10 Industrial Ave,
Suite 3
Mahwah NJ 07430

Phone: 201.684.0055
Fax: 201.684.0066

Transcend Wireless

November 5, 2021

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
2 Sunny Lane, Westport, Connecticut, 06880
Latitude: 41.162917
Longitude: -73.373083
T-Mobile Site#: CT11075C - Anchor

Dear Ms. Bachman:

T-Mobile currently maintains twelve (12) antennas at the 110-foot level of the existing 130-foot monopole at 2 Sunny Lane, Westport, CT. The 130-foot monopole is owned and operated by American Tower Corporation. The property is owned by Cellco Partnership d/b/a Verizon Wireless. T-Mobile now intends to remove nine (9) existing antennas and add three (3) new 5G antennas. The new antennas will be installed at the same 110-foot level of the tower.

Planned Modifications:
Tower:
Remove
(3) AIR21 B2A B4P Antennas
(3) AIR32 Antennas
(3) RR90-17-Q2DP Antennas
(6) 1-5/8" Coax Cables
(3) Radio 4449 B12 B71

Install New:
(3) AIR6449 B41 Antennas
(3) Radio 4460 B25+B66
(3) Radio 4449 B71 B85A
(3) 1.99" Hybrid Cable

Existing to Remain:
(3) RFS APRXVAARR24 43-U-NA20 Antennas
(1) ½" Hybrid Cable

Ground:
Install New:
(1) Enclosure 6160 and (1) B160

Remove:
(1) S12000

This tower was originally approved by the Connecticut Siting Council in Docket #188 dated December 17, 1998. T-Mobile has been approved for subsequent modifications at their facility. This proposed modification complies with the original approval.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies§ 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to First Selectman - Jim Marpe, Elected Official, and Michael Kiselak, Town Planner, as well as the tower and property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S;A. § 16-50j-72(b)(2).

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

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

3. The proposed modifications 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 Communications 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 referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Eric Breun
Transcend Wireless
Cell: 201-658-7728
Email: ebreun@transcendwireless.com

Attachments
cc: Jim Marpe - First Selectman of Westport
Michael Kiselak – Town Planner
American Tower Corporation – Tower Owner
Cellco Partnership - Verizon - Property Owner


ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430
1 LBS
1 OF 1
SHIP TO:
CELLCO PARTNERSHIP - VERIZON
1 VERIZON WAY
BASKING RIDGE NJ 07920
NJ 078 9-71
UPS GROUND
TRACKING #: 1Z V25 742 03 9501 6352
BILLING: P/P
Reference #1: CT11075C
XOL 21.10.07 NV45 45.0A 10/2021*


ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430
1 LBS
1 OF 1
SHIP TO:
CONTACTS MANAGEMENT
AMERICAN TOWER CORPORATION
10 PRESIDENTIAL WAY
WOBURN MA 01801
MA 018 9-04
UPS GROUND
TRACKING #: 1Z V25 742 03 9730 6348
BILLING: P/P
Reference #1: CT11075C
XOL 21.10.07 NV45 45.0A 10/2021*


ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430
1 LBS
1 OF 1
SHIP TO:
FIRST SELECTMAN JIM MARPE
110 MYRTLE AVENUE
WESTPORT CT 06880
CT 066 9-02
UPS GROUND
TRACKING #: 1Z V25 742 03 9219 3309
BILLING: P/P
Reference #1: CT11075C
XOL 21.10.07 NV45 45.0A 10/2021*


ERIC BREUN
2016587728
10 INDUSTRIAL AVE
MAHWAH NJ 07430
1 LBS
1 OF 1
SHIP TO:
P&Z DEPARTMENT
MICHAEL KISELAK
110 MYRTLE AVENUE
WESTPORT CT 06880
CT 066 9-02
UPS GROUND
TRACKING #: 1Z V25 742 03 9367 1291
BILLING: P/P
Reference #1: CT11075C
XOL 21.10.07 NV45 45.0A 10/2021*

Hello, your package has been delivered.

Delivery Date: Wednesday, 11/03/2021

Delivery Time: 9:53 AM

Left At: INSIDE DELIV

Signed by: RICH

TRANSCEND WIRELESS

Tracking Number:	1ZV257420392193309
Ship To:	FIRST SELECTMAN JIM MARPE 110 MYRTLE AVENUE WESTPORT, CT 06880 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT11075C

Hello, your package has been delivered.

Delivery Date: Wednesday, 11/03/2021

Delivery Time: 9:53 AM

Left At: INSIDE DELIV

Signed by: RICH

TRANSCEND WIRELESS

Tracking Number:	1ZV257420393671291
Ship To:	MICHAEL KISELAK 110 MYRTLE AVENUE WESTPORT, CT 06880 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT11075C

Hello, your package has been delivered.

Delivery Date: Wednesday, 11/03/2021

Delivery Time: 10:41 AM

Left At: MAIL ROOM

Signed by: JEFF

TRANSCEND WIRELESS

Tracking Number:	1ZV257420395016352
Ship To:	CELLCO PARTNERSHIP - VERIZON 1 VERIZON WAY BASKING RIDGE, NJ 07920 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT11075C

Hello, your package has been delivered.

Delivery Date: Wednesday, 11/03/2021

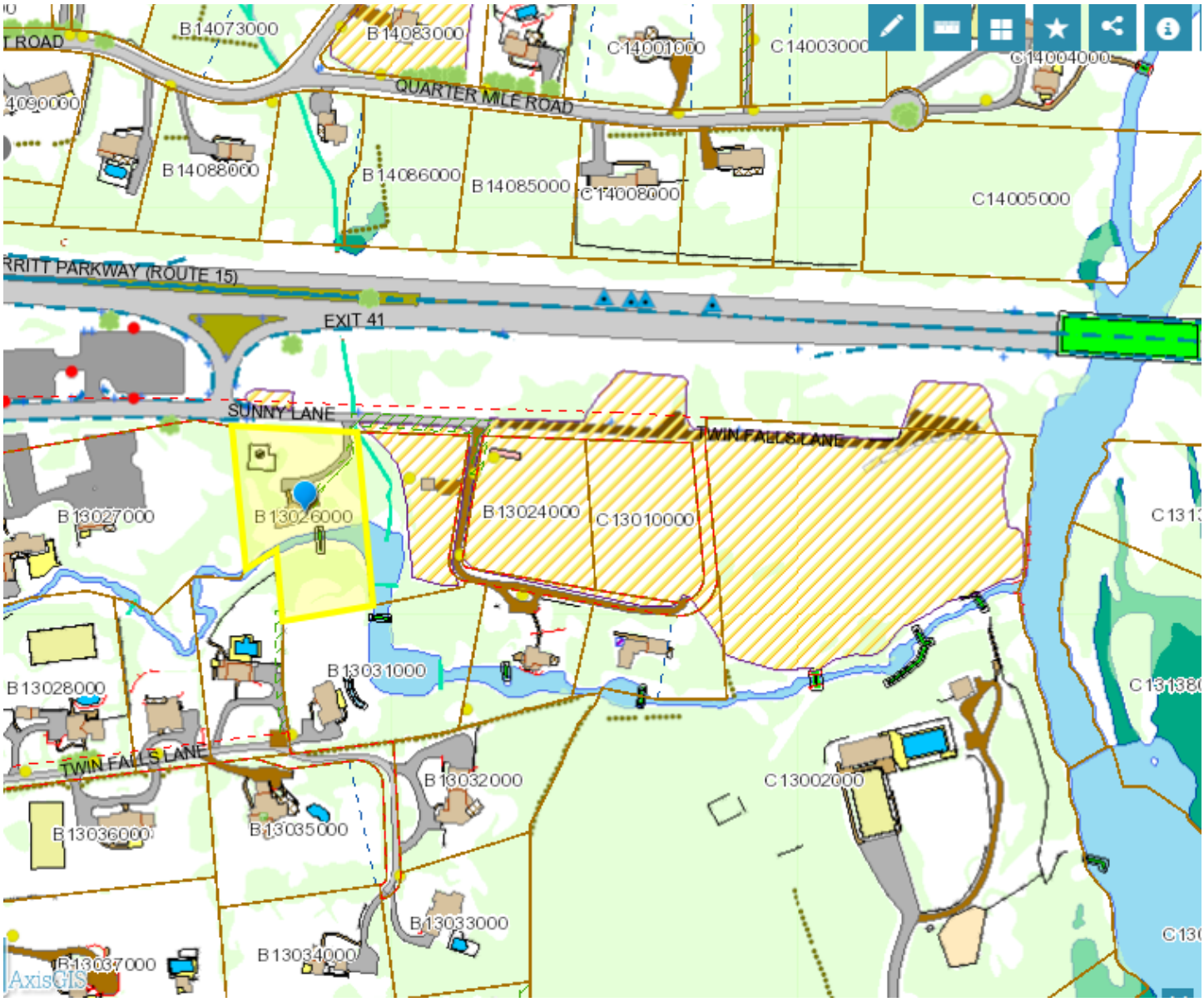
Delivery Time: 10:59 AM

Left At: FRONT DESK

Signed by: ID Verified

TRANSCEND WIRELESS

Tracking Number:	1ZV257420397306348
Ship To:	AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN, MA 01801 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	CT11075C


B14073000
B14083000
C14001000
C14003000
QUARTER MILE ROAD
B14088000
B14086000
B14085000
C14008000
C14005000
EXIT 41
SUNNY LANE
TWIN FALLS LANE
B13027000
B13026000
B13024000
C13010000
B13031000
B13028000
B13032000
C13002000
B13036000
B13035000
B13033000
B13034000
AxisGIS

Filing Guides
Meetings & Minutes
Public Participation
Audio Link to New Britain Hearing Rooms
Programs & Services
Telecommunications Database
Maps
Publications
Other Resources
Statutes & Regulations
Frequently Asked Questions

Calendar
Receive Updates by E-mail Sign Up for E-alerts
REGISTER Online to VOTE
Regulations of CT State Agencies
CT Alert

DOCKET NO. 188 - An application by Cellco Partnership d/b/a Bell Atlantic Mobile for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a proposed telecommunications tower and associated equipment located at 2 Sunny Lane or on a parcel located immediately south of the intersection of Clinton Avenue and the Merritt Parkway in Westport, Connecticut.

Connecticut Siting Council

December 17, 1998

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications tower and equipment buildings at the proposed prime site in Westport, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Bell Atlantic Mobile (BAM) for the construction, operation, and maintenance of a telecommunications tower, and associated equipment at the proposed prime site, located at 2 Sunny Lane, Westport, Connecticut. We find the effects on scenic resources and adjacent residences of the proposed alternate site to be significant, and therefore deny certification of that site.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of BAM, Springwich Cellular Limited Partnership (SCLP), Sprint PCS (Sprint), Omnipoint Communications, and Nextel Communications of the Mid-Atlantic, Inc. (Nextel); and such tower, excluding appurtenances, shall not exceed a height of 130 feet above ground level (AGL).

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include a final site plan(s) for site development detailing: relocation of the tower to the northwestern corner of the parcel to protect a nearby watercourse and wetlands, and to be closer to the commuter parking area; tower compound reduced in area to the minimum necessary for tower security; construction of the cable tray below grade; placement of a stockade or other architecturally treated fence around the compound; the location and specifications for the tower foundation, antennas, emergency generator and fuel tank, security fence, accessway, and vegetative screening; placement of underground utilities; construction plans for tree trimming, water drainage, and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; provisions for the tower finish that may include painting; and provisions for the prevention and containment of spills and/or other discharge into surface water and ground water bodies.

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

4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radiofrequency power density for all transmitting antennas on the proposed tower as ordered in this Decision and Order, and again for any proposed change in the operation of the tower.

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

6. The Certificate Holder shall comply with the Town of Westport's recommendations for site development, including: proper abandonment of the existing septic system; removal of a portion of the existing driveway to accommodate for increased lot coverage; planting a dense vegetative buffer north of the Poplar Plains Brook; and relocation of the above-ground fuel tank to a distance at least 60 feet away from the waterway protection lines.

7. If the facility does not initially provide, or permanently ceases to provide cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the

tower and remove all associated equipment or re-application for any continued or new use shall be made to the Council before any such use is made.

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

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 effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

10. The Certificate Holder shall provide to the Council the Federal Aviation Administration's determination for obstruction or hazard to air navigation.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant, Westport News, and Connecticut Post.

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

The parties and intervenors to this proceeding are:

APPLICANT	**ITS REPRESENTATIVE**
Bell Atlantic Mobile	Kenneth C. Baldwin, Esq. Brian C. S. Freeman, Esq. Robinson & Cole One Commercial Plaza Hartford, CT 06103-3597
	Mr. David S. Malko, P.E. Jennifer Young Gaudet Bell Atlantic Mobile 20 Alexander Drive Wallingford, CT 06492
PARTIES	**ITS REPRESENTATIVE**
Town of Westport	Ira W. BloomTown Attorney Town Hall, 110 Myrtle Avenue Westport, CT 06880 203) 341-1040
Residents of Clinton Avenue Westport	Robert Sullivan, Esq. Law Offices of Robert Sullivan 190 Main StreetWestport, CT 06880 (203) 227-1404
INTERVENORS	**ITS REPRESENTATIVE**
Sprint Spectrum, L.P. d/b/a Sprint PCS	Julie M. Cashin, Esq. Hurwitz & Sagarin, PC 147 North Broad Street Milford, CT 06460 (203) 877-8000
Nextel Communications of the Mid-Atlantic	Christopher B. Fisher, Esq. d/b/a Nextel Communications Cuddy, Feder & Worby, Esq. 90 Maple Avenue White Plains, NY 10601
Springwich Cellular Limited Partnership	Peter J. Tyrrell, Esq. General Counsel 500 Enterprise Drive Rocky Hill, CT 06067-3900
INTERVENORS	**ITS REPRESENTATIVE**
Residents of Sunny Lane, Westport	Lawrence P. Weisman Weisman & Lubell 5 Sylvan Road South P.O. Box 3184 Westport, CT 06880 (203) 226-8307

Omnipoint Communications, Inc.

Brian Weinstein
Omnipoint Communications, Inc.
25 Van Zant Street, Suite 18E
East Norwalk, CT 06855
(203) 855-5450

Content Last Modified on 8/9/2002 3:30:22 PM

Property Location 2 ALLEN RAYMOND LN | Map ID B13/ / 026/000 / | Bldg Name | State Use 434
Vision ID 4500 | Account # 8579 | Bldg # 1 | Sec # 1 of 1 | Card # 1 of 1 | Print Date 8/4/2021 10:22:51 AM

CURRENT OWNER

CELLCO PARTNERSHIP
BELL ATLANTIC NYNEX MOBILE DB
PO BOX 2549
ADDISON TX 75001

TOPO		UTILITIES		STRT / ROAD		LOCATION	
		6	Septic	2	Private		
		5	Well				

SUPPLEMENTAL DATA

Alt Prcl ID	5298022	Lift Hse	
Historic ID		Asking $	
Census	501		
WestportC	D35		
Survey Ma	9553		
Survey Ma			
GIS ID	B13026000	Assoc Pid#	

CURRENT ASSESSMENT

Description	Code	Appraisec	Assessed
UTL LAND	4-1	480,600	336,400
UTL BLDG	4-2	386,400	270,500
UTL OUTBL	4-3	1,037,600	726,320
	Total	1,904,600	1,333,220

6158
WESTPORT, CT

VISION

RECORD OF OWNERSHIP

RECORD OF OWNERSHIP	BK-VOL/PAGE		SALE DATE	Q/U	V/I	SALE PRICE	VC
CELLCO PARTNERSHIP	1488	0099	12-10-1996	Q	I	415,000	00

PREVIOUS ASSESSMENTS (HISTORY)

Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
2020	4-1	336,400	2020	4-1	336,400	2019	4-1	367,900
	4-2	270,500		4-2	270,500		4-2	284,700
	4-3	726,320		4-3	726,320		4-3	726,320
	Total	1,333,220		Total	1,333,220		Total	1,378,920

EXEMPTIONS

Year	Code	Description	Amount
		Total	0.00

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm Int

This signature acknowledges a visit by a Data Collector or Assessor

ASSESSING NEIGHBORHOOD

Nbhd	Nbhd Name	B	Tracing	Batch
0001				

NOTES

M/ 6742, 3124, 9547
ABUTS MERRITT PKY (RT 15)
HOUSE CONVERTED TO CELL SITE
ELECTRONICS BLDG
6 SITES ON MONOPOLE
RD=29' (32'X32')
FST HAS DIESEL GENERATOR
10-30-13 STREET NAME CHANGE
FKA SUNNY LN - JSG

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	386,400
Appraised Xf (B) Value (Bldg)	0
Appraised Ob (B) Value (Bldg)	1,037,600
Appraised Land Value (Bldg)	480,600
Special Land Value	0
Total Appraised Parcel Value	1,904,600
Valuation Method	C
Total Appraised Parcel Value	1,904,600

