-.003	3

Member Point Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.005	5
2	MP ALPHA3	Y	.005	3
3	MP ALPHA3	X	-.003	5
4	MP ALPHA3	X	-.003	3
5	MP BETA3	Y	.005	5
6	MP BETA3	Y	.005	3
7	MP BETA3	X	-.003	5
8	MP BETA3	X	-.003	3
9	MP GAMMA3	Y	.003	5
10	MP GAMMA3	Y	.003	3
11	MP GAMMA3	X	-.001	5
12	MP GAMMA3	X	-.001	3
13	MP ALPHA1	Y	.006	5.5
14	MP ALPHA1	Y	.006	2.5
15	MP ALPHA1	X	-.003	5.5
16	MP ALPHA1	X	-.003	2.5
17	MP BETA1	Y	.006	5.5

Member Point Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA1	Y	.006	2.5
19	MP BETA1	X	-.003	5.5
20	MP BETA1	X	-.003	2.5
21	MP GAMMA1	Y	.002	5.5
22	MP GAMMA1	Y	.002	2.5
23	MP GAMMA1	X	-.000975	5.5
24	MP GAMMA1	X	-.000975	2.5
25	MP ALPHA2	Y	.014	7
26	MP ALPHA2	Y	.014	1
27	MP ALPHA2	X	-.008	7
28	MP ALPHA2	X	-.008	1
29	MP BETA2	Y	.014	7
30	MP BETA2	Y	.014	1
31	MP BETA2	X	-.008	7
32	MP BETA2	X	-.008	1
33	MP GAMMA2	Y	.006	7
34	MP GAMMA2	Y	.006	1
35	MP GAMMA2	X	-.003	7
36	MP GAMMA2	X	-.003	1
37	MP ALPHA2	Y	.000182	4
38	MP ALPHA2	X	-.000105	4
39	MP BETA2	Y	.000182	4
40	MP BETA2	X	-.000105	4
41	MP GAMMA2	Y	.000352	4
42	MP GAMMA2	X	-.000203	4
43	MP ALPHA2	Y	.003	4
44	MP ALPHA2	X	-.002	4
45	MP BETA2	Y	.003	4
46	MP BETA2	X	-.002	4
47	MP GAMMA2	Y	.002	4
48	MP GAMMA2	X	-.00093	4
49	MP ALPHA1	Y	.003	4
50	MP ALPHA1	X	-.002	4
51	MP BETA1	Y	.003	4
52	MP BETA1	X	-.002	4
53	MP GAMMA1	Y	.003	4
54	MP GAMMA1	X	-.002	4
55	MP ALPHA2	Y	.004	4
56	MP ALPHA2	X	-.002	4
57	MP BETA2	Y	.004	4
58	MP BETA2	X	-.002	4
59	MP GAMMA2	Y	.003	4
60	MP GAMMA2	X	-.002	4
61	M76	Y	.005	5
62	M76	Y	.005	3
63	M76	X	-.003	5
64	M76	X	-.003	3
65	M77	Y	.005	5
66	M77	Y	.005	3
67	M77	X	-.003	5
68	M77	X	-.003	3
69	M78	Y	.005	5
70	M78	Y	.005	3
71	M78	X	-.003	5
72	M78	X	-.003	3

Member Point Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.007	5
2	MP ALPHA3	Y	.007	3
3	MP BETA3	Y	.004	5
4	MP BETA3	Y	.004	3
5	MP GAMMA3	Y	.004	5
6	MP GAMMA3	Y	.004	3
7	MP ALPHA1	Y	.008	5.5
8	MP ALPHA1	Y	.008	2.5
9	MP BETA1	Y	.003	5.5
10	MP BETA1	Y	.003	2.5
11	MP GAMMA1	Y	.003	5.5
12	MP GAMMA1	Y	.003	2.5
13	MP ALPHA2	Y	.019	7
14	MP ALPHA2	Y	.019	1
15	MP BETA2	Y	.01	7
16	MP BETA2	Y	.01	1
17	MP GAMMA2	Y	.01	7
18	MP GAMMA2	Y	.01	1
19	MP ALPHA2	Y	.000144	4
20	MP BETA2	Y	.000341	4
21	MP GAMMA2	Y	.000341	4
22	MP ALPHA2	Y	.004	4
23	MP BETA2	Y	.002	4
24	MP GAMMA2	Y	.002	4
25	MP ALPHA1	Y	.004	4
26	MP BETA1	Y	.003	4
27	MP GAMMA1	Y	.003	4
28	MP ALPHA2	Y	.005	4
29	MP BETA2	Y	.004	4
30	MP GAMMA2	Y	.004	4
31	M76	Y	.007	5
32	M76	Y	.007	3
33	M77	Y	.007	5
34	M77	Y	.007	3
35	M78	Y	.007	5
36	M78	Y	.007	3

Member Point Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.005	5
2	MP ALPHA3	Y	.005	3
3	MP ALPHA3	X	.003	5
4	MP ALPHA3	X	.003	3
5	MP BETA3	Y	.003	5
6	MP BETA3	Y	.003	3
7	MP BETA3	X	.001	5
8	MP BETA3	X	.001	3
9	MP GAMMA3	Y	.005	5
10	MP GAMMA3	Y	.005	3
11	MP GAMMA3	X	.003	5
12	MP GAMMA3	X	.003	3
13	MP ALPHA1	Y	.006	5.5
14	MP ALPHA1	Y	.006	2.5
15	MP ALPHA1	X	.003	5.5
16	MP ALPHA1	X	.003	2.5
17	MP BETA1	Y	.002	5.5

Member Point Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA1	Y	.002	2.5
19	MP BETA1	X	.000975	5.5
20	MP BETA1	X	.000975	2.5
21	MP GAMMA1	Y	.006	5.5
22	MP GAMMA1	Y	.006	2.5
23	MP GAMMA1	X	.003	5.5
24	MP GAMMA1	X	.003	2.5
25	MP ALPHA2	Y	.014	7
26	MP ALPHA2	Y	.014	1
27	MP ALPHA2	X	.008	7
28	MP ALPHA2	X	.008	1
29	MP BETA2	Y	.006	7
30	MP BETA2	Y	.006	1
31	MP BETA2	X	.003	7
32	MP BETA2	X	.003	1
33	MP GAMMA2	Y	.014	7
34	MP GAMMA2	Y	.014	1
35	MP GAMMA2	X	.008	7
36	MP GAMMA2	X	.008	1
37	MP ALPHA2	Y	.000182	4
38	MP ALPHA2	X	.000105	4
39	MP BETA2	Y	.000352	4
40	MP BETA2	X	.000203	4
41	MP GAMMA2	Y	.000182	4
42	MP GAMMA2	X	.000105	4
43	MP ALPHA2	Y	.003	4
44	MP ALPHA2	X	.002	4
45	MP BETA2	Y	.002	4
46	MP BETA2	X	.00093	4
47	MP GAMMA2	Y	.003	4
48	MP GAMMA2	X	.002	4
49	MP ALPHA1	Y	.003	4
50	MP ALPHA1	X	.002	4
51	MP BETA1	Y	.003	4
52	MP BETA1	X	.002	4
53	MP GAMMA1	Y	.003	4
54	MP GAMMA1	X	.002	4
55	MP ALPHA2	Y	.004	4
56	MP ALPHA2	X	.002	4
57	MP BETA2	Y	.003	4
58	MP BETA2	X	.002	4
59	MP GAMMA2	Y	.004	4
60	MP GAMMA2	X	.002	4
61	M76	Y	.005	5
62	M76	Y	.005	3
63	M76	X	.003	5
64	M76	X	.003	3
65	M77	Y	.005	5
66	M77	Y	.005	3
67	M77	X	.003	5
68	M77	X	.003	3
69	M78	Y	.005	5
70	M78	Y	.005	3
71	M78	X	.003	5
72	M78	X	.003	3

Member Point Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.002	5
2	MP ALPHA3	Y	.002	3
3	MP ALPHA3	X	.003	5
4	MP ALPHA3	X	.003	3
5	MP BETA3	Y	.002	5
6	MP BETA3	Y	.002	3
7	MP BETA3	X	.003	5
8	MP BETA3	X	.003	3
9	MP GAMMA3	Y	.003	5
10	MP GAMMA3	Y	.003	3
11	MP GAMMA3	X	.006	5
12	MP GAMMA3	X	.006	3
13	MP ALPHA1	Y	.002	5.5
14	MP ALPHA1	Y	.002	2.5
15	MP ALPHA1	X	.003	5.5
16	MP ALPHA1	X	.003	2.5
17	MP BETA1	Y	.002	5.5
18	MP BETA1	Y	.002	2.5
19	MP BETA1	X	.003	5.5
20	MP BETA1	X	.003	2.5
21	MP GAMMA1	Y	.004	5.5
22	MP GAMMA1	Y	.004	2.5
23	MP GAMMA1	X	.007	5.5
24	MP GAMMA1	X	.007	2.5
25	MP ALPHA2	Y	.005	7
26	MP ALPHA2	Y	.005	1
27	MP ALPHA2	X	.009	7
28	MP ALPHA2	X	.009	1
29	MP BETA2	Y	.005	7
30	MP BETA2	Y	.005	1
31	MP BETA2	X	.009	7
32	MP BETA2	X	.009	1
33	MP GAMMA2	Y	.01	7
34	MP GAMMA2	Y	.01	1
35	MP GAMMA2	X	.017	7
36	MP GAMMA2	X	.017	1
37	MP ALPHA2	Y	.00017	4
38	MP ALPHA2	X	.000295	4
39	MP BETA2	Y	.00017	4
40	MP BETA2	X	.000295	4
41	MP GAMMA2	Y	7.2e-5	4
42	MP GAMMA2	X	.000125	4
43	MP ALPHA2	Y	.001	4
44	MP ALPHA2	X	.002	4
45	MP BETA2	Y	.001	4
46	MP BETA2	X	.002	4
47	MP GAMMA2	Y	.002	4
48	MP GAMMA2	X	.003	4
49	MP ALPHA1	Y	.002	4
50	MP ALPHA1	X	.003	4
51	MP BETA1	Y	.002	4
52	MP BETA1	X	.003	4
53	MP GAMMA1	Y	.002	4
54	MP GAMMA1	X	.004	4
55	MP ALPHA2	Y	.002	4
56	MP ALPHA2	X	.003	4
57	MP BETA2	Y	.002	4

Member Point Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	.003	4
59	MP GAMMA2	Y	.002	4
60	MP GAMMA2	X	.004	4
61	M76	Y	.002	5
62	M76	Y	.002	3
63	M76	X	.003	5
64	M76	X	.003	3
65	M77	Y	.002	5
66	M77	Y	.002	3
67	M77	X	.003	5
68	M77	X	.003	3
69	M78	Y	.002	5
70	M78	Y	.002	3
71	M78	X	.003	5
72	M78	X	.003	3

Member Point Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	.003	5
2	MP ALPHA3	X	.003	3
3	MP BETA3	X	.006	5
4	MP BETA3	X	.006	3
5	MP GAMMA3	X	.006	5
6	MP GAMMA3	X	.006	3
7	MP ALPHA1	X	.002	5.5
8	MP ALPHA1	X	.002	2.5
9	MP BETA1	X	.007	5.5
10	MP BETA1	X	.007	2.5
11	MP GAMMA1	X	.007	5.5
12	MP GAMMA1	X	.007	2.5
13	MP ALPHA2	X	.007	7
14	MP ALPHA2	X	.007	1
15	MP BETA2	X	.016	7
16	MP BETA2	X	.016	1
17	MP GAMMA2	X	.016	7
18	MP GAMMA2	X	.016	1
19	MP ALPHA2	X	.000406	4
20	MP BETA2	X	.00021	4
21	MP GAMMA2	X	.00021	4
22	MP ALPHA2	X	.002	4
23	MP BETA2	X	.003	4
24	MP GAMMA2	X	.003	4
25	MP ALPHA1	X	.003	4
26	MP BETA1	X	.004	4
27	MP GAMMA1	X	.004	4
28	MP ALPHA2	X	.004	4
29	MP BETA2	X	.004	4
30	MP GAMMA2	X	.004	4
31	M76	X	.003	5
32	M76	X	.003	3
33	M77	X	.003	5
34	M77	X	.003	3
35	M78	X	.003	5
36	M78	X	.003	3

Member Point Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.002	5
2	MP ALPHA3	Y	-.002	3
3	MP ALPHA3	X	.003	5
4	MP ALPHA3	X	.003	3
5	MP BETA3	Y	-.003	5
6	MP BETA3	Y	-.003	3
7	MP BETA3	X	.006	5
8	MP BETA3	X	.006	3
9	MP GAMMA3	Y	-.002	5
10	MP GAMMA3	Y	-.002	3
11	MP GAMMA3	X	.003	5
12	MP GAMMA3	X	.003	3
13	MP ALPHA1	Y	-.002	5.5
14	MP ALPHA1	Y	-.002	2.5
15	MP ALPHA1	X	.003	5.5
16	MP ALPHA1	X	.003	2.5
17	MP BETA1	Y	-.004	5.5
18	MP BETA1	Y	-.004	2.5
19	MP BETA1	X	.007	5.5
20	MP BETA1	X	.007	2.5
21	MP GAMMA1	Y	-.002	5.5
22	MP GAMMA1	Y	-.002	2.5
23	MP GAMMA1	X	.003	5.5
24	MP GAMMA1	X	.003	2.5
25	MP ALPHA2	Y	-.005	7
26	MP ALPHA2	Y	-.005	1
27	MP ALPHA2	X	.009	7
28	MP ALPHA2	X	.009	1
29	MP BETA2	Y	-.01	7
30	MP BETA2	Y	-.01	1
31	MP BETA2	X	.017	7
32	MP BETA2	X	.017	1
33	MP GAMMA2	Y	-.005	7
34	MP GAMMA2	Y	-.005	1
35	MP GAMMA2	X	.009	7
36	MP GAMMA2	X	.009	1
37	MP ALPHA2	Y	-.00017	4
38	MP ALPHA2	X	.000295	4
39	MP BETA2	Y	-7.2e-5	4
40	MP BETA2	X	.000125	4
41	MP GAMMA2	Y	-.00017	4
42	MP GAMMA2	X	.000295	4
43	MP ALPHA2	Y	-.001	4
44	MP ALPHA2	X	.002	4
45	MP BETA2	Y	-.002	4
46	MP BETA2	X	.003	4
47	MP GAMMA2	Y	-.001	4
48	MP GAMMA2	X	.002	4
49	MP ALPHA1	Y	-.002	4
50	MP ALPHA1	X	.003	4
51	MP BETA1	Y	-.002	4
52	MP BETA1	X	.004	4
53	MP GAMMA1	Y	-.002	4
54	MP GAMMA1	X	.003	4
55	MP ALPHA2	Y	-.002	4
56	MP ALPHA2	X	.003	4
57	MP BETA2	Y	-.002	4

Member Point Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	.004	4
59	MP GAMMA2	Y	-.002	4
60	MP GAMMA2	X	.003	4
61	M76	Y	-.002	5
62	M76	Y	-.002	3
63	M76	X	.003	5
64	M76	X	.003	3
65	M77	Y	-.002	5
66	M77	Y	-.002	3
67	M77	X	.003	5
68	M77	X	.003	3
69	M78	Y	-.002	5
70	M78	Y	-.002	3
71	M78	X	.003	5
72	M78	X	.003	3

Member Point Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.005	5
2	MP ALPHA3	Y	-.005	3
3	MP ALPHA3	X	.003	5
4	MP ALPHA3	X	.003	3
5	MP BETA3	Y	-.005	5
6	MP BETA3	Y	-.005	3
7	MP BETA3	X	.003	5
8	MP BETA3	X	.003	3
9	MP GAMMA3	Y	-.003	5
10	MP GAMMA3	Y	-.003	3
11	MP GAMMA3	X	.001	5
12	MP GAMMA3	X	.001	3
13	MP ALPHA1	Y	-.006	5.5
14	MP ALPHA1	Y	-.006	2.5
15	MP ALPHA1	X	.003	5.5
16	MP ALPHA1	X	.003	2.5
17	MP BETA1	Y	-.006	5.5
18	MP BETA1	Y	-.006	2.5
19	MP BETA1	X	.003	5.5
20	MP BETA1	X	.003	2.5
21	MP GAMMA1	Y	-.002	5.5
22	MP GAMMA1	Y	-.002	2.5
23	MP GAMMA1	X	.000975	5.5
24	MP GAMMA1	X	.000975	2.5
25	MP ALPHA2	Y	-.014	7
26	MP ALPHA2	Y	-.014	1
27	MP ALPHA2	X	.008	7
28	MP ALPHA2	X	.008	1
29	MP BETA2	Y	-.014	7
30	MP BETA2	Y	-.014	1
31	MP BETA2	X	.008	7
32	MP BETA2	X	.008	1
33	MP GAMMA2	Y	-.006	7
34	MP GAMMA2	Y	-.006	1
35	MP GAMMA2	X	.003	7
36	MP GAMMA2	X	.003	1
37	MP ALPHA2	Y	-.000182	4
38	MP ALPHA2	X	.000105	4

Member Point Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP BETA2	Y	-.000182	4
40	MP BETA2	X	.000105	4
41	MP GAMMA2	Y	-.000352	4
42	MP GAMMA2	X	.000203	4
43	MP ALPHA2	Y	-.003	4
44	MP ALPHA2	X	.002	4
45	MP BETA2	Y	-.003	4
46	MP BETA2	X	.002	4
47	MP GAMMA2	Y	-.002	4
48	MP GAMMA2	X	.00093	4
49	MP ALPHA1	Y	-.003	4
50	MP ALPHA1	X	.002	4
51	MP BETA1	Y	-.003	4
52	MP BETA1	X	.002	4
53	MP GAMMA1	Y	-.003	4
54	MP GAMMA1	X	.002	4
55	MP ALPHA2	Y	-.004	4
56	MP ALPHA2	X	.002	4
57	MP BETA2	Y	-.004	4
58	MP BETA2	X	.002	4
59	MP GAMMA2	Y	-.003	4
60	MP GAMMA2	X	.002	4
61	M76	Y	-.005	5
62	M76	Y	-.005	3
63	M76	X	.003	5
64	M76	X	.003	3
65	M77	Y	-.005	5
66	M77	Y	-.005	3
67	M77	X	.003	5
68	M77	X	.003	3
69	M78	Y	-.005	5
70	M78	Y	-.005	3
71	M78	X	.003	5
72	M78	X	.003	3

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Z	-.051	5
2	MP ALPHA3	Z	-.051	3
3	MP BETA3	Z	-.051	5
4	MP BETA3	Z	-.051	3
5	MP GAMMA3	Z	-.051	5
6	MP GAMMA3	Z	-.051	3
7	MP ALPHA1	Z	-.044	5.5
8	MP ALPHA1	Z	-.044	2.5
9	MP BETA1	Z	-.044	5.5
10	MP BETA1	Z	-.044	2.5
11	MP GAMMA1	Z	-.044	5.5
12	MP GAMMA1	Z	-.044	2.5
13	MP ALPHA2	Z	-.143	7
14	MP ALPHA2	Z	-.143	1
15	MP BETA2	Z	-.143	7
16	MP BETA2	Z	-.143	1
17	MP GAMMA2	Z	-.143	7
18	MP GAMMA2	Z	-.143	1
19	MP ALPHA2	Z	-.006	4

Member Point Loads (BLC 27 : Ice Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP BETA2	Z	-.006	4
21	MP GAMMA2	Z	-.006	4
22	MP ALPHA2	Z	-.036	4
23	MP BETA2	Z	-.036	4
24	MP GAMMA2	Z	-.036	4
25	MP ALPHA1	Z	-.048	4
26	MP BETA1	Z	-.048	4
27	MP GAMMA1	Z	-.048	4
28	MP ALPHA2	Z	-.052	4
29	MP BETA2	Z	-.052	4
30	MP GAMMA2	Z	-.052	4
31	M76	Z	-.051	5
32	M76	Z	-.051	3
33	M77	Z	-.051	5
34	M77	Z	-.051	3
35	M78	Z	-.051	5
36	M78	Z	-.051	3

Member Point Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.013	5
2	MP ALPHA3	Y	-.013	3
3	MP BETA3	Y	-.008	5
4	MP BETA3	Y	-.008	3
5	MP GAMMA3	Y	-.008	5
6	MP GAMMA3	Y	-.008	3
7	MP ALPHA1	Y	-.025	5.5
8	MP ALPHA1	Y	-.025	2.5
9	MP BETA1	Y	-.013	5.5
10	MP BETA1	Y	-.013	2.5
11	MP GAMMA1	Y	-.013	5.5
12	MP GAMMA1	Y	-.013	2.5
13	MP ALPHA2	Y	-.054	7
14	MP ALPHA2	Y	-.054	1
15	MP BETA2	Y	-.03	7
16	MP BETA2	Y	-.03	1
17	MP GAMMA2	Y	-.03	7
18	MP GAMMA2	Y	-.03	1
19	MP ALPHA2	Y	-.000869	4
20	MP BETA2	Y	-.001	4
21	MP GAMMA2	Y	-.001	4
22	MP ALPHA2	Y	-.009	4
23	MP BETA2	Y	-.006	4
24	MP GAMMA2	Y	-.006	4
25	MP ALPHA1	Y	-.01	4
26	MP BETA1	Y	-.008	4
27	MP GAMMA1	Y	-.008	4
28	MP ALPHA2	Y	-.01	4
29	MP BETA2	Y	-.009	4
30	MP GAMMA2	Y	-.009	4
31	M76	Y	-.013	5
32	M76	Y	-.013	3
33	M77	Y	-.013	5
34	M77	Y	-.013	3
35	M78	Y	-.013	5
36	M78	Y	-.013	3

Member Point Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.01	5
2	MP ALPHA3	Y	-.01	3
3	MP ALPHA3	X	-.006	5
4	MP ALPHA3	X	-.006	3
5	MP BETA3	Y	-.005	5
6	MP BETA3	Y	-.005	3
7	MP BETA3	X	-.003	5
8	MP BETA3	X	-.003	3
9	MP GAMMA3	Y	-.01	5
10	MP GAMMA3	Y	-.01	3
11	MP GAMMA3	X	-.006	5
12	MP GAMMA3	X	-.006	3
13	MP ALPHA1	Y	-.018	5.5
14	MP ALPHA1	Y	-.018	2.5
15	MP ALPHA1	X	-.011	5.5
16	MP ALPHA1	X	-.011	2.5
17	MP BETA1	Y	-.008	5.5
18	MP BETA1	Y	-.008	2.5
19	MP BETA1	X	-.004	5.5
20	MP BETA1	X	-.004	2.5
21	MP GAMMA1	Y	-.018	5.5
22	MP GAMMA1	Y	-.018	2.5
23	MP GAMMA1	X	-.011	5.5
24	MP GAMMA1	X	-.011	2.5
25	MP ALPHA2	Y	-.04	7
26	MP ALPHA2	Y	-.04	1
27	MP ALPHA2	X	-.023	7
28	MP ALPHA2	X	-.023	1
29	MP BETA2	Y	-.02	7
30	MP BETA2	Y	-.02	1
31	MP BETA2	X	-.011	7
32	MP BETA2	X	-.011	1
33	MP GAMMA2	Y	-.04	7
34	MP GAMMA2	Y	-.04	1
35	MP GAMMA2	X	-.023	7
36	MP GAMMA2	X	-.023	1
37	MP ALPHA2	Y	-.000904	4
38	MP ALPHA2	X	-.000522	4
39	MP BETA2	Y	-.001	4
40	MP BETA2	X	-.000785	4
41	MP GAMMA2	Y	-.000904	4
42	MP GAMMA2	X	-.000522	4
43	MP ALPHA2	Y	-.007	4
44	MP ALPHA2	X	-.004	4
45	MP BETA2	Y	-.004	4
46	MP BETA2	X	-.002	4
47	MP GAMMA2	Y	-.007	4
48	MP GAMMA2	X	-.004	4
49	MP ALPHA1	Y	-.008	4
50	MP ALPHA1	X	-.004	4
51	MP BETA1	Y	-.006	4
52	MP BETA1	X	-.004	4
53	MP GAMMA1	Y	-.008	4
54	MP GAMMA1	X	-.004	4
55	MP ALPHA2	Y	-.008	4
56	MP ALPHA2	X	-.005	4
57	MP BETA2	Y	-.007	4

Member Point Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	-.004	4
59	MP GAMMA2	Y	-.008	4
60	MP GAMMA2	X	-.005	4
61	M76	Y	-.01	5
62	M76	Y	-.01	3
63	M76	X	-.006	5
64	M76	X	-.006	3
65	M77	Y	-.01	5
66	M77	Y	-.01	3
67	M77	X	-.006	5
68	M77	X	-.006	3
69	M78	Y	-.01	5
70	M78	Y	-.01	3
71	M78	X	-.006	5
72	M78	X	-.006	3

Member Point Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.004	5
2	MP ALPHA3	Y	-.004	3
3	MP ALPHA3	X	-.007	5
4	MP ALPHA3	X	-.007	3
5	MP BETA3	Y	-.004	5
6	MP BETA3	Y	-.004	3
7	MP BETA3	X	-.007	5
8	MP BETA3	X	-.007	3
9	MP GAMMA3	Y	-.006	5
10	MP GAMMA3	Y	-.006	3
11	MP GAMMA3	X	-.011	5
12	MP GAMMA3	X	-.011	3
13	MP ALPHA1	Y	-.006	5.5
14	MP ALPHA1	Y	-.006	2.5
15	MP ALPHA1	X	-.011	5.5
16	MP ALPHA1	X	-.011	2.5
17	MP BETA1	Y	-.006	5.5
18	MP BETA1	Y	-.006	2.5
19	MP BETA1	X	-.011	5.5
20	MP BETA1	X	-.011	2.5
21	MP GAMMA1	Y	-.013	5.5
22	MP GAMMA1	Y	-.013	2.5
23	MP GAMMA1	X	-.022	5.5
24	MP GAMMA1	X	-.022	2.5
25	MP ALPHA2	Y	-.015	7
26	MP ALPHA2	Y	-.015	1
27	MP ALPHA2	X	-.026	7
28	MP ALPHA2	X	-.026	1
29	MP BETA2	Y	-.015	7
30	MP BETA2	Y	-.015	1
31	MP BETA2	X	-.026	7
32	MP BETA2	X	-.026	1
33	MP GAMMA2	Y	-.027	7
34	MP GAMMA2	Y	-.027	1
35	MP GAMMA2	X	-.047	7
36	MP GAMMA2	X	-.047	1
37	MP ALPHA2	Y	-.000697	4
38	MP ALPHA2	X	-.001	4

Member Point Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP BETA2	Y	-.000697	4
40	MP BETA2	X	-.001	4
41	MP GAMMA2	Y	-.000435	4
42	MP GAMMA2	X	-.000753	4
43	MP ALPHA2	Y	-.003	4
44	MP ALPHA2	X	-.005	4
45	MP BETA2	Y	-.003	4
46	MP BETA2	X	-.005	4
47	MP GAMMA2	Y	-.004	4
48	MP GAMMA2	X	-.007	4
49	MP ALPHA1	Y	-.004	4
50	MP ALPHA1	X	-.007	4
51	MP BETA1	Y	-.004	4
52	MP BETA1	X	-.007	4
53	MP GAMMA1	Y	-.005	4
54	MP GAMMA1	X	-.008	4
55	MP ALPHA2	Y	-.004	4
56	MP ALPHA2	X	-.008	4
57	MP BETA2	Y	-.004	4
58	MP BETA2	X	-.008	4
59	MP GAMMA2	Y	-.005	4
60	MP GAMMA2	X	-.009	4
61	M76	Y	-.004	5
62	M76	Y	-.004	3
63	M76	X	-.007	5
64	M76	X	-.007	3
65	M77	Y	-.004	5
66	M77	Y	-.004	3
67	M77	X	-.007	5
68	M77	X	-.007	3
69	M78	Y	-.004	5
70	M78	Y	-.004	3
71	M78	X	-.007	5
72	M78	X	-.007	3

Member Point Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.006	5
2	MP ALPHA3	X	-.006	3
3	MP BETA3	X	-.011	5
4	MP BETA3	X	-.011	3
5	MP GAMMA3	X	-.011	5
6	MP GAMMA3	X	-.011	3
7	MP ALPHA1	X	-.009	5.5
8	MP ALPHA1	X	-.009	2.5
9	MP BETA1	X	-.021	5.5
10	MP BETA1	X	-.021	2.5
11	MP GAMMA1	X	-.021	5.5
12	MP GAMMA1	X	-.021	2.5
13	MP ALPHA2	X	-.023	7
14	MP ALPHA2	X	-.023	1
15	MP BETA2	X	-.046	7
16	MP BETA2	X	-.046	1
17	MP GAMMA2	X	-.046	7
18	MP GAMMA2	X	-.046	1
19	MP ALPHA2	X	-.002	4

Member Point Loads (BLC 31 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP BETA2	X	-.001	4
21	MP GAMMA2	X	-.001	4
22	MP ALPHA2	X	-.005	4
23	MP BETA2	X	-.008	4
24	MP GAMMA2	X	-.008	4
25	MP ALPHA1	X	-.007	4
26	MP BETA1	X	-.009	4
27	MP GAMMA1	X	-.009	4
28	MP ALPHA2	X	-.008	4
29	MP BETA2	X	-.01	4
30	MP GAMMA2	X	-.01	4
31	M76	X	-.006	5
32	M76	X	-.006	3
33	M77	X	-.006	5
34	M77	X	-.006	3
35	M78	X	-.006	5
36	M78	X	-.006	3

Member Point Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.004	5
2	MP ALPHA3	Y	.004	3
3	MP ALPHA3	X	-.007	5
4	MP ALPHA3	X	-.007	3
5	MP BETA3	Y	.006	5
6	MP BETA3	Y	.006	3
7	MP BETA3	X	-.011	5
8	MP BETA3	X	-.011	3
9	MP GAMMA3	Y	.004	5
10	MP GAMMA3	Y	.004	3
11	MP GAMMA3	X	-.007	5
12	MP GAMMA3	X	-.007	3
13	MP ALPHA1	Y	.006	5.5
14	MP ALPHA1	Y	.006	2.5
15	MP ALPHA1	X	-.011	5.5
16	MP ALPHA1	X	-.011	2.5
17	MP BETA1	Y	.013	5.5
18	MP BETA1	Y	.013	2.5
19	MP BETA1	X	-.022	5.5
20	MP BETA1	X	-.022	2.5
21	MP GAMMA1	Y	.006	5.5
22	MP GAMMA1	Y	.006	2.5
23	MP GAMMA1	X	-.011	5.5
24	MP GAMMA1	X	-.011	2.5
25	MP ALPHA2	Y	.015	7
26	MP ALPHA2	Y	.015	1
27	MP ALPHA2	X	-.026	7
28	MP ALPHA2	X	-.026	1
29	MP BETA2	Y	.027	7
30	MP BETA2	Y	.027	1
31	MP BETA2	X	-.047	7
32	MP BETA2	X	-.047	1
33	MP GAMMA2	Y	.015	7
34	MP GAMMA2	Y	.015	1
35	MP GAMMA2	X	-.026	7
36	MP GAMMA2	X	-.026	1