BUILDING PERMIT RECORD

Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments
80013	05-26-2015	AL	Alterations	20,000	09-16-2015	100		SWAP 3 ANTENNA WITH 3 N
77956	01-17-2014	NA	Miscellaneous	9,000	07-10-2014	100		REMOVE & REPLACE 6 ANT
76376	03-26-2013	AL	Alterations	25,000	07-10-2014	100		REMOVE 6 PANEL ANTENNA
76001	01-16-2013	AL	Alterations	5,000	07-10-2014	100	07-15-2014	REPLACE 6 ANTENNAS FOR
73208	06-15-2011	NA	Miscellaneous	20,000	03-07-2012	100	01-09-2012	ADD 2 ANTENNAS TO EXISTI
71919	07-06-2010	AL	Alterations	20,000		100	10-29-2010	MODIFY EXISTING TELECO
71407	02-10-2010	AL	Alterations	9,000		100	01-09-2012	REPLACE 9 ANTENNAS WIT

VISIT / CHANGE HISTORY

Date	Id	Type	Is	Cd	Purpost/Result
06-30-2020	JW			19	Field Review
03-02-2020	VA			60	Mailer Sent
09-16-2015	MJF	2		69	Partial Int Inspn (See Perm
02-25-2015	MJF			01	Measured/No Interior Insp
01-22-2015	VA			66	INSPECTION NOTICE SE
07-10-2014	TM	2		55	NOAH - Visual
03-07-2012	TM	2		01	Measured/No Interior Insp

LAND LINE VALUATION SECTION

B	Use Code	Description	Zone	Land	Land Units		Unit Price	I. Factor	Site Index	Cond.	Nbhd.	Nbhd Adj	Notes	Location Adjustment		Adj Unit Pric	Land Value
1	434	Cell Site	AAA		1.000	AC	1,080,000	1.00000	C	0.50	C	0.750	CELL SITE / RES LAND		0		405,000
1	434	Cell Site			0.630	AC	120,000	1.00000	0	1.00		1.000			0		75,600
				Total Card Land Units	2	AC	Parcel Total Land Area:	2								Total Land Value	480,600

Property Location	2 ALLEN RAYMOND LN		Map ID	B13/ / 026/000 /		Bldg Name	State Use 434
Vision ID 4500		Account # 8579		Bldg # 1	Sec # 1 of 1	Card # 1 of 1	Print Date 8/4/2021 10:22:52 AM

CONSTRUCTION DETAIL

Element	Cd	Description
Style:	68	Res Typ Comm
Model	96	Commercial
Grade	05	Average +20
Stories:	1	
Occupancy	1.00	
Exterior Wall 1	06	Board & Batten
Exterior Wall 2		
Roof Structure	03	Gable
Roof Cover	03	Asphalt/F Glas
Interior Wall 1	05	Drywall
Interior Wall 2		
Interior Floor 1	05	Vinyl/Asphalt
Interior Floor 2		
Heating Fuel	02	Oil
Heating Type	04	Forced Air
AC Type	03	Central
Bldg Use	434	Cell Site
Income Adj		
Heat/AC	01	Heat/AC Pkgs
Frame Type	02	Wood Frame
Baths/Plumbing	02	Average
Ceiling/Walls	06	Ceil & Walls
Rooms/Prtns	02	Average
Wall Height	8.00	
% Comn Wall		
1st Floor Use:		

CONSTRUCTION DETAIL (CONTINUED)

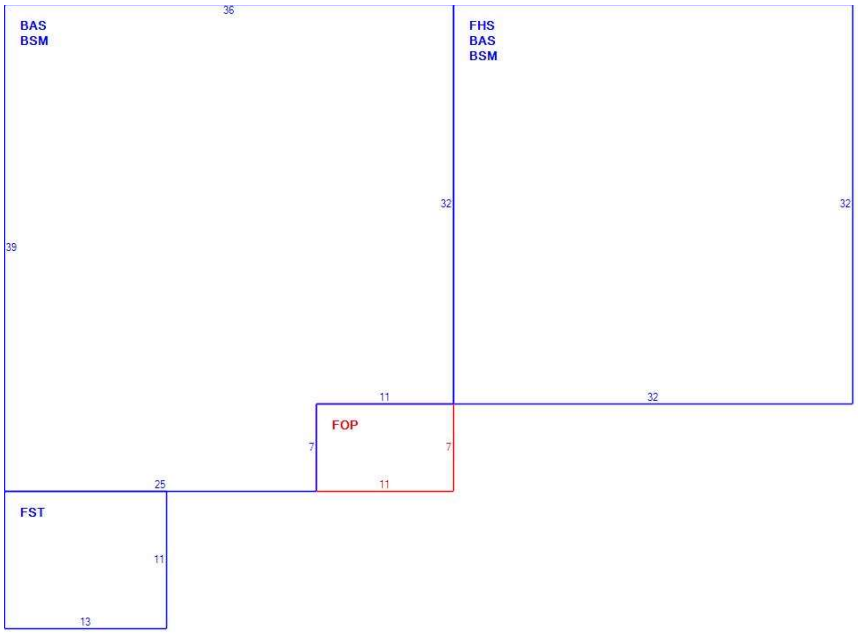
Element	Cd	Description

MIXED USE

Code	Description	Percentage
434	Cell Site	100
		0
		0

COST / MARKET VALUATION

RCN	508,423
Year Built	1968
Effective Year Built	
Depreciation Code	G
Remodel Rating	
Year Remodeled	
Depreciation %	24
Functional Obsol	
External Obsol	
Trend Factor	1
Condition	
Condition %	
Percent Good	76
Cns Sect Rcnld	386,400
Dep % Ovr	
Dep Ovr Comment	
Misc Imp Ovr	
Misc Imp Ovr Comment	
Cost to Cure Ovr	
Cost to Cure Ovr Comment	

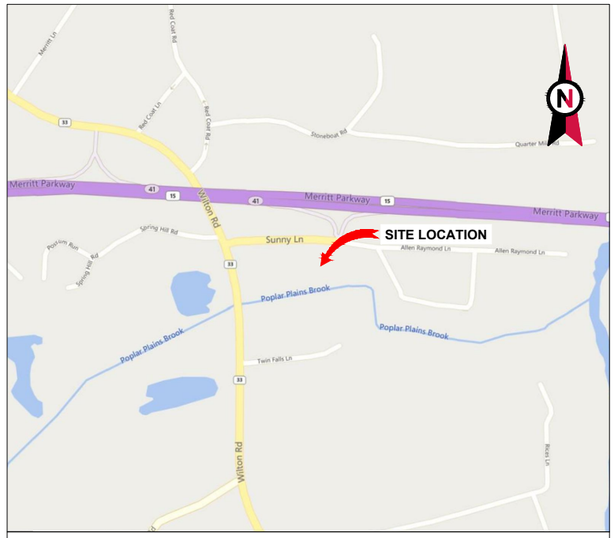


OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)

Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Good	Grade	Grade Adj	Appr. Value
CELL	Cell on TWR	L	6	328000.0	2010		100	00	1.00	1,037,600

BUILDING SUB-AREA SUMMARY SECTION

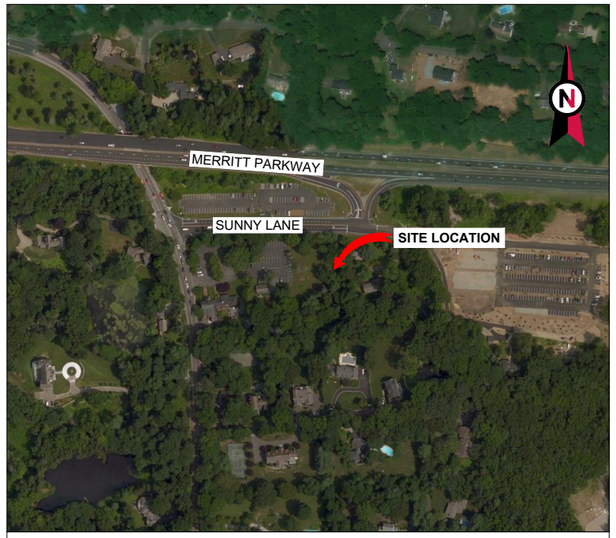
Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value
BAS	First Floor	2,351	2,351		131.55	309,277
BSM	Basement Area	0	2,351		46.05	108,267
FHS	Half Story, Finished	512	1,024		65.78	67,354
FOP	Porch, Open	0	77		32.46	2,499
FST	Utility Storage, Fin	143	143		52.44	7,498
	Ttl Gross Liv / Lease Area	3,006	5,946			494,895



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: CRANBURYSU CT
ATC SITE NUMBER: 411189
T-MOBILE SITE NAME: WESTPORT/ MP X 41
T-MOBILE SITE NUMBER: CT11075C
SITE ADDRESS: 2 SUNNY LANE
WESTPORT, CT 06880



LOCATION MAP

T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN
67D5A998E OUTDOOR CONFIGURATION

COMPLIANCE CODE

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

1. CT STATE BUILDING CODE, INCORPORATING THE 2018 INTERNATIONAL BUILDING CODE
2. 2017 NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: EVERSOURCE
PHONE: (888) 783-6617

TELEPHONE COMPANY: AT&T
PHONE: (866) 593-1383

811 Know what's below. Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

2 SUNNY LANE

WESTPORT, CT 06880

COUNTY: FAIRFIELD

GEOGRAPHIC COORDINATES:

LATITUDE: 41.162917

LONGITUDE: -73.373083

GROUND ELEVATION: 51' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

T-MOBILE

ENGINEER:

COLLIERS ENGINEERING & DESIGN CT, P.C.
135 NEW ROAD
MADISON, CT 06443

PROJECT#:
21904528A

PROPERTY OWNER:

N/A
2 SUNNY LANE
WESTPORT, CT 06880

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

TOWER WORK:

REMOVE (9) ANTENNA(s), (3) RRU(s) AND (6) COAX CABLE(s)

INSTALL (3) ANTENNA(s), (6) RRU(s) AND (3) HYBRID CABLE(s)

EXISTING (3) ANTENNA(s), (1) GPS(s), (3) 6X12 HYBRID CABLE(s) AND (1) COAX CABLE(s) TO REMAIN

GROUND WORK:

REMOVE (1) S12000 CABINET

INSTALL (1) ENCLOSURE 6160 AND (1) B160 BATTERY CABINET

EXISTING (1) RBS 6131 TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.
6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

PROJECT LOCATION DIRECTIONS

HEAD SOUTHWEST ON I-95 S, TAKE EXIT 16 TOWARD EAST NORWALK 0.1 MI, TURN RIGHT ONTO EAST AVE (SIGNS FOR U.S. 1) 1.2 MI, CONTINUE ONTO NEWTOWN AVE 1.4 MI, TURN RIGHT ONTO PARTRICK AVE 1.7 MI, TURN LEFT ONTO WILTON RD 0.3 MI, TURN RIGHT ONTO SUNNY LN 0.1 MI

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	10/27/21	JLK
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C-101	DETAILED SITE PLAN	0	10/27/21	JLK
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C-401	ANTENNA INFORMATION & SCHEDULE	0	10/27/21	JLK
C-501	CONSTRUCTION DETAILS	0	10/27/21	JLK
E-501	GROUNDING DETAILS	0	10/27/21	JLK
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			

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0	FOR CONSTRUCTION	RMD	10/27/21

ATC SITE NUMBER:
411189

ATC SITE NAME:
CRANBURYSU CT

T-MOBILE SITE NAME:
WESTPORT/ MP X 41

SITE ADDRESS:
2 SUNNY LANE
WESTPORT, CT 06880

SEAL:

STATE OF CONNECTICUT · ERIC J. ANDERSON · 32224 · LICENSED PROFESSIONAL ENGINEER

Digitally signed by Eric Anderson
Date: 2021.10.28 12:45:31-04'00'

COA: JPC.0000131

T-Mobile

DATE DRAWN:	09/29/21
ATC JOB NO:	13732384_G3
CUSTOMER ID:	WESTPORT/ MP X 41
CUSTOMER #:	CT11075C

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
   - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
   - B. AC/TELCO INTERFACE BOX (PPC)
   - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - F. GENERATORS & LIQUID PROPANE TANK
   - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   - H. ANTENNAS (INSTALLED BY OTHERS)
   - I. TRANSMISSION LINE
   - J. TRANSMISSION LINE JUMPERS
   - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
   - L. TRANSMISSION LINE GROUND KITS
   - M. HANGERS
   - N. HOISTING GRIPS
   - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
   - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
   - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ELECTRICAL NOTES:

1. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY TO OF THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

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A	PRELIM	JLK	09/29/21
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CRANBURYSU CT

T-MOBILE SITE NAME:
WESTPORT/ MP X 41

SITE ADDRESS:
2 SUNNY LANE
WESTPORT, CT 06880

SEAL:

Digitally signed by Eric Anderson
Date: 2021.10.28 12:45:34-04'00'

COA: JPC.0000131

T-Mobile

DATE DRAWN:	09/29/21
ATC JOB NO:	13732384_G3
CUSTOMER ID:	WESTPORT/ MP X 41
CUSTOMER #:	CT11075C

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

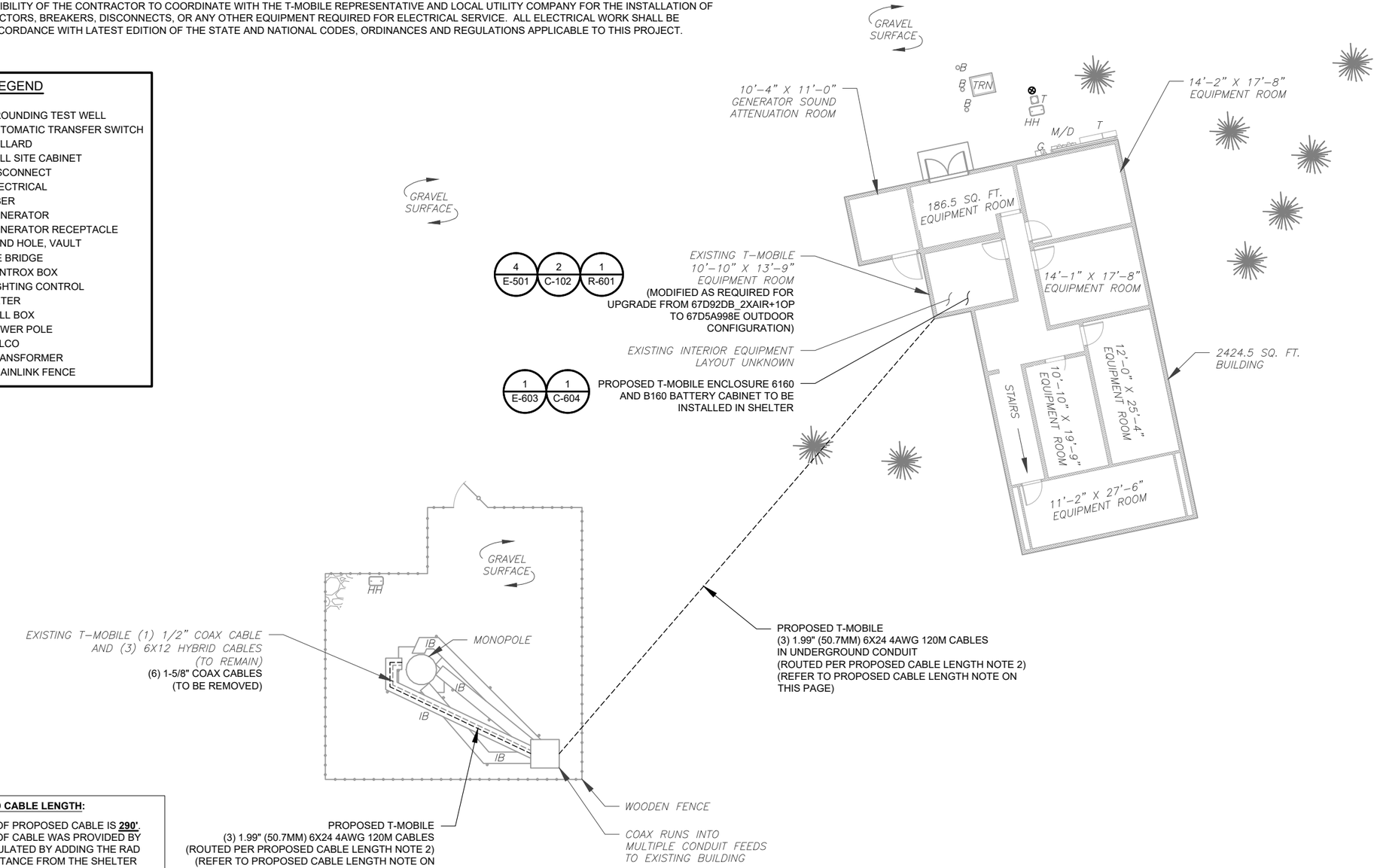
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
——x——	CHAINLINK FENCE



PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **290'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

1 DETAILED SITE PLAN

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 UNIT = 20 FEET

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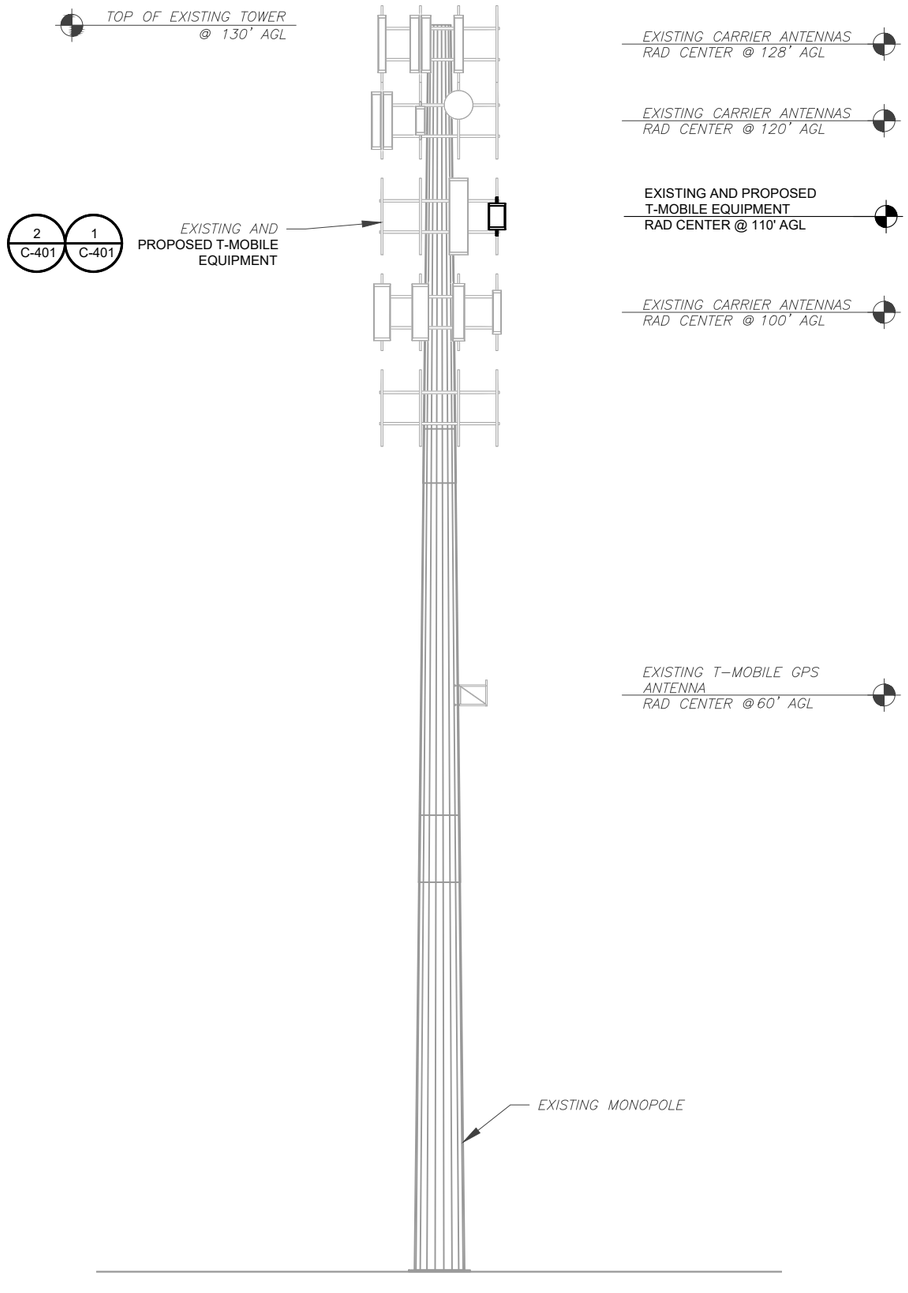
DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

PER MOUNT ANALYSIS COMPLETED BY POWER OF DESIGN, DATED 09/29/21, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



1 TOWER ELEVATION
SCALE: N.T.S.

TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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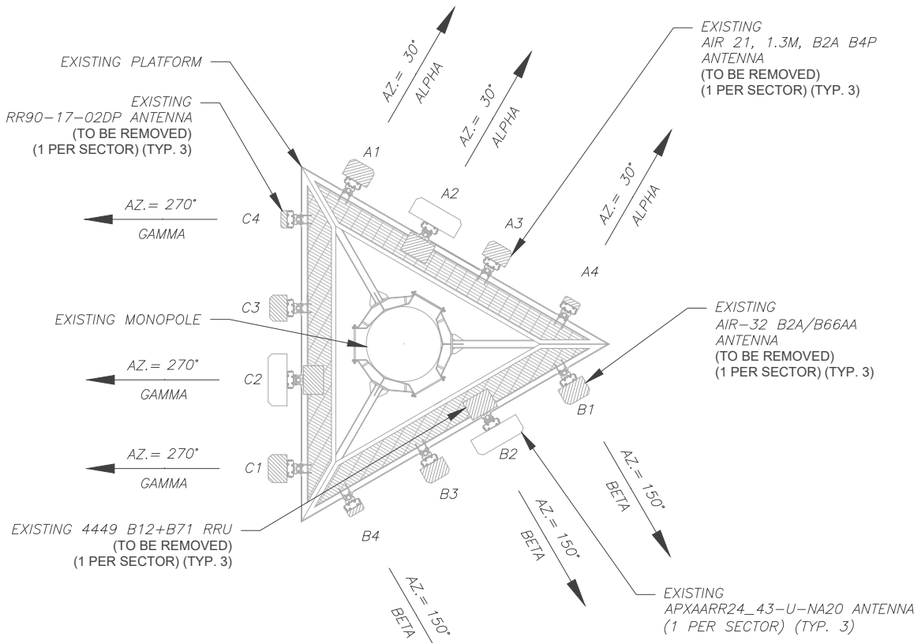
TOWER ELEVATION

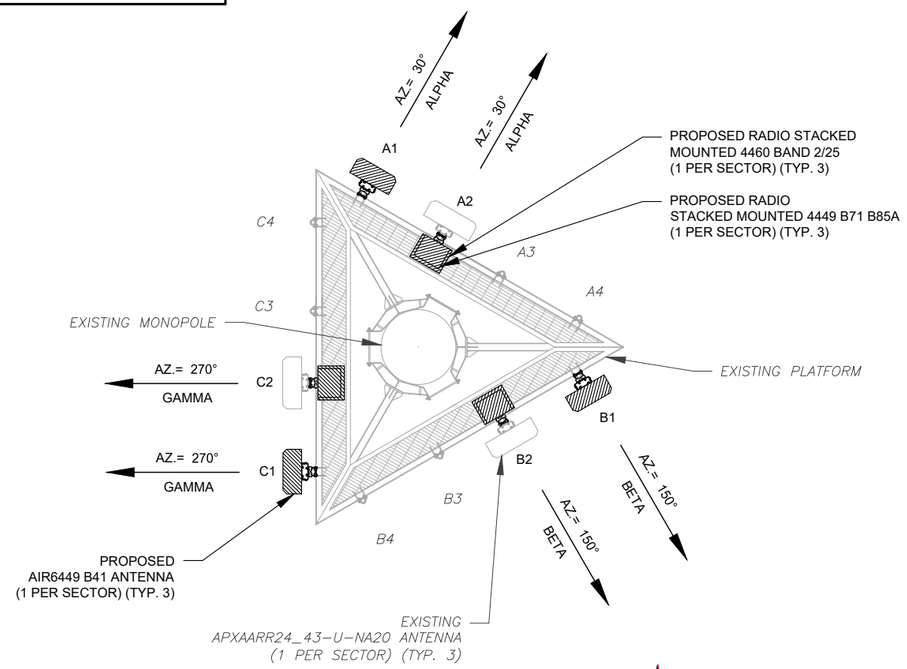
SHEET NUMBER:	REVISION:
C-201	0



1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY POWER OF DESIGN, DATED 09/29/21, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	110'	30°	A1	AIR-32 B2A/B66AA	L2100/L1900	0/0	RMV	–	–
			A2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	RMN	RADIO 4449 B12,B71	RMV
			A3	AIR 21, 1.3 M, B2A B4P	G1900/U2100	0/0	RMV	–	–
			A4	RR90-17-02DP	–	–	–	–	–
BETA	110'	150°	B1	AIR-32 B2A/B66AA	L2100/L1900	0/0	RMV	–	–
			B2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	RMN	RADIO 4449 B12,B71	RMV
			B3	AIR 21, 1.3 M, B2A B4P	G1900/U2100	0/0	RMV	–	–
			B4	RR90-17-02DP	–	–	–	–	–
GAMMA	110'	270°	C1	AIR-32 B2A/B66AA	L2100/L1900	0/0	RMV	–	–
			C2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	RMN	RADIO 4449 B12,B71	RMV
			C3	AIR 21, 1.3 M, B2A B4P	G1900/U2100	0/0	RMV	–	–
			C4	RR90-17-02DP	–	–	–	–	–

NOTES

1. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	110'	30°	A1	AIR6449 B41	L2500/N2500	0/0	ADD	-	-
			A2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	RMN	RADIO 4449 B71 B85A 4460 BAND 2/25	ADD ADD
			A3	-	-	-	-	-	-
			A4	-	-	-	-	-	-
BETA	110'	150°	B1	AIR6449 B41	L2500/N2500	0/0	ADD	-	-
			B2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	RMN	RADIO 4449 B71 B85A 4460 BAND 2/25	ADD ADD
			B3	-	-	-	-	-	-
			B4	-	-	-	-	-	-
GAMMA	110'	270°	C1	AIR6449 B41	L2500/N2500	0/0	ADD	-	-
			C2	APXVAARR24_43-U-NA20	L700/L600/N600	0/0	RMN	RADIO 4449 B71 B85A 4460 BAND 2/25	ADD ADD
			C3	-	-	-	-	-	-
			C4	-	-	-	-	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
–	–	(6) 1-5/8"	–	RMV
–	–	(1) 1/2"	(3) 6X12	RMN

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	(1) 1/2"	(3) 6X12	RMN
-	-	-	(3) 1.99" (50.7MM) 6/24 4AWG 120M	ADD

3 EQUIPMENT SCHEDULES

AMERICAN TOWER®

Colliers Engineering & Design
www.colliersengineering.com
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MADISON
135 New Road
Madison, CT 06443
Phone: 860.395.0055
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	09/29/21
0	FOR CONSTRUCTION	RMD	10/27/21

ATC SITE NUMBER:
411189

ATC SITE NAME:
CRANBURYSU CT

T-MOBILE SITE NAME:
WESTPORT/ MP X 41

SITE ADDRESS:
2 SUNNY LANE
WESTPORT, CT 06880

SEAL:

Digitally signed by Eric Anderson
Date: 2021.10.28 12:45:41-04'00'

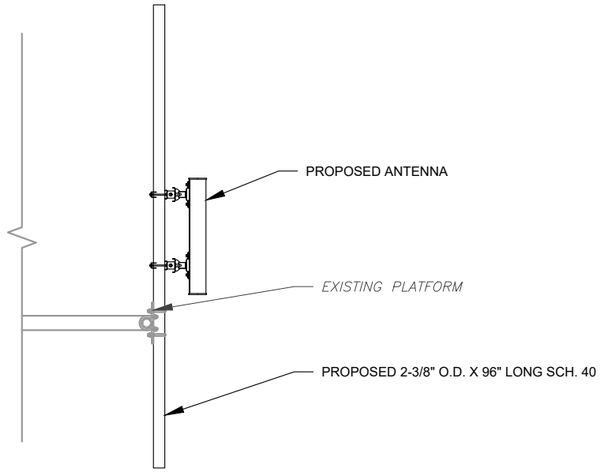
COA: JPC.0000131

T-Mobile

DATE DRAWN:	09/29/21
ATC JOB NO:	13732384_G3
CUSTOMER ID:	WESTPORT/ MP X 41
CUSTOMER #:	CT11075C

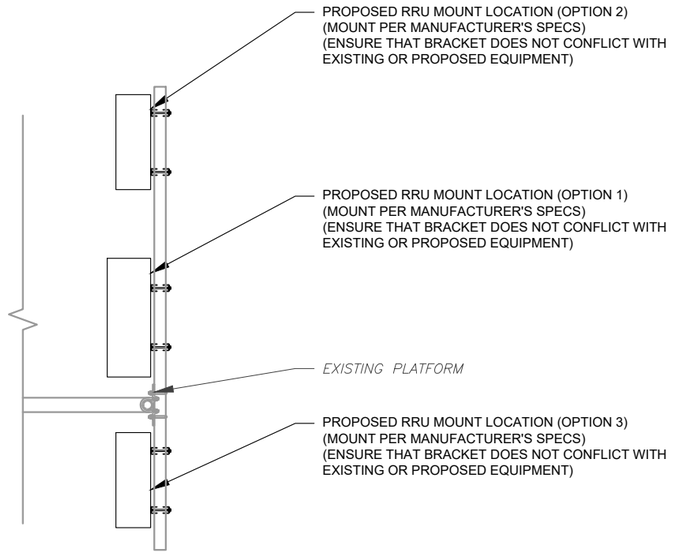
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

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135 New Road
Madison, CT 06443
Phone: 860.395.0055
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	09/29/21
0	FOR CONSTRUCTION	RMD	10/27/21

ATC SITE NUMBER:
411189

ATC SITE NAME:
CRANBURYSU CT

T-MOBILE SITE NAME:
WESTPORT/ MP X 41

SITE ADDRESS:
2 SUNNY LANE
WESTPORT, CT 06880

SEAL:

Digitally signed by Eric Anderson
Date: 2021.10.28 12:45:44-04'00'

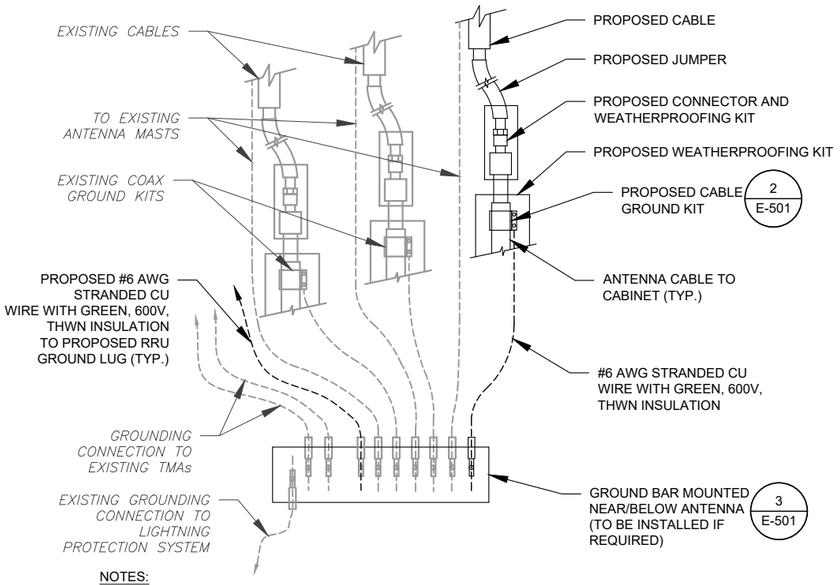
COA: JPC.0000131

T-Mobile

DATE DRAWN:	09/29/21
ATC JOB NO:	13732384_G3
CUSTOMER ID:	WESTPORT/ MP X 41
CUSTOMER #:	CT11075C

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

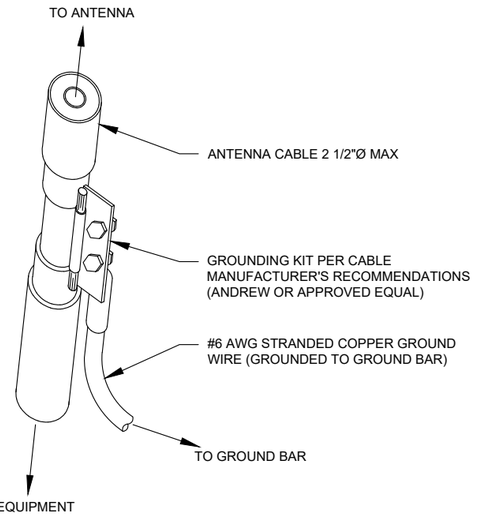


NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

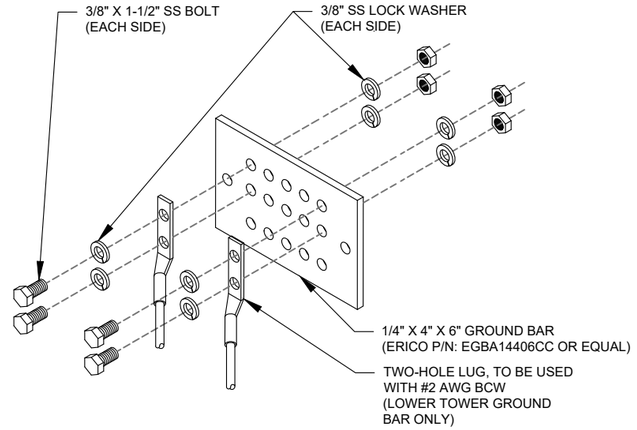


GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

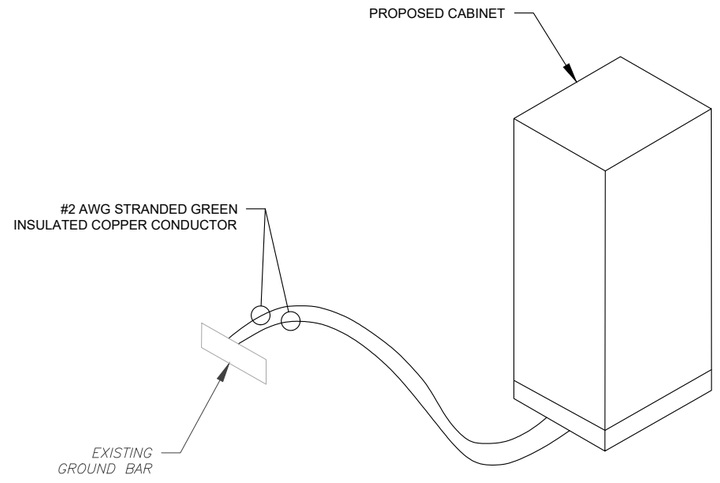
3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

ELECTRICAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
2. ATC HAS NOT VERIFIED ANY EXISTING T-MOBILE GROUND EQUIPMENT OR ELECTRICAL LOADING. PROPOSED WORK BASED ON INSTALLATION CONFIGURATION PROVIDED BY T-MOBILE. CONTRACTOR TO VERIFY EXISTING T-MOBILE PANEL HAS SUFFICIENT SPACE FOR PROPOSED BREAKER. PROPOSED CABLE AND CONDUIT SHALL BE MINIMUM SIZE PER BELOW IN CHART.
3. FOR SPECIFIC CABINET / ANCILLARY EQUIPMENT WIRING REQUIREMENTS, THE T-MOBILE CONTRACTOR SHOULD REFERENCE DESIGN DOCUMENTS PROVIDED BY T-MOBILE FOR THIS CURRENT PROJECT CONFIGURATION, IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS & NEC STANDARDS & PRACTICES.