Member Point Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
37	MP ALPHA2	Y	.000697	4
38	MP ALPHA2	X	-.001	4
39	MP BETA2	Y	.000435	4
40	MP BETA2	X	-.000753	4
41	MP GAMMA2	Y	.000697	4
42	MP GAMMA2	X	-.001	4
43	MP ALPHA2	Y	.003	4
44	MP ALPHA2	X	-.005	4
45	MP BETA2	Y	.004	4
46	MP BETA2	X	-.007	4
47	MP GAMMA2	Y	.003	4
48	MP GAMMA2	X	-.005	4
49	MP ALPHA1	Y	.004	4
50	MP ALPHA1	X	-.007	4
51	MP BETA1	Y	.005	4
52	MP BETA1	X	-.008	4
53	MP GAMMA1	Y	.004	4
54	MP GAMMA1	X	-.007	4
55	MP ALPHA2	Y	.004	4
56	MP ALPHA2	X	-.008	4
57	MP BETA2	Y	.005	4
58	MP BETA2	X	-.009	4
59	MP GAMMA2	Y	.004	4
60	MP GAMMA2	X	-.008	4
61	M76	Y	.004	5
62	M76	Y	.004	3
63	M76	X	-.007	5
64	M76	X	-.007	3
65	M77	Y	.004	5
66	M77	Y	.004	3
67	M77	X	-.007	5
68	M77	X	-.007	3
69	M78	Y	.004	5
70	M78	Y	.004	3
71	M78	X	-.007	5
72	M78	X	-.007	3

Member Point Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.01	5
2	MP ALPHA3	Y	.01	3
3	MP ALPHA3	X	-.006	5
4	MP ALPHA3	X	-.006	3
5	MP BETA3	Y	.01	5
6	MP BETA3	Y	.01	3
7	MP BETA3	X	-.006	5
8	MP BETA3	X	-.006	3
9	MP GAMMA3	Y	.005	5
10	MP GAMMA3	Y	.005	3
11	MP GAMMA3	X	-.003	5
12	MP GAMMA3	X	-.003	3
13	MP ALPHA1	Y	.018	5.5
14	MP ALPHA1	Y	.018	2.5
15	MP ALPHA1	X	-.011	5.5
16	MP ALPHA1	X	-.011	2.5
17	MP BETA1	Y	.018	5.5

Member Point Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA1	Y	.018	2.5
19	MP BETA1	X	-.011	5.5
20	MP BETA1	X	-.011	2.5
21	MP GAMMA1	Y	.008	5.5
22	MP GAMMA1	Y	.008	2.5
23	MP GAMMA1	X	-.004	5.5
24	MP GAMMA1	X	-.004	2.5
25	MP ALPHA2	Y	.04	7
26	MP ALPHA2	Y	.04	1
27	MP ALPHA2	X	-.023	7
28	MP ALPHA2	X	-.023	1
29	MP BETA2	Y	.04	7
30	MP BETA2	Y	.04	1
31	MP BETA2	X	-.023	7
32	MP BETA2	X	-.023	1
33	MP GAMMA2	Y	.02	7
34	MP GAMMA2	Y	.02	1
35	MP GAMMA2	X	-.011	7
36	MP GAMMA2	X	-.011	1
37	MP ALPHA2	Y	.000904	4
38	MP ALPHA2	X	-.000522	4
39	MP BETA2	Y	.000904	4
40	MP BETA2	X	-.000522	4
41	MP GAMMA2	Y	.001	4
42	MP GAMMA2	X	-.000785	4
43	MP ALPHA2	Y	.007	4
44	MP ALPHA2	X	-.004	4
45	MP BETA2	Y	.007	4
46	MP BETA2	X	-.004	4
47	MP GAMMA2	Y	.004	4
48	MP GAMMA2	X	-.002	4
49	MP ALPHA1	Y	.008	4
50	MP ALPHA1	X	-.004	4
51	MP BETA1	Y	.008	4
52	MP BETA1	X	-.004	4
53	MP GAMMA1	Y	.006	4
54	MP GAMMA1	X	-.004	4
55	MP ALPHA2	Y	.008	4
56	MP ALPHA2	X	-.005	4
57	MP BETA2	Y	.008	4
58	MP BETA2	X	-.005	4
59	MP GAMMA2	Y	.007	4
60	MP GAMMA2	X	-.004	4
61	M76	Y	.01	5
62	M76	Y	.01	3
63	M76	X	-.006	5
64	M76	X	-.006	3
65	M77	Y	.01	5
66	M77	Y	.01	3
67	M77	X	-.006	5
68	M77	X	-.006	3
69	M78	Y	.01	5
70	M78	Y	.01	3
71	M78	X	-.006	5
72	M78	X	-.006	3

Member Point Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.013	5
2	MP ALPHA3	Y	.013	3
3	MP BETA3	Y	.008	5
4	MP BETA3	Y	.008	3
5	MP GAMMA3	Y	.008	5
6	MP GAMMA3	Y	.008	3
7	MP ALPHA1	Y	.025	5.5
8	MP ALPHA1	Y	.025	2.5
9	MP BETA1	Y	.013	5.5
10	MP BETA1	Y	.013	2.5
11	MP GAMMA1	Y	.013	5.5
12	MP GAMMA1	Y	.013	2.5
13	MP ALPHA2	Y	.054	7
14	MP ALPHA2	Y	.054	1
15	MP BETA2	Y	.03	7
16	MP BETA2	Y	.03	1
17	MP GAMMA2	Y	.03	7
18	MP GAMMA2	Y	.03	1
19	MP ALPHA2	Y	.000869	4
20	MP BETA2	Y	.001	4
21	MP GAMMA2	Y	.001	4
22	MP ALPHA2	Y	.009	4
23	MP BETA2	Y	.006	4
24	MP GAMMA2	Y	.006	4
25	MP ALPHA1	Y	.01	4
26	MP BETA1	Y	.008	4
27	MP GAMMA1	Y	.008	4
28	MP ALPHA2	Y	.01	4
29	MP BETA2	Y	.009	4
30	MP GAMMA2	Y	.009	4
31	M76	Y	.013	5
32	M76	Y	.013	3
33	M77	Y	.013	5
34	M77	Y	.013	3
35	M78	Y	.013	5
36	M78	Y	.013	3

Member Point Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.01	5
2	MP ALPHA3	Y	.01	3
3	MP ALPHA3	X	.006	5
4	MP ALPHA3	X	.006	3
5	MP BETA3	Y	.005	5
6	MP BETA3	Y	.005	3
7	MP BETA3	X	.003	5
8	MP BETA3	X	.003	3
9	MP GAMMA3	Y	.01	5
10	MP GAMMA3	Y	.01	3
11	MP GAMMA3	X	.006	5
12	MP GAMMA3	X	.006	3
13	MP ALPHA1	Y	.018	5.5
14	MP ALPHA1	Y	.018	2.5
15	MP ALPHA1	X	.011	5.5
16	MP ALPHA1	X	.011	2.5
17	MP BETA1	Y	.008	5.5

Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA1	Y	.008	2.5
19	MP BETA1	X	.004	5.5
20	MP BETA1	X	.004	2.5
21	MP GAMMA1	Y	.018	5.5
22	MP GAMMA1	Y	.018	2.5
23	MP GAMMA1	X	.011	5.5
24	MP GAMMA1	X	.011	2.5
25	MP ALPHA2	Y	.04	7
26	MP ALPHA2	Y	.04	1
27	MP ALPHA2	X	.023	7
28	MP ALPHA2	X	.023	1
29	MP BETA2	Y	.02	7
30	MP BETA2	Y	.02	1
31	MP BETA2	X	.011	7
32	MP BETA2	X	.011	1
33	MP GAMMA2	Y	.04	7
34	MP GAMMA2	Y	.04	1
35	MP GAMMA2	X	.023	7
36	MP GAMMA2	X	.023	1
37	MP ALPHA2	Y	.000904	4
38	MP ALPHA2	X	.000522	4
39	MP BETA2	Y	.001	4
40	MP BETA2	X	.000785	4
41	MP GAMMA2	Y	.000904	4
42	MP GAMMA2	X	.000522	4
43	MP ALPHA2	Y	.007	4
44	MP ALPHA2	X	.004	4
45	MP BETA2	Y	.004	4
46	MP BETA2	X	.002	4
47	MP GAMMA2	Y	.007	4
48	MP GAMMA2	X	.004	4
49	MP ALPHA1	Y	.008	4
50	MP ALPHA1	X	.004	4
51	MP BETA1	Y	.006	4
52	MP BETA1	X	.004	4
53	MP GAMMA1	Y	.008	4
54	MP GAMMA1	X	.004	4
55	MP ALPHA2	Y	.008	4
56	MP ALPHA2	X	.005	4
57	MP BETA2	Y	.007	4
58	MP BETA2	X	.004	4
59	MP GAMMA2	Y	.008	4
60	MP GAMMA2	X	.005	4
61	M76	Y	.01	5
62	M76	Y	.01	3
63	M76	X	.006	5
64	M76	X	.006	3
65	M77	Y	.01	5
66	M77	Y	.01	3
67	M77	X	.006	5
68	M77	X	.006	3
69	M78	Y	.01	5
70	M78	Y	.01	3
71	M78	X	.006	5
72	M78	X	.006	3

Member Point Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	.004	5
2	MP ALPHA3	Y	.004	3
3	MP ALPHA3	X	.007	5
4	MP ALPHA3	X	.007	3
5	MP BETA3	Y	.004	5
6	MP BETA3	Y	.004	3
7	MP BETA3	X	.007	5
8	MP BETA3	X	.007	3
9	MP GAMMA3	Y	.006	5
10	MP GAMMA3	Y	.006	3
11	MP GAMMA3	X	.011	5
12	MP GAMMA3	X	.011	3
13	MP ALPHA1	Y	.006	5.5
14	MP ALPHA1	Y	.006	2.5
15	MP ALPHA1	X	.011	5.5
16	MP ALPHA1	X	.011	2.5
17	MP BETA1	Y	.006	5.5
18	MP BETA1	Y	.006	2.5
19	MP BETA1	X	.011	5.5
20	MP BETA1	X	.011	2.5
21	MP GAMMA1	Y	.013	5.5
22	MP GAMMA1	Y	.013	2.5
23	MP GAMMA1	X	.022	5.5
24	MP GAMMA1	X	.022	2.5
25	MP ALPHA2	Y	.015	7
26	MP ALPHA2	Y	.015	1
27	MP ALPHA2	X	.026	7
28	MP ALPHA2	X	.026	1
29	MP BETA2	Y	.015	7
30	MP BETA2	Y	.015	1
31	MP BETA2	X	.026	7
32	MP BETA2	X	.026	1
33	MP GAMMA2	Y	.027	7
34	MP GAMMA2	Y	.027	1
35	MP GAMMA2	X	.047	7
36	MP GAMMA2	X	.047	1
37	MP ALPHA2	Y	.000697	4
38	MP ALPHA2	X	.001	4
39	MP BETA2	Y	.000697	4
40	MP BETA2	X	.001	4
41	MP GAMMA2	Y	.000435	4
42	MP GAMMA2	X	.000753	4
43	MP ALPHA2	Y	.003	4
44	MP ALPHA2	X	.005	4
45	MP BETA2	Y	.003	4
46	MP BETA2	X	.005	4
47	MP GAMMA2	Y	.004	4
48	MP GAMMA2	X	.007	4
49	MP ALPHA1	Y	.004	4
50	MP ALPHA1	X	.007	4
51	MP BETA1	Y	.004	4
52	MP BETA1	X	.007	4
53	MP GAMMA1	Y	.005	4
54	MP GAMMA1	X	.008	4
55	MP ALPHA2	Y	.004	4
56	MP ALPHA2	X	.008	4
57	MP BETA2	Y	.004	4

Member Point Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	.008	4
59	MP GAMMA2	Y	.005	4
60	MP GAMMA2	X	.009	4
61	M76	Y	.004	5
62	M76	Y	.004	3
63	M76	X	.007	5
64	M76	X	.007	3
65	M77	Y	.004	5
66	M77	Y	.004	3
67	M77	X	.007	5
68	M77	X	.007	3
69	M78	Y	.004	5
70	M78	Y	.004	3
71	M78	X	.007	5
72	M78	X	.007	3

Member Point Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	.006	5
2	MP ALPHA3	X	.006	3
3	MP BETA3	X	.011	5
4	MP BETA3	X	.011	3
5	MP GAMMA3	X	.011	5
6	MP GAMMA3	X	.011	3
7	MP ALPHA1	X	.009	5.5
8	MP ALPHA1	X	.009	2.5
9	MP BETA1	X	.021	5.5
10	MP BETA1	X	.021	2.5
11	MP GAMMA1	X	.021	5.5
12	MP GAMMA1	X	.021	2.5
13	MP ALPHA2	X	.023	7
14	MP ALPHA2	X	.023	1
15	MP BETA2	X	.046	7
16	MP BETA2	X	.046	1
17	MP GAMMA2	X	.046	7
18	MP GAMMA2	X	.046	1
19	MP ALPHA2	X	.002	4
20	MP BETA2	X	.001	4
21	MP GAMMA2	X	.001	4
22	MP ALPHA2	X	.005	4
23	MP BETA2	X	.008	4
24	MP GAMMA2	X	.008	4
25	MP ALPHA1	X	.007	4
26	MP BETA1	X	.009	4
27	MP GAMMA1	X	.009	4
28	MP ALPHA2	X	.008	4
29	MP BETA2	X	.01	4
30	MP GAMMA2	X	.01	4
31	M76	X	.006	5
32	M76	X	.006	3
33	M77	X	.006	5
34	M77	X	.006	3
35	M78	X	.006	5
36	M78	X	.006	3

Member Point Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.004	5
2	MP ALPHA3	Y	-.004	3
3	MP ALPHA3	X	.007	5
4	MP ALPHA3	X	.007	3
5	MP BETA3	Y	-.006	5
6	MP BETA3	Y	-.006	3
7	MP BETA3	X	.011	5
8	MP BETA3	X	.011	3
9	MP GAMMA3	Y	-.004	5
10	MP GAMMA3	Y	-.004	3
11	MP GAMMA3	X	.007	5
12	MP GAMMA3	X	.007	3
13	MP ALPHA1	Y	-.006	5.5
14	MP ALPHA1	Y	-.006	2.5
15	MP ALPHA1	X	.011	5.5
16	MP ALPHA1	X	.011	2.5
17	MP BETA1	Y	-.013	5.5
18	MP BETA1	Y	-.013	2.5
19	MP BETA1	X	.022	5.5
20	MP BETA1	X	.022	2.5
21	MP GAMMA1	Y	-.006	5.5
22	MP GAMMA1	Y	-.006	2.5
23	MP GAMMA1	X	.011	5.5
24	MP GAMMA1	X	.011	2.5
25	MP ALPHA2	Y	-.015	7
26	MP ALPHA2	Y	-.015	1
27	MP ALPHA2	X	.026	7
28	MP ALPHA2	X	.026	1
29	MP BETA2	Y	-.027	7
30	MP BETA2	Y	-.027	1
31	MP BETA2	X	.047	7
32	MP BETA2	X	.047	1
33	MP GAMMA2	Y	-.015	7
34	MP GAMMA2	Y	-.015	1
35	MP GAMMA2	X	.026	7
36	MP GAMMA2	X	.026	1
37	MP ALPHA2	Y	-.000697	4
38	MP ALPHA2	X	.001	4
39	MP BETA2	Y	-.000435	4
40	MP BETA2	X	.000753	4
41	MP GAMMA2	Y	-.000697	4
42	MP GAMMA2	X	.001	4
43	MP ALPHA2	Y	-.003	4
44	MP ALPHA2	X	.005	4
45	MP BETA2	Y	-.004	4
46	MP BETA2	X	.007	4
47	MP GAMMA2	Y	-.003	4
48	MP GAMMA2	X	.005	4
49	MP ALPHA1	Y	-.004	4
50	MP ALPHA1	X	.007	4
51	MP BETA1	Y	-.005	4
52	MP BETA1	X	.008	4
53	MP GAMMA1	Y	-.004	4
54	MP GAMMA1	X	.007	4
55	MP ALPHA2	Y	-.004	4
56	MP ALPHA2	X	.008	4
57	MP BETA2	Y	-.005	4

Member Point Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
58	MP BETA2	X	.009	4
59	MP GAMMA2	Y	-.004	4
60	MP GAMMA2	X	.008	4
61	M76	Y	-.004	5
62	M76	Y	-.004	3
63	M76	X	.007	5
64	M76	X	.007	3
65	M77	Y	-.004	5
66	M77	Y	-.004	3
67	M77	X	.007	5
68	M77	X	.007	3
69	M78	Y	-.004	5
70	M78	Y	-.004	3
71	M78	X	.007	5
72	M78	X	.007	3

Member Point Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.01	5
2	MP ALPHA3	Y	-.01	3
3	MP ALPHA3	X	.006	5
4	MP ALPHA3	X	.006	3
5	MP BETA3	Y	-.01	5
6	MP BETA3	Y	-.01	3
7	MP BETA3	X	.006	5
8	MP BETA3	X	.006	3
9	MP GAMMA3	Y	-.005	5
10	MP GAMMA3	Y	-.005	3
11	MP GAMMA3	X	.003	5
12	MP GAMMA3	X	.003	3
13	MP ALPHA1	Y	-.018	5.5
14	MP ALPHA1	Y	-.018	2.5
15	MP ALPHA1	X	.011	5.5
16	MP ALPHA1	X	.011	2.5
17	MP BETA1	Y	-.018	5.5
18	MP BETA1	Y	-.018	2.5
19	MP BETA1	X	.011	5.5
20	MP BETA1	X	.011	2.5
21	MP GAMMA1	Y	-.008	5.5
22	MP GAMMA1	Y	-.008	2.5
23	MP GAMMA1	X	.004	5.5
24	MP GAMMA1	X	.004	2.5
25	MP ALPHA2	Y	-.04	7
26	MP ALPHA2	Y	-.04	1
27	MP ALPHA2	X	.023	7
28	MP ALPHA2	X	.023	1
29	MP BETA2	Y	-.04	7
30	MP BETA2	Y	-.04	1
31	MP BETA2	X	.023	7
32	MP BETA2	X	.023	1
33	MP GAMMA2	Y	-.02	7
34	MP GAMMA2	Y	-.02	1
35	MP GAMMA2	X	.011	7
36	MP GAMMA2	X	.011	1
37	MP ALPHA2	Y	-.000904	4
38	MP ALPHA2	X	.000522	4

Member Point Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
39	MP BETA2	Y	-.000904	4
40	MP BETA2	X	.000522	4
41	MP GAMMA2	Y	-.001	4
42	MP GAMMA2	X	.000785	4
43	MP ALPHA2	Y	-.007	4
44	MP ALPHA2	X	.004	4
45	MP BETA2	Y	-.007	4
46	MP BETA2	X	.004	4
47	MP GAMMA2	Y	-.004	4
48	MP GAMMA2	X	.002	4
49	MP ALPHA1	Y	-.008	4
50	MP ALPHA1	X	.004	4
51	MP BETA1	Y	-.008	4
52	MP BETA1	X	.004	4
53	MP GAMMA1	Y	-.006	4
54	MP GAMMA1	X	.004	4
55	MP ALPHA2	Y	-.008	4
56	MP ALPHA2	X	.005	4
57	MP BETA2	Y	-.008	4
58	MP BETA2	X	.005	4
59	MP GAMMA2	Y	-.007	4
60	MP GAMMA2	X	.004	4
61	M76	Y	-.01	5
62	M76	Y	-.01	3
63	M76	X	.006	5
64	M76	X	.006	3
65	M77	Y	-.01	5
66	M77	Y	-.01	3
67	M77	X	.006	5
68	M77	X	.006	3
69	M78	Y	-.01	5
70	M78	Y	-.01	3
71	M78	X	.006	5
72	M78	X	.006	3

Member Point Loads (BLC 40 : Earthquake (x-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	X	-.005	5
2	MP ALPHA3	X	-.005	3
3	MP BETA3	X	-.005	5
4	MP BETA3	X	-.005	3
5	MP GAMMA3	X	-.005	5
6	MP GAMMA3	X	-.005	3
7	MP ALPHA1	X	-.002	5.5
8	MP ALPHA1	X	-.002	2.5
9	MP BETA1	X	-.002	5.5
10	MP BETA1	X	-.002	2.5
11	MP GAMMA1	X	-.002	5.5
12	MP GAMMA1	X	-.002	2.5
13	MP ALPHA2	X	-.008	7
14	MP ALPHA2	X	-.008	1
15	MP BETA2	X	-.008	7
16	MP BETA2	X	-.008	1
17	MP GAMMA2	X	-.008	7
18	MP GAMMA2	X	-.008	1
19	MP ALPHA2	X	-.00019	4

Member Point Loads (BLC 40 : Earthquake (x-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
20	MP BETA2	X	-.00019	4
21	MP GAMMA2	X	-.00019	4
22	MP ALPHA2	X	-.005	4
23	MP BETA2	X	-.005	4
24	MP GAMMA2	X	-.005	4
25	MP ALPHA1	X	-.009	4
26	MP BETA1	X	-.009	4
27	MP GAMMA1	X	-.009	4
28	MP ALPHA2	X	-.008	4
29	MP BETA2	X	-.008	4
30	MP GAMMA2	X	-.008	4
31	M76	X	-.005	5
32	M76	X	-.005	3
33	M77	X	-.005	5
34	M77	X	-.005	3
35	M78	X	-.005	5
36	M78	X	-.005	3

Member Point Loads (BLC 41 : Earthquake (y-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Y	-.005	5
2	MP ALPHA3	Y	-.005	3
3	MP BETA3	Y	-.005	5
4	MP BETA3	Y	-.005	3
5	MP GAMMA3	Y	-.005	5
6	MP GAMMA3	Y	-.005	3
7	MP ALPHA1	Y	-.002	5.5
8	MP ALPHA1	Y	-.002	2.5
9	MP BETA1	Y	-.002	5.5
10	MP BETA1	Y	-.002	2.5
11	MP GAMMA1	Y	-.002	5.5
12	MP GAMMA1	Y	-.002	2.5
13	MP ALPHA2	Y	-.008	7
14	MP ALPHA2	Y	-.008	1
15	MP BETA2	Y	-.008	7
16	MP BETA2	Y	-.008	1
17	MP GAMMA2	Y	-.008	7
18	MP GAMMA2	Y	-.008	1
19	MP ALPHA2	Y	-.00019	4
20	MP BETA2	Y	-.00019	4
21	MP GAMMA2	Y	-.00019	4
22	MP ALPHA2	Y	-.005	4
23	MP BETA2	Y	-.005	4
24	MP GAMMA2	Y	-.005	4
25	MP ALPHA1	Y	-.009	4
26	MP BETA1	Y	-.009	4
27	MP GAMMA1	Y	-.009	4
28	MP ALPHA2	Y	-.008	4
29	MP BETA2	Y	-.008	4
30	MP GAMMA2	Y	-.008	4
31	M76	Y	-.005	5
32	M76	Y	-.005	3
33	M77	Y	-.005	5
34	M77	Y	-.005	3
35	M78	Y	-.005	5
36	M78	Y	-.005	3

Member Point Loads (BLC 42 : Earthquake (z-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA3	Z	-.002	5
2	MP ALPHA3	Z	-.002	3
3	MP BETA3	Z	-.002	5
4	MP BETA3	Z	-.002	3
5	MP GAMMA3	Z	-.002	5
6	MP GAMMA3	Z	-.002	3
7	MP ALPHA1	Z	-.00086	5.5
8	MP ALPHA1	Z	-.00086	2.5
9	MP BETA1	Z	-.00086	5.5
10	MP BETA1	Z	-.00086	2.5
11	MP GAMMA1	Z	-.00086	5.5
12	MP GAMMA1	Z	-.00086	2.5
13	MP ALPHA2	Z	-.003	7
14	MP ALPHA2	Z	-.003	1
15	MP BETA2	Z	-.003	7
16	MP BETA2	Z	-.003	1
17	MP GAMMA2	Z	-.003	7
18	MP GAMMA2	Z	-.003	1
19	MP ALPHA2	Z	-7.6e-5	4
20	MP BETA2	Z	-7.6e-5	4
21	MP GAMMA2	Z	-7.6e-5	4
22	MP ALPHA2	Z	-.002	4
23	MP BETA2	Z	-.002	4
24	MP GAMMA2	Z	-.002	4
25	MP ALPHA1	Z	-.004	4
26	MP BETA1	Z	-.004	4
27	MP GAMMA1	Z	-.004	4
28	MP ALPHA2	Z	-.003	4
29	MP BETA2	Z	-.003	4
30	MP GAMMA2	Z	-.003	4
31	M76	Z	-.002	5
32	M76	Z	-.002	3
33	M77	Z	-.002	5
34	M77	Z	-.002	3
35	M78	Z	-.002	5
36	M78	Z	-.002	3

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N157	N89	N132	N133	Z	Two Way	-.01
2	N152	N150	N134B	N133	Z	Two Way	-.01
3	N134B	N156	N118A	N135A	Z	Two Way	-.01
4	N148	N135A	N133B	N146	Z	Two Way	-.01
5	N133B	N117A	N90	N134A	Z	Two Way	-.01
6	N156A	N154	N132	N134A	Z	Two Way	-.01
7	N157	N89	N132	N133	Z	Two Way	-.01
8	N152	N150	N134B	N133	Z	Two Way	-.01

Member Area Loads (BLC 27 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N157	N89	N132	N133	Z	Two Way	-.015
2	N152	N150	N134B	N133	Z	Two Way	-.015
3	N134B	N156	N118A	N135A	Z	Two Way	-.015
4	N148	N135A	N133B	N146	Z	Two Way	-.015
5	N133B	N117A	N90	N134A	Z	Two Way	-.015

Member Area Loads (BLC 27 : Ice Dead Load) (Continued)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
6	N156A	N154	N132	N134A	Z	Two Way	-.015
7	N157	N89	N132	N133	Z	Two Way	-.015
8	N152	N150	N134B	N133	Z	Two Way	-.015

Member Distributed Loads (BLC 2 : Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.013	-.013	0	0
2	CONNANGLE2	PY	-.013	-.013	0	0
3	CONNANGLE3	PY	-.013	-.013	0	0
4	CORNER1	PY	-.021	-.021	0	0
5	CORNER2	PY	-.021	-.021	0	0
6	CORNER3	PY	-.021	-.021	0	0
7	FACE1,1	PY	-.021	-.021	0	0
8	FACE1,2	PY	-.021	-.021	0	0
9	FACE2,1	PY	-.021	-.021	0	0
10	FACE2,2	PY	-.021	-.021	0	0
11	FACE3,1	PY	-.021	-.021	0	0
12	FACE3,2	PY	-.021	-.021	0	0
13	LADDER1	PY	-.007	-.007	0	0
14	LADDER2	PY	-.007	-.007	0	0
15	LADDERPLATE1	PY	-.017	-.017	0	0
16	LADDERPLATE2	PY	-.017	-.017	0	0
17	MP ALPHA1	PY	-.009	-.009	0	0
18	MP ALPHA2	PY	-.009	-.009	0	0
19	MP ALPHA3	PY	-.009	-.009	0	0
20	MP BETA1	PY	-.009	-.009	0	0
21	MP BETA2	PY	-.009	-.009	0	0
22	MP BETA3	PY	-.009	-.009	0	0
23	MP GAMMA1	PY	-.009	-.009	0	0
24	MP GAMMA2	PY	-.009	-.009	0	0
25	MP GAMMA3	PY	-.009	-.009	0	0
26	RUNG1	PY	-.002	-.002	0	0
27	RUNG2	PY	-.002	-.002	0	0
28	RUNG3	PY	-.002	-.002	0	0
29	RUNG4	PY	-.002	-.002	0	0
30	RUNG5	PY	-.002	-.002	0	0
31	RUNG6	PY	-.002	-.002	0	0
32	RUNG7	PY	-.002	-.002	0	0
33	SO1	PY	-.007	-.007	0	0
34	SO2	PY	-.007	-.007	0	0
35	SO3	PY	-.007	-.007	0	0
36	SUPPORT1	PY	-.021	-.021	0	0
37	SUPPORT2	PY	-.021	-.021	0	0
38	M76	PY	-.009	-.009	0	0
39	M77	PY	-.009	-.009	0	0
40	M78	PY	-.009	-.009	0	0

Member Distributed Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.011	-.011	0	0
2	CONNANGLE2	PY	-.011	-.011	0	0
3	CONNANGLE3	PY	-.011	-.011	0	0
4	CORNER1	PY	-.018	-.018	0	0
5	CORNER2	PY	-.018	-.018	0	0
6	CORNER3	PY	-.018	-.018	0	0

Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	FACE1,1	PY	-.018	-.018	0	0
8	FACE1,2	PY	-.018	-.018	0	0
9	FACE2,1	PY	-.018	-.018	0	0
10	FACE2,2	PY	-.018	-.018	0	0
11	FACE3,1	PY	-.018	-.018	0	0
12	FACE3,2	PY	-.018	-.018	0	0
13	LADDER1	PY	-.006	-.006	0	0
14	LADDER2	PY	-.006	-.006	0	0
15	LADDERPLATE1	PY	-.014	-.014	0	0
16	LADDERPLATE2	PY	-.014	-.014	0	0
17	MP ALPHA1	PY	-.008	-.008	0	0
18	MP ALPHA2	PY	-.008	-.008	0	0
19	MP ALPHA3	PY	-.008	-.008	0	0
20	MP BETA1	PY	-.008	-.008	0	0
21	MP BETA2	PY	-.008	-.008	0	0
22	MP BETA3	PY	-.008	-.008	0	0
23	MP GAMMA1	PY	-.008	-.008	0	0
24	MP GAMMA2	PY	-.008	-.008	0	0
25	MP GAMMA3	PY	-.008	-.008	0	0
26	RUNG1	PY	-.001	-.001	0	0
27	RUNG2	PY	-.001	-.001	0	0
28	RUNG3	PY	-.001	-.001	0	0
29	RUNG4	PY	-.001	-.001	0	0
30	RUNG5	PY	-.001	-.001	0	0
31	RUNG6	PY	-.001	-.001	0	0
32	RUNG7	PY	-.001	-.001	0	0
33	SO1	PY	-.006	-.006	0	0
34	SO2	PY	-.006	-.006	0	0
35	SO3	PY	-.006	-.006	0	0
36	SUPPORT1	PY	-.018	-.018	0	0
37	SUPPORT2	PY	-.018	-.018	0	0
38	CONNANGLE1	PX	-.006	-.006	0	0
39	CONNANGLE2	PX	-.006	-.006	0	0
40	CONNANGLE3	PX	-.006	-.006	0	0
41	CORNER1	PX	-.01	-.01	0	0
42	CORNER2	PX	-.01	-.01	0	0
43	CORNER3	PX	-.01	-.01	0	0
44	FACE1,1	PX	-.01	-.01	0	0
45	FACE1,2	PX	-.01	-.01	0	0
46	FACE2,1	PX	-.01	-.01	0	0
47	FACE2,2	PX	-.01	-.01	0	0
48	FACE3,1	PX	-.01	-.01	0	0
49	FACE3,2	PX	-.01	-.01	0	0
50	LADDER1	PX	-.004	-.004	0	0
51	LADDER2	PX	-.004	-.004	0	0
52	LADDERPLATE1	PX	-.008	-.008	0	0
53	LADDERPLATE2	PX	-.008	-.008	0	0
54	MP ALPHA1	PX	-.004	-.004	0	0
55	MP ALPHA2	PX	-.004	-.004	0	0
56	MP ALPHA3	PX	-.004	-.004	0	0
57	MP BETA1	PX	-.004	-.004	0	0
58	MP BETA2	PX	-.004	-.004	0	0
59	MP BETA3	PX	-.004	-.004	0	0
60	MP GAMMA1	PX	-.004	-.004	0	0
61	MP GAMMA2	PX	-.004	-.004	0	0
62	MP GAMMA3	PX	-.004	-.004	0	0
63	RUNG1	PX	-.000782	-.000782	0	0

Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
64	RUNG2	PX	-.000782	-.000782	0	0
65	RUNG3	PX	-.000782	-.000782	0	0
66	RUNG4	PX	-.000782	-.000782	0	0
67	RUNG5	PX	-.000782	-.000782	0	0
68	RUNG6	PX	-.000782	-.000782	0	0
69	RUNG7	PX	-.000782	-.000782	0	0
70	SO1	PX	-.003	-.003	0	0
71	SO2	PX	-.003	-.003	0	0
72	SO3	PX	-.003	-.003	0	0
73	SUPPORT1	PX	-.01	-.01	0	0
74	SUPPORT2	PX	-.01	-.01	0	0
75	M76	PY	-.008	-.008	0	0
76	M76	PX	-.004	-.004	0	0
77	M77	PY	-.008	-.008	0	0
78	M77	PX	-.004	-.004	0	0
79	M78	PY	-.008	-.008	0	0
80	M78	PX	-.004	-.004	0	0

Member Distributed Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.006	-.006	0	0
2	CONNANGLE2	PY	-.006	-.006	0	0
3	CONNANGLE3	PY	-.006	-.006	0	0
4	CORNER1	PY	-.01	-.01	0	0
5	CORNER2	PY	-.01	-.01	0	0
6	CORNER3	PY	-.01	-.01	0	0
7	FACE1,1	PY	-.01	-.01	0	0
8	FACE1,2	PY	-.01	-.01	0	0
9	FACE2,1	PY	-.01	-.01	0	0
10	FACE2,2	PY	-.01	-.01	0	0
11	FACE3,1	PY	-.01	-.01	0	0
12	FACE3,2	PY	-.01	-.01	0	0
13	LADDER1	PY	-.004	-.004	0	0
14	LADDER2	PY	-.004	-.004	0	0
15	LADDERPLATE1	PY	-.008	-.008	0	0
16	LADDERPLATE2	PY	-.008	-.008	0	0
17	MP ALPHA1	PY	-.004	-.004	0	0
18	MP ALPHA2	PY	-.004	-.004	0	0
19	MP ALPHA3	PY	-.004	-.004	0	0
20	MP BETA1	PY	-.004	-.004	0	0
21	MP BETA2	PY	-.004	-.004	0	0
22	MP BETA3	PY	-.004	-.004	0	0
23	MP GAMMA1	PY	-.004	-.004	0	0
24	MP GAMMA2	PY	-.004	-.004	0	0
25	MP GAMMA3	PY	-.004	-.004	0	0
26	RUNG1	PY	-.000782	-.000782	0	0
27	RUNG2	PY	-.000782	-.000782	0	0
28	RUNG3	PY	-.000782	-.000782	0	0
29	RUNG4	PY	-.000782	-.000782	0	0
30	RUNG5	PY	-.000782	-.000782	0	0
31	RUNG6	PY	-.000782	-.000782	0	0
32	RUNG7	PY	-.000782	-.000782	0	0
33	SO1	PY	-.003	-.003	0	0
34	SO2	PY	-.003	-.003	0	0
35	SO3	PY	-.003	-.003	0	0
36	SUPPORT1	PY	-.01	-.01	0	0

Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	SUPPORT2	PY	-.01	-.01	0	0
38	CONNANGLE1	PX	-.011	-.011	0	0
39	CONNANGLE2	PX	-.011	-.011	0	0
40	CONNANGLE3	PX	-.011	-.011	0	0
41	CORNER1	PX	-.018	-.018	0	0
42	CORNER2	PX	-.018	-.018	0	0
43	CORNER3	PX	-.018	-.018	0	0
44	FACE1,1	PX	-.018	-.018	0	0
45	FACE1,2	PX	-.018	-.018	0	0
46	FACE2,1	PX	-.018	-.018	0	0
47	FACE2,2	PX	-.018	-.018	0	0
48	FACE3,1	PX	-.018	-.018	0	0
49	FACE3,2	PX	-.018	-.018	0	0
50	LADDER1	PX	-.006	-.006	0	0
51	LADDER2	PX	-.006	-.006	0	0
52	LADDERPLATE1	PX	-.014	-.014	0	0
53	LADDERPLATE2	PX	-.014	-.014	0	0
54	MP ALPHA1	PX	-.008	-.008	0	0
55	MP ALPHA2	PX	-.008	-.008	0	0
56	MP ALPHA3	PX	-.008	-.008	0	0
57	MP BETA1	PX	-.008	-.008	0	0
58	MP BETA2	PX	-.008	-.008	0	0
59	MP BETA3	PX	-.008	-.008	0	0
60	MP GAMMA1	PX	-.008	-.008	0	0
61	MP GAMMA2	PX	-.008	-.008	0	0
62	MP GAMMA3	PX	-.008	-.008	0	0
63	RUNG1	PX	-.001	-.001	0	0
64	RUNG2	PX	-.001	-.001	0	0
65	RUNG3	PX	-.001	-.001	0	0
66	RUNG4	PX	-.001	-.001	0	0
67	RUNG5	PX	-.001	-.001	0	0
68	RUNG6	PX	-.001	-.001	0	0
69	RUNG7	PX	-.001	-.001	0	0
70	SO1	PX	-.006	-.006	0	0
71	SO2	PX	-.006	-.006	0	0
72	SO3	PX	-.006	-.006	0	0
73	SUPPORT1	PX	-.018	-.018	0	0
74	SUPPORT2	PX	-.018	-.018	0	0
75	M76	PY	-.004	-.004	0	0
76	M76	PX	-.008	-.008	0	0
77	M77	PY	-.004	-.004	0	0
78	M77	PX	-.008	-.008	0	0
79	M78	PY	-.004	-.004	0	0
80	M78	PX	-.008	-.008	0	0

Member Distributed Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PX	-.013	-.013	0	0
2	CONNANGLE2	PX	-.013	-.013	0	0
3	CONNANGLE3	PX	-.013	-.013	0	0
4	CORNER1	PX	-.021	-.021	0	0
5	CORNER2	PX	-.021	-.021	0	0
6	CORNER3	PX	-.021	-.021	0	0
7	FACE2,1	PX	-.021	-.021	0	0
8	FACE2,2	PX	-.021	-.021	0	0
9	FACE1,1	PX	-.021	-.021	0	0

Member Distributed Loads (BLC 6 : Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
10	FACE1,2	PX	-.021	-.021	0	0
11	FACE3,1	PX	-.021	-.021	0	0
12	FACE3,2	PX	-.021	-.021	0	0
13	LADDER1	PX	-.007	-.007	0	0
14	LADDER2	PX	-.007	-.007	0	0
15	LADDERPLATE1	PX	-.017	-.017	0	0
16	LADDERPLATE2	PX	-.017	-.017	0	0
17	MP ALPHA1	PX	-.009	-.009	0	0
18	MP ALPHA2	PX	-.009	-.009	0	0
19	MP ALPHA3	PX	-.009	-.009	0	0
20	MP BETA1	PX	-.009	-.009	0	0
21	MP BETA2	PX	-.009	-.009	0	0
22	MP BETA3	PX	-.009	-.009	0	0
23	MP GAMMA1	PX	-.009	-.009	0	0
24	MP GAMMA2	PX	-.009	-.009	0	0
25	MP GAMMA3	PX	-.009	-.009	0	0
26	RUNG1	PX	-.002	-.002	0	0
27	RUNG2	PX	-.002	-.002	0	0
28	RUNG3	PX	-.002	-.002	0	0
29	RUNG4	PX	-.002	-.002	0	0
30	RUNG5	PX	-.002	-.002	0	0
31	RUNG6	PX	-.002	-.002	0	0
32	RUNG7	PX	-.002	-.002	0	0
33	SO1	PX	-.007	-.007	0	0
34	SO2	PX	-.007	-.007	0	0
35	SO3	PX	-.007	-.007	0	0
36	SUPPORT1	PX	-.021	-.021	0	0
37	SUPPORT2	PX	-.021	-.021	0	0
38	M76	PX	-.009	-.009	0	0
39	M77	PX	-.009	-.009	0	0
40	M78	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.006	.006	0	0
2	CONNANGLE2	PY	.006	.006	0	0
3	CONNANGLE3	PY	.006	.006	0	0
4	CORNER1	PY	.01	.01	0	0
5	CORNER2	PY	.01	.01	0	0
6	CORNER3	PY	.01	.01	0	0
7	FACE2,1	PY	.01	.01	0	0
8	FACE2,2	PY	.01	.01	0	0
9	FACE1,1	PY	.01	.01	0	0
10	FACE1,2	PY	.01	.01	0	0
11	FACE3,1	PY	.01	.01	0	0
12	FACE3,2	PY	.01	.01	0	0
13	LADDER1	PY	.004	.004	0	0
14	LADDER2	PY	.004	.004	0	0
15	LADDERPLATE1	PY	.008	.008	0	0
16	LADDERPLATE2	PY	.008	.008	0	0
17	MP ALPHA1	PY	.004	.004	0	0
18	MP ALPHA2	PY	.004	.004	0	0
19	MP ALPHA3	PY	.004	.004	0	0
20	MP BETA1	PY	.004	.004	0	0
21	MP BETA2	PY	.004	.004	0	0
22	MP BETA3	PY	.004	.004	0	0

Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	MP GAMMA1	PY	.004	.004	0	0
24	MP GAMMA2	PY	.004	.004	0	0
25	MP GAMMA3	PY	.004	.004	0	0
26	RUNG1	PY	.000782	.000782	0	0
27	RUNG2	PY	.000782	.000782	0	0
28	RUNG3	PY	.000782	.000782	0	0
29	RUNG4	PY	.000782	.000782	0	0
30	RUNG5	PY	.000782	.000782	0	0
31	RUNG6	PY	.000782	.000782	0	0
32	RUNG7	PY	.000782	.000782	0	0
33	SO1	PY	.003	.003	0	0
34	SO2	PY	.003	.003	0	0
35	SO3	PY	.003	.003	0	0
36	SUPPORT1	PY	.01	.01	0	0
37	SUPPORT2	PY	.01	.01	0	0
38	CONNANGLE1	PX	-.011	-.011	0	0
39	CONNANGLE2	PX	-.011	-.011	0	0
40	CONNANGLE3	PX	-.011	-.011	0	0
41	CORNER1	PX	-.018	-.018	0	0
42	CORNER2	PX	-.018	-.018	0	0
43	CORNER3	PX	-.018	-.018	0	0
44	FACE2,1	PX	-.018	-.018	0	0
45	FACE2,2	PX	-.018	-.018	0	0
46	FACE1,1	PX	-.018	-.018	0	0
47	FACE1,2	PX	-.018	-.018	0	0
48	FACE3,1	PX	-.018	-.018	0	0
49	FACE3,2	PX	-.018	-.018	0	0
50	LADDER1	PX	-.006	-.006	0	0
51	LADDER2	PX	-.006	-.006	0	0
52	LADDERPLATE1	PX	-.014	-.014	0	0
53	LADDERPLATE2	PX	-.014	-.014	0	0
54	MP ALPHA1	PX	-.008	-.008	0	0
55	MP ALPHA2	PX	-.008	-.008	0	0
56	MP ALPHA3	PX	-.008	-.008	0	0
57	MP BETA1	PX	-.008	-.008	0	0
58	MP BETA2	PX	-.008	-.008	0	0
59	MP BETA3	PX	-.008	-.008	0	0
60	MP GAMMA1	PX	-.008	-.008	0	0
61	MP GAMMA2	PX	-.008	-.008	0	0
62	MP GAMMA3	PX	-.008	-.008	0	0
63	RUNG1	PX	-.001	-.001	0	0
64	RUNG2	PX	-.001	-.001	0	0
65	RUNG3	PX	-.001	-.001	0	0
66	RUNG4	PX	-.001	-.001	0	0
67	RUNG5	PX	-.001	-.001	0	0
68	RUNG6	PX	-.001	-.001	0	0
69	RUNG7	PX	-.001	-.001	0	0
70	SO1	PX	-.006	-.006	0	0
71	SO2	PX	-.006	-.006	0	0
72	SO3	PX	-.006	-.006	0	0
73	SUPPORT1	PX	-.018	-.018	0	0
74	SUPPORT2	PX	-.018	-.018	0	0
75	M76	PY	.004	.004	0	0
76	M76	PX	-.008	-.008	0	0
77	M77	PY	.004	.004	0	0
78	M77	PX	-.008	-.008	0	0
79	M78	PY	.004	.004	0	0

Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
80	M78	PX	-.008	-.008	0	0

Member Distributed Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.011	.011	0	0
2	CONNANGLE2	PY	.011	.011	0	0
3	CONNANGLE3	PY	.011	.011	0	0
4	CORNER1	PY	.018	.018	0	0
5	CORNER2	PY	.018	.018	0	0
6	CORNER3	PY	.018	.018	0	0
7	FACE2,1	PY	.018	.018	0	0
8	FACE2,2	PY	.018	.018	0	0
9	FACE1,1	PY	.018	.018	0	0
10	FACE1,2	PY	.018	.018	0	0
11	FACE3,1	PY	.018	.018	0	0
12	FACE3,2	PY	.018	.018	0	0
13	LADDER1	PY	.006	.006	0	0
14	LADDER2	PY	.006	.006	0	0
15	LADDERPLATE1	PY	.014	.014	0	0
16	LADDERPLATE2	PY	.014	.014	0	0
17	MP ALPHA1	PY	.008	.008	0	0
18	MP ALPHA2	PY	.008	.008	0	0
19	MP ALPHA3	PY	.008	.008	0	0
20	MP BETA1	PY	.008	.008	0	0
21	MP BETA2	PY	.008	.008	0	0
22	MP BETA3	PY	.008	.008	0	0
23	MP GAMMA1	PY	.008	.008	0	0
24	MP GAMMA2	PY	.008	.008	0	0
25	MP GAMMA3	PY	.008	.008	0	0
26	RUNG1	PY	.001	.001	0	0
27	RUNG2	PY	.001	.001	0	0
28	RUNG3	PY	.001	.001	0	0
29	RUNG4	PY	.001	.001	0	0
30	RUNG5	PY	.001	.001	0	0
31	RUNG6	PY	.001	.001	0	0
32	RUNG7	PY	.001	.001	0	0
33	SO1	PY	.006	.006	0	0
34	SO2	PY	.006	.006	0	0
35	SO3	PY	.006	.006	0	0
36	SUPPORT1	PY	.018	.018	0	0
37	SUPPORT2	PY	.018	.018	0	0
38	CONNANGLE1	PX	-.006	-.006	0	0
39	CONNANGLE2	PX	-.006	-.006	0	0
40	CONNANGLE3	PX	-.006	-.006	0	0
41	CORNER1	PX	-.01	-.01	0	0
42	CORNER2	PX	-.01	-.01	0	0
43	CORNER3	PX	-.01	-.01	0	0
44	FACE2,1	PX	-.01	-.01	0	0
45	FACE2,2	PX	-.01	-.01	0	0
46	FACE1,1	PX	-.01	-.01	0	0
47	FACE1,2	PX	-.01	-.01	0	0
48	FACE3,1	PX	-.01	-.01	0	0
49	FACE3,2	PX	-.01	-.01	0	0
50	LADDER1	PX	-.004	-.004	0	0
51	LADDER2	PX	-.004	-.004	0	0
52	LADDERPLATE1	PX	-.008	-.008	0	0

Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	LADDERPLATE2	PX	-.008	-.008	0	0
54	MP ALPHA1	PX	-.004	-.004	0	0
55	MP ALPHA2	PX	-.004	-.004	0	0
56	MP ALPHA3	PX	-.004	-.004	0	0
57	MP BETA1	PX	-.004	-.004	0	0
58	MP BETA2	PX	-.004	-.004	0	0
59	MP BETA3	PX	-.004	-.004	0	0
60	MP GAMMA1	PX	-.004	-.004	0	0
61	MP GAMMA2	PX	-.004	-.004	0	0
62	MP GAMMA3	PX	-.004	-.004	0	0
63	RUNG1	PX	-.000782	-.000782	0	0
64	RUNG2	PX	-.000782	-.000782	0	0
65	RUNG3	PX	-.000782	-.000782	0	0
66	RUNG4	PX	-.000782	-.000782	0	0
67	RUNG5	PX	-.000782	-.000782	0	0
68	RUNG6	PX	-.000782	-.000782	0	0
69	RUNG7	PX	-.000782	-.000782	0	0
70	SO1	PX	-.003	-.003	0	0
71	SO2	PX	-.003	-.003	0	0
72	SO3	PX	-.003	-.003	0	0
73	SUPPORT1	PX	-.01	-.01	0	0
74	SUPPORT2	PX	-.01	-.01	0	0
75	M76	PY	.008	.008	0	0
76	M76	PX	-.004	-.004	0	0
77	M77	PY	.008	.008	0	0
78	M77	PX	-.004	-.004	0	0
79	M78	PY	.008	.008	0	0
80	M78	PX	-.004	-.004	0	0

Member Distributed Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.013	.013	0	0
2	CONNANGLE2	PY	.013	.013	0	0
3	CONNANGLE3	PY	.013	.013	0	0
4	CORNER1	PY	.021	.021	0	0
5	CORNER2	PY	.021	.021	0	0
6	CORNER3	PY	.021	.021	0	0
7	FACE2,1	PY	.021	.021	0	0
8	FACE2,2	PY	.021	.021	0	0
9	FACE1,1	PY	.021	.021	0	0
10	FACE1,2	PY	.021	.021	0	0
11	FACE3,1	PY	.021	.021	0	0
12	FACE3,2	PY	.021	.021	0	0
13	LADDER1	PY	.007	.007	0	0
14	LADDER2	PY	.007	.007	0	0
15	LADDERPLATE1	PY	.017	.017	0	0
16	LADDERPLATE2	PY	.017	.017	0	0
17	MP ALPHA1	PY	.009	.009	0	0
18	MP ALPHA2	PY	.009	.009	0	0
19	MP ALPHA3	PY	.009	.009	0	0
20	MP BETA1	PY	.009	.009	0	0
21	MP BETA2	PY	.009	.009	0	0
22	MP BETA3	PY	.009	.009	0	0
23	MP GAMMA1	PY	.009	.009	0	0
24	MP GAMMA2	PY	.009	.009	0	0
25	MP GAMMA3	PY	.009	.009	0	0

Member Distributed Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
26	RUNG1	PY	.002	.002	0	0
27	RUNG2	PY	.002	.002	0	0
28	RUNG3	PY	.002	.002	0	0
29	RUNG4	PY	.002	.002	0	0
30	RUNG5	PY	.002	.002	0	0
31	RUNG6	PY	.002	.002	0	0
32	RUNG7	PY	.002	.002	0	0
33	SO1	PY	.007	.007	0	0
34	SO2	PY	.007	.007	0	0
35	SO3	PY	.007	.007	0	0
36	SUPPORT1	PY	.021	.021	0	0
37	SUPPORT2	PY	.021	.021	0	0
38	M76	PY	.009	.009	0	0
39	M77	PY	.009	.009	0	0
40	M78	PY	.009	.009	0	0

Member Distributed Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.011	.011	0	0
2	CONNANGLE2	PY	.011	.011	0	0
3	CONNANGLE3	PY	.011	.011	0	0
4	CORNER1	PY	.018	.018	0	0
5	CORNER2	PY	.018	.018	0	0
6	CORNER3	PY	.018	.018	0	0
7	FACE3,1	PY	.018	.018	0	0
8	FACE3,2	PY	.018	.018	0	0
9	FACE2,1	PY	.018	.018	0	0
10	FACE2,2	PY	.018	.018	0	0
11	FACE1,1	PY	.018	.018	0	0
12	FACE1,2	PY	.018	.018	0	0
13	LADDER1	PY	.006	.006	0	0
14	LADDER2	PY	.006	.006	0	0
15	LADDERPLATE1	PY	.014	.014	0	0
16	LADDERPLATE2	PY	.014	.014	0	0
17	MP ALPHA1	PY	.008	.008	0	0
18	MP ALPHA2	PY	.008	.008	0	0
19	MP ALPHA3	PY	.008	.008	0	0
20	MP BETA1	PY	.008	.008	0	0
21	MP BETA2	PY	.008	.008	0	0
22	MP BETA3	PY	.008	.008	0	0
23	MP GAMMA1	PY	.008	.008	0	0
24	MP GAMMA2	PY	.008	.008	0	0
25	MP GAMMA3	PY	.008	.008	0	0
26	RUNG1	PY	.001	.001	0	0
27	RUNG2	PY	.001	.001	0	0
28	RUNG3	PY	.001	.001	0	0
29	RUNG4	PY	.001	.001	0	0
30	RUNG5	PY	.001	.001	0	0
31	RUNG6	PY	.001	.001	0	0
32	RUNG7	PY	.001	.001	0	0
33	SO1	PY	.006	.006	0	0
34	SO2	PY	.006	.006	0	0
35	SO3	PY	.006	.006	0	0
36	SUPPORT1	PY	.018	.018	0	0
37	SUPPORT2	PY	.018	.018	0	0
38	CONNANGLE1	PX	.006	.006	0	0

Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
39	CONNANGLE2	PX	.006	.006	0	0
40	CONNANGLE3	PX	.006	.006	0	0
41	CORNER1	PX	.01	.01	0	0
42	CORNER2	PX	.01	.01	0	0
43	CORNER3	PX	.01	.01	0	0
44	FACE3,1	PX	.01	.01	0	0
45	FACE3,2	PX	.01	.01	0	0
46	FACE2,1	PX	.01	.01	0	0
47	FACE2,2	PX	.01	.01	0	0
48	FACE1,1	PX	.01	.01	0	0
49	FACE1,2	PX	.01	.01	0	0
50	LADDER1	PX	.004	.004	0	0
51	LADDER2	PX	.004	.004	0	0
52	LADDERPLATE1	PX	.008	.008	0	0
53	LADDERPLATE2	PX	.008	.008	0	0
54	MP ALPHA1	PX	.004	.004	0	0
55	MP ALPHA2	PX	.004	.004	0	0
56	MP ALPHA3	PX	.004	.004	0	0
57	MP BETA1	PX	.004	.004	0	0
58	MP BETA2	PX	.004	.004	0	0
59	MP BETA3	PX	.004	.004	0	0
60	MP GAMMA1	PX	.004	.004	0	0
61	MP GAMMA2	PX	.004	.004	0	0
62	MP GAMMA3	PX	.004	.004	0	0
63	RUNG1	PX	.000782	.000782	0	0
64	RUNG2	PX	.000782	.000782	0	0
65	RUNG3	PX	.000782	.000782	0	0
66	RUNG4	PX	.000782	.000782	0	0
67	RUNG5	PX	.000782	.000782	0	0
68	RUNG6	PX	.000782	.000782	0	0
69	RUNG7	PX	.000782	.000782	0	0
70	SO1	PX	.003	.003	0	0
71	SO2	PX	.003	.003	0	0
72	SO3	PX	.003	.003	0	0
73	SUPPORT1	PX	.01	.01	0	0
74	SUPPORT2	PX	.01	.01	0	0
75	M76	PY	.008	.008	0	0
76	M76	PX	.004	.004	0	0
77	M77	PY	.008	.008	0	0
78	M77	PX	.004	.004	0	0
79	M78	PY	.008	.008	0	0
80	M78	PX	.004	.004	0	0

Member Distributed Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.006	.006	0	0
2	CONNANGLE2	PY	.006	.006	0	0
3	CONNANGLE3	PY	.006	.006	0	0
4	CORNER1	PY	.01	.01	0	0
5	CORNER2	PY	.01	.01	0	0
6	CORNER3	PY	.01	.01	0	0
7	FACE3,1	PY	.01	.01	0	0
8	FACE3,2	PY	.01	.01	0	0
9	FACE2,1	PY	.01	.01	0	0
10	FACE2,2	PY	.01	.01	0	0
11	FACE1,1	PY	.01	.01	0	0

Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	FACE1,2	PY	.01	.01	0	0
13	LADDER1	PY	.004	.004	0	0
14	LADDER2	PY	.004	.004	0	0
15	LADDERPLATE1	PY	.008	.008	0	0
16	LADDERPLATE2	PY	.008	.008	0	0
17	MP ALPHA1	PY	.004	.004	0	0
18	MP ALPHA2	PY	.004	.004	0	0
19	MP ALPHA3	PY	.004	.004	0	0
20	MP BETA1	PY	.004	.004	0	0
21	MP BETA2	PY	.004	.004	0	0
22	MP BETA3	PY	.004	.004	0	0
23	MP GAMMA1	PY	.004	.004	0	0
24	MP GAMMA2	PY	.004	.004	0	0
25	MP GAMMA3	PY	.004	.004	0	0
26	RUNG1	PY	.000782	.000782	0	0
27	RUNG2	PY	.000782	.000782	0	0
28	RUNG3	PY	.000782	.000782	0	0
29	RUNG4	PY	.000782	.000782	0	0
30	RUNG5	PY	.000782	.000782	0	0
31	RUNG6	PY	.000782	.000782	0	0
32	RUNG7	PY	.000782	.000782	0	0
33	SO1	PY	.003	.003	0	0
34	SO2	PY	.003	.003	0	0
35	SO3	PY	.003	.003	0	0
36	SUPPORT1	PY	.01	.01	0	0
37	SUPPORT2	PY	.01	.01	0	0
38	CONNANGLE1	PX	.011	.011	0	0
39	CONNANGLE2	PX	.011	.011	0	0
40	CONNANGLE3	PX	.011	.011	0	0
41	CORNER1	PX	.018	.018	0	0
42	CORNER2	PX	.018	.018	0	0
43	CORNER3	PX	.018	.018	0	0
44	FACE3,1	PX	.018	.018	0	0
45	FACE3,2	PX	.018	.018	0	0
46	FACE2,1	PX	.018	.018	0	0
47	FACE2,2	PX	.018	.018	0	0
48	FACE1,1	PX	.018	.018	0	0
49	FACE1,2	PX	.018	.018	0	0
50	LADDER1	PX	.006	.006	0	0
51	LADDER2	PX	.006	.006	0	0
52	LADDERPLATE1	PX	.014	.014	0	0
53	LADDERPLATE2	PX	.014	.014	0	0
54	MP ALPHA1	PX	.008	.008	0	0
55	MP ALPHA2	PX	.008	.008	0	0
56	MP ALPHA3	PX	.008	.008	0	0
57	MP BETA1	PX	.008	.008	0	0
58	MP BETA2	PX	.008	.008	0	0
59	MP BETA3	PX	.008	.008	0	0
60	MP GAMMA1	PX	.008	.008	0	0
61	MP GAMMA2	PX	.008	.008	0	0
62	MP GAMMA3	PX	.008	.008	0	0
63	RUNG1	PX	.001	.001	0	0
64	RUNG2	PX	.001	.001	0	0
65	RUNG3	PX	.001	.001	0	0
66	RUNG4	PX	.001	.001	0	0
67	RUNG5	PX	.001	.001	0	0
68	RUNG6	PX	.001	.001	0	0

Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	RUNG7	PX	.001	.001	0	0
70	SO1	PX	.006	.006	0	0
71	SO2	PX	.006	.006	0	0
72	SO3	PX	.006	.006	0	0
73	SUPPORT1	PX	.018	.018	0	0
74	SUPPORT2	PX	.018	.018	0	0
75	M76	PY	.004	.004	0	0
76	M76	PX	.008	.008	0	0
77	M77	PY	.004	.004	0	0
78	M77	PX	.008	.008	0	0
79	M78	PY	.004	.004	0	0
80	M78	PX	.008	.008	0	0

Member Distributed Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PX	.013	.013	0	0
2	CONNANGLE2	PX	.013	.013	0	0
3	CONNANGLE3	PX	.013	.013	0	0
4	CORNER1	PX	.021	.021	0	0
5	CORNER2	PX	.021	.021	0	0
6	CORNER3	PX	.021	.021	0	0
7	FACE3,1	PX	.021	.021	0	0
8	FACE3,2	PX	.021	.021	0	0
9	FACE2,1	PX	.021	.021	0	0
10	FACE2,2	PX	.021	.021	0	0
11	FACE1,1	PX	.021	.021	0	0
12	FACE1,2	PX	.021	.021	0	0
13	LADDER1	PX	.007	.007	0	0
14	LADDER2	PX	.007	.007	0	0
15	LADDERPLATE1	PX	.017	.017	0	0
16	LADDERPLATE2	PX	.017	.017	0	0
17	MP ALPHA1	PX	.009	.009	0	0
18	MP ALPHA2	PX	.009	.009	0	0
19	MP ALPHA3	PX	.009	.009	0	0
20	MP BETA1	PX	.009	.009	0	0
21	MP BETA2	PX	.009	.009	0	0
22	MP BETA3	PX	.009	.009	0	0
23	MP GAMMA1	PX	.009	.009	0	0
24	MP GAMMA2	PX	.009	.009	0	0
25	MP GAMMA3	PX	.009	.009	0	0
26	RUNG1	PX	.002	.002	0	0
27	RUNG2	PX	.002	.002	0	0
28	RUNG3	PX	.002	.002	0	0
29	RUNG4	PX	.002	.002	0	0
30	RUNG5	PX	.002	.002	0	0
31	RUNG6	PX	.002	.002	0	0
32	RUNG7	PX	.002	.002	0	0
33	SO1	PX	.007	.007	0	0
34	SO2	PX	.007	.007	0	0
35	SO3	PX	.007	.007	0	0
36	SUPPORT1	PX	.021	.021	0	0
37	SUPPORT2	PX	.021	.021	0	0
38	M76	PX	.009	.009	0	0
39	M77	PX	.009	.009	0	0
40	M78	PX	.009	.009	0	0