OCPD SIZE	WIRE SIZE	GROUND SIZE	CONDUIT SIZE
80A/2P	2#3 AWG	#8 AWG	1-1/4"
100/2P	2#2 AWG	#8 AWG	1-1/4"
125A/2P	2#1 AWG	#8 AWG	1-1/2"
150A/2P	2#1/0 AWG	#8 AWG	1-1/2"



4 CABINET GROUNDING DETAIL

SCALE: N.T.S.

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	09/29/21
0	FOR CONSTRUCTION	RMD	10/27/21

ATC SITE NUMBER:
411189

ATC SITE NAME:
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T-MOBILE SITE NAME:
WESTPORT/ MP X 41

SITE ADDRESS:
2 SUNNY LANE
WESTPORT, CT 06880

SEAL:

Digitally signed by Eric Anderson
Date: 2021.10.28 12:45:47-04'00'

COA: JPC.0000131

T-Mobile

DATE DRAWN:	09/29/21
ATC JOB NO:	13732384_G3
CUSTOMER ID:	WESTPORT/ MP X 41
CUSTOMER #:	CT11075C

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

Proposed RAN Equipment			
Template: 67D5A998E Outdoor			
Enclosure	**1**	**2**	**3**
Enclosure Type	RBS 6131	Enclosure 6160	B160
Baseband	DUW30 U2100; DUG20 G1900; BB 6630 L700 L600 N600; BB 6630 L2100 L1900	BB 6648 L2500 N2500	
Hybrid Cable System	Ericsson 6x12 HCS 4AWG 110m **(x 3)**	PSU 4813 Ericsson Hybrid Trunk 6/24 4AWG 120m **(x 3)**	
Transport System		CSR IXRe V2 (Gen2)	

RAN Scope of Work:

** All cabinets are inside room, if space would be the problem we can remove 6131 Cabinet **

Remove Nortel Cabinet.

Remove and return all cabinet radios from existing base station cabinet.

Add (1) Enclosure 6160.

Add (1) iXRe Router to new Enclosure 6160.

Add (1) BB6648 for L2500 and N2500 (MMBB - Mixed Mode Baseband) to new Enclosure 6160.

Add (1) PSU4813 Voltage Booster to new Enclosure 6160.

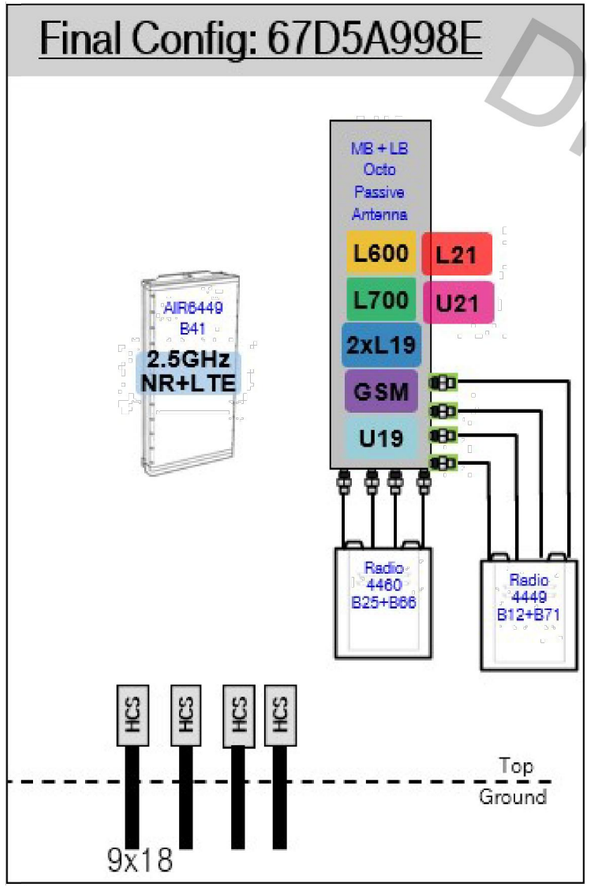
Add (1) Battery Cabinet B160.

Existing : (3) 6X12

Add (3) 6X24 HCS terminating at the Enclosure 6160. Connect DC for the AIR6449 B41 to the PSU4813 Voltage Booster.

1 CABINET CONFIGURATION

SCALE: NOT TO SCALE



2 ANTENNA CONFIGURATION

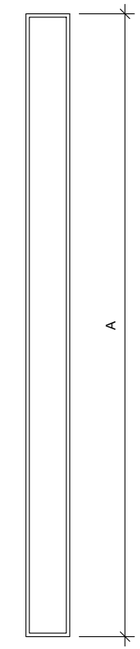
SCALE: NOT TO SCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

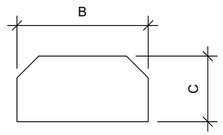
SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: -



FRONT VIEW

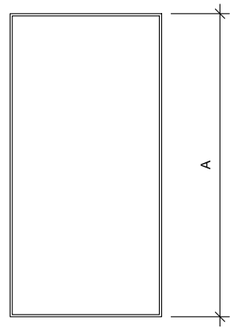


TOP VIEW

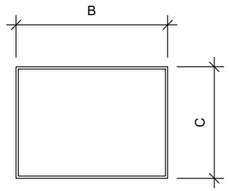
1 ANTENNA SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR6449 B41	33.1"	20.6"	8.6"	104.0



FRONT VIEW



TOP VIEW

2 RRU SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

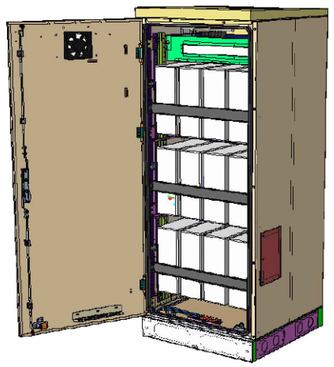
RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RADIO 4449 B71 B85A	15.0"	13.2"	10.5"	75.0
4460 BAND 2/25	19.6"	15.7"	12.1"	109.0

SUPPLEMENTAL

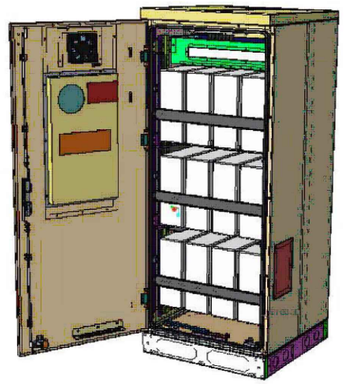
SHEET NUMBER: R-602

REVISION: -

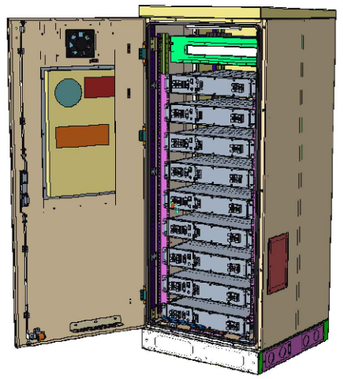
Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

Enclosure B160

Capacity
- VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah
- Li-Ion: 24U 19" / 23"
- Sodium-Nickel: 3x FIAMM

Electrical specification
- DC Output: -48VDC/200A
- Battery breakers: 2x 125/2p
- Alarms: Door open, Climate failure, MCB Connection

Mechanical specification
- Weight: 134kg
- Dimensions: 63 x 26 x 26 in. (incl. Base frame)
- Base frame height: 6 in.
- Material: Galvanized steel (180g/m^2)
- Color: Powder paint NCS 2002-B
- Door: Front access
- Locking type: Pad lock / cylinder

Environmental specification
- Ingress protection: VRLA/Sodium IP44
Li-Ion IP55
- Relative humidity: 15-100%

Climate system
- Air Conditioner
  - Fan type: DC
  - Cooling capacity: 500W @L35/L35
- Convection cooling
  - Emergency fan

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-603

REVISION: -

Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of -48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.

Preliminary technical specification for Enclosure 6160 AC

CAPACITY	
Rack space user equipment	19U (19" rack)
Hardware capabilities	Power and CPRI support for multi-standard remote radios (RRU or AIR) ERS Baseband and Transport units Li-Ion batteries 3PP equipment Additional power feed available as option
MECHANICAL SPECIFICATION	
Weight	145 kg (excluding active equipment) 320 lbs (excluding active equipment)
Dimension (H x W x D)	1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	150 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Power paint NCS 2002-B
Door	Front access
Rack type	19" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder
POWER SYSTEM	
Input voltage	3P+N+PE: 346/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-250 VAC
Input power	<33kW
Output load (-48VDC)	24kW
Total capacity (-48VDC)	31.5kW
AC SPD	Class 2/Type 2
DC SPD	Class 2/Type 2
PSU Slots	9x
Service outlet	Optional
Priority load	8x Circuit Breaker
LLVD 1	6x Circuit Breaker
LLVD 2	6x Circuit Breaker
CB ratings	3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A
Battery Interface	2x Circuit Breaker
Battery Circuit Breaker rating	125A 2pol (200A)
PSU capacity	3500W

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SUPPLEMENTAL

SHEET NUMBER: R-604

REVISION: -

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

POD
POWER OF DESIGN

Antenna Mount Analysis Report

ATC Site Name	:	**CRANBURYSU CT**
ATC Site Number	:	**411189**
Engineering Number	:	**13732384_C8_01**
Mount Elevation	:	**110 ft**
Carrier	:	**T-MOBILE**
Carrier Site Name	:	**Westport/ MP X 41**
Carrier Site Number	:	**CT 11075C**
Site Location	:	**2 SUNNY LANE** **Westport, CT 06880** **41.16291700, -73.37308300**
County	:	**Fairfield**
Date	:	**September 29, 2021**
Max Usage	:	**66 %**
Result	:	**Pass**

Prepared By: Akshaykumar Bhat
Jason G. Cheronis
Vice President of Structural Engineering

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

Jason Cheronis
Digitally signed by Jason Cheronis
Date: 2021.09.29 15:57:17 -04'00'

Antenna Loading

Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
110.0	110.0	3	APXVAARR24_43-U-NA20
		3	Ericsson Air6449 B41
		3	Ericsson Radio 4449 B71 B85A
		3	Ericsson 4460 BAND 2/25
60.0	60.0	1	Generic GPS*

*Equipment at a different elevation and excluded from analysis.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Square Flange Plate	66%	Pass
Standoff	62%	Pass
Mount Pipes	36%	Pass
Face	28%	Pass
Connect	26%	Pass
Support Rail	24%	Pass
Solid Round	8%	Pass
Grating Support	2%	Pass

POD GROUP - 1033 E. Turkeyfoot Lake Road, Suite 206 - Akron, OH 44312 - 330-961-7432 - www.podgrp.com

1 MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: R-605

REVISION: -

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**130 ft Monopole**
ATC Site Name	:	**CRANBURYSU CT,CT**
ATC Site Number	:	**411189**
Engineering Number	:	**13732384_C3_03**
Proposed Carrier	:	**T-MOBILE**
Carrier Site Name	:	**Westport/ MP X 41**
Carrier Site Number	:	**CT11075C**
Site Location	:	**2 SUNNY LANE** **WESTPORT, CT 06880-1906** **41.1629, -73.3731**
County	:	**Fairfield**
Date	:	**October 8, 2021**
Max Usage	:	**42%**
Result	:	**Pass**

STATE OF CONNECTICUT
ESHA KAUSHAL MODI
32593
LICENSED
PROFESSIONAL ENGINEER

Esha K Modi

Prepared By:

Faisal Wakid
Structural Engineer

Faisal Wakid

Reviewed By:

Authorized by "EOR"
08 Oct 2021 02:47:30 cosign

COA : PEC.0001553

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 130 ft Monopole to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower Drawings	EEI Job #10847, dated June 7, 2002
Foundation Drawing	EEI Project #10847, dated June 10, 2002
Geotechnical Report	Clarence Welti Association Project Name 2 Sunny Lane, dated January 29, 1999

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	117 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	Ss = 0.23, S_1 = 0.06
Site Class:	D - Stiff Soil - Default

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
129.0	1	VZW Unused Reserve (4849.41 sqin)	Triangular Platform with Handrails	(12) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
128.0	6	Quintel QS6656-5			
	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna			
	3	Samsung RT4401-48A			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	3	Commscope TD-850B-LTE78-43			
	1	Raycap RCMDC-6627-PF-48			
	3	Samsung MT6407-77A			
120.0	1	Andrew Microwaves VHLP800-11 (49 lbs)	Triangular Low Profile Platform	(3) 0.78" (19.7mm) 8 AWG 6 (3) 1 1/4" Hybriflex Cable (6) 1 5/8" Coax (1) 1.7" (43.2mm) Hybrid (1) 1/2" Coax (2) 2" conduit	SPRINT NEXTEL
	1	Generic 24" x 24" Junction Box			
	3	Nokia 2.5G MAA - AAHC(64T64R)			
	3	Alcatel-Lucent 1900MHz RRH			
	3	Alcatel-Lucent 800MHz RRH			
	3	Alcatel-Lucent RRH2x50-08			
	3	Commscope NNVV-65B-R4			
110.0	3	RFS APXVAARR24_43-U-NA20	Triangular Low Profile Platform	(3) 1 1/4" (1.25"-31.8mm) Fiber	T-MOBILE
100.0	3	CCI HPA-65R-BUU-H6	Triangular Low Profile Platform	(1) 0.39" (10mm) Fiber Trunk (1) 0.39" (9.8mm) Cable (4) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (2) 3" conduit	AT&T MOBILITY
	3	Powerwave Allgon 7770.00			
	1	Raycap DC9-48-60-24-8C-EV			
	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson Radio 4415 B30			
	3	Ericsson RRUS 8843 B2, B66A			
	1	Raycap DC6-48-60-18-8F			
	1	Generic GPS			
	1	Kathrein Scala 860 10006			
	6	Kathrein Scala 860-10025			
	3	CCI DMP65R-BU6DA			
	3	CCI OPA65R-BU6D			
86.0	3	Fujitsu TA08025-B605	Triangular Platform with Handrails	(1) 1.75" (44.5mm) Hybrid	DISH WIRELESS L.L.C.
	1	Commscope RDIDC-9181-PF-48			
	3	Fujitsu TA08025-B604			
	3	JMA Wireless MX08FRO665-21			
80.0	1	Generic GPS	Triangular Low Profile Platform	(1) 1/2" Coax	T-MOBILE
75.0	2	Generic 2" x 8" GPS	Triangular Low Profile Platform	(2) 0.63" (16mm) LDF4-50A	VERIZON WIRELESS
68.0	1	Generic GPS	Stand-Off	(1) 1/2" Coax	AT&T MOBILITY
	1	VZW Unused Reserve (16 sqin)	Flush	-	VERIZON WIRELESS

Equipment to be Removed

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
110.0	3	Ericsson KRY 112 71	-	(9) 1 5/8" Coax (6) 7/8" Coax	T-MOBILE
	3	Ericsson Radio 4449 B12,B71			
	3	Ericsson AIR-32 B2A/B66Aa			
	3	Ericsson AIR 21, 1.3 M, B2A B4P			
	3	EMS RR90-17-02DP			

Proposed Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
110.0	3	Ericsson Radio 4449 B71 B85A	Triangular Low Profile Platform w/Handrail Kit	(3) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Ericsson 4460 BAND 2/25			
	3	Ericsson Air6449 B41			

[1] Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	41%	Pass
Shaft	36%	Pass
Base Plate	31%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	2724.0	42%
Axial (Kips)	65.4	37%
Shear (Kips)	28.8	22%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
120.0	Andrew Microwaves VHLP800-11 (49 lbs)	SPRINT NEXTEL	0.508	0.450
110.0	Ericsson 4460 BAND 2/25	T-MOBILE	0.432	0.430
	Ericsson Air6449 B41			
	Ericsson Radio 4449 B71 B85A			

***Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H**

Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

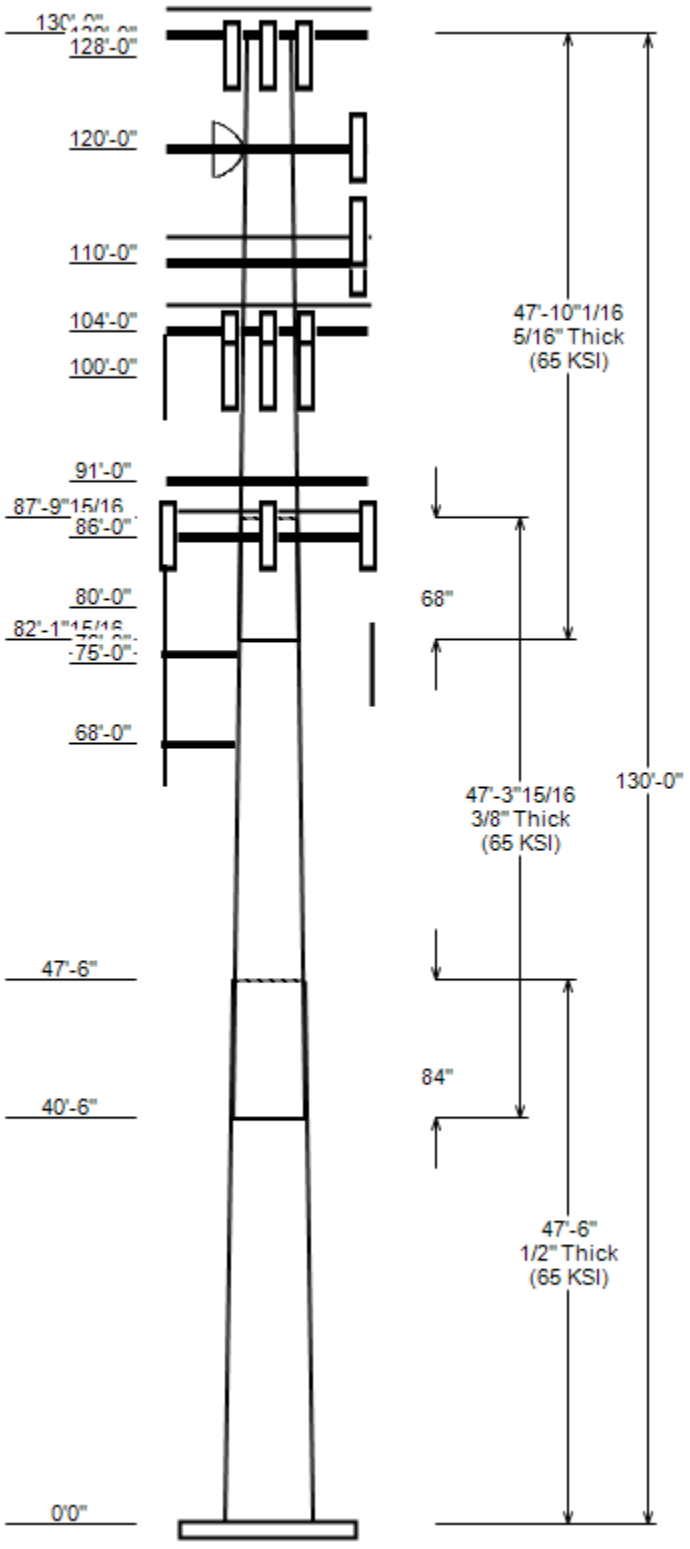
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

JOB INFORMATION

Asset :	411189, CRANBURYSU CT	Height :	130 ft
Client :	T-MOBILE	Base Width :	62
Code :	ANSI/TIA-222-H	Shape :	18 Sides



SITE PARAMETERS

Base Elev (ft):	0.00	Structure Class:	II
Taper :	0.27100 (In/ft)	Exposure :	B
Topographic Category :	1	Topographic Feature:	
Topo Method :	Method 1		

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Diameter (in) Across Flats Bottom	Thick (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
1	47.500	49.14	62.00	0.500		0.000	18 Sides	65
2	47.330	38.97	51.78	0.375	Slip Joint	84.000	18 Sides	65
3	47.837	28.18	41.13	0.312	Slip Joint	68.000	18 Sides	65

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
130.0	130.0	1	Generic Flat Platform with Han
129.0	129.0	1	VZW Unused Reserve (4849.41 sq
128.0	128.0	3	Samsung Outdoor CBRS 20W RRH –
128.0	128.0	3	Samsung RT4401-48A
128.0	128.0	3	Samsung B2/B66A RRH-BR049
128.0	128.0	3	Samsung B5/B13 RRH-BR04C
128.0	128.0	3	Commscope TD-850B-LTE78-43
128.0	128.0	1	Raycap RCMDC-6627-PF-48
128.0	128.0	3	Samsung MT6407-77A
128.0	128.0	6	Quintel QS6656-5
120.0	120.0	3	Alcatel-Lucent RRH2x50-08
120.0	120.0	3	Alcatel-Lucent 800MHz RRH
120.0	120.0	3	Alcatel-Lucent 1900MHz RRH
120.0	120.0	3	Nokia 2.5G MAA - AAHC(64T64R)
120.0	120.0	1	Generic 24" x 24" Junction Box
120.0	120.0	1	Andrew Microwaves VHLP800-11 (
120.0	120.0	3	Commscope NNVV-65B-R4
120.0	120.0	1	Flat Low Profile Platform
110.0	110.0	3	Ericsson Radio 4449 B71 B85A
110.0	110.0	3	Ericsson 4460 BAND 2/25
110.0	110.0	3	Ericsson Air6449 B41
110.0	113.0	3	RFS APXVAARR24_43-U-NA20
110.0	110.0	1	Generic Flat Platform with Han
104.0	104.0	1	Generic Flat Platform with Han
100.0	100.0	6	Kathrein Scala 860-10025
100.0	100.0	1	Kathrein Scala 860 10006
100.0	100.0	1	Generic GPS
100.0	104.0	1	Raycap DC6-48-60-18-8F
100.0	100.0	3	Ericsson RRUS 8843 B2, B66A
100.0	100.0	3	Ericsson Radio 4415 B30
100.0	100.0	3	Ericsson RRUS 4449 B5, B12
100.0	100.0	1	Raycap DC9-48-60-24-8C-EV
100.0	104.0	3	Powerwave Allgon 7770.00
100.0	104.0	3	CCI HPA-65R-BUU-H6
100.0	100.0	3	CCI DMP65R-BU6DA
100.0	100.0	3	CCI OPA65R-BU6D
91.0	91.0	1	Empty Flat Low Profile Platfor
86.0	86.0	1	Commscope RDIDC-9181-PF-48
86.0	86.0	3	Fujitsu TA08025-B605
86.0	86.0	3	Fujitsu TA08025-B604
86.0	86.0	3	JMA Wireless MX08FRO665-21
86.0	86.0	1	Generic Flat Platform with Han
80.0	80.0	1	Generic GPS
76.0	76.0	1	Stand-Off
75.0	75.0	2	Generic 2" x 8" GPS

Model ID : 27956 10/8/2021 13:25:36

JOB INFORMATION

Asset :	411189, CRANBURYSU CT	Height :	130 ft
Client :	T-MOBILE	Base Width :	62
Code :	ANSI/TIA-222-H	Shape :	18 Sides

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
68.0	68.0	1	VZW Unused Reserve (16 sqin)
68.0	68.0	1	Generic GPS
68.0	68.0	1	Side Arm

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	128.0	1 5/8" Hybriflex	No
0.0	128.0	1 5/8" Coax	Yes
0.0	128.0	1 5/8" Coax	Yes
0.0	120.0	2" conduit	No
0.0	120.0	1/2" Coax	No
0.0	120.0	1.7" (43.2mm) Hybrid	No
0.0	120.0	1 5/8" Coax	No
0.0	120.0	1 1/4" Hybriflex Cable	No
0.0	120.0	0.78" (19.7mm) 8 AWG 6	No
0.0	110.0	1.99" (50.7mm) Hybrid	No
0.0	110.0	1 1/4" (1.25"- 31.8mm) Fiber	No
0.0	100.0	3" conduit	No
0.0	100.0	1 5/8" Coax	No
0.0	100.0	0.78" (19.7mm) 8 AWG 6	No
0.0	100.0	0.39" (9.8mm) Cable	No
0.0	100.0	0.39" (10mm) Fiber Trunk	No
0.0	86.0	1.75" (44.5mm) Hybrid	No
0.0	80.0	1/2" Coax	No
0.0	75.0	0.63" (16mm) LDF4-50A	No
0.0	68.0	1/2" Coax	No

LOAD CASES

1.2D + 1.0W Normal	117 mph wind with no ice
0.9D + 1.0W Normal	117 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Nor	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh Nor	Seismic
0.9D - 1.0Ev + 1.0Eh Nor	Seismic (Reduced DL)
1.0D + 1.0W Service Norm	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W Normal	2723.96	28.81	65.42
0.9D + 1.0W Normal	2706.82	28.80	49.06
1.2D + 1.0Di + 1.0Wi Normal	704.73	7.63	86.73
1.2D + 1.0Ev + 1.0Eh Normal	202.81	2.01	65.69
0.9D - 1.0Ev + 1.0Eh Normal	201.17	2.01	44.69
1.0D + 1.0W Service Normal	638.32	6.78	54.53

DISH DEFLECTIONS

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W Service Normal	120.00	6.104	0.447

ANALYSIS PARAMETERS

Location:	Fairfield County,CT	Height:	130 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	62.00 in
Manufacturer:	EEI	Top Diameter:	28.18 in
K_d (non-service):	0.95	Taper:	0.2710 in/ft
K_e:	1.00	Rotation:	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed w/o Ice:	117 mph
Risk Category:	II	Design Wind Speed w/Ice:	50 mph
Topo Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	51.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil			Period Based on Rayleigh Method (sec):	1.62
T_L (sec):	6	P:	1	$C_{s:}$	0.037
$S_{s:}$	0.233	$S_{1:}$	0.056	C_s Max:	0.037
$F_{a:}$	1.600	$F_{v:}$	2.400	C_s Min:	0.030
$S_{ds:}$	0.249	$S_{d1:}$	0.090		

LOAD CASES

1.2D + 1.0W Normal	117 mph wind with no ice
0.9D + 1.0W Normal	117 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Normal	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL)
1.0D + 1.0W Service Normal	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in^2)	Bottom Ix (in^4)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (in)	Top Area (in^2)	Top Ix (in^4)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	47.50	0.5000	65		0.00	14,125	62.00	0.000	97.60	46,638.0	20.45	124.00	49.14	47.50	77.19	23,072.0	15.92	98.28	0.2707
2-18	47.33	0.3750	65	Slip	84.00	8,626	51.78	40.500	61.19	20,432.2	22.94	138.09	38.97	87.83	45.94	8,645.4	16.91	103.92	0.2707
3-18	47.84	0.3125	65	Slip	68.00	5,544	41.13	82.163	40.48	8,521.7	21.80	131.62	28.18	130.00	27.64	2,711.5	14.49	90.17	0.2707
				Shaft Weight		28,295													

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
130.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3669.43	56.206	1.00
129.00	VZW Unused Reserve (4849.41 sq	1	0.75	0.000	0.00	33.676	0.90	0.00	49.108	0.90
128.00	Commscope TD-850B-LTE78-43	3	0.75	0.000	53.00	1.964	0.50	87.92	2.569	0.50
128.00	Samsung B5/B13 RRH-BR04C	3	0.75	0.000	70.30	1.875	0.50	107.87	2.468	0.50
128.00	Samsung B2/B66A RRH-BR049	3	0.75	0.000	84.40	1.875	0.50	126.30	2.468	0.50
128.00	Samsung RT4401-48A	3	0.75	0.000	18.60	0.996	0.50	36.33	1.445	0.50
128.00	Samsung Outdoor CBRS 20W RRH –	3	0.75	0.000	4.40	0.892	0.50	16.22	1.312	0.50
128.00	Raycap RCMDC-6627-PF-48	1	0.75	0.000	32.00	4.056	1.00	115.47	4.952	1.00
128.00	Samsung MT6407-77A	3	0.75	0.000	81.60	4.709	0.61	148.54	5.707	0.61
128.00	Quintel QS6656-5	6	0.75	0.000	65.00	8.133	0.74	195.85	9.964	0.74
120.00	Nokia 2.5G MAA - AAHC(64T64R)	3	0.80	0.000	103.60	4.203	0.64	177.09	5.077	0.64
120.00	Alcatel-Lucent 1900MHz RRH	3	0.80	0.000	44.00	3.258	0.72	115.02	4.033	0.72
120.00	Alcatel-Lucent 800MHz RRH	3	0.80	0.000	53.00	2.134	0.67	101.12	2.772	0.67
120.00	Alcatel-Lucent RRH2x50-08	3	0.80	0.000	52.90	1.701	0.50	91.53	2.263	0.50
120.00	Andrew Microwaves VHLP800-11 (	1	1.00	0.000	49.00	7.760	1.00	152.79	8.824	1.00
120.00	Generic 24" x 24" Junction Box	1	0.80	0.000	20.00	4.800	1.00	94.85	5.726	1.00
120.00	Flat Low Profile Platform	1	1.00	0.000	1500.00	26.100	1.00	1922.37	38.546	1.00
120.00	Commscope NNVV-65B-R4	3	0.80	0.000	77.40	12.271	0.64	241.21	14.099	0.64
110.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3647.86	55.951	1.00
110.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	192.06	6.708	0.63
110.00	Ericsson 4460 BAND 2/25	3	0.75	0.000	109.00	2.564	0.67	166.11	3.245	0.67
110.00	Ericsson Radio 4449 B71 B85A	3	0.75	0.000	75.00	1.650	0.50	113.86	2.199	0.50
110.00	RFS APXVAARR24_43-U-NA20	3	0.75	3.000	127.90	20.243	0.63	381.57	22.640	0.63
104.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3641.85	55.880	1.00
100.00	CCI OPA65R-BU6D	3	0.75	0.000	63.20	12.871	0.63	230.43	14.661	0.63
100.00	CCI DMP65R-BU6DA	3	0.75	0.000	79.40	12.709	0.63	244.23	14.494	0.63
100.00	CCI HPA-65R-BUU-H6	3	0.75	4.000	51.00	9.658	0.69	191.38	11.432	0.69
100.00	Powerwave Allgon 7770.00	3	0.75	4.000	35.00	5.508	0.65	107.74	6.868	0.65
100.00	Raycap DC9-48-60-24-8C-EV	1	0.75	0.000	16.00	4.788	1.00	98.61	5.729	1.00
100.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	112.24	2.566	0.50
100.00	Ericsson Radio 4415 B30	3	0.75	0.000	43.00	1.650	0.50	69.97	2.194	0.50
100.00	Ericsson RRUS 8843 B2, B66A	3	0.75	0.000	72.00	1.639	0.50	111.22	2.180	0.50
100.00	Raycap DC6-48-60-18-8F	1	0.75	4.000	20.00	1.260	1.00	53.69	1.681	1.00
100.00	Generic GPS	1	0.75	0.000	10.00	0.900	1.00	28.72	1.309	1.00
100.00	Kathrein Scala 860-10025	6	0.75	0.000	1.10	0.140	0.50	4.53	0.334	0.50
100.00	Kathrein Scala 860 10006	1	0.75	0.000	3.00	0.269	1.00	22.38	0.668	1.00
91.00	Empty Flat Low Profile Platfor	1	1.00	0.000	1500.00	26.100	1.00	1911.49	38.226	1.00
86.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3621.88	55.644	1.00
86.00	JMA Wireless MX08FRO665-21	3	0.75	0.000	64.50	12.489	0.64	226.82	14.264	0.64
86.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	114.56	2.543	0.50
86.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	100.73	2.543	0.50
86.00	Commscope RDIDC-9181-PF-48	1	0.75	0.000	21.90	1.867	1.00	57.84	2.435	1.00
80.00	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	28.31	1.300	1.00
76.00	Stand-Off	1	1.00	0.000	100.00	3.000	1.00	130.42	3.978	1.00
75.00	Generic 2" x 8" GPS	2	1.00	0.000	10.00	0.141	1.00	13.44	0.351	1.00
68.00	Side Arm	1	1.00	0.000	126.00	5.000	1.00	180.06	7.145	1.00
68.00	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	28.02	1.294	1.00
68.00	VZW Unused Reserve (16 sqin)	1	1.00	0.000	0.00	0.111	1.00	0.00	0.159	1.00
Totals	Num Loadings: 48	109			18,865.80			31,471.41		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face	Exposed To Wind	Carrier