Member Distributed Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.006	-.006	0	0
2	CONNANGLE2	PY	-.006	-.006	0	0
3	CONNANGLE3	PY	-.006	-.006	0	0
4	CORNER1	PY	-.01	-.01	0	0
5	CORNER2	PY	-.01	-.01	0	0
6	CORNER3	PY	-.01	-.01	0	0
7	FACE3,1	PY	-.01	-.01	0	0
8	FACE3,2	PY	-.01	-.01	0	0
9	FACE2,1	PY	-.01	-.01	0	0
10	FACE2,2	PY	-.01	-.01	0	0
11	FACE1,1	PY	-.01	-.01	0	0
12	FACE1,2	PY	-.01	-.01	0	0
13	LADDER1	PY	-.004	-.004	0	0
14	LADDER2	PY	-.004	-.004	0	0
15	LADDERPLATE1	PY	-.008	-.008	0	0
16	LADDERPLATE2	PY	-.008	-.008	0	0
17	MP ALPHA1	PY	-.004	-.004	0	0
18	MP ALPHA2	PY	-.004	-.004	0	0
19	MP ALPHA3	PY	-.004	-.004	0	0
20	MP BETA1	PY	-.004	-.004	0	0
21	MP BETA2	PY	-.004	-.004	0	0
22	MP BETA3	PY	-.004	-.004	0	0
23	MP GAMMA1	PY	-.004	-.004	0	0
24	MP GAMMA2	PY	-.004	-.004	0	0
25	MP GAMMA3	PY	-.004	-.004	0	0
26	RUNG1	PY	-.000782	-.000782	0	0
27	RUNG2	PY	-.000782	-.000782	0	0
28	RUNG3	PY	-.000782	-.000782	0	0
29	RUNG4	PY	-.000782	-.000782	0	0
30	RUNG5	PY	-.000782	-.000782	0	0
31	RUNG6	PY	-.000782	-.000782	0	0
32	RUNG7	PY	-.000782	-.000782	0	0
33	SO1	PY	-.003	-.003	0	0
34	SO2	PY	-.003	-.003	0	0
35	SO3	PY	-.003	-.003	0	0
36	SUPPORT1	PY	-.01	-.01	0	0
37	SUPPORT2	PY	-.01	-.01	0	0
38	CONNANGLE1	PX	.011	.011	0	0
39	CONNANGLE2	PX	.011	.011	0	0
40	CONNANGLE3	PX	.011	.011	0	0
41	CORNER1	PX	.018	.018	0	0
42	CORNER2	PX	.018	.018	0	0
43	CORNER3	PX	.018	.018	0	0
44	FACE3,1	PX	.018	.018	0	0
45	FACE3,2	PX	.018	.018	0	0
46	FACE2,1	PX	.018	.018	0	0
47	FACE2,2	PX	.018	.018	0	0
48	FACE1,1	PX	.018	.018	0	0
49	FACE1,2	PX	.018	.018	0	0
50	LADDER1	PX	.006	.006	0	0
51	LADDER2	PX	.006	.006	0	0
52	LADDERPLATE1	PX	.014	.014	0	0
53	LADDERPLATE2	PX	.014	.014	0	0
54	MP ALPHA1	PX	.008	.008	0	0
55	MP ALPHA2	PX	.008	.008	0	0
56	MP ALPHA3	PX	.008	.008	0	0
57	MP BETA1	PX	.008	.008	0	0

Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP BETA2	PX	.008	.008	0	0
59	MP BETA3	PX	.008	.008	0	0
60	MP GAMMA1	PX	.008	.008	0	0
61	MP GAMMA2	PX	.008	.008	0	0
62	MP GAMMA3	PX	.008	.008	0	0
63	RUNG1	PX	.001	.001	0	0
64	RUNG2	PX	.001	.001	0	0
65	RUNG3	PX	.001	.001	0	0
66	RUNG4	PX	.001	.001	0	0
67	RUNG5	PX	.001	.001	0	0
68	RUNG6	PX	.001	.001	0	0
69	RUNG7	PX	.001	.001	0	0
70	SO1	PX	.006	.006	0	0
71	SO2	PX	.006	.006	0	0
72	SO3	PX	.006	.006	0	0
73	SUPPORT1	PX	.018	.018	0	0
74	SUPPORT2	PX	.018	.018	0	0
75	M76	PY	-.004	-.004	0	0
76	M76	PX	.008	.008	0	0
77	M77	PY	-.004	-.004	0	0
78	M77	PX	.008	.008	0	0
79	M78	PY	-.004	-.004	0	0
80	M78	PX	.008	.008	0	0

Member Distributed Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.011	-.011	0	0
2	CONNANGLE2	PY	-.011	-.011	0	0
3	CONNANGLE3	PY	-.011	-.011	0	0
4	CORNER1	PY	-.018	-.018	0	0
5	CORNER2	PY	-.018	-.018	0	0
6	CORNER3	PY	-.018	-.018	0	0
7	FACE1,1	PY	-.018	-.018	0	0
8	FACE1,2	PY	-.018	-.018	0	0
9	FACE2,1	PY	-.018	-.018	0	0
10	FACE2,2	PY	-.018	-.018	0	0
11	FACE3,1	PY	-.018	-.018	0	0
12	FACE3,2	PY	-.018	-.018	0	0
13	LADDER1	PY	-.006	-.006	0	0
14	LADDER2	PY	-.006	-.006	0	0
15	LADDERPLATE1	PY	-.014	-.014	0	0
16	LADDERPLATE2	PY	-.014	-.014	0	0
17	MP ALPHA1	PY	-.008	-.008	0	0
18	MP ALPHA2	PY	-.008	-.008	0	0
19	MP ALPHA3	PY	-.008	-.008	0	0
20	MP BETA1	PY	-.008	-.008	0	0
21	MP BETA2	PY	-.008	-.008	0	0
22	MP BETA3	PY	-.008	-.008	0	0
23	MP GAMMA1	PY	-.008	-.008	0	0
24	MP GAMMA2	PY	-.008	-.008	0	0
25	MP GAMMA3	PY	-.008	-.008	0	0
26	RUNG1	PY	-.001	-.001	0	0
27	RUNG2	PY	-.001	-.001	0	0
28	RUNG3	PY	-.001	-.001	0	0
29	RUNG4	PY	-.001	-.001	0	0
30	RUNG5	PY	-.001	-.001	0	0

Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	RUNG6	PY	-.001	-.001	0	0
32	RUNG7	PY	-.001	-.001	0	0
33	SO1	PY	-.006	-.006	0	0
34	SO2	PY	-.006	-.006	0	0
35	SO3	PY	-.006	-.006	0	0
36	SUPPORT1	PY	-.018	-.018	0	0
37	SUPPORT2	PY	-.018	-.018	0	0
38	CONNANGLE1	PX	.006	.006	0	0
39	CONNANGLE2	PX	.006	.006	0	0
40	CONNANGLE3	PX	.006	.006	0	0
41	CORNER1	PX	.01	.01	0	0
42	CORNER2	PX	.01	.01	0	0
43	CORNER3	PX	.01	.01	0	0
44	FACE1,1	PX	.01	.01	0	0
45	FACE1,2	PX	.01	.01	0	0
46	FACE2,1	PX	.01	.01	0	0
47	FACE2,2	PX	.01	.01	0	0
48	FACE3,1	PX	.01	.01	0	0
49	FACE3,2	PX	.01	.01	0	0
50	LADDER1	PX	.004	.004	0	0
51	LADDER2	PX	.004	.004	0	0
52	LADDERPLATE1	PX	.008	.008	0	0
53	LADDERPLATE2	PX	.008	.008	0	0
54	MP ALPHA1	PX	.004	.004	0	0
55	MP ALPHA2	PX	.004	.004	0	0
56	MP ALPHA3	PX	.004	.004	0	0
57	MP BETA1	PX	.004	.004	0	0
58	MP BETA2	PX	.004	.004	0	0
59	MP BETA3	PX	.004	.004	0	0
60	MP GAMMA1	PX	.004	.004	0	0
61	MP GAMMA2	PX	.004	.004	0	0
62	MP GAMMA3	PX	.004	.004	0	0
63	RUNG1	PX	.000782	.000782	0	0
64	RUNG2	PX	.000782	.000782	0	0
65	RUNG3	PX	.000782	.000782	0	0
66	RUNG4	PX	.000782	.000782	0	0
67	RUNG5	PX	.000782	.000782	0	0
68	RUNG6	PX	.000782	.000782	0	0
69	RUNG7	PX	.000782	.000782	0	0
70	SO1	PX	.003	.003	0	0
71	SO2	PX	.003	.003	0	0
72	SO3	PX	.003	.003	0	0
73	SUPPORT1	PX	.01	.01	0	0
74	SUPPORT2	PX	.01	.01	0	0
75	M76	PY	-.008	-.008	0	0
76	M76	PX	.004	.004	0	0
77	M77	PY	-.008	-.008	0	0
78	M77	PX	.004	.004	0	0
79	M78	PY	-.008	-.008	0	0
80	M78	PX	.004	.004	0	0

Member Distributed Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.000782	-.000782	0	0
2	CONNANGLE2	PY	-.000782	-.000782	0	0
3	CONNANGLE3	PY	-.000782	-.000782	0	0

Member Distributed Loads (BLC 15 : Maintanence (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	CORNER1	PY	-.001	-.001	0	0
5	CORNER2	PY	-.001	-.001	0	0
6	CORNER3	PY	-.001	-.001	0	0
7	FACE1,1	PY	-.001	-.001	0	0
8	FACE1,2	PY	-.001	-.001	0	0
9	FACE2,1	PY	-.001	-.001	0	0
10	FACE2,2	PY	-.001	-.001	0	0
11	FACE3,1	PY	-.001	-.001	0	0
12	FACE3,2	PY	-.001	-.001	0	0
13	LADDER1	PY	-.000456	-.000456	0	0
14	LADDER2	PY	-.000456	-.000456	0	0
15	LADDERPLATE1	PY	-.001	-.001	0	0
16	LADDERPLATE2	PY	-.001	-.001	0	0
17	MP ALPHA1	PY	-.000556	-.000556	0	0
18	MP ALPHA2	PY	-.000556	-.000556	0	0
19	MP ALPHA3	PY	-.000556	-.000556	0	0
20	MP BETA1	PY	-.000556	-.000556	0	0
21	MP BETA2	PY	-.000556	-.000556	0	0
22	MP BETA3	PY	-.000556	-.000556	0	0
23	MP GAMMA1	PY	-.000556	-.000556	0	0
24	MP GAMMA2	PY	-.000556	-.000556	0	0
25	MP GAMMA3	PY	-.000556	-.000556	0	0
26	RUNG1	PY	-9.8e-5	-9.8e-5	0	0
27	RUNG2	PY	-9.8e-5	-9.8e-5	0	0
28	RUNG3	PY	-9.8e-5	-9.8e-5	0	0
29	RUNG4	PY	-9.8e-5	-9.8e-5	0	0
30	RUNG5	PY	-9.8e-5	-9.8e-5	0	0
31	RUNG6	PY	-9.8e-5	-9.8e-5	0	0
32	RUNG7	PY	-9.8e-5	-9.8e-5	0	0
33	SO1	PY	-.000407	-.000407	0	0
34	SO2	PY	-.000407	-.000407	0	0
35	SO3	PY	-.000407	-.000407	0	0
36	SUPPORT1	PY	-.001	-.001	0	0
37	SUPPORT2	PY	-.001	-.001	0	0
38	M76	PY	-.000556	-.000556	0	0
39	M77	PY	-.000556	-.000556	0	0
40	M78	PY	-.000556	-.000556	0	0

Member Distributed Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.000677	-.000677	0	0
2	CONNANGLE2	PY	-.000677	-.000677	0	0
3	CONNANGLE3	PY	-.000677	-.000677	0	0
4	CORNER1	PY	-.001	-.001	0	0
5	CORNER2	PY	-.001	-.001	0	0
6	CORNER3	PY	-.001	-.001	0	0
7	FACE1,1	PY	-.001	-.001	0	0
8	FACE1,2	PY	-.001	-.001	0	0
9	FACE2,1	PY	-.001	-.001	0	0
10	FACE2,2	PY	-.001	-.001	0	0
11	FACE3,1	PY	-.001	-.001	0	0
12	FACE3,2	PY	-.001	-.001	0	0
13	LADDER1	PY	-.000395	-.000395	0	0
14	LADDER2	PY	-.000395	-.000395	0	0
15	LADDERPLATE1	PY	-.000902	-.000902	0	0
16	LADDERPLATE2	PY	-.000902	-.000902	0	0

Member Distributed Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	MP ALPHA1	PY	-.000481	-.000481	0	0
18	MP ALPHA2	PY	-.000481	-.000481	0	0
19	MP ALPHA3	PY	-.000481	-.000481	0	0
20	MP BETA1	PY	-.000481	-.000481	0	0
21	MP BETA2	PY	-.000481	-.000481	0	0
22	MP BETA3	PY	-.000481	-.000481	0	0
23	MP GAMMA1	PY	-.000481	-.000481	0	0
24	MP GAMMA2	PY	-.000481	-.000481	0	0
25	MP GAMMA3	PY	-.000481	-.000481	0	0
26	RUNG1	PY	-8.5e-5	-8.5e-5	0	0
27	RUNG2	PY	-8.5e-5	-8.5e-5	0	0
28	RUNG3	PY	-8.5e-5	-8.5e-5	0	0
29	RUNG4	PY	-8.5e-5	-8.5e-5	0	0
30	RUNG5	PY	-8.5e-5	-8.5e-5	0	0
31	RUNG6	PY	-8.5e-5	-8.5e-5	0	0
32	RUNG7	PY	-8.5e-5	-8.5e-5	0	0
33	SO1	PY	-.000353	-.000353	0	0
34	SO2	PY	-.000353	-.000353	0	0
35	SO3	PY	-.000353	-.000353	0	0
36	SUPPORT1	PY	-.001	-.001	0	0
37	SUPPORT2	PY	-.001	-.001	0	0
38	CONNANGLE1	PX	-.000391	-.000391	0	0
39	CONNANGLE2	PX	-.000391	-.000391	0	0
40	CONNANGLE3	PX	-.000391	-.000391	0	0
41	CORNER1	PX	-.000651	-.000651	0	0
42	CORNER2	PX	-.000651	-.000651	0	0
43	CORNER3	PX	-.000651	-.000651	0	0
44	FACE1,1	PX	-.000651	-.000651	0	0
45	FACE1,2	PX	-.000651	-.000651	0	0
46	FACE2,1	PX	-.000651	-.000651	0	0
47	FACE2,2	PX	-.000651	-.000651	0	0
48	FACE3,1	PX	-.000651	-.000651	0	0
49	FACE3,2	PX	-.000651	-.000651	0	0
50	LADDER1	PX	-.000228	-.000228	0	0
51	LADDER2	PX	-.000228	-.000228	0	0
52	LADDERPLATE1	PX	-.000521	-.000521	0	0
53	LADDERPLATE2	PX	-.000521	-.000521	0	0
54	MP ALPHA1	PX	-.000278	-.000278	0	0
55	MP ALPHA2	PX	-.000278	-.000278	0	0
56	MP ALPHA3	PX	-.000278	-.000278	0	0
57	MP BETA1	PX	-.000278	-.000278	0	0
58	MP BETA2	PX	-.000278	-.000278	0	0
59	MP BETA3	PX	-.000278	-.000278	0	0
60	MP GAMMA1	PX	-.000278	-.000278	0	0
61	MP GAMMA2	PX	-.000278	-.000278	0	0
62	MP GAMMA3	PX	-.000278	-.000278	0	0
63	RUNG1	PX	-4.9e-5	-4.9e-5	0	0
64	RUNG2	PX	-4.9e-5	-4.9e-5	0	0
65	RUNG3	PX	-4.9e-5	-4.9e-5	0	0
66	RUNG4	PX	-4.9e-5	-4.9e-5	0	0
67	RUNG5	PX	-4.9e-5	-4.9e-5	0	0
68	RUNG6	PX	-4.9e-5	-4.9e-5	0	0
69	RUNG7	PX	-4.9e-5	-4.9e-5	0	0
70	SO1	PX	-.000204	-.000204	0	0
71	SO2	PX	-.000204	-.000204	0	0
72	SO3	PX	-.000204	-.000204	0	0
73	SUPPORT1	PX	-.000651	-.000651	0	0

Member Distributed Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	SUPPORT2	PX	-.000651	-.000651	0	0
75	M76	PY	-.000481	-.000481	0	0
76	M76	PX	-.000278	-.000278	0	0
77	M77	PY	-.000481	-.000481	0	0
78	M77	PX	-.000278	-.000278	0	0
79	M78	PY	-.000481	-.000481	0	0
80	M78	PX	-.000278	-.000278	0	0

Member Distributed Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.000391	-.000391	0	0
2	CONNANGLE2	PY	-.000391	-.000391	0	0
3	CONNANGLE3	PY	-.000391	-.000391	0	0
4	CORNER1	PY	-.000651	-.000651	0	0
5	CORNER2	PY	-.000651	-.000651	0	0
6	CORNER3	PY	-.000651	-.000651	0	0
7	FACE1,1	PY	-.000651	-.000651	0	0
8	FACE1,2	PY	-.000651	-.000651	0	0
9	FACE2,1	PY	-.000651	-.000651	0	0
10	FACE2,2	PY	-.000651	-.000651	0	0
11	FACE3,1	PY	-.000651	-.000651	0	0
12	FACE3,2	PY	-.000651	-.000651	0	0
13	LADDER1	PY	-.000228	-.000228	0	0
14	LADDER2	PY	-.000228	-.000228	0	0
15	LADDERPLATE1	PY	-.000521	-.000521	0	0
16	LADDERPLATE2	PY	-.000521	-.000521	0	0
17	MP ALPHA1	PY	-.000278	-.000278	0	0
18	MP ALPHA2	PY	-.000278	-.000278	0	0
19	MP ALPHA3	PY	-.000278	-.000278	0	0
20	MP BETA1	PY	-.000278	-.000278	0	0
21	MP BETA2	PY	-.000278	-.000278	0	0
22	MP BETA3	PY	-.000278	-.000278	0	0
23	MP GAMMA1	PY	-.000278	-.000278	0	0
24	MP GAMMA2	PY	-.000278	-.000278	0	0
25	MP GAMMA3	PY	-.000278	-.000278	0	0
26	RUNG1	PY	-4.9e-5	-4.9e-5	0	0
27	RUNG2	PY	-4.9e-5	-4.9e-5	0	0
28	RUNG3	PY	-4.9e-5	-4.9e-5	0	0
29	RUNG4	PY	-4.9e-5	-4.9e-5	0	0
30	RUNG5	PY	-4.9e-5	-4.9e-5	0	0
31	RUNG6	PY	-4.9e-5	-4.9e-5	0	0
32	RUNG7	PY	-4.9e-5	-4.9e-5	0	0
33	SO1	PY	-.000204	-.000204	0	0
34	SO2	PY	-.000204	-.000204	0	0
35	SO3	PY	-.000204	-.000204	0	0
36	SUPPORT1	PY	-.000651	-.000651	0	0
37	SUPPORT2	PY	-.000651	-.000651	0	0
38	CONNANGLE1	PX	-.000677	-.000677	0	0
39	CONNANGLE2	PX	-.000677	-.000677	0	0
40	CONNANGLE3	PX	-.000677	-.000677	0	0
41	CORNER1	PX	-.001	-.001	0	0
42	CORNER2	PX	-.001	-.001	0	0
43	CORNER3	PX	-.001	-.001	0	0
44	FACE1,1	PX	-.001	-.001	0	0
45	FACE1,2	PX	-.001	-.001	0	0
46	FACE2,1	PX	-.001	-.001	0	0

Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	FACE2,2	PX	-.001	-.001	0	0
48	FACE3,1	PX	-.001	-.001	0	0
49	FACE3,2	PX	-.001	-.001	0	0
50	LADDER1	PX	-.000395	-.000395	0	0
51	LADDER2	PX	-.000395	-.000395	0	0
52	LADDERPLATE1	PX	-.000902	-.000902	0	0
53	LADDERPLATE2	PX	-.000902	-.000902	0	0
54	MP ALPHA1	PX	-.000481	-.000481	0	0
55	MP ALPHA2	PX	-.000481	-.000481	0	0
56	MP ALPHA3	PX	-.000481	-.000481	0	0
57	MP BETA1	PX	-.000481	-.000481	0	0
58	MP BETA2	PX	-.000481	-.000481	0	0
59	MP BETA3	PX	-.000481	-.000481	0	0
60	MP GAMMA1	PX	-.000481	-.000481	0	0
61	MP GAMMA2	PX	-.000481	-.000481	0	0
62	MP GAMMA3	PX	-.000481	-.000481	0	0
63	RUNG1	PX	-8.5e-5	-8.5e-5	0	0
64	RUNG2	PX	-8.5e-5	-8.5e-5	0	0
65	RUNG3	PX	-8.5e-5	-8.5e-5	0	0
66	RUNG4	PX	-8.5e-5	-8.5e-5	0	0
67	RUNG5	PX	-8.5e-5	-8.5e-5	0	0
68	RUNG6	PX	-8.5e-5	-8.5e-5	0	0
69	RUNG7	PX	-8.5e-5	-8.5e-5	0	0
70	SO1	PX	-.000353	-.000353	0	0
71	SO2	PX	-.000353	-.000353	0	0
72	SO3	PX	-.000353	-.000353	0	0
73	SUPPORT1	PX	-.001	-.001	0	0
74	SUPPORT2	PX	-.001	-.001	0	0
75	M76	PY	-.000278	-.000278	0	0
76	M76	PX	-.000481	-.000481	0	0
77	M77	PY	-.000278	-.000278	0	0
78	M77	PX	-.000481	-.000481	0	0
79	M78	PY	-.000278	-.000278	0	0
80	M78	PX	-.000481	-.000481	0	0

Member Distributed Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PX	-.000782	-.000782	0	0
2	CONNANGLE2	PX	-.000782	-.000782	0	0
3	CONNANGLE3	PX	-.000782	-.000782	0	0
4	CORNER1	PX	-.001	-.001	0	0
5	CORNER2	PX	-.001	-.001	0	0
6	CORNER3	PX	-.001	-.001	0	0
7	FACE2,1	PX	-.001	-.001	0	0
8	FACE2,2	PX	-.001	-.001	0	0
9	FACE1,1	PX	-.001	-.001	0	0
10	FACE1,2	PX	-.001	-.001	0	0
11	FACE3,1	PX	-.001	-.001	0	0
12	FACE3,2	PX	-.001	-.001	0	0
13	LADDER1	PX	-.000456	-.000456	0	0
14	LADDER2	PX	-.000456	-.000456	0	0
15	LADDERPLATE1	PX	-.001	-.001	0	0
16	LADDERPLATE2	PX	-.001	-.001	0	0
17	MP ALPHA1	PX	-.000556	-.000556	0	0
18	MP ALPHA2	PX	-.000556	-.000556	0	0
19	MP ALPHA3	PX	-.000556	-.000556	0	0

Member Distributed Loads (BLC 18 : Maintanence (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	MP BETA1	PX	-.000556	-.000556	0	0
21	MP BETA2	PX	-.000556	-.000556	0	0
22	MP BETA3	PX	-.000556	-.000556	0	0
23	MP GAMMA1	PX	-.000556	-.000556	0	0
24	MP GAMMA2	PX	-.000556	-.000556	0	0
25	MP GAMMA3	PX	-.000556	-.000556	0	0
26	RUNG1	PX	-9.8e-5	-9.8e-5	0	0
27	RUNG2	PX	-9.8e-5	-9.8e-5	0	0
28	RUNG3	PX	-9.8e-5	-9.8e-5	0	0
29	RUNG4	PX	-9.8e-5	-9.8e-5	0	0
30	RUNG5	PX	-9.8e-5	-9.8e-5	0	0
31	RUNG6	PX	-9.8e-5	-9.8e-5	0	0
32	RUNG7	PX	-9.8e-5	-9.8e-5	0	0
33	SO1	PX	-.000407	-.000407	0	0
34	SO2	PX	-.000407	-.000407	0	0
35	SO3	PX	-.000407	-.000407	0	0
36	SUPPORT1	PX	-.001	-.001	0	0
37	SUPPORT2	PX	-.001	-.001	0	0
38	M76	PX	-.000556	-.000556	0	0
39	M77	PX	-.000556	-.000556	0	0
40	M78	PX	-.000556	-.000556	0	0

Member Distributed Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.000391	.000391	0	0
2	CONNANGLE2	PY	.000391	.000391	0	0
3	CONNANGLE3	PY	.000391	.000391	0	0
4	CORNER1	PY	.000651	.000651	0	0
5	CORNER2	PY	.000651	.000651	0	0
6	CORNER3	PY	.000651	.000651	0	0
7	FACE2,1	PY	.000651	.000651	0	0
8	FACE2,2	PY	.000651	.000651	0	0
9	FACE1,1	PY	.000651	.000651	0	0
10	FACE1,2	PY	.000651	.000651	0	0
11	FACE3,1	PY	.000651	.000651	0	0
12	FACE3,2	PY	.000651	.000651	0	0
13	LADDER1	PY	.000228	.000228	0	0
14	LADDER2	PY	.000228	.000228	0	0
15	LADDERPLATE1	PY	.000521	.000521	0	0
16	LADDERPLATE2	PY	.000521	.000521	0	0
17	MP ALPHA1	PY	.000278	.000278	0	0
18	MP ALPHA2	PY	.000278	.000278	0	0
19	MP ALPHA3	PY	.000278	.000278	0	0
20	MP BETA1	PY	.000278	.000278	0	0
21	MP BETA2	PY	.000278	.000278	0	0
22	MP BETA3	PY	.000278	.000278	0	0
23	MP GAMMA1	PY	.000278	.000278	0	0
24	MP GAMMA2	PY	.000278	.000278	0	0
25	MP GAMMA3	PY	.000278	.000278	0	0
26	RUNG1	PY	4.9e-5	4.9e-5	0	0
27	RUNG2	PY	4.9e-5	4.9e-5	0	0
28	RUNG3	PY	4.9e-5	4.9e-5	0	0
29	RUNG4	PY	4.9e-5	4.9e-5	0	0
30	RUNG5	PY	4.9e-5	4.9e-5	0	0
31	RUNG6	PY	4.9e-5	4.9e-5	0	0
32	RUNG7	PY	4.9e-5	4.9e-5	0	0

Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	SO1	PY	.000204	.000204	0	0
34	SO2	PY	.000204	.000204	0	0
35	SO3	PY	.000204	.000204	0	0
36	SUPPORT1	PY	.000651	.000651	0	0
37	SUPPORT2	PY	.000651	.000651	0	0
38	CONNANGLE1	PX	-.000677	-.000677	0	0
39	CONNANGLE2	PX	-.000677	-.000677	0	0
40	CONNANGLE3	PX	-.000677	-.000677	0	0
41	CORNER1	PX	-.001	-.001	0	0
42	CORNER2	PX	-.001	-.001	0	0
43	CORNER3	PX	-.001	-.001	0	0
44	FACE2,1	PX	-.001	-.001	0	0
45	FACE2,2	PX	-.001	-.001	0	0
46	FACE1,1	PX	-.001	-.001	0	0
47	FACE1,2	PX	-.001	-.001	0	0
48	FACE3,1	PX	-.001	-.001	0	0
49	FACE3,2	PX	-.001	-.001	0	0
50	LADDER1	PX	-.000395	-.000395	0	0
51	LADDER2	PX	-.000395	-.000395	0	0
52	LADDERPLATE1	PX	-.000902	-.000902	0	0
53	LADDERPLATE2	PX	-.000902	-.000902	0	0
54	MP ALPHA1	PX	-.000481	-.000481	0	0
55	MP ALPHA2	PX	-.000481	-.000481	0	0
56	MP ALPHA3	PX	-.000481	-.000481	0	0
57	MP BETA1	PX	-.000481	-.000481	0	0
58	MP BETA2	PX	-.000481	-.000481	0	0
59	MP BETA3	PX	-.000481	-.000481	0	0
60	MP GAMMA1	PX	-.000481	-.000481	0	0
61	MP GAMMA2	PX	-.000481	-.000481	0	0
62	MP GAMMA3	PX	-.000481	-.000481	0	0
63	RUNG1	PX	-8.5e-5	-8.5e-5	0	0
64	RUNG2	PX	-8.5e-5	-8.5e-5	0	0
65	RUNG3	PX	-8.5e-5	-8.5e-5	0	0
66	RUNG4	PX	-8.5e-5	-8.5e-5	0	0
67	RUNG5	PX	-8.5e-5	-8.5e-5	0	0
68	RUNG6	PX	-8.5e-5	-8.5e-5	0	0
69	RUNG7	PX	-8.5e-5	-8.5e-5	0	0
70	SO1	PX	-.000353	-.000353	0	0
71	SO2	PX	-.000353	-.000353	0	0
72	SO3	PX	-.000353	-.000353	0	0
73	SUPPORT1	PX	-.001	-.001	0	0
74	SUPPORT2	PX	-.001	-.001	0	0
75	M76	PY	.000278	.000278	0	0
76	M76	PX	-.000481	-.000481	0	0
77	M77	PY	.000278	.000278	0	0
78	M77	PX	-.000481	-.000481	0	0
79	M78	PY	.000278	.000278	0	0
80	M78	PX	-.000481	-.000481	0	0

Member Distributed Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.000677	.000677	0	0
2	CONNANGLE2	PY	.000677	.000677	0	0
3	CONNANGLE3	PY	.000677	.000677	0	0
4	CORNER1	PY	.001	.001	0	0
5	CORNER2	PY	.001	.001	0	0

Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	CORNER3	PY	.001	.001	0	0
7	FACE2,1	PY	.001	.001	0	0
8	FACE2,2	PY	.001	.001	0	0
9	FACE1,1	PY	.001	.001	0	0
10	FACE1,2	PY	.001	.001	0	0
11	FACE3,1	PY	.001	.001	0	0
12	FACE3,2	PY	.001	.001	0	0
13	LADDER1	PY	.000395	.000395	0	0
14	LADDER2	PY	.000395	.000395	0	0
15	LADDERPLATE1	PY	.000902	.000902	0	0
16	LADDERPLATE2	PY	.000902	.000902	0	0
17	MP ALPHA1	PY	.000481	.000481	0	0
18	MP ALPHA2	PY	.000481	.000481	0	0
19	MP ALPHA3	PY	.000481	.000481	0	0
20	MP BETA1	PY	.000481	.000481	0	0
21	MP BETA2	PY	.000481	.000481	0	0
22	MP BETA3	PY	.000481	.000481	0	0
23	MP GAMMA1	PY	.000481	.000481	0	0
24	MP GAMMA2	PY	.000481	.000481	0	0
25	MP GAMMA3	PY	.000481	.000481	0	0
26	RUNG1	PY	8.5e-5	8.5e-5	0	0
27	RUNG2	PY	8.5e-5	8.5e-5	0	0
28	RUNG3	PY	8.5e-5	8.5e-5	0	0
29	RUNG4	PY	8.5e-5	8.5e-5	0	0
30	RUNG5	PY	8.5e-5	8.5e-5	0	0
31	RUNG6	PY	8.5e-5	8.5e-5	0	0
32	RUNG7	PY	8.5e-5	8.5e-5	0	0
33	SO1	PY	.000353	.000353	0	0
34	SO2	PY	.000353	.000353	0	0
35	SO3	PY	.000353	.000353	0	0
36	SUPPORT1	PY	.001	.001	0	0
37	SUPPORT2	PY	.001	.001	0	0
38	CONNANGLE1	PX	-.000391	-.000391	0	0
39	CONNANGLE2	PX	-.000391	-.000391	0	0
40	CONNANGLE3	PX	-.000391	-.000391	0	0
41	CORNER1	PX	-.000651	-.000651	0	0
42	CORNER2	PX	-.000651	-.000651	0	0
43	CORNER3	PX	-.000651	-.000651	0	0
44	FACE2,1	PX	-.000651	-.000651	0	0
45	FACE2,2	PX	-.000651	-.000651	0	0
46	FACE1,1	PX	-.000651	-.000651	0	0
47	FACE1,2	PX	-.000651	-.000651	0	0
48	FACE3,1	PX	-.000651	-.000651	0	0
49	FACE3,2	PX	-.000651	-.000651	0	0
50	LADDER1	PX	-.000228	-.000228	0	0
51	LADDER2	PX	-.000228	-.000228	0	0
52	LADDERPLATE1	PX	-.000521	-.000521	0	0
53	LADDERPLATE2	PX	-.000521	-.000521	0	0
54	MP ALPHA1	PX	-.000278	-.000278	0	0
55	MP ALPHA2	PX	-.000278	-.000278	0	0
56	MP ALPHA3	PX	-.000278	-.000278	0	0
57	MP BETA1	PX	-.000278	-.000278	0	0
58	MP BETA2	PX	-.000278	-.000278	0	0
59	MP BETA3	PX	-.000278	-.000278	0	0
60	MP GAMMA1	PX	-.000278	-.000278	0	0
61	MP GAMMA2	PX	-.000278	-.000278	0	0
62	MP GAMMA3	PX	-.000278	-.000278	0	0

Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
63	RUNG1	PX	-4.9e-5	-4.9e-5	0	0
64	RUNG2	PX	-4.9e-5	-4.9e-5	0	0
65	RUNG3	PX	-4.9e-5	-4.9e-5	0	0
66	RUNG4	PX	-4.9e-5	-4.9e-5	0	0
67	RUNG5	PX	-4.9e-5	-4.9e-5	0	0
68	RUNG6	PX	-4.9e-5	-4.9e-5	0	0
69	RUNG7	PX	-4.9e-5	-4.9e-5	0	0
70	SO1	PX	-.000204	-.000204	0	0
71	SO2	PX	-.000204	-.000204	0	0
72	SO3	PX	-.000204	-.000204	0	0
73	SUPPORT1	PX	-.000651	-.000651	0	0
74	SUPPORT2	PX	-.000651	-.000651	0	0
75	M76	PY	.000481	.000481	0	0
76	M76	PX	-.000278	-.000278	0	0
77	M77	PY	.000481	.000481	0	0
78	M77	PX	-.000278	-.000278	0	0
79	M78	PY	.000481	.000481	0	0
80	M78	PX	-.000278	-.000278	0	0

Member Distributed Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.000782	.000782	0	0
2	CONNANGLE2	PY	.000782	.000782	0	0
3	CONNANGLE3	PY	.000782	.000782	0	0
4	CORNER1	PY	.001	.001	0	0
5	CORNER2	PY	.001	.001	0	0
6	CORNER3	PY	.001	.001	0	0
7	FACE2,1	PY	.001	.001	0	0
8	FACE2,2	PY	.001	.001	0	0
9	FACE1,1	PY	.001	.001	0	0
10	FACE1,2	PY	.001	.001	0	0
11	FACE3,1	PY	.001	.001	0	0
12	FACE3,2	PY	.001	.001	0	0
13	LADDER1	PY	.000456	.000456	0	0
14	LADDER2	PY	.000456	.000456	0	0
15	LADDERPLATE1	PY	.001	.001	0	0
16	LADDERPLATE2	PY	.001	.001	0	0
17	MP ALPHA1	PY	.000556	.000556	0	0
18	MP ALPHA2	PY	.000556	.000556	0	0
19	MP ALPHA3	PY	.000556	.000556	0	0
20	MP BETA1	PY	.000556	.000556	0	0
21	MP BETA2	PY	.000556	.000556	0	0
22	MP BETA3	PY	.000556	.000556	0	0
23	MP GAMMA1	PY	.000556	.000556	0	0
24	MP GAMMA2	PY	.000556	.000556	0	0
25	MP GAMMA3	PY	.000556	.000556	0	0
26	RUNG1	PY	9.8e-5	9.8e-5	0	0
27	RUNG2	PY	9.8e-5	9.8e-5	0	0
28	RUNG3	PY	9.8e-5	9.8e-5	0	0
29	RUNG4	PY	9.8e-5	9.8e-5	0	0
30	RUNG5	PY	9.8e-5	9.8e-5	0	0
31	RUNG6	PY	9.8e-5	9.8e-5	0	0
32	RUNG7	PY	9.8e-5	9.8e-5	0	0
33	SO1	PY	.000407	.000407	0	0
34	SO2	PY	.000407	.000407	0	0
35	SO3	PY	.000407	.000407	0	0

Member Distributed Loads (BLC 21 : Maintanence (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
36	SUPPORT1	PY	.001	.001	0	0
37	SUPPORT2	PY	.001	.001	0	0
38	M76	PY	.000556	.000556	0	0
39	M77	PY	.000556	.000556	0	0
40	M78	PY	.000556	.000556	0	0

Member Distributed Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.000677	.000677	0	0
2	CONNANGLE2	PY	.000677	.000677	0	0
3	CONNANGLE3	PY	.000677	.000677	0	0
4	CORNER1	PY	.001	.001	0	0
5	CORNER2	PY	.001	.001	0	0
6	CORNER3	PY	.001	.001	0	0
7	FACE3,1	PY	.001	.001	0	0
8	FACE3,2	PY	.001	.001	0	0
9	FACE2,1	PY	.001	.001	0	0
10	FACE2,2	PY	.001	.001	0	0
11	FACE1,1	PY	.001	.001	0	0
12	FACE1,2	PY	.001	.001	0	0
13	LADDER1	PY	.000395	.000395	0	0
14	LADDER2	PY	.000395	.000395	0	0
15	LADDERPLATE1	PY	.000902	.000902	0	0
16	LADDERPLATE2	PY	.000902	.000902	0	0
17	MP ALPHA1	PY	.000481	.000481	0	0
18	MP ALPHA2	PY	.000481	.000481	0	0
19	MP ALPHA3	PY	.000481	.000481	0	0
20	MP BETA1	PY	.000481	.000481	0	0
21	MP BETA2	PY	.000481	.000481	0	0
22	MP BETA3	PY	.000481	.000481	0	0
23	MP GAMMA1	PY	.000481	.000481	0	0
24	MP GAMMA2	PY	.000481	.000481	0	0
25	MP GAMMA3	PY	.000481	.000481	0	0
26	RUNG1	PY	8.5e-5	8.5e-5	0	0
27	RUNG2	PY	8.5e-5	8.5e-5	0	0
28	RUNG3	PY	8.5e-5	8.5e-5	0	0
29	RUNG4	PY	8.5e-5	8.5e-5	0	0
30	RUNG5	PY	8.5e-5	8.5e-5	0	0
31	RUNG6	PY	8.5e-5	8.5e-5	0	0
32	RUNG7	PY	8.5e-5	8.5e-5	0	0
33	SO1	PY	.000353	.000353	0	0
34	SO2	PY	.000353	.000353	0	0
35	SO3	PY	.000353	.000353	0	0
36	SUPPORT1	PY	.001	.001	0	0
37	SUPPORT2	PY	.001	.001	0	0
38	CONNANGLE1	PX	.000391	.000391	0	0
39	CONNANGLE2	PX	.000391	.000391	0	0
40	CONNANGLE3	PX	.000391	.000391	0	0
41	CORNER1	PX	.000651	.000651	0	0
42	CORNER2	PX	.000651	.000651	0	0
43	CORNER3	PX	.000651	.000651	0	0
44	FACE3,1	PX	.000651	.000651	0	0
45	FACE3,2	PX	.000651	.000651	0	0
46	FACE2,1	PX	.000651	.000651	0	0
47	FACE2,2	PX	.000651	.000651	0	0
48	FACE1,1	PX	.000651	.000651	0	0

Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
49	FACE1,2	PX	.000651	.000651	0	0
50	LADDER1	PX	.000228	.000228	0	0
51	LADDER2	PX	.000228	.000228	0	0
52	LADDERPLATE1	PX	.000521	.000521	0	0
53	LADDERPLATE2	PX	.000521	.000521	0	0
54	MP ALPHA1	PX	.000278	.000278	0	0
55	MP ALPHA2	PX	.000278	.000278	0	0
56	MP ALPHA3	PX	.000278	.000278	0	0
57	MP BETA1	PX	.000278	.000278	0	0
58	MP BETA2	PX	.000278	.000278	0	0
59	MP BETA3	PX	.000278	.000278	0	0
60	MP GAMMA1	PX	.000278	.000278	0	0
61	MP GAMMA2	PX	.000278	.000278	0	0
62	MP GAMMA3	PX	.000278	.000278	0	0
63	RUNG1	PX	4.9e-5	4.9e-5	0	0
64	RUNG2	PX	4.9e-5	4.9e-5	0	0
65	RUNG3	PX	4.9e-5	4.9e-5	0	0
66	RUNG4	PX	4.9e-5	4.9e-5	0	0
67	RUNG5	PX	4.9e-5	4.9e-5	0	0
68	RUNG6	PX	4.9e-5	4.9e-5	0	0
69	RUNG7	PX	4.9e-5	4.9e-5	0	0
70	SO1	PX	.000204	.000204	0	0
71	SO2	PX	.000204	.000204	0	0
72	SO3	PX	.000204	.000204	0	0
73	SUPPORT1	PX	.000651	.000651	0	0
74	SUPPORT2	PX	.000651	.000651	0	0
75	M76	PY	.000481	.000481	0	0
76	M76	PX	.000278	.000278	0	0
77	M77	PY	.000481	.000481	0	0
78	M77	PX	.000278	.000278	0	0
79	M78	PY	.000481	.000481	0	0
80	M78	PX	.000278	.000278	0	0

Member Distributed Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.000391	.000391	0	0
2	CONNANGLE2	PY	.000391	.000391	0	0
3	CONNANGLE3	PY	.000391	.000391	0	0
4	CORNER1	PY	.000651	.000651	0	0
5	CORNER2	PY	.000651	.000651	0	0
6	CORNER3	PY	.000651	.000651	0	0
7	FACE3,1	PY	.000651	.000651	0	0
8	FACE3,2	PY	.000651	.000651	0	0
9	FACE2,1	PY	.000651	.000651	0	0
10	FACE2,2	PY	.000651	.000651	0	0
11	FACE1,1	PY	.000651	.000651	0	0
12	FACE1,2	PY	.000651	.000651	0	0
13	LADDER1	PY	.000228	.000228	0	0
14	LADDER2	PY	.000228	.000228	0	0
15	LADDERPLATE1	PY	.000521	.000521	0	0
16	LADDERPLATE2	PY	.000521	.000521	0	0
17	MP ALPHA1	PY	.000278	.000278	0	0
18	MP ALPHA2	PY	.000278	.000278	0	0
19	MP ALPHA3	PY	.000278	.000278	0	0
20	MP BETA1	PY	.000278	.000278	0	0
21	MP BETA2	PY	.000278	.000278	0	0

Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	MP BETA3	PY	.000278	.000278	0	0
23	MP GAMMA1	PY	.000278	.000278	0	0
24	MP GAMMA2	PY	.000278	.000278	0	0
25	MP GAMMA3	PY	.000278	.000278	0	0
26	RUNG1	PY	4.9e-5	4.9e-5	0	0
27	RUNG2	PY	4.9e-5	4.9e-5	0	0
28	RUNG3	PY	4.9e-5	4.9e-5	0	0
29	RUNG4	PY	4.9e-5	4.9e-5	0	0
30	RUNG5	PY	4.9e-5	4.9e-5	0	0
31	RUNG6	PY	4.9e-5	4.9e-5	0	0
32	RUNG7	PY	4.9e-5	4.9e-5	0	0
33	SO1	PY	.000204	.000204	0	0
34	SO2	PY	.000204	.000204	0	0
35	SO3	PY	.000204	.000204	0	0
36	SUPPORT1	PY	.000651	.000651	0	0
37	SUPPORT2	PY	.000651	.000651	0	0
38	CONNANGLE1	PX	.000677	.000677	0	0
39	CONNANGLE2	PX	.000677	.000677	0	0
40	CONNANGLE3	PX	.000677	.000677	0	0
41	CORNER1	PX	.001	.001	0	0
42	CORNER2	PX	.001	.001	0	0
43	CORNER3	PX	.001	.001	0	0
44	FACE3,1	PX	.001	.001	0	0
45	FACE3,2	PX	.001	.001	0	0
46	FACE2,1	PX	.001	.001	0	0
47	FACE2,2	PX	.001	.001	0	0
48	FACE1,1	PX	.001	.001	0	0
49	FACE1,2	PX	.001	.001	0	0
50	LADDER1	PX	.000395	.000395	0	0
51	LADDER2	PX	.000395	.000395	0	0
52	LADDERPLATE1	PX	.000902	.000902	0	0
53	LADDERPLATE2	PX	.000902	.000902	0	0
54	MP ALPHA1	PX	.000481	.000481	0	0
55	MP ALPHA2	PX	.000481	.000481	0	0
56	MP ALPHA3	PX	.000481	.000481	0	0
57	MP BETA1	PX	.000481	.000481	0	0
58	MP BETA2	PX	.000481	.000481	0	0
59	MP BETA3	PX	.000481	.000481	0	0
60	MP GAMMA1	PX	.000481	.000481	0	0
61	MP GAMMA2	PX	.000481	.000481	0	0
62	MP GAMMA3	PX	.000481	.000481	0	0
63	RUNG1	PX	8.5e-5	8.5e-5	0	0
64	RUNG2	PX	8.5e-5	8.5e-5	0	0
65	RUNG3	PX	8.5e-5	8.5e-5	0	0
66	RUNG4	PX	8.5e-5	8.5e-5	0	0
67	RUNG5	PX	8.5e-5	8.5e-5	0	0
68	RUNG6	PX	8.5e-5	8.5e-5	0	0
69	RUNG7	PX	8.5e-5	8.5e-5	0	0
70	SO1	PX	.000353	.000353	0	0
71	SO2	PX	.000353	.000353	0	0
72	SO3	PX	.000353	.000353	0	0
73	SUPPORT1	PX	.001	.001	0	0
74	SUPPORT2	PX	.001	.001	0	0
75	M76	PY	.000278	.000278	0	0
76	M76	PX	.000481	.000481	0	0
77	M77	PY	.000278	.000278	0	0
78	M77	PX	.000481	.000481	0	0

Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
79	M78	PY	.000278	.000278	0	0
80	M78	PX	.000481	.000481	0	0

Member Distributed Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PX	.000782	.000782	0	0
2	CONNANGLE2	PX	.000782	.000782	0	0
3	CONNANGLE3	PX	.000782	.000782	0	0
4	CORNER1	PX	.001	.001	0	0
5	CORNER2	PX	.001	.001	0	0
6	CORNER3	PX	.001	.001	0	0
7	FACE3,1	PX	.001	.001	0	0
8	FACE3,2	PX	.001	.001	0	0
9	FACE2,1	PX	.001	.001	0	0
10	FACE2,2	PX	.001	.001	0	0
11	FACE1,1	PX	.001	.001	0	0
12	FACE1,2	PX	.001	.001	0	0
13	LADDER1	PX	.000456	.000456	0	0
14	LADDER2	PX	.000456	.000456	0	0
15	LADDERPLATE1	PX	.001	.001	0	0
16	LADDERPLATE2	PX	.001	.001	0	0
17	MP ALPHA1	PX	.000556	.000556	0	0
18	MP ALPHA2	PX	.000556	.000556	0	0
19	MP ALPHA3	PX	.000556	.000556	0	0
20	MP BETA1	PX	.000556	.000556	0	0
21	MP BETA2	PX	.000556	.000556	0	0
22	MP BETA3	PX	.000556	.000556	0	0
23	MP GAMMA1	PX	.000556	.000556	0	0
24	MP GAMMA2	PX	.000556	.000556	0	0
25	MP GAMMA3	PX	.000556	.000556	0	0
26	RUNG1	PX	9.8e-5	9.8e-5	0	0
27	RUNG2	PX	9.8e-5	9.8e-5	0	0
28	RUNG3	PX	9.8e-5	9.8e-5	0	0
29	RUNG4	PX	9.8e-5	9.8e-5	0	0
30	RUNG5	PX	9.8e-5	9.8e-5	0	0
31	RUNG6	PX	9.8e-5	9.8e-5	0	0
32	RUNG7	PX	9.8e-5	9.8e-5	0	0
33	SO1	PX	.000407	.000407	0	0
34	SO2	PX	.000407	.000407	0	0
35	SO3	PX	.000407	.000407	0	0
36	SUPPORT1	PX	.001	.001	0	0
37	SUPPORT2	PX	.001	.001	0	0
38	M76	PX	.000556	.000556	0	0
39	M77	PX	.000556	.000556	0	0
40	M78	PX	.000556	.000556	0	0

Member Distributed Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.000391	-.000391	0	0
2	CONNANGLE2	PY	-.000391	-.000391	0	0
3	CONNANGLE3	PY	-.000391	-.000391	0	0
4	CORNER1	PY	-.000651	-.000651	0	0
5	CORNER2	PY	-.000651	-.000651	0	0
6	CORNER3	PY	-.000651	-.000651	0	0
7	FACE3,1	PY	-.000651	-.000651	0	0
8	FACE3,2	PY	-.000651	-.000651	0	0

Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
9	FACE2,1	PY	-.000651	-.000651	0	0
10	FACE2,2	PY	-.000651	-.000651	0	0
11	FACE1,1	PY	-.000651	-.000651	0	0
12	FACE1,2	PY	-.000651	-.000651	0	0
13	LADDER1	PY	-.000228	-.000228	0	0
14	LADDER2	PY	-.000228	-.000228	0	0
15	LADDERPLATE1	PY	-.000521	-.000521	0	0
16	LADDERPLATE2	PY	-.000521	-.000521	0	0
17	MP ALPHA1	PY	-.000278	-.000278	0	0
18	MP ALPHA2	PY	-.000278	-.000278	0	0
19	MP ALPHA3	PY	-.000278	-.000278	0	0
20	MP BETA1	PY	-.000278	-.000278	0	0
21	MP BETA2	PY	-.000278	-.000278	0	0
22	MP BETA3	PY	-.000278	-.000278	0	0
23	MP GAMMA1	PY	-.000278	-.000278	0	0
24	MP GAMMA2	PY	-.000278	-.000278	0	0
25	MP GAMMA3	PY	-.000278	-.000278	0	0
26	RUNG1	PY	-4.9e-5	-4.9e-5	0	0
27	RUNG2	PY	-4.9e-5	-4.9e-5	0	0
28	RUNG3	PY	-4.9e-5	-4.9e-5	0	0
29	RUNG4	PY	-4.9e-5	-4.9e-5	0	0
30	RUNG5	PY	-4.9e-5	-4.9e-5	0	0
31	RUNG6	PY	-4.9e-5	-4.9e-5	0	0
32	RUNG7	PY	-4.9e-5	-4.9e-5	0	0
33	SO1	PY	-.000204	-.000204	0	0
34	SO2	PY	-.000204	-.000204	0	0
35	SO3	PY	-.000204	-.000204	0	0
36	SUPPORT1	PY	-.000651	-.000651	0	0
37	SUPPORT2	PY	-.000651	-.000651	0	0
38	CONNANGLE1	PX	.000677	.000677	0	0
39	CONNANGLE2	PX	.000677	.000677	0	0
40	CONNANGLE3	PX	.000677	.000677	0	0
41	CORNER1	PX	.001	.001	0	0
42	CORNER2	PX	.001	.001	0	0
43	CORNER3	PX	.001	.001	0	0
44	FACE3,1	PX	.001	.001	0	0
45	FACE3,2	PX	.001	.001	0	0
46	FACE2,1	PX	.001	.001	0	0
47	FACE2,2	PX	.001	.001	0	0
48	FACE1,1	PX	.001	.001	0	0
49	FACE1,2	PX	.001	.001	0	0
50	LADDER1	PX	.000395	.000395	0	0
51	LADDER2	PX	.000395	.000395	0	0
52	LADDERPLATE1	PX	.000902	.000902	0	0
53	LADDERPLATE2	PX	.000902	.000902	0	0
54	MP ALPHA1	PX	.000481	.000481	0	0
55	MP ALPHA2	PX	.000481	.000481	0	0
56	MP ALPHA3	PX	.000481	.000481	0	0
57	MP BETA1	PX	.000481	.000481	0	0
58	MP BETA2	PX	.000481	.000481	0	0
59	MP BETA3	PX	.000481	.000481	0	0
60	MP GAMMA1	PX	.000481	.000481	0	0
61	MP GAMMA2	PX	.000481	.000481	0	0
62	MP GAMMA3	PX	.000481	.000481	0	0
63	RUNG1	PX	8.5e-5	8.5e-5	0	0
64	RUNG2	PX	8.5e-5	8.5e-5	0	0
65	RUNG3	PX	8.5e-5	8.5e-5	0	0

Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
66	RUNG4	PX	8.5e-5	8.5e-5	0	0
67	RUNG5	PX	8.5e-5	8.5e-5	0	0
68	RUNG6	PX	8.5e-5	8.5e-5	0	0
69	RUNG7	PX	8.5e-5	8.5e-5	0	0
70	SO1	PX	.000353	.000353	0	0
71	SO2	PX	.000353	.000353	0	0
72	SO3	PX	.000353	.000353	0	0
73	SUPPORT1	PX	.001	.001	0	0
74	SUPPORT2	PX	.001	.001	0	0
75	M76	PY	-.000278	-.000278	0	0
76	M76	PX	.000481	.000481	0	0
77	M77	PY	-.000278	-.000278	0	0
78	M77	PX	.000481	.000481	0	0
79	M78	PY	-.000278	-.000278	0	0
80	M78	PX	.000481	.000481	0	0

Member Distributed Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.000677	-.000677	0	0
2	CONNANGLE2	PY	-.000677	-.000677	0	0
3	CONNANGLE3	PY	-.000677	-.000677	0	0
4	CORNER1	PY	-.001	-.001	0	0
5	CORNER2	PY	-.001	-.001	0	0
6	CORNER3	PY	-.001	-.001	0	0
7	FACE1,1	PY	-.001	-.001	0	0
8	FACE1,2	PY	-.001	-.001	0	0
9	FACE2,1	PY	-.001	-.001	0	0
10	FACE2,2	PY	-.001	-.001	0	0
11	FACE3,1	PY	-.001	-.001	0	0
12	FACE3,2	PY	-.001	-.001	0	0
13	LADDER1	PY	-.000395	-.000395	0	0
14	LADDER2	PY	-.000395	-.000395	0	0
15	LADDERPLATE1	PY	-.000902	-.000902	0	0
16	LADDERPLATE2	PY	-.000902	-.000902	0	0
17	MP ALPHA1	PY	-.000481	-.000481	0	0
18	MP ALPHA2	PY	-.000481	-.000481	0	0
19	MP ALPHA3	PY	-.000481	-.000481	0	0
20	MP BETA1	PY	-.000481	-.000481	0	0
21	MP BETA2	PY	-.000481	-.000481	0	0
22	MP BETA3	PY	-.000481	-.000481	0	0
23	MP GAMMA1	PY	-.000481	-.000481	0	0
24	MP GAMMA2	PY	-.000481	-.000481	0	0
25	MP GAMMA3	PY	-.000481	-.000481	0	0
26	RUNG1	PY	-8.5e-5	-8.5e-5	0	0
27	RUNG2	PY	-8.5e-5	-8.5e-5	0	0
28	RUNG3	PY	-8.5e-5	-8.5e-5	0	0
29	RUNG4	PY	-8.5e-5	-8.5e-5	0	0
30	RUNG5	PY	-8.5e-5	-8.5e-5	0	0
31	RUNG6	PY	-8.5e-5	-8.5e-5	0	0
32	RUNG7	PY	-8.5e-5	-8.5e-5	0	0
33	SO1	PY	-.000353	-.000353	0	0
34	SO2	PY	-.000353	-.000353	0	0
35	SO3	PY	-.000353	-.000353	0	0
36	SUPPORT1	PY	-.001	-.001	0	0
37	SUPPORT2	PY	-.001	-.001	0	0
38	CONNANGLE1	PX	.000391	.000391	0	0

Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
39	CONNANGLE2	PX	.000391	.000391	0	0
40	CONNANGLE3	PX	.000391	.000391	0	0
41	CORNER1	PX	.000651	.000651	0	0
42	CORNER2	PX	.000651	.000651	0	0
43	CORNER3	PX	.000651	.000651	0	0
44	FACE1,1	PX	.000651	.000651	0	0
45	FACE1,2	PX	.000651	.000651	0	0
46	FACE2,1	PX	.000651	.000651	0	0
47	FACE2,2	PX	.000651	.000651	0	0
48	FACE3,1	PX	.000651	.000651	0	0
49	FACE3,2	PX	.000651	.000651	0	0
50	LADDER1	PX	.000228	.000228	0	0
51	LADDER2	PX	.000228	.000228	0	0
52	LADDERPLATE1	PX	.000521	.000521	0	0
53	LADDERPLATE2	PX	.000521	.000521	0	0
54	MP ALPHA1	PX	.000278	.000278	0	0
55	MP ALPHA2	PX	.000278	.000278	0	0
56	MP ALPHA3	PX	.000278	.000278	0	0
57	MP BETA1	PX	.000278	.000278	0	0
58	MP BETA2	PX	.000278	.000278	0	0
59	MP BETA3	PX	.000278	.000278	0	0
60	MP GAMMA1	PX	.000278	.000278	0	0
61	MP GAMMA2	PX	.000278	.000278	0	0
62	MP GAMMA3	PX	.000278	.000278	0	0
63	RUNG1	PX	4.9e-5	4.9e-5	0	0
64	RUNG2	PX	4.9e-5	4.9e-5	0	0
65	RUNG3	PX	4.9e-5	4.9e-5	0	0
66	RUNG4	PX	4.9e-5	4.9e-5	0	0
67	RUNG5	PX	4.9e-5	4.9e-5	0	0
68	RUNG6	PX	4.9e-5	4.9e-5	0	0
69	RUNG7	PX	4.9e-5	4.9e-5	0	0
70	SO1	PX	.000204	.000204	0	0
71	SO2	PX	.000204	.000204	0	0
72	SO3	PX	.000204	.000204	0	0
73	SUPPORT1	PX	.000651	.000651	0	0
74	SUPPORT2	PX	.000651	.000651	0	0
75	M76	PY	-.000481	-.000481	0	0
76	M76	PX	.000278	.000278	0	0
77	M77	PY	-.000481	-.000481	0	0
78	M77	PX	.000278	.000278	0	0
79	M78	PY	-.000481	-.000481	0	0
80	M78	PX	.000278	.000278	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	Z	-.008	-.008	0	0
2	CONNANGLE2	Z	-.008	-.008	0	0
3	CONNANGLE3	Z	-.008	-.008	0	0
4	CORNER1	Z	-.011	-.011	0	0
5	CORNER2	Z	-.011	-.011	0	0
6	CORNER3	Z	-.011	-.011	0	0
7	FACE1,1	Z	-.011	-.011	0	0
8	FACE1,2	Z	-.011	-.011	0	0
9	FACE2,1	Z	-.011	-.011	0	0
10	FACE2,2	Z	-.011	-.011	0	0
11	FACE3,1	Z	-.011	-.011	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	FACE3,2	Z	-.011	-.011	0	0
13	LADDER1	Z	-.006	-.006	0	0
14	LADDER2	Z	-.006	-.006	0	0
15	LADDERPLATE1	Z	-.006	-.006	0	0
16	LADDERPLATE2	Z	-.006	-.006	0	0
17	MP ALPHA1	Z	-.005	-.005	0	0
18	MP ALPHA2	Z	-.005	-.005	0	0
19	MP ALPHA3	Z	-.005	-.005	0	0
20	MP BETA1	Z	-.005	-.005	0	0
21	MP BETA2	Z	-.005	-.005	0	0
22	MP BETA3	Z	-.005	-.005	0	0
23	MP GAMMA1	Z	-.005	-.005	0	0
24	MP GAMMA2	Z	-.005	-.005	0	0
25	MP GAMMA3	Z	-.005	-.005	0	0
26	RUNG1	Z	-.003	-.003	0	0
27	RUNG2	Z	-.003	-.003	0	0
28	RUNG3	Z	-.003	-.003	0	0
29	RUNG4	Z	-.003	-.003	0	0
30	RUNG5	Z	-.003	-.003	0	0
31	RUNG6	Z	-.003	-.003	0	0
32	RUNG7	Z	-.003	-.003	0	0
33	SO1	Z	-.007	-.007	0	0
34	SO2	Z	-.007	-.007	0	0
35	SO3	Z	-.007	-.007	0	0
36	SUPPORT1	Z	-.011	-.011	0	0
37	SUPPORT2	Z	-.011	-.011	0	0
38	M76	Z	-.005	-.005	0	0
39	M77	Z	-.005	-.005	0	0
40	M78	Z	-.005	-.005	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.004	-.004	0	0
2	CONNANGLE2	PY	-.004	-.004	0	0
3	CONNANGLE3	PY	-.004	-.004	0	0
4	CORNER1	PY	-.005	-.005	0	0
5	CORNER2	PY	-.005	-.005	0	0
6	CORNER3	PY	-.005	-.005	0	0
7	FACE1,1	PY	-.005	-.005	0	0
8	FACE1,2	PY	-.005	-.005	0	0
9	FACE2,1	PY	-.005	-.005	0	0
10	FACE2,2	PY	-.005	-.005	0	0
11	FACE3,1	PY	-.005	-.005	0	0
12	FACE3,2	PY	-.005	-.005	0	0
13	LADDER1	PY	-.003	-.003	0	0
14	LADDER2	PY	-.003	-.003	0	0
15	LADDERPLATE1	PY	-.005	-.005	0	0
16	LADDERPLATE2	PY	-.005	-.005	0	0
17	MP ALPHA1	PY	-.003	-.003	0	0
18	MP ALPHA2	PY	-.003	-.003	0	0
19	MP ALPHA3	PY	-.003	-.003	0	0
20	MP BETA1	PY	-.003	-.003	0	0
21	MP BETA2	PY	-.003	-.003	0	0
22	MP BETA3	PY	-.003	-.003	0	0
23	MP GAMMA1	PY	-.003	-.003	0	0
24	MP GAMMA2	PY	-.003	-.003	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
25	MP GAMMA3	PY	-.003	-.003	0	0
26	RUNG1	PY	-.001	-.001	0	0
27	RUNG2	PY	-.001	-.001	0	0
28	RUNG3	PY	-.001	-.001	0	0
29	RUNG4	PY	-.001	-.001	0	0
30	RUNG5	PY	-.001	-.001	0	0
31	RUNG6	PY	-.001	-.001	0	0
32	RUNG7	PY	-.001	-.001	0	0
33	SO1	PY	-.002	-.002	0	0
34	SO2	PY	-.002	-.002	0	0
35	SO3	PY	-.002	-.002	0	0
36	SUPPORT1	PY	-.005	-.005	0	0
37	SUPPORT2	PY	-.005	-.005	0	0
38	M76	PY	-.003	-.003	0	0
39	M77	PY	-.003	-.003	0	0
40	M78	PY	-.003	-.003	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.003	-.003	0	0
2	CONNANGLE2	PY	-.003	-.003	0	0
3	CONNANGLE3	PY	-.003	-.003	0	0
4	CORNER1	PY	-.005	-.005	0	0
5	CORNER2	PY	-.005	-.005	0	0
6	CORNER3	PY	-.005	-.005	0	0
7	FACE1,1	PY	-.005	-.005	0	0
8	FACE1,2	PY	-.005	-.005	0	0
9	FACE2,1	PY	-.005	-.005	0	0
10	FACE2,2	PY	-.005	-.005	0	0
11	FACE3,1	PY	-.005	-.005	0	0
12	FACE3,2	PY	-.005	-.005	0	0
13	LADDER1	PY	-.003	-.003	0	0
14	LADDER2	PY	-.003	-.003	0	0
15	LADDERPLATE1	PY	-.004	-.004	0	0
16	LADDERPLATE2	PY	-.004	-.004	0	0
17	MP ALPHA1	PY	-.003	-.003	0	0
18	MP ALPHA2	PY	-.003	-.003	0	0
19	MP ALPHA3	PY	-.003	-.003	0	0
20	MP BETA1	PY	-.003	-.003	0	0
21	MP BETA2	PY	-.003	-.003	0	0
22	MP BETA3	PY	-.003	-.003	0	0
23	MP GAMMA1	PY	-.003	-.003	0	0
24	MP GAMMA2	PY	-.003	-.003	0	0
25	MP GAMMA3	PY	-.003	-.003	0	0
26	RUNG1	PY	-.001	-.001	0	0
27	RUNG2	PY	-.001	-.001	0	0
28	RUNG3	PY	-.001	-.001	0	0
29	RUNG4	PY	-.001	-.001	0	0
30	RUNG5	PY	-.001	-.001	0	0
31	RUNG6	PY	-.001	-.001	0	0
32	RUNG7	PY	-.001	-.001	0	0
33	SO1	PY	-.002	-.002	0	0
34	SO2	PY	-.002	-.002	0	0
35	SO3	PY	-.002	-.002	0	0
36	SUPPORT1	PY	-.005	-.005	0	0
37	SUPPORT2	PY	-.005	-.005	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	CONNANGLE1	PX	-.002	-.002	0	0
39	CONNANGLE2	PX	-.002	-.002	0	0
40	CONNANGLE3	PX	-.002	-.002	0	0
41	CORNER1	PX	-.003	-.003	0	0
42	CORNER2	PX	-.003	-.003	0	0
43	CORNER3	PX	-.003	-.003	0	0
44	FACE1,1	PX	-.003	-.003	0	0
45	FACE1,2	PX	-.003	-.003	0	0
46	FACE2,1	PX	-.003	-.003	0	0
47	FACE2,2	PX	-.003	-.003	0	0
48	FACE3,1	PX	-.003	-.003	0	0
49	FACE3,2	PX	-.003	-.003	0	0
50	LADDER1	PX	-.002	-.002	0	0
51	LADDER2	PX	-.002	-.002	0	0
52	LADDERPLATE1	PX	-.002	-.002	0	0
53	LADDERPLATE2	PX	-.002	-.002	0	0
54	MP ALPHA1	PX	-.002	-.002	0	0
55	MP ALPHA2	PX	-.002	-.002	0	0
56	MP ALPHA3	PX	-.002	-.002	0	0
57	MP BETA1	PX	-.002	-.002	0	0
58	MP BETA2	PX	-.002	-.002	0	0
59	MP BETA3	PX	-.002	-.002	0	0
60	MP GAMMA1	PX	-.002	-.002	0	0
61	MP GAMMA2	PX	-.002	-.002	0	0
62	MP GAMMA3	PX	-.002	-.002	0	0
63	RUNG1	PX	-.000657	-.000657	0	0
64	RUNG2	PX	-.000657	-.000657	0	0
65	RUNG3	PX	-.000657	-.000657	0	0
66	RUNG4	PX	-.000657	-.000657	0	0
67	RUNG5	PX	-.000657	-.000657	0	0
68	RUNG6	PX	-.000657	-.000657	0	0
69	RUNG7	PX	-.000657	-.000657	0	0
70	SO1	PX	-.001	-.001	0	0
71	SO2	PX	-.001	-.001	0	0
72	SO3	PX	-.001	-.001	0	0
73	SUPPORT1	PX	-.003	-.003	0	0
74	SUPPORT2	PX	-.003	-.003	0	0
75	M76	PY	-.003	-.003	0	0
76	M76	PX	-.002	-.002	0	0
77	M77	PY	-.003	-.003	0	0
78	M77	PX	-.002	-.002	0	0
79	M78	PY	-.003	-.003	0	0
80	M78	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.002	-.002	0	0
2	CONNANGLE2	PY	-.002	-.002	0	0
3	CONNANGLE3	PY	-.002	-.002	0	0
4	CORNER1	PY	-.003	-.003	0	0
5	CORNER2	PY	-.003	-.003	0	0
6	CORNER3	PY	-.003	-.003	0	0
7	FACE1,1	PY	-.003	-.003	0	0
8	FACE1,2	PY	-.003	-.003	0	0
9	FACE2,1	PY	-.003	-.003	0	0
10	FACE2,2	PY	-.003	-.003	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	FACE3,1	PY	-.003	-.003	0	0
12	FACE3,2	PY	-.003	-.003	0	0
13	LADDER1	PY	-.002	-.002	0	0
14	LADDER2	PY	-.002	-.002	0	0
15	LADDERPLATE1	PY	-.002	-.002	0	0
16	LADDERPLATE2	PY	-.002	-.002	0	0
17	MP ALPHA1	PY	-.002	-.002	0	0
18	MP ALPHA2	PY	-.002	-.002	0	0
19	MP ALPHA3	PY	-.002	-.002	0	0
20	MP BETA1	PY	-.002	-.002	0	0
21	MP BETA2	PY	-.002	-.002	0	0
22	MP BETA3	PY	-.002	-.002	0	0
23	MP GAMMA1	PY	-.002	-.002	0	0
24	MP GAMMA2	PY	-.002	-.002	0	0
25	MP GAMMA3	PY	-.002	-.002	0	0
26	RUNG1	PY	-.000657	-.000657	0	0
27	RUNG2	PY	-.000657	-.000657	0	0
28	RUNG3	PY	-.000657	-.000657	0	0
29	RUNG4	PY	-.000657	-.000657	0	0
30	RUNG5	PY	-.000657	-.000657	0	0
31	RUNG6	PY	-.000657	-.000657	0	0
32	RUNG7	PY	-.000657	-.000657	0	0
33	SO1	PY	-.001	-.001	0	0
34	SO2	PY	-.001	-.001	0	0
35	SO3	PY	-.001	-.001	0	0
36	SUPPORT1	PY	-.003	-.003	0	0
37	SUPPORT2	PY	-.003	-.003	0	0
38	CONNANGLE1	PX	-.003	-.003	0	0
39	CONNANGLE2	PX	-.003	-.003	0	0
40	CONNANGLE3	PX	-.003	-.003	0	0
41	CORNER1	PX	-.005	-.005	0	0
42	CORNER2	PX	-.005	-.005	0	0
43	CORNER3	PX	-.005	-.005	0	0
44	FACE1,1	PX	-.005	-.005	0	0
45	FACE1,2	PX	-.005	-.005	0	0
46	FACE2,1	PX	-.005	-.005	0	0
47	FACE2,2	PX	-.005	-.005	0	0
48	FACE3,1	PX	-.005	-.005	0	0
49	FACE3,2	PX	-.005	-.005	0	0
50	LADDER1	PX	-.003	-.003	0	0
51	LADDER2	PX	-.003	-.003	0	0
52	LADDERPLATE1	PX	-.004	-.004	0	0
53	LADDERPLATE2	PX	-.004	-.004	0	0
54	MP ALPHA1	PX	-.003	-.003	0	0
55	MP ALPHA2	PX	-.003	-.003	0	0
56	MP ALPHA3	PX	-.003	-.003	0	0
57	MP BETA1	PX	-.003	-.003	0	0
58	MP BETA2	PX	-.003	-.003	0	0
59	MP BETA3	PX	-.003	-.003	0	0
60	MP GAMMA1	PX	-.003	-.003	0	0
61	MP GAMMA2	PX	-.003	-.003	0	0
62	MP GAMMA3	PX	-.003	-.003	0	0
63	RUNG1	PX	-.001	-.001	0	0
64	RUNG2	PX	-.001	-.001	0	0
65	RUNG3	PX	-.001	-.001	0	0
66	RUNG4	PX	-.001	-.001	0	0
67	RUNG5	PX	-.001	-.001	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
68	RUNG6	PX	-.001	-.001	0	0
69	RUNG7	PX	-.001	-.001	0	0
70	SO1	PX	-.002	-.002	0	0
71	SO2	PX	-.002	-.002	0	0
72	SO3	PX	-.002	-.002	0	0
73	SUPPORT1	PX	-.005	-.005	0	0
74	SUPPORT2	PX	-.005	-.005	0	0
75	M76	PY	-.002	-.002	0	0
76	M76	PX	-.003	-.003	0	0
77	M77	PY	-.002	-.002	0	0
78	M77	PX	-.003	-.003	0	0
79	M78	PY	-.002	-.002	0	0
80	M78	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PX	-.004	-.004	0	0
2	CONNANGLE2	PX	-.004	-.004	0	0
3	CONNANGLE3	PX	-.004	-.004	0	0
4	CORNER1	PX	-.005	-.005	0	0
5	CORNER2	PX	-.005	-.005	0	0
6	CORNER3	PX	-.005	-.005	0	0
7	FACE2,1	PX	-.005	-.005	0	0
8	FACE2,2	PX	-.005	-.005	0	0
9	FACE1,1	PX	-.005	-.005	0	0
10	FACE1,2	PX	-.005	-.005	0	0
11	FACE3,1	PX	-.005	-.005	0	0
12	FACE3,2	PX	-.005	-.005	0	0
13	LADDER1	PX	-.003	-.003	0	0
14	LADDER2	PX	-.003	-.003	0	0
15	LADDERPLATE1	PX	-.005	-.005	0	0
16	LADDERPLATE2	PX	-.005	-.005	0	0
17	MP ALPHA1	PX	-.003	-.003	0	0
18	MP ALPHA2	PX	-.003	-.003	0	0
19	MP ALPHA3	PX	-.003	-.003	0	0
20	MP BETA1	PX	-.003	-.003	0	0
21	MP BETA2	PX	-.003	-.003	0	0
22	MP BETA3	PX	-.003	-.003	0	0
23	MP GAMMA1	PX	-.003	-.003	0	0
24	MP GAMMA2	PX	-.003	-.003	0	0
25	MP GAMMA3	PX	-.003	-.003	0	0
26	RUNG1	PX	-.001	-.001	0	0
27	RUNG2	PX	-.001	-.001	0	0
28	RUNG3	PX	-.001	-.001	0	0
29	RUNG4	PX	-.001	-.001	0	0
30	RUNG5	PX	-.001	-.001	0	0
31	RUNG6	PX	-.001	-.001	0	0
32	RUNG7	PX	-.001	-.001	0	0
33	SO1	PX	-.002	-.002	0	0
34	SO2	PX	-.002	-.002	0	0
35	SO3	PX	-.002	-.002	0	0
36	SUPPORT1	PX	-.005	-.005	0	0
37	SUPPORT2	PX	-.005	-.005	0	0
38	M76	PX	-.003	-.003	0	0
39	M77	PX	-.003	-.003	0	0
40	M78	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.002	.002	0	0
2	CONNANGLE2	PY	.002	.002	0	0
3	CONNANGLE3	PY	.002	.002	0	0
4	CORNER1	PY	.003	.003	0	0
5	CORNER2	PY	.003	.003	0	0
6	CORNER3	PY	.003	.003	0	0
7	FACE2,1	PY	.003	.003	0	0
8	FACE2,2	PY	.003	.003	0	0
9	FACE1,1	PY	.003	.003	0	0
10	FACE1,2	PY	.003	.003	0	0
11	FACE3,1	PY	.003	.003	0	0
12	FACE3,2	PY	.003	.003	0	0
13	LADDER1	PY	.002	.002	0	0
14	LADDER2	PY	.002	.002	0	0
15	LADDERPLATE1	PY	.002	.002	0	0
16	LADDERPLATE2	PY	.002	.002	0	0
17	MP ALPHA1	PY	.002	.002	0	0
18	MP ALPHA2	PY	.002	.002	0	0
19	MP ALPHA3	PY	.002	.002	0	0
20	MP BETA1	PY	.002	.002	0	0
21	MP BETA2	PY	.002	.002	0	0
22	MP BETA3	PY	.002	.002	0	0
23	MP GAMMA1	PY	.002	.002	0	0
24	MP GAMMA2	PY	.002	.002	0	0
25	MP GAMMA3	PY	.002	.002	0	0
26	RUNG1	PY	.000657	.000657	0	0
27	RUNG2	PY	.000657	.000657	0	0
28	RUNG3	PY	.000657	.000657	0	0
29	RUNG4	PY	.000657	.000657	0	0
30	RUNG5	PY	.000657	.000657	0	0
31	RUNG6	PY	.000657	.000657	0	0
32	RUNG7	PY	.000657	.000657	0	0
33	SO1	PY	.001	.001	0	0
34	SO2	PY	.001	.001	0	0
35	SO3	PY	.001	.001	0	0
36	SUPPORT1	PY	.003	.003	0	0
37	SUPPORT2	PY	.003	.003	0	0
38	CONNANGLE1	PX	-.003	-.003	0	0
39	CONNANGLE2	PX	-.003	-.003	0	0
40	CONNANGLE3	PX	-.003	-.003	0	0
41	CORNER1	PX	-.005	-.005	0	0
42	CORNER2	PX	-.005	-.005	0	0
43	CORNER3	PX	-.005	-.005	0	0
44	FACE2,1	PX	-.005	-.005	0	0
45	FACE2,2	PX	-.005	-.005	0	0
46	FACE1,1	PX	-.005	-.005	0	0
47	FACE1,2	PX	-.005	-.005	0	0
48	FACE3,1	PX	-.005	-.005	0	0
49	FACE3,2	PX	-.005	-.005	0	0
50	LADDER1	PX	-.003	-.003	0	0
51	LADDER2	PX	-.003	-.003	0	0
52	LADDERPLATE1	PX	-.004	-.004	0	0
53	LADDERPLATE2	PX	-.004	-.004	0	0
54	MP ALPHA1	PX	-.003	-.003	0	0
55	MP ALPHA2	PX	-.003	-.003	0	0
56	MP ALPHA3	PX	-.003	-.003	0	0
57	MP BETA1	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP BETA2	PX	-.003	-.003	0	0
59	MP BETA3	PX	-.003	-.003	0	0
60	MP GAMMA1	PX	-.003	-.003	0	0
61	MP GAMMA2	PX	-.003	-.003	0	0
62	MP GAMMA3	PX	-.003	-.003	0	0
63	RUNG1	PX	-.001	-.001	0	0
64	RUNG2	PX	-.001	-.001	0	0
65	RUNG3	PX	-.001	-.001	0	0
66	RUNG4	PX	-.001	-.001	0	0
67	RUNG5	PX	-.001	-.001	0	0
68	RUNG6	PX	-.001	-.001	0	0
69	RUNG7	PX	-.001	-.001	0	0
70	SO1	PX	-.002	-.002	0	0
71	SO2	PX	-.002	-.002	0	0
72	SO3	PX	-.002	-.002	0	0
73	SUPPORT1	PX	-.005	-.005	0	0
74	SUPPORT2	PX	-.005	-.005	0	0
75	M76	PY	.002	.002	0	0
76	M76	PX	-.003	-.003	0	0
77	M77	PY	.002	.002	0	0
78	M77	PX	-.003	-.003	0	0
79	M78	PY	.002	.002	0	0
80	M78	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.003	.003	0	0
2	CONNANGLE2	PY	.003	.003	0	0
3	CONNANGLE3	PY	.003	.003	0	0
4	CORNER1	PY	.005	.005	0	0
5	CORNER2	PY	.005	.005	0	0
6	CORNER3	PY	.005	.005	0	0
7	FACE2,1	PY	.005	.005	0	0
8	FACE2,2	PY	.005	.005	0	0
9	FACE1,1	PY	.005	.005	0	0
10	FACE1,2	PY	.005	.005	0	0
11	FACE3,1	PY	.005	.005	0	0
12	FACE3,2	PY	.005	.005	0	0
13	LADDER1	PY	.003	.003	0	0
14	LADDER2	PY	.003	.003	0	0
15	LADDERPLATE1	PY	.004	.004	0	0
16	LADDERPLATE2	PY	.004	.004	0	0
17	MP ALPHA1	PY	.003	.003	0	0
18	MP ALPHA2	PY	.003	.003	0	0
19	MP ALPHA3	PY	.003	.003	0	0
20	MP BETA1	PY	.003	.003	0	0
21	MP BETA2	PY	.003	.003	0	0
22	MP BETA3	PY	.003	.003	0	0
23	MP GAMMA1	PY	.003	.003	0	0
24	MP GAMMA2	PY	.003	.003	0	0
25	MP GAMMA3	PY	.003	.003	0	0
26	RUNG1	PY	.001	.001	0	0
27	RUNG2	PY	.001	.001	0	0
28	RUNG3	PY	.001	.001	0	0
29	RUNG4	PY	.001	.001	0	0
30	RUNG5	PY	.001	.001	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	RUNG6	PY	.001	.001	0	0
32	RUNG7	PY	.001	.001	0	0
33	SO1	PY	.002	.002	0	0
34	SO2	PY	.002	.002	0	0
35	SO3	PY	.002	.002	0	0
36	SUPPORT1	PY	.005	.005	0	0
37	SUPPORT2	PY	.005	.005	0	0
38	CONNANGLE1	PX	-.002	-.002	0	0
39	CONNANGLE2	PX	-.002	-.002	0	0
40	CONNANGLE3	PX	-.002	-.002	0	0
41	CORNER1	PX	-.003	-.003	0	0
42	CORNER2	PX	-.003	-.003	0	0
43	CORNER3	PX	-.003	-.003	0	0
44	FACE2,1	PX	-.003	-.003	0	0
45	FACE2,2	PX	-.003	-.003	0	0
46	FACE1,1	PX	-.003	-.003	0	0
47	FACE1,2	PX	-.003	-.003	0	0
48	FACE3,1	PX	-.003	-.003	0	0
49	FACE3,2	PX	-.003	-.003	0	0
50	LADDER1	PX	-.002	-.002	0	0
51	LADDER2	PX	-.002	-.002	0	0
52	LADDERPLATE1	PX	-.002	-.002	0	0
53	LADDERPLATE2	PX	-.002	-.002	0	0
54	MP ALPHA1	PX	-.002	-.002	0	0
55	MP ALPHA2	PX	-.002	-.002	0	0
56	MP ALPHA3	PX	-.002	-.002	0	0
57	MP BETA1	PX	-.002	-.002	0	0
58	MP BETA2	PX	-.002	-.002	0	0
59	MP BETA3	PX	-.002	-.002	0	0
60	MP GAMMA1	PX	-.002	-.002	0	0
61	MP GAMMA2	PX	-.002	-.002	0	0
62	MP GAMMA3	PX	-.002	-.002	0	0
63	RUNG1	PX	-.000657	-.000657	0	0
64	RUNG2	PX	-.000657	-.000657	0	0
65	RUNG3	PX	-.000657	-.000657	0	0
66	RUNG4	PX	-.000657	-.000657	0	0
67	RUNG5	PX	-.000657	-.000657	0	0
68	RUNG6	PX	-.000657	-.000657	0	0
69	RUNG7	PX	-.000657	-.000657	0	0
70	SO1	PX	-.001	-.001	0	0
71	SO2	PX	-.001	-.001	0	0
72	SO3	PX	-.001	-.001	0	0
73	SUPPORT1	PX	-.003	-.003	0	0
74	SUPPORT2	PX	-.003	-.003	0	0
75	M76	PY	.003	.003	0	0
76	M76	PX	-.002	-.002	0	0
77	M77	PY	.003	.003	0	0
78	M77	PX	-.002	-.002	0	0
79	M78	PY	.003	.003	0	0
80	M78	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.004	.004	0	0
2	CONNANGLE2	PY	.004	.004	0	0
3	CONNANGLE3	PY	.004	.004	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	CORNER1	PY	.005	.005	0	0
5	CORNER2	PY	.005	.005	0	0
6	CORNER3	PY	.005	.005	0	0
7	FACE2,1	PY	.005	.005	0	0
8	FACE2,2	PY	.005	.005	0	0
9	FACE1,1	PY	.005	.005	0	0
10	FACE1,2	PY	.005	.005	0	0
11	FACE3,1	PY	.005	.005	0	0
12	FACE3,2	PY	.005	.005	0	0
13	LADDER1	PY	.003	.003	0	0
14	LADDER2	PY	.003	.003	0	0
15	LADDERPLATE1	PY	.005	.005	0	0
16	LADDERPLATE2	PY	.005	.005	0	0
17	MP ALPHA1	PY	.003	.003	0	0
18	MP ALPHA2	PY	.003	.003	0	0
19	MP ALPHA3	PY	.003	.003	0	0
20	MP BETA1	PY	.003	.003	0	0
21	MP BETA2	PY	.003	.003	0	0
22	MP BETA3	PY	.003	.003	0	0
23	MP GAMMA1	PY	.003	.003	0	0
24	MP GAMMA2	PY	.003	.003	0	0
25	MP GAMMA3	PY	.003	.003	0	0
26	RUNG1	PY	.001	.001	0	0
27	RUNG2	PY	.001	.001	0	0
28	RUNG3	PY	.001	.001	0	0
29	RUNG4	PY	.001	.001	0	0
30	RUNG5	PY	.001	.001	0	0
31	RUNG6	PY	.001	.001	0	0
32	RUNG7	PY	.001	.001	0	0
33	SO1	PY	.002	.002	0	0
34	SO2	PY	.002	.002	0	0
35	SO3	PY	.002	.002	0	0
36	SUPPORT1	PY	.005	.005	0	0
37	SUPPORT2	PY	.005	.005	0	0
38	M76	PY	.003	.003	0	0
39	M77	PY	.003	.003	0	0
40	M78	PY	.003	.003	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.003	.003	0	0
2	CONNANGLE2	PY	.003	.003	0	0
3	CONNANGLE3	PY	.003	.003	0	0
4	CORNER1	PY	.005	.005	0	0
5	CORNER2	PY	.005	.005	0	0
6	CORNER3	PY	.005	.005	0	0
7	FACE3,1	PY	.005	.005	0	0
8	FACE3,2	PY	.005	.005	0	0
9	FACE2,1	PY	.005	.005	0	0
10	FACE2,2	PY	.005	.005	0	0
11	FACE1,1	PY	.005	.005	0	0
12	FACE1,2	PY	.005	.005	0	0
13	LADDER1	PY	.003	.003	0	0
14	LADDER2	PY	.003	.003	0	0
15	LADDERPLATE1	PY	.004	.004	0	0
16	LADDERPLATE2	PY	.004	.004	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	MP ALPHA1	PY	.003	.003	0	0
18	MP ALPHA2	PY	.003	.003	0	0
19	MP ALPHA3	PY	.003	.003	0	0
20	MP BETA1	PY	.003	.003	0	0
21	MP BETA2	PY	.003	.003	0	0
22	MP BETA3	PY	.003	.003	0	0
23	MP GAMMA1	PY	.003	.003	0	0
24	MP GAMMA2	PY	.003	.003	0	0
25	MP GAMMA3	PY	.003	.003	0	0
26	RUNG1	PY	.001	.001	0	0
27	RUNG2	PY	.001	.001	0	0
28	RUNG3	PY	.001	.001	0	0
29	RUNG4	PY	.001	.001	0	0
30	RUNG5	PY	.001	.001	0	0
31	RUNG6	PY	.001	.001	0	0
32	RUNG7	PY	.001	.001	0	0
33	SO1	PY	.002	.002	0	0
34	SO2	PY	.002	.002	0	0
35	SO3	PY	.002	.002	0	0
36	SUPPORT1	PY	.005	.005	0	0
37	SUPPORT2	PY	.005	.005	0	0
38	CONNANGLE1	PX	.002	.002	0	0
39	CONNANGLE2	PX	.002	.002	0	0
40	CONNANGLE3	PX	.002	.002	0	0
41	CORNER1	PX	.003	.003	0	0
42	CORNER2	PX	.003	.003	0	0
43	CORNER3	PX	.003	.003	0	0
44	FACE3,1	PX	.003	.003	0	0
45	FACE3,2	PX	.003	.003	0	0
46	FACE2,1	PX	.003	.003	0	0
47	FACE2,2	PX	.003	.003	0	0
48	FACE1,1	PX	.003	.003	0	0
49	FACE1,2	PX	.003	.003	0	0
50	LADDER1	PX	.002	.002	0	0
51	LADDER2	PX	.002	.002	0	0
52	LADDERPLATE1	PX	.002	.002	0	0
53	LADDERPLATE2	PX	.002	.002	0	0
54	MP ALPHA1	PX	.002	.002	0	0
55	MP ALPHA2	PX	.002	.002	0	0
56	MP ALPHA3	PX	.002	.002	0	0
57	MP BETA1	PX	.002	.002	0	0
58	MP BETA2	PX	.002	.002	0	0
59	MP BETA3	PX	.002	.002	0	0
60	MP GAMMA1	PX	.002	.002	0	0
61	MP GAMMA2	PX	.002	.002	0	0
62	MP GAMMA3	PX	.002	.002	0	0
63	RUNG1	PX	.000657	.000657	0	0
64	RUNG2	PX	.000657	.000657	0	0
65	RUNG3	PX	.000657	.000657	0	0
66	RUNG4	PX	.000657	.000657	0	0
67	RUNG5	PX	.000657	.000657	0	0
68	RUNG6	PX	.000657	.000657	0	0
69	RUNG7	PX	.000657	.000657	0	0
70	SO1	PX	.001	.001	0	0
71	SO2	PX	.001	.001	0	0
72	SO3	PX	.001	.001	0	0
73	SUPPORT1	PX	.003	.003	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
74	SUPPORT2	PX	.003	.003	0	0
75	M76	PY	.003	.003	0	0
76	M76	PX	.002	.002	0	0
77	M77	PY	.003	.003	0	0
78	M77	PX	.002	.002	0	0
79	M78	PY	.003	.003	0	0
80	M78	PX	.002	.002	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	.002	.002	0	0
2	CONNANGLE2	PY	.002	.002	0	0
3	CONNANGLE3	PY	.002	.002	0	0
4	CORNER1	PY	.003	.003	0	0
5	CORNER2	PY	.003	.003	0	0
6	CORNER3	PY	.003	.003	0	0
7	FACE3,1	PY	.003	.003	0	0
8	FACE3,2	PY	.003	.003	0	0
9	FACE2,1	PY	.003	.003	0	0
10	FACE2,2	PY	.003	.003	0	0
11	FACE1,1	PY	.003	.003	0	0
12	FACE1,2	PY	.003	.003	0	0
13	LADDER1	PY	.002	.002	0	0
14	LADDER2	PY	.002	.002	0	0
15	LADDERPLATE1	PY	.002	.002	0	0
16	LADDERPLATE2	PY	.002	.002	0	0
17	MP ALPHA1	PY	.002	.002	0	0
18	MP ALPHA2	PY	.002	.002	0	0
19	MP ALPHA3	PY	.002	.002	0	0
20	MP BETA1	PY	.002	.002	0	0
21	MP BETA2	PY	.002	.002	0	0
22	MP BETA3	PY	.002	.002	0	0
23	MP GAMMA1	PY	.002	.002	0	0
24	MP GAMMA2	PY	.002	.002	0	0
25	MP GAMMA3	PY	.002	.002	0	0
26	RUNG1	PY	.000657	.000657	0	0
27	RUNG2	PY	.000657	.000657	0	0
28	RUNG3	PY	.000657	.000657	0	0
29	RUNG4	PY	.000657	.000657	0	0
30	RUNG5	PY	.000657	.000657	0	0
31	RUNG6	PY	.000657	.000657	0	0
32	RUNG7	PY	.000657	.000657	0	0
33	SO1	PY	.001	.001	0	0
34	SO2	PY	.001	.001	0	0
35	SO3	PY	.001	.001	0	0
36	SUPPORT1	PY	.003	.003	0	0
37	SUPPORT2	PY	.003	.003	0	0
38	CONNANGLE1	PX	.003	.003	0	0
39	CONNANGLE2	PX	.003	.003	0	0
40	CONNANGLE3	PX	.003	.003	0	0
41	CORNER1	PX	.005	.005	0	0
42	CORNER2	PX	.005	.005	0	0
43	CORNER3	PX	.005	.005	0	0
44	FACE3,1	PX	.005	.005	0	0
45	FACE3,2	PX	.005	.005	0	0
46	FACE2,1	PX	.005	.005	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	FACE2,2	PX	.005	.005	0	0
48	FACE1,1	PX	.005	.005	0	0
49	FACE1,2	PX	.005	.005	0	0
50	LADDER1	PX	.003	.003	0	0
51	LADDER2	PX	.003	.003	0	0
52	LADDERPLATE1	PX	.004	.004	0	0
53	LADDERPLATE2	PX	.004	.004	0	0
54	MP ALPHA1	PX	.003	.003	0	0
55	MP ALPHA2	PX	.003	.003	0	0
56	MP ALPHA3	PX	.003	.003	0	0
57	MP BETA1	PX	.003	.003	0	0
58	MP BETA2	PX	.003	.003	0	0
59	MP BETA3	PX	.003	.003	0	0
60	MP GAMMA1	PX	.003	.003	0	0
61	MP GAMMA2	PX	.003	.003	0	0
62	MP GAMMA3	PX	.003	.003	0	0
63	RUNG1	PX	.001	.001	0	0
64	RUNG2	PX	.001	.001	0	0
65	RUNG3	PX	.001	.001	0	0
66	RUNG4	PX	.001	.001	0	0
67	RUNG5	PX	.001	.001	0	0
68	RUNG6	PX	.001	.001	0	0
69	RUNG7	PX	.001	.001	0	0
70	SO1	PX	.002	.002	0	0
71	SO2	PX	.002	.002	0	0
72	SO3	PX	.002	.002	0	0
73	SUPPORT1	PX	.005	.005	0	0
74	SUPPORT2	PX	.005	.005	0	0
75	M76	PY	.002	.002	0	0
76	M76	PX	.003	.003	0	0
77	M77	PY	.002	.002	0	0
78	M77	PX	.003	.003	0	0
79	M78	PY	.002	.002	0	0
80	M78	PX	.003	.003	0	0

Member Distributed Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PX	.004	.004	0	0
2	CONNANGLE2	PX	.004	.004	0	0
3	CONNANGLE3	PX	.004	.004	0	0
4	CORNER1	PX	.005	.005	0	0
5	CORNER2	PX	.005	.005	0	0
6	CORNER3	PX	.005	.005	0	0
7	FACE3,1	PX	.005	.005	0	0
8	FACE3,2	PX	.005	.005	0	0
9	FACE2,1	PX	.005	.005	0	0
10	FACE2,2	PX	.005	.005	0	0
11	FACE1,1	PX	.005	.005	0	0
12	FACE1,2	PX	.005	.005	0	0
13	LADDER1	PX	.003	.003	0	0
14	LADDER2	PX	.003	.003	0	0
15	LADDERPLATE1	PX	.005	.005	0	0
16	LADDERPLATE2	PX	.005	.005	0	0
17	MP ALPHA1	PX	.003	.003	0	0
18	MP ALPHA2	PX	.003	.003	0	0
19	MP ALPHA3	PX	.003	.003	0	0

Member Distributed Loads (BLC 37 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	MP BETA1	PX	.003	.003	0	0
21	MP BETA2	PX	.003	.003	0	0
22	MP BETA3	PX	.003	.003	0	0
23	MP GAMMA1	PX	.003	.003	0	0
24	MP GAMMA2	PX	.003	.003	0	0
25	MP GAMMA3	PX	.003	.003	0	0
26	RUNG1	PX	.001	.001	0	0
27	RUNG2	PX	.001	.001	0	0
28	RUNG3	PX	.001	.001	0	0
29	RUNG4	PX	.001	.001	0	0
30	RUNG5	PX	.001	.001	0	0
31	RUNG6	PX	.001	.001	0	0
32	RUNG7	PX	.001	.001	0	0
33	SO1	PX	.002	.002	0	0
34	SO2	PX	.002	.002	0	0
35	SO3	PX	.002	.002	0	0
36	SUPPORT1	PX	.005	.005	0	0
37	SUPPORT2	PX	.005	.005	0	0
38	M76	PX	.003	.003	0	0
39	M77	PX	.003	.003	0	0
40	M78	PX	.003	.003	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.002	-.002	0	0
2	CONNANGLE2	PY	-.002	-.002	0	0
3	CONNANGLE3	PY	-.002	-.002	0	0
4	CORNER1	PY	-.003	-.003	0	0
5	CORNER2	PY	-.003	-.003	0	0
6	CORNER3	PY	-.003	-.003	0	0
7	FACE3,1	PY	-.003	-.003	0	0
8	FACE3,2	PY	-.003	-.003	0	0
9	FACE2,1	PY	-.003	-.003	0	0
10	FACE2,2	PY	-.003	-.003	0	0
11	FACE1,1	PY	-.003	-.003	0	0
12	FACE1,2	PY	-.003	-.003	0	0
13	LADDER1	PY	-.002	-.002	0	0
14	LADDER2	PY	-.002	-.002	0	0
15	LADDERPLATE1	PY	-.002	-.002	0	0
16	LADDERPLATE2	PY	-.002	-.002	0	0
17	MP ALPHA1	PY	-.002	-.002	0	0
18	MP ALPHA2	PY	-.002	-.002	0	0
19	MP ALPHA3	PY	-.002	-.002	0	0
20	MP BETA1	PY	-.002	-.002	0	0
21	MP BETA2	PY	-.002	-.002	0	0
22	MP BETA3	PY	-.002	-.002	0	0
23	MP GAMMA1	PY	-.002	-.002	0	0
24	MP GAMMA2	PY	-.002	-.002	0	0
25	MP GAMMA3	PY	-.002	-.002	0	0
26	RUNG1	PY	-.000657	-.000657	0	0
27	RUNG2	PY	-.000657	-.000657	0	0
28	RUNG3	PY	-.000657	-.000657	0	0
29	RUNG4	PY	-.000657	-.000657	0	0
30	RUNG5	PY	-.000657	-.000657	0	0
31	RUNG6	PY	-.000657	-.000657	0	0
32	RUNG7	PY	-.000657	-.000657	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	SO1	PY	-.001	-.001	0	0
34	SO2	PY	-.001	-.001	0	0
35	SO3	PY	-.001	-.001	0	0
36	SUPPORT1	PY	-.003	-.003	0	0
37	SUPPORT2	PY	-.003	-.003	0	0
38	CONNANGLE1	PX	.003	.003	0	0
39	CONNANGLE2	PX	.003	.003	0	0
40	CONNANGLE3	PX	.003	.003	0	0
41	CORNER1	PX	.005	.005	0	0
42	CORNER2	PX	.005	.005	0	0
43	CORNER3	PX	.005	.005	0	0
44	FACE3,1	PX	.005	.005	0	0
45	FACE3,2	PX	.005	.005	0	0
46	FACE2,1	PX	.005	.005	0	0
47	FACE2,2	PX	.005	.005	0	0
48	FACE1,1	PX	.005	.005	0	0
49	FACE1,2	PX	.005	.005	0	0
50	LADDER1	PX	.003	.003	0	0
51	LADDER2	PX	.003	.003	0	0
52	LADDERPLATE1	PX	.004	.004	0	0
53	LADDERPLATE2	PX	.004	.004	0	0
54	MP ALPHA1	PX	.003	.003	0	0
55	MP ALPHA2	PX	.003	.003	0	0
56	MP ALPHA3	PX	.003	.003	0	0
57	MP BETA1	PX	.003	.003	0	0
58	MP BETA2	PX	.003	.003	0	0
59	MP BETA3	PX	.003	.003	0	0
60	MP GAMMA1	PX	.003	.003	0	0
61	MP GAMMA2	PX	.003	.003	0	0
62	MP GAMMA3	PX	.003	.003	0	0
63	RUNG1	PX	.001	.001	0	0
64	RUNG2	PX	.001	.001	0	0
65	RUNG3	PX	.001	.001	0	0
66	RUNG4	PX	.001	.001	0	0
67	RUNG5	PX	.001	.001	0	0
68	RUNG6	PX	.001	.001	0	0
69	RUNG7	PX	.001	.001	0	0
70	SO1	PX	.002	.002	0	0
71	SO2	PX	.002	.002	0	0
72	SO3	PX	.002	.002	0	0
73	SUPPORT1	PX	.005	.005	0	0
74	SUPPORT2	PX	.005	.005	0	0
75	M76	PY	-.002	-.002	0	0
76	M76	PX	.003	.003	0	0
77	M77	PY	-.002	-.002	0	0
78	M77	PX	.003	.003	0	0
79	M78	PY	-.002	-.002	0	0
80	M78	PX	.003	.003	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	CONNANGLE1	PY	-.003	-.003	0	0
2	CONNANGLE2	PY	-.003	-.003	0	0
3	CONNANGLE3	PY	-.003	-.003	0	0
4	CORNER1	PY	-.005	-.005	0	0
5	CORNER2	PY	-.005	-.005	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	CORNER3	PY	-.005	-.005	0	0
7	FACE1,1	PY	-.005	-.005	0	0
8	FACE1,2	PY	-.005	-.005	0	0
9	FACE2,1	PY	-.005	-.005	0	0
10	FACE2,2	PY	-.005	-.005	0	0
11	FACE3,1	PY	-.005	-.005	0	0
12	FACE3,2	PY	-.005	-.005	0	0
13	LADDER1	PY	-.003	-.003	0	0
14	LADDER2	PY	-.003	-.003	0	0
15	LADDERPLATE1	PY	-.004	-.004	0	0
16	LADDERPLATE2	PY	-.004	-.004	0	0
17	MP ALPHA1	PY	-.003	-.003	0	0
18	MP ALPHA2	PY	-.003	-.003	0	0
19	MP ALPHA3	PY	-.003	-.003	0	0
20	MP BETA1	PY	-.003	-.003	0	0
21	MP BETA2	PY	-.003	-.003	0	0
22	MP BETA3	PY	-.003	-.003	0	0
23	MP GAMMA1	PY	-.003	-.003	0	0
24	MP GAMMA2	PY	-.003	-.003	0	0
25	MP GAMMA3	PY	-.003	-.003	0	0
26	RUNG1	PY	-.001	-.001	0	0
27	RUNG2	PY	-.001	-.001	0	0
28	RUNG3	PY	-.001	-.001	0	0
29	RUNG4	PY	-.001	-.001	0	0
30	RUNG5	PY	-.001	-.001	0	0
31	RUNG6	PY	-.001	-.001	0	0
32	RUNG7	PY	-.001	-.001	0	0
33	SO1	PY	-.002	-.002	0	0
34	SO2	PY	-.002	-.002	0	0
35	SO3	PY	-.002	-.002	0	0
36	SUPPORT1	PY	-.005	-.005	0	0
37	SUPPORT2	PY	-.005	-.005	0	0
38	CONNANGLE1	PX	.002	.002	0	0
39	CONNANGLE2	PX	.002	.002	0	0
40	CONNANGLE3	PX	.002	.002	0	0
41	CORNER1	PX	.003	.003	0	0
42	CORNER2	PX	.003	.003	0	0
43	CORNER3	PX	.003	.003	0	0
44	FACE1,1	PX	.003	.003	0	0
45	FACE1,2	PX	.003	.003	0	0
46	FACE2,1	PX	.003	.003	0	0
47	FACE2,2	PX	.003	.003	0	0
48	FACE3,1	PX	.003	.003	0	0
49	FACE3,2	PX	.003	.003	0	0
50	LADDER1	PX	.002	.002	0	0
51	LADDER2	PX	.002	.002	0	0
52	LADDERPLATE1	PX	.002	.002	0	0
53	LADDERPLATE2	PX	.002	.002	0	0
54	MP ALPHA1	PX	.002	.002	0	0
55	MP ALPHA2	PX	.002	.002	0	0
56	MP ALPHA3	PX	.002	.002	0	0
57	MP BETA1	PX	.002	.002	0	0
58	MP BETA2	PX	.002	.002	0	0
59	MP BETA3	PX	.002	.002	0	0
60	MP GAMMA1	PX	.002	.002	0	0
61	MP GAMMA2	PX	.002	.002	0	0
62	MP GAMMA3	PX	.002	.002	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
63	RUNG1	PX	.000657	.000657	0	0
64	RUNG2	PX	.000657	.000657	0	0
65	RUNG3	PX	.000657	.000657	0	0
66	RUNG4	PX	.000657	.000657	0	0
67	RUNG5	PX	.000657	.000657	0	0
68	RUNG6	PX	.000657	.000657	0	0
69	RUNG7	PX	.000657	.000657	0	0
70	SO1	PX	.001	.001	0	0
71	SO2	PX	.001	.001	0	0
72	SO3	PX	.001	.001	0	0
73	SUPPORT1	PX	.003	.003	0	0
74	SUPPORT2	PX	.003	.003	0	0
75	M76	PY	-.003	-.003	0	0
76	M76	PX	.002	.002	0	0
77	M77	PY	-.003	-.003	0	0
78	M77	PX	.002	.002	0	0
79	M78	PY	-.003	-.003	0	0
80	M78	PX	.002	.002	0	0

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	38	Z	-.309	-.309	0	.03
2	CORNER1	Z	-.018	-.014	0	2.125
3	CORNER1	Z	-.014	-.01	2.125	4.25
4	FACE1,1	Z	-.000414	-.009	0	.99
5	FACE1,1	Z	-.009	-.019	.99	1.981
6	FACE1,1	Z	-.019	-.012	1.981	2.971
7	FACE1,1	Z	-.012	-.000414	2.971	3.962
8	FACE2,2	Z	-.000653	-.011	0	.905
9	FACE2,2	Z	-.011	-.017	.905	1.811
10	FACE2,2	Z	-.017	-.013	1.811	2.716
11	FACE2,2	Z	-.013	-.009	2.716	3.621
12	CORNER1	Z	-.004	-.004	3.201	4.201
13	CORNER3	Z	-.004	-.004	.066	1.066
14	FACE2,1	Z	-.01	-.011	3.962	4.528
15	FACE2,1	Z	-.011	-.016	4.528	5.094
16	FACE2,1	Z	-.016	-.026	5.094	5.659
17	FACE2,2	Z	-.006	-.011	3.621	5.174
18	CORNER3	Z	-.002	-.011	0	1.417
19	CORNER3	Z	-.011	-.011	1.417	2.833
20	CORNER3	Z	-.011	-.002	2.833	4.25
21	FACE2,1	Z	-.001	-.007	0	1.321
22	FACE2,1	Z	-.007	-.007	1.321	2.641
23	FACE2,1	Z	-.007	-.002	2.641	3.962
24	FACE3,2	Z	-.002	-.008	0	1.207
25	FACE3,2	Z	-.008	-.008	1.207	2.414
26	FACE3,2	Z	-.008	-.001	2.414	3.621
27	CORNER2	Z	-.002	-.002	.066	1.066
28	CORNER3	Z	-.002	-.002	3.201	4.201
29	FACE3,1	Z	-.005	-.005	3.962	4.528
30	FACE3,1	Z	-.005	-.008	4.528	5.094
31	FACE3,1	Z	-.008	-.013	5.094	5.659
32	FACE3,2	Z	-.003	-.005	3.621	5.174
33	9	Z	.003	-.012	0	.1
34	9	Z	-.012	-.04	.1	.2
35	50	Z	.003	-.012	0	.1

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
36	50	Z	-.012	-.041	.1	.2
37	CORNER2	Z	-.004	-.003	0	.85
38	CORNER2	Z	-.003	-.004	.85	1.7
39	CORNER2	Z	-.004	-.006	1.7	2.55
40	CORNER2	Z	-.006	-.004	2.55	3.4
41	CORNER2	Z	-.004	-.000135	3.4	4.25
42	FACE1,2	Z	-.000451	-.004	0	.931
43	FACE1,2	Z	-.004	-.004	.931	1.862
44	FACE1,2	Z	-.004	-.005	1.862	2.794
45	FACE1,2	Z	-.005	-.005	2.794	3.725
46	FACE1,2	Z	-.005	-.000384	3.725	4.656
47	FACE3,1	Z	-.000238	-.003	0	.906
48	FACE3,1	Z	-.003	-.004	.906	1.811
49	FACE3,1	Z	-.004	-.004	1.811	2.717
50	FACE3,1	Z	-.004	-.003	2.717	3.622
51	FACE3,1	Z	-.003	-.000238	3.622	4.528
52	SUPPORT1	Z	-.000519	-.009	0	.446
53	SUPPORT1	Z	-.009	-.013	.446	.892
54	SUPPORT1	Z	-.013	-.009	.892	1.337
55	SUPPORT1	Z	-.009	-.005	1.337	1.783
56	SUPPORT1	Z	-.005	-.001	1.783	2.229
57	SUPPORT2	Z	-.002	-.004	0	.35
58	SUPPORT2	Z	-.004	-.006	.35	.7
59	SUPPORT2	Z	-.006	-.007	.7	1.05
60	SUPPORT2	Z	-.007	-.004	1.05	1.4
61	SUPPORT2	Z	-.004	-.002	1.4	1.75
62	CORNER1	Z	-.002	-.002	.066	1.066
63	CORNER2	Z	-.002	-.002	3.202	4.202
64	FACE1,1	Z	-.005	-.005	3.962	4.528
65	FACE1,1	Z	-.005	-.008	4.528	5.094
66	FACE1,1	Z	-.008	-.013	5.094	5.659
67	FACE1,2	Z	-.003	-.005	3.621	5.174

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	38	Z	-.463	-.463	0	.03
2	CORNER1	Z	-.028	-.021	0	2.125
3	CORNER1	Z	-.021	-.015	2.125	4.25
4	FACE1,1	Z	-.000621	-.014	0	.99
5	FACE1,1	Z	-.014	-.028	.99	1.981
6	FACE1,1	Z	-.028	-.017	1.981	2.971
7	FACE1,1	Z	-.017	-.000621	2.971	3.962
8	FACE2,2	Z	-.00098	-.017	0	.905
9	FACE2,2	Z	-.017	-.026	.905	1.811
10	FACE2,2	Z	-.026	-.02	1.811	2.716
11	FACE2,2	Z	-.02	-.014	2.716	3.621
12	CORNER1	Z	-.006	-.006	3.201	4.201
13	CORNER3	Z	-.006	-.006	.066	1.066
14	FACE2,1	Z	-.015	-.016	3.962	4.528
15	FACE2,1	Z	-.016	-.024	4.528	5.094
16	FACE2,1	Z	-.024	-.04	5.094	5.659
17	FACE2,2	Z	-.01	-.016	3.621	5.174
18	CORNER3	Z	-.002	-.017	0	1.417
19	CORNER3	Z	-.017	-.017	1.417	2.833
20	CORNER3	Z	-.017	-.002	2.833	4.25
21	FACE2,1	Z	-.002	-.01	0	1.321

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	FACE2,1	Z	-.01	-.011	1.321	2.641
23	FACE2,1	Z	-.011	-.004	2.641	3.962
24	FACE3,2	Z	-.003	-.012	0	1.207
25	FACE3,2	Z	-.012	-.012	1.207	2.414
26	FACE3,2	Z	-.012	-.002	2.414	3.621
27	CORNER2	Z	-.003	-.003	.066	1.066
28	CORNER3	Z	-.003	-.003	3.201	4.201
29	FACE3,1	Z	-.008	-.008	3.962	4.528
30	FACE3,1	Z	-.008	-.012	4.528	5.094
31	FACE3,1	Z	-.012	-.02	5.094	5.659
32	FACE3,2	Z	-.005	-.008	3.621	5.174
33	9	Z	.005	-.018	0	.1
34	9	Z	-.018	-.061	.1	.2
35	50	Z	.005	-.018	0	.1
36	50	Z	-.018	-.062	.1	.2
37	CORNER2	Z	-.005	-.004	0	.85
38	CORNER2	Z	-.004	-.006	.85	1.7
39	CORNER2	Z	-.006	-.009	1.7	2.55
40	CORNER2	Z	-.009	-.006	2.55	3.4
41	CORNER2	Z	-.006	-.000203	3.4	4.25
42	FACE1,2	Z	-.000677	-.005	0	.931
43	FACE1,2	Z	-.005	-.007	.931	1.862
44	FACE1,2	Z	-.007	-.008	1.862	2.794
45	FACE1,2	Z	-.008	-.007	2.794	3.725
46	FACE1,2	Z	-.007	-.000576	3.725	4.656
47	FACE3,1	Z	-.000356	-.005	0	.906
48	FACE3,1	Z	-.005	-.005	.906	1.811
49	FACE3,1	Z	-.005	-.005	1.811	2.717
50	FACE3,1	Z	-.005	-.005	2.717	3.622
51	FACE3,1	Z	-.005	-.000356	3.622	4.528
52	SUPPORT1	Z	-.000778	-.013	0	.446
53	SUPPORT1	Z	-.013	-.019	.446	.892
54	SUPPORT1	Z	-.019	-.013	.892	1.337
55	SUPPORT1	Z	-.013	-.007	1.337	1.783
56	SUPPORT1	Z	-.007	-.002	1.783	2.229
57	SUPPORT2	Z	-.004	-.006	0	.35
58	SUPPORT2	Z	-.006	-.01	.35	.7
59	SUPPORT2	Z	-.01	-.01	.7	1.05
60	SUPPORT2	Z	-.01	-.006	1.05	1.4
61	SUPPORT2	Z	-.006	-.004	1.4	1.75
62	CORNER1	Z	-.003	-.003	.066	1.066
63	CORNER2	Z	-.003	-.003	3.202	4.202
64	FACE1,1	Z	-.008	-.008	3.962	4.528
65	FACE1,1	Z	-.008	-.012	4.528	5.094
66	FACE1,1	Z	-.012	-.02	5.094	5.659
67	FACE1,2	Z	-.005	-.008	3.621	5.174

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N149A	max	-.091	14	-.417	2	3.234	5	1.329	23	3.905	5	1.289	17
2		min	-2.832	33	-4.953	21	-.468	23	-2.637	5	-1.102	23	-1.483	35
3	N145A	max	.677	11	4.672	36	3.18	20	4.562	20	.424	14	1.316	29
4		min	-3.421	29	.973	17	-.68	2	-1.86	2	-.748	32	-1.388	11
5	N155A	max	5.687	12	2.22	5	3.112	33	.35	14	1.399	14	1.51	5
6		min	1.052	29	-2.063	23	-.31	14	-2.153	32	-3.931	32	-1.629	23

Envelope Joint Reactions (Continued)

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
7	Totals:	max	4.594	11	5.067	2	8.021	15						
8		min	-4.594	29	-5.067	20	4.024	35						

Basic Load Cases

	BLC Description	Category	X Grav...	Y Grav...	Z Grav...	Joint	Point	Distrib...	Area(Member)	Surface(Plate/Wall)
1	Live Load	DL					1			
2	Wind Load (0)	DL					36	40		
3	Dead Load	DL			-1.1		36		8	
4	Wind Load (30)	DL					72	80		
5	Wind Load (60)	DL					72	80		
6	Wind Load (90)	DL					36	40		
7	Wind Load (120)	DL					72	80		
8	Wind Load (150)	DL					72	80		
9	Wind Load (180)	DL					36	40		
10	Wind Load (210)	DL					72	80		
11	Wind Load (240)	DL					72	80		
12	Wind Load (270)	DL					36	40		
13	Wind Load (300)	DL					72	80		
14	Wind Load (330)	DL					72	80		
15	Maintanence (0)	DL					36	40		
16	Maintanence (30)	DL					72	80		
17	Maintanence (60)	DL					72	80		
18	Maintanence (90)	DL					36	40		
19	Maintanence (120)	DL					72	80		
20	Maintanence (150)	DL					72	80		
21	Maintanence (180)	DL					36	40		
22	Maintanence (210)	DL					72	80		
23	Maintanence (240)	DL					72	80		
24	Maintanence (270)	DL					36	40		
25	Maintanence (300)	DL					72	80		
26	Maintanence (330)	DL					72	80		
27	Ice Dead Load	DL					36	40	8	
28	Ice Wind Load (0)	DL					36	40		
29	Ice Wind Load (30)	DL					72	80		
30	Ice Wind Load (60)	DL					72	80		
31	Ice Wind Load (90)	DL					36	40		
32	Ice Wind Load (120)	DL					72	80		
33	Ice Wind Load (150)	DL					72	80		
34	Ice Wind Load (180)	DL					36	40		
35	Ice Wind Load (210)	DL					72	80		
36	Ice Wind Load (240)	DL					72	80		
37	Ice Wind Load (270)	DL					36	40		
38	Ice Wind Load (300)	DL					72	80		
39	Ice Wind Load (330)	DL					72	80		
40	Earthquake (x-direction)	DL	-.116				36			
41	Earthquake (y-direction)	DL		-.116			36			
42	Earthquake (z-direction)	DL			-.046		36			
43	BLC 3 Transient Area L...	None						67		
44	BLC 27 Transient Area ...	None						67		

Load Combinations

	Description	S...	P...	SRSS	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.4D	Y...	Y		3	1.4																		
2	1.2D + 1.0W(0)	Y...	Y		3	1.2	2	1																
3	1.2D + 1.0Di + 1.0Wi(0)	Y...	Y		3	1.2	27	1	28	1														
4	1.2D + 1.5L + 1.0Wl(0)	Y...	Y		3	1.2	1	1.5	15	1														
5	1.2D + 1.0W(30)	Y...	Y		3	1.2	4	1																
6	1.2D + 1.0Di + 1.0Wi(30)	Y...	Y		3	1.2	27	1	29	1														
7	1.2D + 1.5L + 1.0Wl(30)	Y...	Y		3	1.2	1	1.5	16	1														
8	1.2D + 1.0W(60)	Y...	Y		3	1.2	5	1																
9	1.2D + 1.0Di + 1.0Wi(60)	Y...	Y		3	1.2	27	1	30	1														
10	1.2D + 1.5L + 1.0Wl(60)	Y...	Y		3	1.2	1	1.5	17	1														
11	1.2D + 1.0W(90)	Y...	Y		3	1.2	6	1																
12	1.2D + 1.0Di + 1.0Wi(90)	Y...	Y		3	1.2	27	1	31	1														
13	1.2D + 1.5L + 1.0Wl(90)	Y...	Y		3	1.2	1	1.5	18	1														
14	1.2D + 1.0W(120)	Y...	Y		3	1.2	7	1																
15	1.2D + 1.0Di + 1.0Wi(120)	Y...	Y		3	1.2	27	1	32	1														
16	1.2D + 1.5L + 1.0Wl(120)	Y...	Y		3	1.2	1	1.5	19	1														
17	1.2D + 1.0W(150)	Y...	Y		3	1.2	8	1																
18	1.2D + 1.0Di + 1.0Wi(150)	Y...	Y		3	1.2	27	1	33	1														
19	1.2D + 1.5L + 1.0Wl(150)	Y...	Y		3	1.2	1	1.5	20	1														
20	1.2D + 1.0W(180)	Y...	Y		3	1.2	9	1																
21	1.2D + 1.0Di + 1.0Wi(180)	Y...	Y		3	1.2	27	1	34	1														
22	1.2D + 1.5L + 1.0Wl(180)	Y...	Y		3	1.2	1	1.5	21	1														
23	1.2D + 1.0W(210)	Y...	Y		3	1.2	10	1																
24	1.2D + 1.0Di + 1.0Wi(210)	Y...	Y		3	1.2	27	1	35	1														
25	1.2D + 1.5L + 1.0Wl(210)	Y...	Y		3	1.2	1	1.5	22	1														
26	1.2D + 1.0W(240)	Y...	Y		3	1.2	11	1																
27	1.2D + 1.0Di + 1.0Wi(240)	Y...	Y		3	1.2	27	1	36	1														
28	1.2D + 1.5L + 1.0Wl(240)	Y...	Y		3	1.2	1	1.5	23	1														
29	1.2D + 1.0W(270)	Y...	Y		3	1.2	12	1																
30	1.2D + 1.0Di + 1.0Wi(270)	Y...	Y		3	1.2	27	1	37	1														
31	1.2D + 1.5L + 1.0Wl(270)	Y...	Y		3	1.2	1	1.5	24	1														
32	1.2D + 1.0W(300)	Y...	Y		3	1.2	13	1																
33	1.2D + 1.0Di + 1.0Wi(300)	Y...	Y		3	1.2	27	1	38	1														
34	1.2D + 1.5L + 1.0Wl(300)	Y...	Y		3	1.2	1	1.5	25	1														
35	1.2D + 1.0W(330)	Y...	Y		3	1.2	14	1																
36	1.2D + 1.0Di + 1.0Wi(330)	Y...	Y		3	1.2	27	1	39	1														
37	1.2D + 1.5L + 1.0Wl(330)	Y...	Y		3	1.2	1	1.5	26	1														
38	1.2D + 1.0E(x) + 1.0E(z) + L	Y...	Y		3	1.2	40	1	42	1	1	1												
39	1.2D + 1.0E(y) + 1.0E(z) + L	Y...	Y		3	1.2	41	1	42	1	1	1												
40	1.2D - 1.0E(x) + 1.0E(z) + L	Y...	Y		3	1.2	40	-1	42	1	1	1												
41	1.2D - 1.0E(y) + 1.0E(z) + L	Y...	Y		3	1.2	41	-1	42	1	1	1												

Envelope AISC 14th(360-10): LRFD Steel Code Checks

	Member	Shape	Code Check	Loc...	LC	Shear Check	Loc[ft]	...	LC	phi*Pnc [...	phi*...	phi*...	phi*...	...	Eqn
1	CONNANG...	L3X3X6	.415	.5	5	.265	.5	z	5	66.846	68.3...	2.307	5.322	...	H2-1
2	CONNANG...	L3X3X6	.392	.5	32	.263	.5	z	33	66.846	68.3...	2.307	5.322	...	H2-1
3	CONNANG...	L3X3X6	.416	.5	20	.256	.5	z	17	66.846	68.3...	2.307	5.322	...	H2-1
4	CORNER1	C5X9	.763	1.727	5	.512	1.727	y	9	47.924	85.5...	1.909	11.8...	...	H1-...
5	CORNER2	C5X9	.536	2.523	32	.515	1.727	y	33	47.924	85.5...	1.909	11.8...	...	H1-...
6	CORNER3	C5X9	.740	1.727	20	.494	1.727	y	20	47.924	85.5...	1.909	11.8...	...	H1-...
7	FACE1,1	C5X9	.569	0	2	.406	.884	z	17	30.564	85.5...	1.909	11.8...	...	H1-...
8	FACE1,2	C5X9	.496	0	23	.376	.97	z	23	36.252	85.5...	1.909	11.8...	...	H1-...
9	FACE2,1	C5X9	.509	0	8	.358	.884	z	29	30.564	85.5...	1.909	11.8...	...	H1-...
10	FACE2,2	C5X9	.576	0	2	.388	.97	y	35	36.252	85.5...	1.909	11.8...	...	H1-...
11	FACE3,1	C5X9	.530	0	23	.391	.884	z	5	30.564	85.5...	1.909	11.8...	...	H1-...