											(in)		
0.00	128.00	6	1 5/8" Coax	1.98	0.82	N	6	1	1	90	1	Y	VERIZON WIREL
0.00	128.00	6	1 5/8" Coax	1.98	0.82	N	6	1	1	90	1	Y	VERIZON WIREL
0.00	128.00	2	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIREL
0.00	120.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	120.00	3	1 1/4" Hybriflex Cabl	1.54	1	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	120.00	3	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	120.00	2	2" conduit	2.38	3.65	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	120.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	120.00	1	1.7" (43.2mm) Hybrid	1.7	1.78	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	110.00	3	1.99" (50.7mm) Hybrid	1.99	1.9	N	0	0	0	0	0	N	T-MOBILE
0.00	110.00	3	1 1/4" (1.25"- 31.8mm	1.25	1.05	N	0	0	0	0	0	N	T-MOBILE
0.00	100.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	2	3" conduit	3.5	7.58	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	1	0.39" (9.8mm) Cable	0.39	0.07	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	1	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	86.00	1	1.75" (44.5mm) Hybrid	1.75	2.72	N	0	0	0	0	0	N	DISH WIRELESS
0.00	80.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	T-MOBILE
0.00	75.00	2	0.63" (16mm) LDF4-50A	0.63	0.15	N	0	0	0	0	0	N	VERIZON WIREL
0.00	68.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	AT&T MOBILITY

SEGMENT PROPERTIES

(Max Len: 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)
0.00		0.5000	62.000	97.597	46,638.00	20.45	124.00	77.3	1481.6	0.0	0.0
5.00		0.5000	60.646	95.449	43,625.50	19.98	121.29	77.9	1416.8	0.0	1,642.2
10.00		0.5000	59.293	93.300	40,745.70	19.50	118.59	78.5	1353.5	0.0	1,605.7
15.00		0.5000	57.939	91.152	37,995.40	19.02	115.88	79	1291.6	0.0	1,569.1
20.00		0.5000	56.585	89.004	35,371.80	18.54	113.17	79.6	1231.2	0.0	1,532.6
25.00		0.5000	55.231	86.856	32,871.80	18.07	110.46	80.2	1172.2	0.0	1,496.0
30.00		0.5000	53.878	84.707	30,492.50	17.59	107.76	80.7	1114.7	0.0	1,459.5
35.00		0.5000	52.524	82.559	28,230.90	17.11	105.05	81.3	1058.6	0.0	1,422.9
40.00		0.5000	51.170	80.411	26,083.90	16.63	102.34	81.8	1004.0	0.0	1,386.4
40.50	Bot - Section 2	0.5000	51.035	80.196	25,875.40	16.59	102.07	81.9	998.6	0.0	136.6
45.00		0.5000	49.816	78.262	24,048.70	16.16	99.63	82.4	950.8	0.0	2,139.0
47.50	Top - Section 1	0.3750	49.890	58.933	18,254.80	22.05	133.04	75.5	720.7	0.0	1,166.0
50.00		0.3750	49.213	58.127	17,516.30	21.73	131.23	75.8	701.0	0.0	497.9
55.00		0.3750	47.859	56.516	16,099.70	21.09	127.62	76.6	662.6	0.0	975.3
60.00		0.3750	46.505	54.905	14,761.70	20.46	124.01	77.3	625.2	0.0	947.8
65.00		0.3750	45.152	53.293	13,499.90	19.82	120.40	78.1	588.9	0.0	920.4
68.00		0.3750	44.339	52.327	12,778.40	19.44	118.24	78.5	567.6	0.0	539.1
70.00		0.3750	43.798	51.682	12,312.10	19.18	116.79	78.8	553.7	0.0	353.9
75.00		0.3750	42.444	50.071	11,196.10	18.55	113.18	79.6	519.6	0.0	865.6
76.00		0.3750	42.173	49.749	10,981.30	18.42	112.46	79.7	512.9	0.0	169.8
80.00		0.3750	41.090	48.460	10,149.70	17.91	109.57	80.3	486.5	0.0	668.4
82.16	Bot - Section 3	0.3750	40.505	47.763	9,717.90	17.63	108.01	80.7	472.6	0.0	354.2
85.00		0.3750	39.737	46.849	9,170.60	17.27	105.96	81.1	454.6	0.0	843.7
86.00		0.3750	39.466	46.526	8,982.70	17.15	105.24	81.2	448.3	0.0	293.6
87.83	Top - Section 2	0.3125	39.596	38.962	7,596.40	20.93	126.71	76.8	377.9	0.0	532.0
90.00		0.3125	39.008	38.380	7,260.60	20.60	124.83	77.2	366.6	0.0	285.5
91.00		0.3125	38.737	38.111	7,109.30	20.45	123.96	77.4	361.5	0.0	130.1
95.00		0.3125	37.654	37.037	6,525.00	19.84	120.49	78.1	341.3	0.0	511.4
100.00		0.3125	36.301	35.694	5,840.80	19.07	116.16	79	316.9	0.0	618.7
104.00		0.3125	35.218	34.620	5,329.20	18.46	112.70	79.7	298.0	0.0	478.5
105.00		0.3125	34.947	34.352	5,206.10	18.31	111.83	79.9	293.4	0.0	117.3
110.00		0.3125	33.593	33.009	4,619.20	17.54	107.50	80.8	270.8	0.0	573.0
115.00		0.3125	32.239	31.666	4,078.20	16.78	103.17	81.7	249.1	0.0	550.2
120.00		0.3125	30.886	30.324	3,581.10	16.02	98.83	82.6	228.4	0.0	527.3
125.00		0.3125	29.532	28.981	3,126.10	15.25	94.50	82.6	208.5	0.0	504.5
128.00		0.3125	28.720	28.175	2,872.60	14.79	91.90	82.6	197.0	0.0	291.7
129.00		0.3125	28.449	27.907	2,791.30	14.64	91.04	82.6	193.2	0.0	95.4
130.00		0.3125	28.178	27.638	2,711.50	14.49	90.17	82.6	189.5	0.0	94.5
								Totals:			28,295.8

Load Case: 1.2D + 1.0W Normal 117 mph wind with no ice 19 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.20
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-65.42	-28.81	0.00	-2,724.0	0.00	2,723.96	6,793.61	1,712.83	9,514.56	8,594.34	0	0	0.327
5.00	-63.01	-28.42	0.00	-2,579.9	0.00	2,579.90	6,692.31	1,675.12	9,100.36	8,278.33	0.04	-0.08	0.321
10.00	-60.65	-28.04	0.00	-2,437.8	0.00	2,437.79	6,588.83	1,637.42	8,695.37	7,965.37	0.17	-0.16	0.316
15.00	-58.33	-27.65	0.00	-2,297.6	0.00	2,297.62	6,483.18	1,599.72	8,299.60	7,655.67	0.39	-0.25	0.309
20.00	-56.06	-27.28	0.00	-2,159.4	0.00	2,159.35	6,375.36	1,562.02	7,913.05	7,349.39	0.69	-0.33	0.303
25.00	-53.83	-26.91	0.00	-2,023.0	0.00	2,022.96	6,265.37	1,524.32	7,535.72	7,046.72	1.08	-0.41	0.296
30.00	-51.65	-26.53	0.00	-1,888.4	0.00	1,888.44	6,153.21	1,486.61	7,167.60	6,747.85	1.56	-0.5	0.289
35.00	-49.51	-26.15	0.00	-1,755.8	0.00	1,755.76	6,038.88	1,448.91	6,808.70	6,452.96	2.13	-0.58	0.281
40.00	-47.43	-25.93	0.00	-1,625.0	0.00	1,624.99	5,922.38	1,411.21	6,459.02	6,162.22	2.78	-0.67	0.272
40.50	-47.21	-25.74	0.00	-1,612.0	0.00	1,612.03	5,910.61	1,407.44	6,424.56	6,133.39	2.85	-0.68	0.271
45.00	-44.26	-25.44	0.00	-1,496.2	0.00	1,496.20	5,803.70	1,373.51	6,118.56	5,875.83	3.53	-0.75	0.263
47.50	-42.65	-25.22	0.00	-1,432.6	0.00	1,432.61	4,002.81	1,034.27	4,625.51	4,079.20	3.94	-0.8	0.362
50.00	-41.83	-24.93	0.00	-1,369.6	0.00	1,369.56	3,967.67	1,020.13	4,499.93	3,987.71	4.36	-0.84	0.355
55.00	-40.22	-24.53	0.00	-1,244.9	0.00	1,244.92	3,895.77	991.85	4,253.95	3,806.08	5.3	-0.95	0.338
60.00	-38.65	-24.12	0.00	-1,122.3	0.00	1,122.29	3,821.70	963.58	4,014.88	3,626.44	6.35	-1.05	0.320
65.00	-37.12	-23.79	0.00	-1,001.7	0.00	1,001.68	3,745.46	935.30	3,782.73	3,448.96	7.51	-1.15	0.301
68.00	-36.06	-23.38	0.00	-930.3	0.00	930.32	3,698.67	918.33	3,646.76	3,343.58	8.25	-1.21	0.289
70.00	-35.46	-23.11	0.00	-883.6	0.00	883.55	3,667.05	907.02	3,557.49	3,273.81	8.77	-1.25	0.280
75.00	-33.99	-22.83	0.00	-768.0	0.00	768.03	3,586.46	878.75	3,339.16	3,101.20	10.14	-1.35	0.258
76.00	-33.57	-22.53	0.00	-745.2	0.00	745.19	3,570.09	873.09	3,296.33	3,066.99	10.42	-1.37	0.253
80.00	-32.43	-22.24	0.00	-655.1	0.00	655.06	3,503.71	850.47	3,127.75	2,931.29	11.6	-1.44	0.233
82.16	-31.82	-22.04	0.00	-606.9	0.00	606.94	3,467.23	838.23	3,038.42	2,858.66	12.26	-1.48	0.222
85.00	-30.58	-21.85	0.00	-544.4	0.00	544.44	3,418.78	822.19	2,923.25	2,764.27	13.16	-1.53	0.207
86.00	-26.45	-19.34	0.00	-522.6	0.00	522.59	3,401.54	816.54	2,883.18	2,731.23	13.48	-1.54	0.200
87.83	-25.67	-19.16	0.00	-487.2	0.00	487.19	2,692.45	683.79	2,426.19	2,176.03	14.08	-1.57	0.234
90.00	-25.16	-19.03	0.00	-445.6	0.00	445.61	2,665.65	673.56	2,354.17	2,121.90	14.8	-1.61	0.220
91.00	-23.15	-17.86	0.00	-426.6	0.00	426.58	2,653.16	668.85	2,321.35	2,097.06	15.14	-1.62	0.213
95.00	-22.22	-17.49	0.00	-355.1	0.00	355.14	2,602.34	650.00	2,192.36	1,998.45	16.53	-1.69	0.187
100.00	-19.62	-14.49	0.00	-264.2	0.00	264.20	2,536.86	626.44	2,036.30	1,876.95	18.33	-1.75	0.149
104.00	-15.90	-12.63	0.00	-206.2	0.00	206.24	2,482.92	607.58	1,915.61	1,781.28	19.83	-1.8	0.123
105.00	-15.71	-12.40	0.00	-193.6	0.00	193.61	2,469.21	602.87	1,886.01	1,757.59	20.2	-1.81	0.117
110.00	-10.40	-8.69	0.00	-128.4	0.00	128.39	2,399.39	579.31	1,741.47	1,640.54	22.13	-1.86	0.083
115.00	-9.56	-8.29	0.00	-84.9	0.00	84.94	2,327.39	555.74	1,602.70	1,525.98	24.09	-1.89	0.060
120.00	-5.77	-4.98	0.00	-43.5	0.00	43.47	2,252.90	532.18	1,469.69	1,413.90	26.08	-1.91	0.033
125.00	-5.10	-4.68	0.00	-18.6	0.00	18.55	2,153.14	508.62	1,342.44	1,290.85	28.09	-1.92	0.017
128.00	-3.14	-2.73	0.00	-4.5	0.00	4.51	2,093.29	494.48	1,268.86	1,219.72	29.3	-1.93	0.005
129.00	-3.06	-1.78	0.00	-1.8	0.00	1.78	2,073.34	489.76	1,244.79	1,196.45	29.7	-1.93	0.003
130.00	0.00	-1.68	0.00	0.0	0.00	0.00	2,053.39	485.05	1,220.95	1,173.41	30.1	-1.93	0.000

Load Case: 0.9D + 1.0W Normal 117 mph wind with no ice 19 Iterations
Gust Response Factor: 1.10
Dead load Factor: 0.90
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-49.06	-28.80	0.00	-2,706.8	0.00	2,706.82	6,793.61	1,712.83	9,514.56	8,594.34	0	0	0.322
5.00	-47.24	-28.39	0.00	-2,562.8	0.00	2,562.82	6,692.31	1,675.12	9,100.36	8,278.33	0.04	-0.08	0.317
10.00	-45.46	-27.98	0.00	-2,420.9	0.00	2,420.88	6,588.83	1,637.42	8,695.37	7,965.37	0.17	-0.16	0.311
15.00	-43.72	-27.58	0.00	-2,281.0	0.00	2,280.99	6,483.18	1,599.72	8,299.60	7,655.67	0.39	-0.24	0.305
20.00	-42.00	-27.18	0.00	-2,143.1	0.00	2,143.09	6,375.36	1,562.02	7,913.05	7,349.39	0.69	-0.33	0.298
25.00	-40.32	-26.80	0.00	-2,007.2	0.00	2,007.17	6,265.37	1,524.32	7,535.72	7,046.72	1.07	-0.41	0.292
30.00	-38.68	-26.41	0.00	-1,873.2	0.00	1,873.19	6,153.21	1,486.61	7,167.60	6,747.85	1.55	-0.49	0.284
35.00	-37.06	-26.02	0.00	-1,741.2	0.00	1,741.15	6,038.88	1,448.91	6,808.70	6,452.96	2.11	-0.58	0.276
40.00	-35.50	-25.79	0.00	-1,611.1	0.00	1,611.07	5,922.38	1,411.21	6,459.02	6,162.22	2.76	-0.66	0.268
40.50	-35.33	-25.59	0.00	-1,598.2	0.00	1,598.18	5,910.61	1,407.44	6,424.56	6,133.39	2.83	-0.67	0.267
45.00	-33.12	-25.28	0.00	-1,483.0	0.00	1,483.03	5,803.70	1,373.51	6,118.56	5,875.83	3.5	-0.75	0.258
47.50	-31.90	-25.06	0.00	-1,419.8	0.00	1,419.83	4,002.81	1,034.27	4,625.51	4,079.20	3.91	-0.79	0.357
50.00	-31.28	-24.76	0.00	-1,357.2	0.00	1,357.17	3,967.67	1,020.13	4,499.93	3,987.71	4.33	-0.83	0.349
55.00	-30.06	-24.35	0.00	-1,233.4	0.00	1,233.38	3,895.77	991.85	4,253.95	3,806.08	5.26	-0.94	0.332
60.00	-28.88	-23.93	0.00	-1,111.6	0.00	1,111.65	3,821.70	963.58	4,014.88	3,626.44	6.3	-1.04	0.315
65.00	-27.73	-23.59	0.00	-992.0	0.00	992.01	3,745.46	935.30	3,782.73	3,448.96	7.45	-1.14	0.296
68.00	-26.93	-23.18	0.00	-921.2	0.00	921.24	3,698.67	918.33	3,646.76	3,343.58	8.19	-1.2	0.283
70.00	-26.47	-22.90	0.00	-874.9	0.00	874.88	3,667.05	907.02	3,557.49	3,273.81	8.7	-1.24	0.275
75.00	-25.36	-22.62	0.00	-760.4	0.00	760.41	3,586.46	878.75	3,339.16	3,101.20	10.06	-1.34	0.253
76.00	-25.05	-22.32	0.00	-737.8	0.00	737.78	3,570.09	873.09	3,296.33	3,066.99	10.34	-1.36	0.248
80.00	-24.19	-22.03	0.00	-648.5	0.00	648.51	3,503.71	850.47	3,127.75	2,931.29	11.51	-1.43	0.229
82.16	-23.73	-21.82	0.00	-600.9	0.00	600.86	3,467.23	838.23	3,038.42	2,858.66	12.17	-1.47	0.218
85.00	-22.80	-21.64	0.00	-539.0	0.00	538.97	3,418.78	822.19	2,923.25	2,764.27	13.05	-1.51	0.202
86.00	-19.72	-19.15	0.00	-517.3	0.00	517.33	3,401.54	816.54	2,883.18	2,731.23	13.37	-1.53	0.196
87.83	-19.13	-18.98	0.00	-482.3	0.00	482.28	2,692.45	683.79	2,426.19	2,176.03	13.97	-1.56	0.230
90.00	-18.74	-18.84	0.00	-441.1	0.00	441.10	2,665.65	673.56	2,354.17	2,121.90	14.68	-1.59	0.216
91.00	-17.24	-17.68	0.00	-422.3	0.00	422.26	2,653.16	668.85	2,321.35	2,097.06	15.02	-1.61	0.209
95.00	-16.54	-17.31	0.00	-351.5	0.00	351.52	2,602.34	650.00	2,192.36	1,998.45	16.4	-1.67	0.183
100.00	-14.61	-14.33	0.00	-261.4	0.00	261.45	2,536.86	626.44	2,036.30	1,876.95	18.18	-1.74	0.146
104.00	-11.83	-12.50	0.00	-204.1	0.00	204.14	2,482.92	607.58	1,915.61	1,781.28	19.66	-1.78	0.120
105.00	-11.69	-12.27	0.00	-191.6	0.00	191.64	2,469.21	602.87	1,886.01	1,757.59	20.04	-1.79	0.114
110.00	-7.73	-8.60	0.00	-127.1	0.00	127.08	2,399.39	579.31	1,741.47	1,640.54	21.94	-1.84	0.081
115.00	-7.11	-8.21	0.00	-84.1	0.00	84.08	2,327.39	555.74	1,602.70	1,525.98	23.89	-1.87	0.058
120.00	-4.29	-4.93	0.00	-43.0	0.00	43.03	2,252.90	532.18	1,469.69	1,413.90	25.86	-1.89	0.032
125.00	-3.79	-4.63	0.00	-18.4	0.00	18.36	2,153.14	508.62	1,342.44	1,290.85	27.85	-1.91	0.016
128.00	-2.33	-2.70	0.00	-4.5	0.00	4.46	2,093.29	494.48	1,268.86	1,219.72	29.05	-1.91	0.005
129.00	-2.28	-1.76	0.00	-1.8	0.00	1.76	2,073.34	489.76	1,244.79	1,196.45	29.45	-1.91	0.003
130.00	0.00	-1.68	0.00	0.0	0.00	0.00	2,053.39	485.05	1,220.95	1,173.41	29.85	-1.91	0.000

Load Case: 1.2D + 1.0Di + 1.0Wi Normal		50 mph wind with 1" radial ice			18 Iterations
Gust Response Factor:	1.10	Ice Dead Load Factor	1.00		
Dead load Factor:	1.20			Ice Importance Factor	1.00
Wind Load Factor:	1.00				

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-86.73	-7.63	0.00	-704.7	0.00	704.73	6,793.61	1,712.83	9,514.56	8,594.34	0	0	0.095
5.00	-83.94	-7.52	0.00	-666.6	0.00	666.56	6,692.31	1,675.12	9,100.36	8,278.33	0.01	-0.02	0.093
10.00	-81.15	-7.40	0.00	-629.0	0.00	628.98	6,588.83	1,637.42	8,695.37	7,965.37	0.04	-0.04	0.091
15.00	-78.40	-7.29	0.00	-592.0	0.00	591.97	6,483.18	1,599.72	8,299.60	7,655.67	0.1	-0.06	0.089
20.00	-75.68	-7.17	0.00	-555.6	0.00	555.55	6,375.36	1,562.02	7,913.05	7,349.39	0.18	-0.08	0.087
25.00	-73.00	-7.06	0.00	-519.7	0.00	519.69	6,265.37	1,524.32	7,535.72	7,046.72	0.28	-0.11	0.085
30.00	-70.37	-6.95	0.00	-484.4	0.00	484.39	6,153.21	1,486.61	7,167.60	6,747.85	0.4	-0.13	0.083
35.00	-67.78	-6.83	0.00	-449.7	0.00	449.66	6,038.88	1,448.91	6,808.70	6,452.96	0.55	-0.15	0.081
40.00	-65.24	-6.76	0.00	-415.5	0.00	415.51	5,922.38	1,411.21	6,459.02	6,162.22	0.72	-0.17	0.078
40.50	-64.99	-6.70	0.00	-412.1	0.00	412.13	5,910.61	1,407.44	6,424.56	6,133.39	0.74	-0.17	0.078
45.00	-61.63	-6.61	0.00	-382.0	0.00	381.96	5,803.70	1,373.51	6,118.56	5,875.83	0.91	-0.19	0.076
47.50	-59.79	-6.55	0.00	-365.4	0.00	365.43	4,002.81	1,034.27	4,625.51	4,079.20	1.01	-0.2	0.105
50.00	-58.76	-6.46	0.00	-349.1	0.00	349.06	3,967.67	1,020.13	4,499.93	3,987.71	1.12	-0.22	0.102
55.00	-56.71	-6.33	0.00	-316.8	0.00	316.78	3,895.77	991.85	4,253.95	3,806.08	1.36	-0.24	0.098
60.00	-54.71	-6.21	0.00	-285.1	0.00	285.11	3,821.70	963.58	4,014.88	3,626.44	1.63	-0.27	0.093
65.00	-52.75	-6.11	0.00	-254.1	0.00	254.06	3,745.46	935.30	3,782.73	3,448.96	1.93	-0.3	0.088
68.00	-51.37	-5.99	0.00	-235.7	0.00	235.73	3,698.67	918.33	3,646.76	3,343.58	2.12	-0.31	0.084
70.00	-50.60	-5.91	0.00	-223.8	0.00	223.75	3,667.05	907.02	3,557.49	3,273.81	2.25	-0.32	0.082
75.00	-48.68	-5.82	0.00	-194.2	0.00	194.23	3,586.46	878.75	3,339.16	3,101.20	2.6	-0.35	0.076
76.00	-48.17	-5.73	0.00	-188.4	0.00	188.41	3,570.09	873.09	3,296.33	3,066.99	2.68	-0.35	0.075
80.00	-46.67	-5.64	0.00	-165.5	0.00	165.48	3,503.71	850.47	3,127.75	2,931.29	2.98	-0.37	0.070
82.16	-45.88	-5.58	0.00	-153.3	0.00	153.27	3,467.23	838.23	3,038.42	2,858.66	3.15	-0.38	0.067
85.00	-44.40	-5.52	0.00	-137.4	0.00	137.44	3,418.78	822.19	2,923.25	2,764.27	3.38	-0.39	0.063
86.00	-38.67	-4.92	0.00	-131.9	0.00	131.92	3,401.54	816.54	2,883.18	2,731.23	3.46	-0.39	0.060
87.83	-37.74	-4.86	0.00	-122.9	0.00	122.92	2,692.45	683.79	2,426.19	2,176.03	3.61	-0.4	0.071
90.00	-37.04	-4.82	0.00	-112.4	0.00	112.36	2,665.65	673.56	2,354.17	2,121.90	3.79	-0.41	0.067
91.00	-34.61	-4.50	0.00	-107.5	0.00	107.54	2,653.16	668.85	2,321.35	2,097.06	3.88	-0.41	0.064
95.00	-33.35	-4.38	0.00	-89.6	0.00	89.55	2,602.34	650.00	2,192.36	1,998.45	4.24	-0.43	0.058
100.00	-28.60	-3.67	0.00	-66.9	0.00	66.87	2,536.86	626.44	2,036.30	1,876.95	4.7	-0.45	0.047
104.00	-23.62	-3.20	0.00	-52.2	0.00	52.17	2,482.92	607.58	1,915.61	1,781.28	5.08	-0.46	0.039
105.00	-23.35	-3.13	0.00	-49.0	0.00	48.97	2,469.21	602.87	1,886.01	1,757.59	5.17	-0.46	0.037
110.00	-15.61	-2.23	0.00	-32.7	0.00	32.68	2,399.39	579.31	1,741.47	1,640.54	5.66	-0.47	0.026
115.00	-14.37	-2.10	0.00	-21.5	0.00	21.53	2,327.39	555.74	1,602.70	1,525.98	6.16	-0.48	0.020
120.00	-8.70	-1.27	0.00	-11.0	0.00	11.03	2,252.90	532.18	1,469.69	1,413.90	6.67	-0.49	0.012
125.00	-7.64	-1.17	0.00	-4.7	0.00	4.66	2,153.14	508.62	1,342.44	1,290.85	7.18	-0.49	0.007
128.00	-4.22	-0.70	0.00	-1.2	0.00	1.15	2,093.29	494.48	1,268.86	1,219.72	7.49	-0.49	0.003
129.00	-4.07	-0.44	0.00	-0.4	0.00	0.44	2,073.34	489.76	1,244.79	1,196.45	7.59	-0.49	0.002
130.00	0.00	-0.41	0.00	0.0	0.00	0.00	2,053.39	485.05	1,220.95	1,173.41	7.7	-0.49	0.000

Load Case: 1.0D + 1.0W Service Normal 60 mph Wind with No Ice 18 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.00
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-54.53	-6.78	0.00	-638.3	0.00	638.32	6,793.61	1,712.83	9,514.56	8,594.34	0	0	0.082
5.00	-52.56	-6.68	0.00	-604.4	0.00	604.43	6,692.31	1,675.12	9,100.36	8,278.33	0.01	-0.02	0.081
10.00	-50.62	-6.59	0.00	-571.0	0.00	571.03	6,588.83	1,637.42	8,695.37	7,965.37	0.04	-0.04	0.079
15.00	-48.72	-6.49	0.00	-538.1	0.00	538.09	6,483.18	1,599.72	8,299.60	7,655.67	0.09	-0.06	0.078
20.00	-46.85	-6.40	0.00	-505.6	0.00	505.61	6,375.36	1,562.02	7,913.05	7,349.39	0.16	-0.08	0.076
25.00	-45.02	-6.31	0.00	-473.6	0.00	473.60	6,265.37	1,524.32	7,535.72	7,046.72	0.25	-0.1	0.074
30.00	-43.23	-6.22	0.00	-442.0	0.00	442.03	6,153.21	1,486.61	7,167.60	6,747.85	0.37	-0.12	0.073
35.00	-41.48	-6.13	0.00	-410.9	0.00	410.91	6,038.88	1,448.91	6,808.70	6,452.96	0.5	-0.14	0.071
40.00	-39.76	-6.08	0.00	-380.2	0.00	380.25	5,922.38	1,411.21	6,459.02	6,162.22	0.65	-0.16	0.068
40.50	-39.59	-6.03	0.00	-377.2	0.00	377.21	5,910.61	1,407.44	6,424.56	6,133.39	0.67	-0.16	0.068
45.00	-37.15	-5.96	0.00	-350.1	0.00	350.06	5,803.70	1,373.51	6,118.56	5,875.83	0.83	-0.18	0.066
47.50	-35.82	-5.91	0.00	-335.2	0.00	335.16	4,002.81	1,034.27	4,625.51	4,079.20	0.92	-0.19	0.091
50.00	-35.15	-5.84	0.00	-320.4	0.00	320.39	3,967.67	1,020.13	4,499.93	3,987.71	1.02	-0.2	0.089
55.00	-33.85	-5.74	0.00	-291.2	0.00	291.19	3,895.77	991.85	4,253.95	3,806.08	1.24	-0.22	0.085
60.00	-32.57	-5.65	0.00	-262.5	0.00	262.47	3,821.70	963.58	4,014.88	3,626.44	1.49	-0.25	0.081
65.00	-31.31	-5.57	0.00	-234.2	0.00	234.24	3,745.46	935.30	3,782.73	3,448.96	1.76	-0.27	0.076
68.00	-30.44	-5.47	0.00	-217.5	0.00	217.54	3,698.67	918.33	3,646.76	3,343.58	1.93	-0.28	0.073
70.00	-29.95	-5.40	0.00	-206.6	0.00	206.60	3,667.05	907.02	3,557.49	3,273.81	2.05	-0.29	0.071
75.00	-28.74	-5.34	0.00	-179.6	0.00	179.58	3,586.46	878.75	3,339.16	3,101.20	2.37	-0.32	0.066
76.00	-28.40	-5.27	0.00	-174.2	0.00	174.24	3,570.09	873.09	3,296.33	3,066.99	2.44	-0.32	0.065
80.00	-27.46	-5.20	0.00	-153.2	0.00	153.16	3,503.71	850.47	3,127.75	2,931.29	2.72	-0.34	0.060
82.16	-26.96	-5.15	0.00	-141.9	0.00	141.91	3,467.23	838.23	3,038.42	2,858.66	2.87	-0.35	0.057
85.00	-25.93	-5.11	0.00	-127.3	0.00	127.29	3,418.78	822.19	2,923.25	2,764.27	3.08	-0.36	0.054
86.00	-22.44	-4.52	0.00	-122.2	0.00	122.18	3,401.54	816.54	2,883.18	2,731.23	3.16	-0.36	0.051
87.83	-21.80	-4.48	0.00	-113.9	0.00	113.91	2,692.45	683.79	2,426.19	2,176.03	3.3	-0.37	0.060
90.00	-21.37	-4.45	0.00	-104.2	0.00	104.18	2,665.65	673.56	2,354.17	2,121.90	3.47	-0.38	0.057
91.00	-19.68	-4.18	0.00	-99.7	0.00	99.73	2,653.16	668.85	2,321.35	2,097.06	3.54	-0.38	0.055
95.00	-18.92	-4.09	0.00	-83.0	0.00	83.03	2,602.34	650.00	2,192.36	1,998.45	3.87	-0.39	0.049
100.00	-16.69	-3.39	0.00	-61.8	0.00	61.76	2,536.86	626.44	2,036.30	1,876.95	4.29	-0.41	0.040
104.00	-13.56	-2.95	0.00	-48.2	0.00	48.22	2,482.92	607.58	1,915.61	1,781.28	4.64	-0.42	0.033
105.00	-13.40	-2.90	0.00	-45.3	0.00	45.26	2,469.21	602.87	1,886.01	1,757.59	4.73	-0.42	0.031
110.00	-8.88	-2.03	0.00	-30.0	0.00	30.02	2,399.39	579.31	1,741.47	1,640.54	5.18	-0.43	0.022
115.00	-8.18	-1.94	0.00	-19.9	0.00	19.86	2,327.39	555.74	1,602.70	1,525.98	5.64	-0.44	0.017
120.00	-4.94	-1.17	0.00	-10.2	0.00	10.16	2,252.90	532.18	1,469.69	1,413.90	6.1	-0.45	0.009
125.00	-4.37	-1.09	0.00	-4.3	0.00	4.34	2,153.14	508.62	1,342.44	1,290.85	6.57	-0.45	0.005
128.00	-2.68	-0.64	0.00	-1.0	0.00	1.05	2,093.29	494.48	1,268.86	1,219.72	6.86	-0.45	0.002
129.00	-2.59	-0.42	0.00	-0.4	0.00	0.42	2,073.34	489.76	1,244.79	1,196.45	6.95	-0.45	0.002
130.00	0.00	-0.40	0.00	0.0	0.00	0.00	2,053.39	485.05	1,220.95	1,173.41	7.05	-0.45	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period (S_S):	0.233
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.056
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a:	1.600
Site Coefficient F_v:	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.249
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.090
Seismic Response Coefficient (C_s):	0.037
Upper Limit C_S:	0.037
Lower Limit C_S:	0.030
Period based on Rayleigh Method (sec):	1.620
Redundancy Factor (p):	1.000
Seismic Force Distribution Exponent (k):	1.560
Total Unfactored Dead Load:	54.530 k
Seismic Base Shear (E):	2.010 k

1.2D + 1.0Ev + 1.0Eh Normal **Seismic**

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
37	129.5	95	187	0.004	8	118
36	128.5	95	187	0.004	8	119
35	126.5	329	629	0.013	26	411
34	122.5	567	1,031	0.021	42	708
33	117.5	684	1,166	0.024	48	855
32	112.5	707	1,126	0.023	46	884
31	107.5	774	1,148	0.024	47	967
30	104.5	158	224	0.005	9	197
29	102	639	874	0.018	36	799
28	97.5	933	1,188	0.024	49	1,166
27	93	763	902	0.018	37	953
26	90.5	193	219	0.004	9	241
25	88.915	422	465	0.010	19	527
24	86.915	647	688	0.014	28	808
23	85.5	359	372	0.008	15	449
22	83.5817	1,030	1,031	0.021	42	1,287
21	81.0817	496	473	0.010	19	620
20	78	931	837	0.017	34	1,163
19	75.5	235	201	0.004	8	294
18	72.5	1,195	959	0.020	39	1,494
17	69	486	361	0.007	15	607
16	66.5	737	517	0.011	21	922
15	62.5	1,251	796	0.016	33	1,563
14	57.5	1,278	714	0.015	29	1,598
13	52.5	1,306	633	0.013	26	1,632
12	48.75	663	286	0.006	12	829
11	46.25	1,331	529	0.011	22	1,664
10	42.75	2,436	857	0.018	35	3,045
9	40.25	170	54	0.001	2	212
8	37.5	1,717	492	0.010	20	2,146
7	32.5	1,753	402	0.008	17	2,191
6	27.5	1,790	316	0.006	13	2,237
5	22.5	1,827	236	0.005	10	2,283
4	17.5	1,863	162	0.003	7	2,328