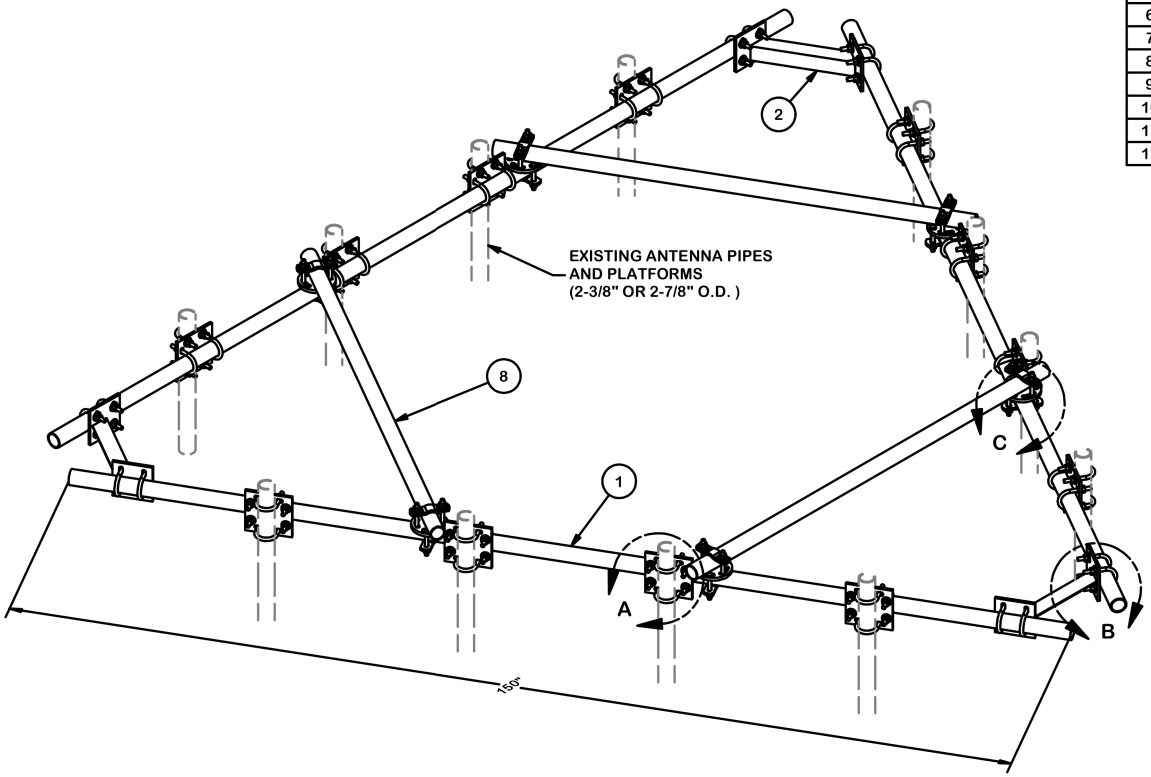
Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

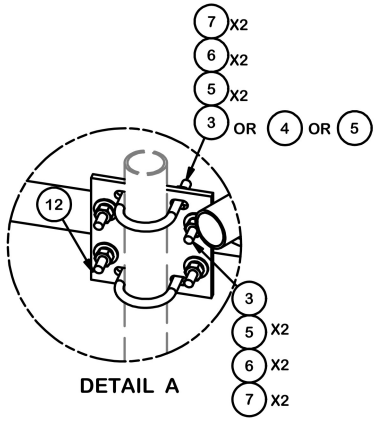
	Member	Shape	Code Check	Loc...	LC	Shear Check	Loc[ft]	...	LC	phi*Pnc [...	phi*...	phi*...	phi*...	...	Eqn
12	FACE3,2	C5X9	.479	0	14	.356	.97	z	11	36.252	85.5...	1.909	11.8...	...	H1-...
13	LADDER1	L1.75x1....	.256	6	26	.025	3.75	y	23	2.321	26.3...	.513	1.084	...	H2-1
14	LADDER2	L1.75x1....	.219	6	20	.026	3.75	y	20	2.321	26.3...	.513	1.048	...	H2-1
15	LADDERP...	4x.375_...	.006	.5	35	.000	.5	y	26	25.45	48.6	.38	3.791	1	H1-...
16	LADDERP...	4x.375_...	.006	.5	35	.000	.5	y	26	25.45	48.6	.38	3.791	1	H1-...
17	MP ALPHA1	PIPE_2.0	.472	2.5	8	.103	2.5		5	14.916	32.13	1.872	1.872	...	H1-...
18	MP ALPHA2	PIPE_2.0	.544	2.5	26	.290	2.5		29	14.916	32.13	1.872	1.872	...	H3-6
19	MP ALPHA3	PIPE_2.0	.386	2.5	35	.096	2.5		11	14.916	32.13	1.872	1.872	...	H1-...
20	MP BETA1	PIPE_2.0	.497	2.5	20	.088	2.5		17	14.916	32.13	1.872	1.872	...	H1-...
21	MP BETA2	PIPE_2.0	.661	2.5	5	.360	2.5		5	14.916	32.13	1.872	1.872	...	H3-6
22	MP BETA3	PIPE_2.0	.365	2.5	8	.082	2.5		11	14.916	32.13	1.872	1.872	...	H1-...
23	MP GAMM...	PIPE_2.0	.463	2.5	32	.102	2.5		17	14.916	32.13	1.872	1.872	...	H1-...
24	MP GAMM...	PIPE_2.0	.632	2.5	17	.321	2.5		17	14.916	32.13	1.872	1.872	...	H3-6
25	MP GAMM...	PIPE_2.0	.424	2.5	20	.119	2.5		14	14.916	32.13	1.872	1.872	...	H1-...
26	RUNG1	SR 5/8	.103	0	14	.023	1		23	7.287	9.94	.104	.104	...	H1-...
27	RUNG2	SR 5/8	.126	1	32	.027	1		2	7.287	9.94	.104	.104	...	H1-...
28	RUNG3	SR 5/8	.150	1	32	.036	0		20	7.287	9.94	.104	.104	...	H1-...
29	RUNG4	SR 5/8	.154	1	32	.039	0		20	7.287	9.94	.104	.104	...	H1-...
30	RUNG5	SR 5/8	.107	1	32	.026	0		20	7.287	9.94	.104	.104	...	H1-...
31	RUNG6	SR 5/8	.019	1	8	.018	1		5	7.287	9.94	.104	.104	...	H1-...
32	RUNG7	SR 5/8	.024	1	11	.019	1		5	7.287	9.94	.104	.104	...	H1-...
33	SO1	HSS3X3...	.710	0	5	.401	0	z	5	99.253	101....	8.556	8.556	...	H3-6
34	SO2	HSS3X3...	.684	0	20	.408	0	z	20	99.253	101....	8.556	8.556	...	H3-6
35	SO3	HSS3X3...	.686	0	32	.408	0	z	32	99.253	101....	8.556	8.556	...	H3-6
36	SUPPORT1	C5X9	.296	1.834	14	.161	1.857	z	2	72.937	85.5...	1.909	11.8...	...	H1-...
37	SUPPORT2	C5X9	.027	1.386	35	.283	1.75	z	23	77.531	85.5...	1.909	11.8...	...	H1-...
38	M76	PIPE_2.0	.361	4.736	8	.269	7.75		8	9.213	32.13	1.872	1.872	...	H1-...
39	M77	PIPE_2.0	.418	7.75	17	.278	7.75		35	9.213	32.13	1.872	1.872	...	H3-6
40	M78	PIPE_2.0	.412	7.75	2	.299	7.75		20	9.213	32.13	1.872	1.872	...	H3-6
41	M85	PIPE_2.0	.175	1.269	35	.438	0		35	29.182	32.13	1.872	1.872	1	H3-6
42	M86	PIPE_2.0	.171	1.269	23	.433	0		23	29.182	32.13	1.872	1.872	1	H3-6
43	M87	PIPE_2.0	.145	1.269	11	.397	0		11	29.182	32.13	1.872	1.872	1	H3-6

APPENDIX D

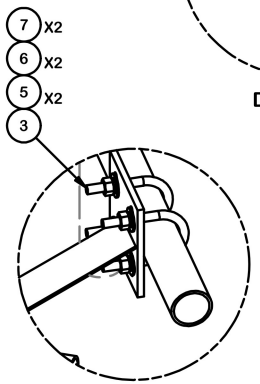
Specification Sheets

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2150	2-3/8" OD X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	137.31
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	15.42
4	24	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.26	6.17
5	144	G12FW	1/2" HDG USS FLATWASHER		0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER		0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P272	2-3/8" X 72" SCH 40 GALVANIZED PIPE	72 in	23.07	69.20
9	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.48	14.90
10	12	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	10.95
11	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
					TOTAL WT. #	406.61

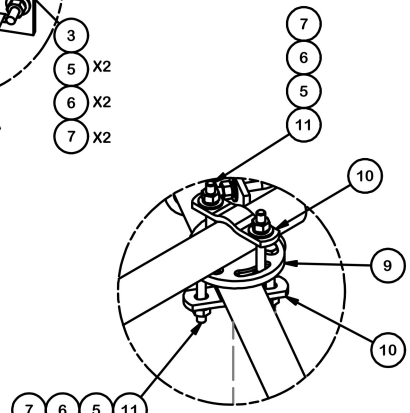




DETAIL A



DETAIL B



DETAIL C

TOLERANCE NOTES

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

PROPRIETARY NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION
HEAY DUTY HANDRAIL KIT
FOR 12' PLATFORMS WITH
2-3/8" OR 2-7/8" ANTENNA PIPES

SITE PRO 1
A valmont COMPANY

Engineering Support Team:
1-888-753-7446

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

CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.	PAGE
	CEK 3/31/2015		HRK12-HD	1 OF 1

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	01	CUSTOMER	BMC 3/31/2015	HRK12-HD

APPENDIX E

Mount Modification Design Drawings

SITE:

806358 NHV 109 943107 (CT11127A)

MODIFICATION DRAWING FOR AN EXISTING 10.8' LOW PROFILE PLATFORM AT 205' ON A 226' MONOPOLE TOWER

SHEET INDEX	
T-01	TITLE SHEET
N-01	NOTES
S-01	PLAN VIEW
S-02	ELEVATION VIEW
MI-01	MODIFICATION CHECKLIST

PROJECT INFORMATION	
COUNTY:	NEW HAVEN
SITE ADDRESS:	1432 OLD WATERBURY ROAD SOUTHBURY, CT 06488
LATITUDE:	41° 29' 36.92"
LONGITUDE:	-73° 09' 58.98"

SCOPE OF WORK:

MOUNT MODIFICATION DRAWINGS INCLUDES:
INSTALL PROPOSED MOUNT PIPES & HANDRAIL KIT.

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

T-Mobile

DRAWING NOTICE:
THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE.

MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:
NHV 109 943107
(CT11127A)

1432 OLD WATERBURY ROAD
SOUTHBURY, CT 06488

SITE NUMBER:
806358

POD NUMBER:	20-66148
DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	06/30/2020

SHEET TITLE:

TITLE SHEET

T-01

GENERAL NOTES

1. THE MODIFICATIONS REPRESENTED IN THESE DRAWINGS ARE BASED ON THE STRUCTURAL DOCUMENTS PROVIDED IN THE STRUCTURAL DOCUMENTS TABLE. THE CONTRACTOR SHALL OBTAIN AND BECOME FAMILIAR WITH ALL REFERENCED DOCUMENTS.

REFERENCE DOCUMENTS	
DOCUMENT TYPE	DESIGNATION
MOUNT ANALYSIS	POD PROJECT NUMBER: 20-65209 DATED: 06/15/2020

2. ALL MODIFICATIONS MUST BE INSTALLED TO BRING THE TOWER INTO CONFORMANCE WITH ALL APPLICABLE CODES.

GOVERNING CODES	TIA-222-H, 2015 IBC, & 2018 CSBC
ULTIMATE WIND SPEED	120 MPH 3 SECOND GUST
RADIAL ICE THICKNESS	1"
WIND SPEED W/ ICE	50 MPH 3 SECOND GUST
STRUCTURE CLASS	II
EXPOSURE CATEGORY	B
TOPOGRAPHIC CATEGORY	1
SPECTRAL RESPONSE ACCELERATIONS	SS= 0.198 & S1= 0.065

3. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE OR APPROVED BY THE EOR. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE PERFORMING WORK SIMILAR TO THAT DESCRIBED WITHIN THESE DRAWINGS. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND REGISTERED TO PERFORM THE WORK IN THE PROJECT JURISDICTION.
4. WORK SHALL ONLY BE PERFORMED DURING CALM, DRY DAYS (WINDS LESS THAN 10XMPH). IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE INSTILLATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIEXDOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
5. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND EOR. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE EOR SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES AND PROCEDURES.
6. THE DESIGN WITHIN THESE DRAWINGS ASSUMES THE TOWER AND ITS FOUNDATIONS HAVE BEEN WELL MAINTAINED, IN GOOD CONDITION AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBER, LOOSE BOLTS, CRACKED WELDS, AND OTHER STRUCTURAL DEFECTS HAVE NOT BEEN CONSIDERED UNLESS SPECIFICALLY NOTED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED LEVEL. THE OWNER AND/OR EOR SHALL BE NOTIFIED IMMEDIATELY IF ANY VARIANCES ARE FOUND.
7. THE CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY, LEASE AREA OR APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS PERFORMED WITHIN THESE BOUNDARIES. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAIN AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK PERFORMED COMPLIES WITH ALL APPLICATION SAFETY CODES AND GOVERNING REGULATIONS.
9. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULES AND MATERIAL DELIVERIES, WITH THE OWNER/RESIDENT LEASING AGENT FOR APPROVAL.
10. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNING AGENCIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
11. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDED BUT NOT LIMITED TO ALTERED SIZED AND/OR STRENGTHS, MUST BE APPROVED BY THE EOR.
12. UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORKING LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
13. ALL DIMENSIONS AND QUANTITIES LISTED WITHIN THESE DRAWINGS ARE INTENDED TO AID THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL DIMENSION AND QUANTITIES PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
14. ALL MANUFACTURERS' INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. ANY DEVIATION REQUIRES WRITTEN APPROVAL FROM THE EOR.
15. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING COAX, BRACKETS, ANTENNAS MOUNTS AND ANY OTHER TOWER APPURTENANCE THAT MAY INTERFERE WITH THE INSTILLATION OF THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACE AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME MOUNTS OR ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATION TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOM MOUNTS OR ATTACHMENTS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE OWNER/EOR PRIOR TO REMOVAL. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE OWNER IN WRITING.
16. DO NOT SCALE DRAWINGS.

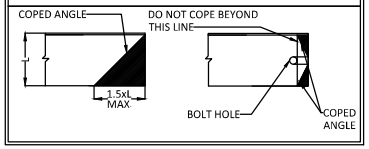
STRUCTURAL STEEL NOTES

1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
2. ALL STRUCTURAL STEEL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.

MATERIAL SPECIFICATIONS	
ANGLES	ASTM A36 (36 KSI YIELD STRENGTH)
PIPES	ASTM A53 GR.B (35 KSI YIELD STRENGTH)
BOLTS	ASTM A325N
NUTS	ASTM A563
WASHER	ASTM F436
PLATE	ASTM A36 (36 KSI YIELD STRENGTH)
U-BOLTS	ASTM A307

3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS, LATEST EDITION.
4. CAULKING SHALL BE PROVIDED AROUND PERIMETER OF ANY AND ALL MODIFICATION MEMBERS TO ENSURE COMPLETE SEAL BETWEEN EXISTING STRUCTURE AND REINFORCING MEMBERS IN FULL CONTACT WITH EXISTING STEEL. SEALANT IS TO BE EXTERIOR GRADE, PAINTABLE SILICONE CAULKING AS MANUFACTURED BY DOW AND ACCEPTABLE TO EOR.
5. HOLES SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE EOR.
6. ALL EXPOSED STEEL SHALL BE HOTXDIPPED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90, AS APPLICABLE FOR FULL WEATHER PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE HOTXDIPPED GALVANIZING IS NOT PERMITTED DACROMET F1136 GRADE 3 COATING SHALL BE USED. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN EOR APPROVAL FOR STEEL PROTECTION BY ANY OTHER MEANS.
7. REPAIR DAMAGED PAINTED/GALVANIZED SURFACES WITH TWO COATS OF BRUSH OR ROLL ON ZRC COLD GALVANIZING COMPOUND OR EOR APPROVED COATING. SURFACES MUST BE WIRE BRUSHED AND SOLVENT CLEANED PRIOR TO APPLICATION OF GALVANIZING COMPOUND.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES (LOCKING NUT/PAL NUT) TO BE INSTALLED IN ACCORDANCE WITH TIA/EIAX222 REQUIREMENTS.
9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

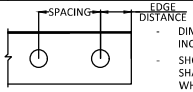
ALLOWABLE ANGLE COPE



1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENT.

BOLT SCHEDULE

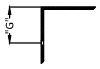
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/16	1-1/16x1-5/16	1-3/4	3



- DIMENSIONS GIVEN IN INCHES.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED ON THE PLANS.

WORKABLE GAGES

LEG	----	----	----
G	----	----	----



- DIMENSIONS GIVEN IN INCHES.
- MATCH EXISTING WHEN APPLICABLE.

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

T-Mobile

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MODIFICATION DRAWING

REV.	DATE	DESCRIPTION

SITE INFORMATION:

NHV 109 943107
(CT11127A)

1432 OLD WATERBURY ROAD
SOUTHBURY, CT 06488

SITE NUMBER:

806358

POD NUMBER:	20-66148
DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	06/30/2020

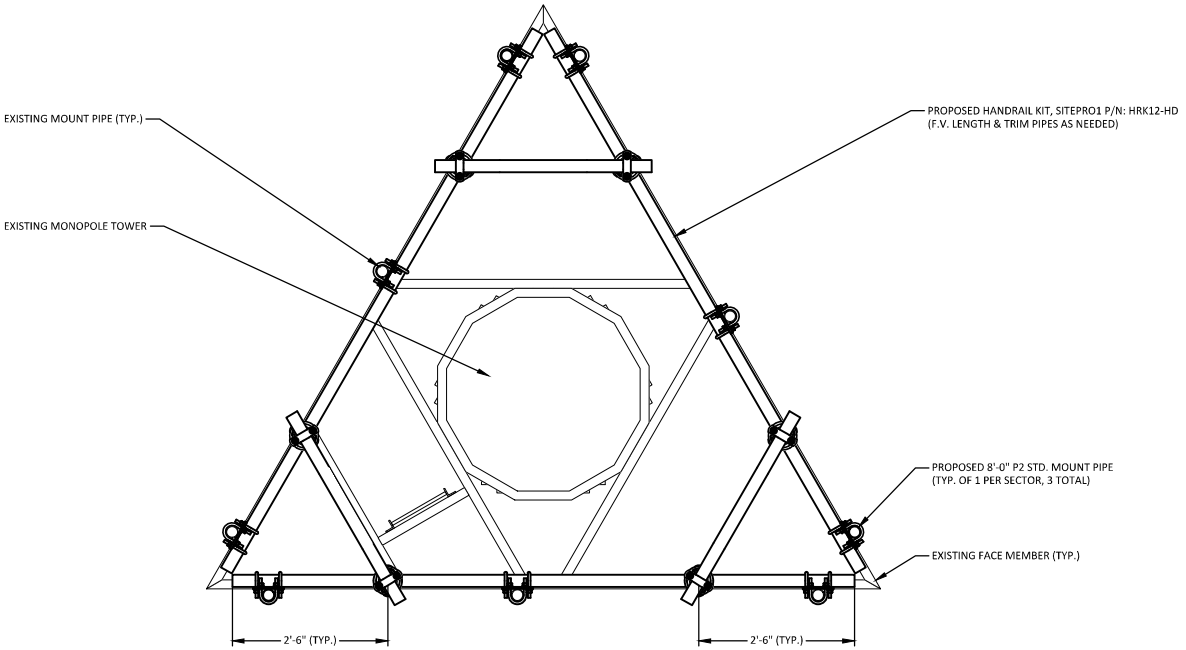
SHEET TITLE:

NOTES

N-01

NOTES:

- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



PLAN VIEW

1/2" = 1'-0"

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

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POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
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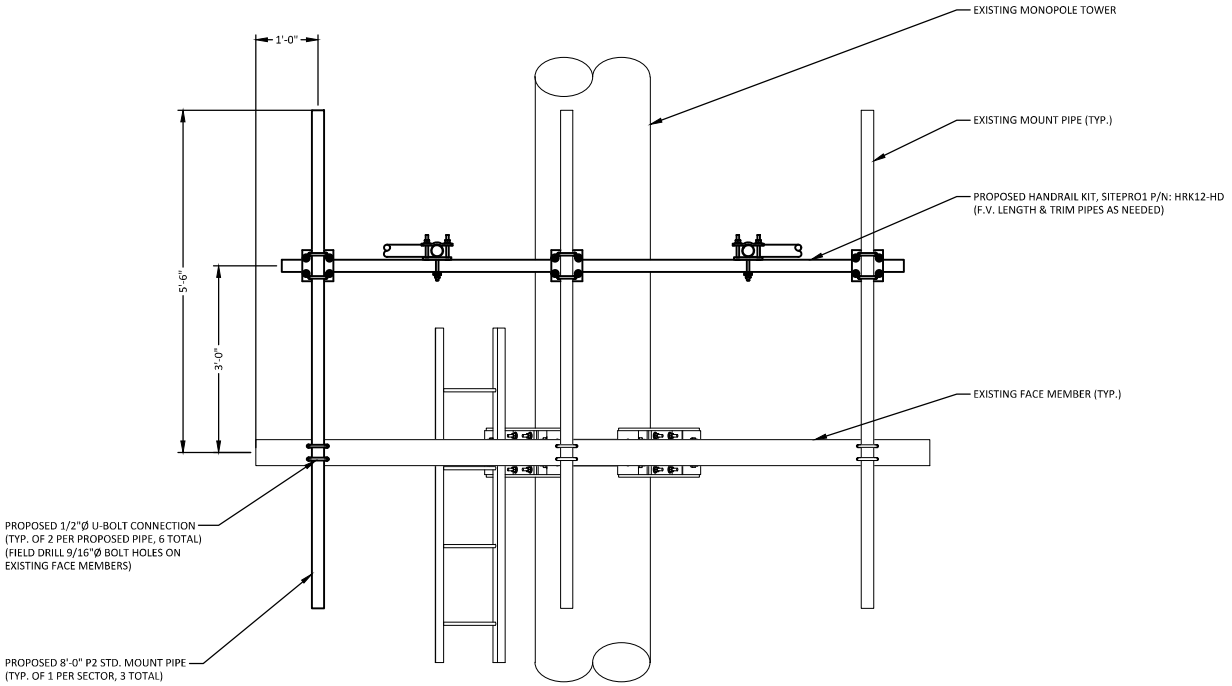
SHEET TITLE:

PLAN VIEW

S-01

NOTES:

- ANTENNAE & GRATING NOT SHOWN FOR CLARITY
- ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF ZRC RICH PAINT
- EXCESS MATERIALS SHALL BE REMOVED AND DISPOSED OFF SITE BY THE CONTRACTOR



ELEVATION VIEW

1/2" = 1'-0"

PLANS PREPARED FOR:

CROWN CASTLE

PLANS PREPARED BY:

POD
POWER OF DESIGN
1033 E. TURKEYFOOT LAKE RD.
SUITE 206 AKRON, OHIO 44312
330-961-7432

CARRIER:

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POD NUMBER:	20-66148
DRAWN BY:	TAJ
CHECKED BY:	JGC
DATE:	06/30/2020

SHEET TITLE:

ELEVATION VIEW

S-02

MODIFICATION INSPECTION CHECKLIST

BEFORE CONSTRUCTION		DURING CONSTRUCTION		AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM	CONSTRUCTION/INSTALLATION INSPECTION AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
X	MODIFICATION INSPECTION CHECKLIST DWG	X	CONSTRUCTION INSPECTION	X	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWING(S)
-	ENGINEER OF RECORD APPROVED SHOP DRAWINGS	-	FOUNDATION INSPECTION	-	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
-	FABRICATION INSPECTION	-	CONCRETE COMP. STRENGTH AND SLUMP TEST	X	PHOTOGRAPHS
X	MATERIAL TEST REPORT	-	POST INSTALLED ANCHOR ROD VERIFICATION	ADDITIONAL TESTING AND INSPECTION	
-	FABRICATOR NDE INSPECTION	-	BASE PLATE GROUT VERIFICATION		
-	NDE REPORT OF MONOPOLE BASEPLATE (AS REQUIRED)	-	THIRD PARTY CERTIFIED WELD INSPECTION		
X	PACKING SLIP	-	EARTHWORK LIFT AND DENSITY (REPORT REQUIRED)		
ADDITIONAL TESTING AND INSPECTION		X	ON SITE COLD GALVANIZING VERIFICATION		
		-	GUY WIRE TENSION REPORT		
		X	GC AS-BUILT DOCUMENTS		
		ADDITIONAL TESTING AND INSPECTION			

MODIFICATION INSPECTION NOTES:

GENERAL:

1. THE MODIFICATION INSPECTION IS A VISUAL INSPECTION OF TOWER MODIFICATION AND A REVIEW OF CONSTRUCTION INSPECTION AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NAMELY THE MODIFICATION DRAWINGS., AS DESIGNED BY THE ENGINEER OF RECORD.

2. THE MODIFICATION INSPECTION IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AN IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. NOR DOES THE MODIFICATION INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTENT RESIDES WITH THE ENGINEER OF RECORD AT ALL TIMES.

3. TO ENSURE THAT THE REQUIREMENT OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MODIFICATION INSPECTOR BEGIN COMMUNICATION AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MODIFICATION INSPECTOR:

1. THE MODIFICATION INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSPECTION TO:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE
- INSPECTIONS
- DISCUSS ANY SITE SPECIFIC INSPECTIONS OR CONCERNS

2. THE MODIFICATION INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR (GC) INSPECTION AND TEST REPORTS. REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE INXFEILD INSPECTIONS, AND SUBMITTING THE MODIFICATION INSPECTION REPORT.

GENERAL CONTRACTOR:

1. THE GC IS REQUIRED TO CONTACT THE MODIFICATION INSPECTOR AS SOON AS RECEIVING A PO OR PAYMENT FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO:

- REVIEW THE REQUIREMENT OF THE MODIFICATION INSPECTION CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MODIFICATION INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

2. THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MODIFICATION INSPECTION CHECKLIST.

RECOMMENDATIONS:

1. IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, TO THE MODIFICATION INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR HE MODIFICATION INSPECTION TO BE CONDUCTED.

- THE GC AND MODIFICATION INSPECTION COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE MODIFICATION INSPECTOR AND GC ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR REXTENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTION TO ALLOW FOUNDATION AND MODIFICATION INSPECTION(S) DONE IN ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MODIFICATION INSPECTOR ON-SITE DURING THE MODIFICATION INSPECTION. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MODIFICATION INSPECTION CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED MODIFICATION INSPECTION:

1. IF THE GC AND MODIFICATION INSPECTOR AGREE TO A DATE ON WHICH THE MODIFICATION INSPECTION WILL BE CONDUCTED, AND EITHER ARTY CANCELS OR DELAYS, THE TOWER OWNER SHALL NOT BE RESPONSIBLE FOR ANY COSTS, FEES, LOSS OR DEPOSITS AND/OR OTHER PENALTIES RELATE TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME. EXCEPTIONS MAY BE MADE IN THE DELAY/ CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

CORRECTION OF FAILING MODIFICATION INSPECTION:

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION INSPECTION ("FAILED MODIFICATION INSPECTION"), THE GC SHALL WORK WITH MODIFICATION INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION. OR, WITH TOWER OWNER'S APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO REXANALYZE THE MODIFCATION/REINFORCEMENT USING AS-BUILT CONDITION.

VERIFICATION INSPECTIONS:

1. TOWER OWNER RESERVES THE RIGHT TO CONDUCT A VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED MODIFICATION AND INSPECTION(S) ON TOWER MODIFICATION PRODUCTS.

2. VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT FIRM AFTER A MODIFICATION PROJECT IS COMPLETED, AS MARKED BY THE DATE OF AN ACCEPTED "PASSING MODIFICATION INSPECTION MODIFICATION INSPECTION" REPORT FOR THE ORIGINAL PROJECT.

REQUIRED PHOTOS:

1. BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS ARE TO BE TAKEN AND INCLUDED IN THE MODIFICATION INSPECTION REPORT:

- PREXCONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION

  - RAW MATERIALS
  - PHOTOS OF ALL CRITICAL DETAILS
  - WELD PREPARATION
  - FOUNDATION MODIFICATION
  - BOLT INSTALLATION AND TORQUE
  - FINAL INSTALLED CONDITION
  - SURFACE COATING REPAIR

- POST CONDITION PHOTOGRAPHS
- FINAL INFIELD CONDITION ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DENTALS OF MODIFICATIONS

2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

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CROWN CASTLE

PLANS PREPARED BY:

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CARRIER:

T-Mobile

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REV.	DATE	DESCRIPTION

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SITE NUMBER:
806358

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DRAWN BY: TAJ
CHECKED BY: JGC
DATE: 06/30/2020

SHEET TITLE:

MODIFICATION CHECKLIST

MI-01

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

T-Mobile Existing Facility

Site ID: CT11127A

Middlebury/ I-84 X16
1432 Old Waterbury Road
Southbury, Connecticut 06488

July 25, 2020

EBI Project Number: 6220003390

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**9.18%**

21 B Street, Burlington, MA 01803 · Tel: (781) 273.2500 · Fax: (781) 273.3311

July 25, 2020

T-Mobile
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT1127A - Middlebury/ I-84 X16

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **1432 Old Waterbury Road** in **Southbury, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile 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 T-Mobile Wireless antenna facility located at 1432 Old Waterbury Road in Southbury, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.

3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

5) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

6) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

7) 2 LTE channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

8) 2 NR channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

9) 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.

10) 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.

11) The antennas used in this modeling are the RFS APX16DWV-16DWV-S-E-A20 for the 1900 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector A, the RFS APX16DWV-16DWV-S-E-A20 for the 1900 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector B, the RFS APX16DWV-16DWV-S-E-A20 for the 1900 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 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.

12) The antenna mounting height centerline of the proposed antennas is 207 feet above ground level (AGL).

13) 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.

14) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APX16DWV-16DWV-S-E-A20	Make / Model:	RFS APX16DWV-16DWV-S-E-A20	Make / Model:	RFS APX16DWV-16DWV-S-E-A20
Frequency Bands:	1900 MHz / 1900 MHz	Frequency Bands:	1900 MHz / 1900 MHz	Frequency Bands:	1900 MHz / 1900 MHz
Gain:	15.9 dBd / 15.9 dBd	Gain:	15.9 dBd / 15.9 dBd	Gain:	15.9 dBd / 15.9 dBd
Height (AGL):	207 feet	Height (AGL):	207 feet	Height (AGL):	207 feet
Channel Count:	6	Channel Count:	6	Channel Count:	6
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	9,337.08	ERP (W):	9,337.08	ERP (W):	9,337.08
Antenna A1 MPE %:	**0.78%**	Antenna B1 MPE %:	**0.78%**	Antenna C1 MPE %:	**0.78%**
Antenna #:	**2**	Antenna #:	**2**	Antenna #:	**2**
Make / Model:	RFS APXVAARR24_43-U-NA20	Make / Model:	RFS APXVAARR24_43-U-NA20	Make / Model:	RFS APXVAARR24_43-U-NA20
Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 2100 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 2100 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 2100 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 16.35 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 16.35 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 16.35 dBd
Height (AGL):	207 feet	Height (AGL):	207 feet	Height (AGL):	207 feet
Channel Count:	7	Channel Count:	7	Channel Count:	7
Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts
ERP (W):	9,237.25	ERP (W):	9,237.25	ERP (W):	9,237.25
Antenna A2 MPE %:	**1.25%**	Antenna B2 MPE %:	**1.25%**	Antenna C2 MPE %:	**1.25%**
Antenna #:	**3**	Antenna #:	**3**	Antenna #:	**3**
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz
Gain:	22.05 dBd / 22.05 dBd	Gain:	22.05 dBd / 22.05 dBd	Gain:	22.05 dBd / 22.05 dBd
Height (AGL):	207 feet	Height (AGL):	207 feet	Height (AGL):	207 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	160 Watts	Total TX Power (W):	160 Watts	Total TX Power (W):	160 Watts
ERP (W):	25,651.93	ERP (W):	25,651.93	ERP (W):	25,651.93
Antenna A3 MPE %:	**2.15%**	Antenna B3 MPE %:	**2.15%**	Antenna C3 MPE %:	**2.15%**

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	4.18%
AT&T	1.95%
Metro PCS	0.27%
Sprint	1.86%
Verizon	0.92%
Site Total MPE % :	9.18%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	4.18%
T-Mobile Sector B Total:	4.18%
T-Mobile Sector C Total:	4.18%
Site Total MPE % :	9.18%

T-Mobile Maximum MPE Power Values (Sector A)

T-Mobile 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
T-Mobile 1900 MHz GSM	4	1167.14	207.0	3.92	1900 MHz GSM	1000	0.39%
T-Mobile 1900 MHz LTE	2	2334.27	207.0	3.92	1900 MHz LTE	1000	0.39%
T-Mobile 600 MHz LTE	2	591.73	207.0	0.99	600 MHz LTE	400	0.25%
T-Mobile 600 MHz NR	1	1577.94	207.0	1.32	600 MHz NR	400	0.33%
T-Mobile 700 MHz LTE	2	648.82	207.0	1.09	700 MHz LTE	467	0.23%
T-Mobile 2100 MHz LTE	2	2589.11	207.0	4.34	2100 MHz LTE	1000	0.43%
T-Mobile 2500 MHz LTE	2	6412.98	207.0	10.76	2500 MHz LTE	1000	1.08%
T-Mobile 2500 MHz NR	2	6412.98	207.0	10.76	2500 MHz NR	1000	1.08%
						Total:	**4.18%**

• 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 T-Mobile 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:

T-Mobile Sector	Power Density Value (%)
Sector A:	4.18%
Sector B:	4.18%
Sector C:	4.18%
T-Mobile Maximum MPE % (Sector A):	4.18%
Site Total:	9.18%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **9.18%** 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.