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
3	12.5	1,900	98	0.002	4	2,374
2	7.5	1,936	45	0.001	2	2,420
1	2.5	1,973	8	0.000	0	2,465
Generic Flat Platform with Handrails	130	2,500	4,988	0.102	205	3,124
Generic Flat Platform with Handrails	110	2,500	3,843	0.079	158	3,124
Generic Flat Platform with Handrails	104	2,500	3,521	0.072	145	3,124
Generic Flat Platform with Handrails	86	2,500	2,617	0.054	108	3,124
VZW Unused Reserve (4849.41 sqin)	129	0	0	0.000	0	0
Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	128	13	26	0.000	1	16
Samsung RT4401-48A	128	56	109	0.002	4	70
Samsung B2/B66A RRH-BR049	128	253	493	0.010	20	316
Samsung B5/B13 RRH-BR04C	128	211	411	0.008	17	264
Commscope TD-850B-LTE78-43	128	159	310	0.006	13	199
Raycap RCMDC-6627-PF-48	128	32	62	0.001	3	40
Samsung MT6407-77A	128	245	477	0.010	20	306
Quintel QS6656-5	128	390	760	0.016	31	487
Alcatel-Lucent RRH2x50-08	120	159	279	0.006	12	198
Alcatel-Lucent 800MHz RRH	120	159	280	0.006	12	199
Alcatel-Lucent 1900MHz RRH	120	132	232	0.005	10	165
Nokia 2.5G MAA - AAHC(64T64R)	120	311	547	0.011	23	388
Generic 24" x 24" Junction Box	120	20	35	0.001	1	25
Andrew Microwaves VHLP800-11 (49 lbs)	120	49	86	0.002	4	61
Commscope NNVV-65B-R4	120	232	409	0.008	17	290
Flat Low Profile Platform	120	1,500	2,641	0.054	109	1,875
Ericsson Radio 4449 B71 B85A	110	225	346	0.007	14	281
Ericsson 4460 BAND 2/25	110	327	503	0.010	21	409
Ericsson Air6449 B41	110	312	480	0.010	20	390
RFS APXVAARR24_43-U-NA20	110	384	590	0.012	24	480
Kathrein Scala 860-10025	100	7	9	0.000	0	8
Kathrein Scala 860 10006	100	3	4	0.000	0	4
Generic GPS	100	10	13	0.000	1	12
Generic GPS	80	10	9	0.000	0	12
Generic GPS	68	10	7	0.000	0	12
Raycap DC6-48-60-18-8F	100	20	26	0.000	1	25
Ericsson RRUS 8843 B2, B66A	100	216	286	0.006	12	270
Ericsson Radio 4415 B30	100	129	171	0.004	7	161
Ericsson RRUS 4449 B5, B12	100	213	282	0.006	12	266
Raycap DC9-48-60-24-8C-EV	100	16	21	0.000	1	20
Powerwave Allgon 7770.00	100	105	139	0.003	6	131
CCI HPA-65R-BUU-H6	100	153	203	0.004	8	191
CCI DMP65R-BU6DA	100	238	316	0.006	13	298
CCI OPA65R-BU6D	100	190	251	0.005	10	237
Empty Flat Low Profile Platform	91	1,500	1,715	0.035	71	1,875
Commscope RDIDC-9181-PF-48	86	22	23	0.000	1	27
Fujitsu TA08025-B604	86	192	201	0.004	8	240
Fujitsu TA08025-B605	86	225	236	0.005	10	281
JMA Wireless MX08FRO665-21	86	194	203	0.004	8	242
Stand-Off	76	100	86	0.002	4	125
Generic 2" x 8" GPS	75	20	17	0.000	1	25
VZW Unused Reserve (16 sqin)	68	0	0	0.000	0	0
Side Arm	68	126	91	0.002	4	157
		54,534	48,764	1.000	2,008	68,151

0.9D - 1.0Ev + 1.0Eh Normal **Seismic (Reduced DL)**

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
37	129.5	95	187	0.004	8	80
36	128.5	95	187	0.004	8	81
35	126.5	329	629	0.013	26	280
34	122.5	567	1,031	0.021	42	482
33	117.5	684	1,166	0.024	48	582

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
32	112.5	707	1,126	0.023	46	601
31	107.5	774	1,148	0.024	47	658
30	104.5	158	224	0.005	9	134
29	102	639	874	0.018	36	544
28	97.5	933	1,188	0.024	49	793
27	93	763	902	0.018	37	648
26	90.5	193	219	0.004	9	164
25	88.915	422	465	0.010	19	359
24	86.915	647	688	0.014	28	550
23	85.5	359	372	0.008	15	305
22	83.5817	1,030	1,031	0.021	42	875
21	81.0817	496	473	0.010	19	422
20	78	931	837	0.017	34	792
19	75.5	235	201	0.004	8	200
18	72.5	1,195	959	0.020	39	1,016
17	69	486	361	0.007	15	413
16	66.5	737	517	0.011	21	627
15	62.5	1,251	796	0.016	33	1,064
14	57.5	1,278	714	0.015	29	1,087
13	52.5	1,306	633	0.013	26	1,110
12	48.75	663	286	0.006	12	564
11	46.25	1,331	529	0.011	22	1,132
10	42.75	2,436	857	0.018	35	2,072
9	40.25	170	54	0.001	2	144
8	37.5	1,717	492	0.010	20	1,460
7	32.5	1,753	402	0.008	17	1,491
6	27.5	1,790	316	0.006	13	1,522
5	22.5	1,827	236	0.005	10	1,553
4	17.5	1,863	162	0.003	7	1,584
3	12.5	1,900	98	0.002	4	1,615
2	7.5	1,936	45	0.001	2	1,646
1	2.5	1,973	8	0.000	0	1,677
Generic Flat Platform with Handrails	130	2,500	4,988	0.102	205	2,126
Generic Flat Platform with Handrails	110	2,500	3,843	0.079	158	2,126
Generic Flat Platform with Handrails	104	2,500	3,521	0.072	145	2,126
Generic Flat Platform with Handrails	86	2,500	2,617	0.054	108	2,126
VZW Unused Reserve (4849.41 sqin)	129	0	0	0.000	0	0
Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	128	13	26	0.000	1	11
Samsung RT4401-48A	128	56	109	0.002	4	47
Samsung B2/B66A RRH-BR049	128	253	493	0.010	20	215
Samsung B5/B13 RRH-BR04C	128	211	411	0.008	17	179
Commscope TD-850B-LTE78-43	128	159	310	0.006	13	135
Raycap RCMDC-6627-PF-48	128	32	62	0.001	3	27
Samsung MT6407-77A	128	245	477	0.010	20	208
Quintel QS6656-5	128	390	760	0.016	31	332
Alcatel-Lucent RRH2x50-08	120	159	279	0.006	12	135
Alcatel-Lucent 800MHz RRH	120	159	280	0.006	12	135
Alcatel-Lucent 1900MHz RRH	120	132	232	0.005	10	112
Nokia 2.5G MAA - AAHC(64T64R)	120	311	547	0.011	23	264
Generic 24" x 24" Junction Box	120	20	35	0.001	1	17
Andrew Microwaves VHLP800-11 (49 lbs)	120	49	86	0.002	4	42
Commscope NNVV-65B-R4	120	232	409	0.008	17	197
Flat Low Profile Platform	120	1,500	2,641	0.054	109	1,275
Ericsson Radio 4449 B71 B85A	110	225	346	0.007	14	191
Ericsson 4460 BAND 2/25	110	327	503	0.010	21	278
Ericsson Air6449 B41	110	312	480	0.010	20	265
RFS APXVAARR24_43-U-NA20	110	384	590	0.012	24	326
Kathrein Scala 860-10025	100	7	9	0.000	0	6
Kathrein Scala 860 10006	100	3	4	0.000	0	3
Generic GPS	100	10	13	0.000	1	9
Generic GPS	80	10	9	0.000	0	9
Generic GPS	68	10	7	0.000	0	9
Raycap DC6-48-60-18-8F	100	20	26	0.000	1	17
Ericsson RRUS 8843 B2, B66A	100	216	286	0.006	12	184
Ericsson Radio 4415 B30	100	129	171	0.004	7	110
Ericsson RRUS 4449 B5, B12	100	213	282	0.006	12	181
Raycap DC9-48-60-24-8C-EV	100	16	21	0.000	1	14
Powerwave Allgon 7770.00	100	105	139	0.003	6	89
CCI HPA-65R-BUU-H6	100	153	203	0.004	8	130

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
CCI DMP65R-BU6DA	100	238	316	0.006	13	203
CCI OPA65R-BU6D	100	190	251	0.005	10	161
Empty Flat Low Profile Platform	91	1,500	1,715	0.035	71	1,275
Commscope RDIDC-9181-PF-48	86	22	23	0.000	1	19
Fujitsu TA08025-B604	86	192	201	0.004	8	163
Fujitsu TA08025-B605	86	225	236	0.005	10	191
JMA Wireless MX08FRO665-21	86	194	203	0.004	8	165
Stand-Off	76	100	86	0.002	4	85
Generic 2" x 8" GPS	75	20	17	0.000	1	17
VZW Unused Reserve (16 sqin)	68	0	0	0.000	0	0
Side Arm	68	126	91	0.002	4	107
		54,534	48,764	1.000	2,008	46,370

1.2D + 1.0Ev + 1.0Eh Normal **Seismic**

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-65.69	-2.01	0.00	-202.81	0.00	202.81	6,793.61	1,712.83	9,515	8,594.34	0.00	0.00	0.03
5.00	-63.27	-2.02	0.00	-192.76	0.00	192.76	6,692.31	1,675.12	9,100	8,278.33	0.00	-0.01	0.03
10.00	-60.89	-2.02	0.00	-182.68	0.00	182.68	6,588.83	1,637.42	8,695	7,965.37	0.01	-0.01	0.03
15.00	-58.56	-2.02	0.00	-172.59	0.00	172.59	6,483.18	1,599.72	8,300	7,655.67	0.03	-0.02	0.03
20.00	-56.28	-2.01	0.00	-162.51	0.00	162.51	6,375.36	1,562.02	7,913	7,349.39	0.05	-0.02	0.03
25.00	-54.04	-2.00	0.00	-152.45	0.00	152.45	6,265.37	1,524.32	7,536	7,046.72	0.08	-0.03	0.03
30.00	-51.85	-1.99	0.00	-142.43	0.00	142.43	6,153.21	1,486.61	7,168	6,747.85	0.12	-0.04	0.03
35.00	-49.71	-1.98	0.00	-132.47	0.00	132.47	6,038.88	1,448.91	6,809	6,452.96	0.16	-0.04	0.03
40.00	-49.49	-1.98	0.00	-122.59	0.00	122.59	5,922.38	1,411.21	6,459	6,162.22	0.21	-0.05	0.03
40.50	-46.45	-1.94	0.00	-121.60	0.00	121.60	5,910.61	1,407.44	6,425	6,133.39	0.21	-0.05	0.03
45.00	-44.79	-1.92	0.00	-112.87	0.00	112.87	5,803.70	1,373.51	6,119	5,875.83	0.26	-0.06	0.03
47.50	-43.96	-1.91	0.00	-108.06	0.00	108.06	4,002.81	1,034.27	4,626	4,079.20	0.30	-0.06	0.04
50.00	-42.32	-1.89	0.00	-103.29	0.00	103.29	3,967.67	1,020.13	4,500	3,987.71	0.33	-0.06	0.04
55.00	-40.73	-1.86	0.00	-93.85	0.00	93.85	3,895.77	991.85	4,254	3,806.08	0.40	-0.07	0.04
60.00	-39.16	-1.83	0.00	-84.54	0.00	84.54	3,821.70	963.58	4,015	3,626.44	0.48	-0.08	0.03
65.00	-38.24	-1.81	0.00	-75.38	0.00	75.38	3,745.46	935.30	3,783	3,448.96	0.56	-0.09	0.03
68.00	-37.46	-1.80	0.00	-69.93	0.00	69.93	3,698.67	918.33	3,647	3,343.58	0.62	-0.09	0.03
70.00	-35.97	-1.76	0.00	-66.34	0.00	66.34	3,667.05	907.02	3,557	3,273.81	0.66	-0.09	0.03
75.00	-35.65	-1.75	0.00	-57.55	0.00	57.55	3,586.46	878.75	3,339	3,101.20	0.76	-0.10	0.03
76.00	-34.36	-1.71	0.00	-55.80	0.00	55.80	3,570.09	873.09	3,296	3,066.99	0.78	-0.10	0.03
80.00	-33.73	-1.69	0.00	-48.95	0.00	48.95	3,503.71	850.47	3,128	2,931.29	0.87	-0.11	0.03
82.16	-32.44	-1.65	0.00	-45.29	0.00	45.29	3,467.23	838.23	3,038	2,858.66	0.92	-0.11	0.03
85.00	-31.99	-1.64	0.00	-40.60	0.00	40.60	3,418.78	822.19	2,923	2,764.27	0.99	-0.11	0.02
86.00	-27.27	-1.46	0.00	-38.97	0.00	38.97	3,401.54	816.54	2,883	2,731.23	1.01	-0.12	0.02
87.83	-26.75	-1.44	0.00	-36.29	0.00	36.29	2,692.45	683.79	2,426	2,176.03	1.06	-0.12	0.03
90.00	-26.50	-1.44	0.00	-33.15	0.00	33.15	2,665.65	673.56	2,354	2,121.90	1.11	-0.12	0.03
91.00	-23.68	-1.32	0.00	-31.72	0.00	31.72	2,653.16	668.85	2,321	2,097.06	1.14	-0.12	0.02
95.00	-22.51	-1.27	0.00	-26.42	0.00	26.42	2,602.34	650.00	2,192	1,998.45	1.24	-0.13	0.02
100.00	-20.09	-1.16	0.00	-20.05	0.00	20.05	2,536.86	626.44	2,036	1,876.95	1.38	-0.13	0.02
104.00	-16.77	-1.00	0.00	-15.40	0.00	15.40	2,482.92	607.58	1,916	1,781.28	1.49	-0.14	0.02
105.00	-15.80	-0.95	0.00	-14.39	0.00	14.39	2,469.21	602.87	1,886	1,757.59	1.52	-0.14	0.02
110.00	-10.23	-0.66	0.00	-9.63	0.00	9.63	2,399.39	579.31	1,741	1,640.54	1.66	-0.14	0.01
115.00	-9.38	-0.61	0.00	-6.34	0.00	6.34	2,327.39	555.74	1,603	1,525.98	1.81	-0.14	0.01
120.00	-5.47	-0.37	0.00	-3.31	0.00	3.31	2,252.90	532.18	1,470	1,413.90	1.96	-0.14	0.01
125.00	-5.06	-0.34	0.00	-1.46	0.00	1.46	2,153.14	508.62	1,342	1,290.85	2.11	-0.14	0.00
128.00	-3.24	-0.22	0.00	-0.43	0.00	0.43	2,093.29	494.48	1,269	1,219.72	2.20	-0.14	0.00
129.00	-3.12	-0.21	0.00	-0.21	0.00	0.21	2,073.34	489.76	1,245	1,196.45	2.23	-0.14	0.00
130.00	0.00	-0.21	0.00	0.00	0.00	0.00	2,053.39	485.05	1,221	1,173.41	2.26	-0.14	0.00

0.9D - 1.0Ev + 1.0Eh Normal **Seismic (Reduced DL)**

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-44.69	-2.01	0.00	-201.17	0.00	201.17	6,793.61	1,712.83	9,515	8,594.34	0.00	0.00	0.03
5.00	-43.05	-2.01	0.00	-191.12	0.00	191.12	6,692.31	1,675.12	9,100	8,278.33	0.00	-0.01	0.03
10.00	-41.43	-2.01	0.00	-181.06	0.00	181.06	6,588.83	1,637.42	8,695	7,965.37	0.01	-0.01	0.03
15.00	-39.85	-2.01	0.00	-171.00	0.00	171.00	6,483.18	1,599.72	8,300	7,655.67	0.03	-0.02	0.03
20.00	-38.29	-2.00	0.00	-160.96	0.00	160.96	6,375.36	1,562.02	7,913	7,349.39	0.05	-0.02	0.03
25.00	-36.77	-1.99	0.00	-150.94	0.00	150.94	6,265.37	1,524.32	7,536	7,046.72	0.08	-0.03	0.03
30.00	-35.28	-1.98	0.00	-140.97	0.00	140.97	6,153.21	1,486.61	7,168	6,747.85	0.12	-0.04	0.03
35.00	-33.82	-1.96	0.00	-131.07	0.00	131.07	6,038.88	1,448.91	6,809	6,452.96	0.16	-0.04	0.03
40.00	-33.67	-1.96	0.00	-121.26	0.00	121.26	5,922.38	1,411.21	6,459	6,162.22	0.21	-0.05	0.03
40.50	-31.60	-1.93	0.00	-120.28	0.00	120.28	5,910.61	1,407.44	6,425	6,133.39	0.21	-0.05	0.03
45.00	-30.47	-1.91	0.00	-111.61	0.00	111.61	5,803.70	1,373.51	6,119	5,875.83	0.26	-0.06	0.02
47.50	-29.91	-1.90	0.00	-106.84	0.00	106.84	4,002.81	1,034.27	4,626	4,079.20	0.29	-0.06	0.03
50.00	-28.80	-1.87	0.00	-102.10	0.00	102.10	3,967.67	1,020.13	4,500	3,987.71	0.32	-0.06	0.03
55.00	-27.71	-1.84	0.00	-92.74	0.00	92.74	3,895.77	991.85	4,254	3,806.08	0.39	-0.07	0.03
60.00	-26.65	-1.81	0.00	-83.52	0.00	83.52	3,821.70	963.58	4,015	3,626.44	0.47	-0.08	0.03
65.00	-26.02	-1.79	0.00	-74.45	0.00	74.45	3,745.46	935.30	3,783	3,448.96	0.56	-0.09	0.03
68.00	-25.49	-1.78	0.00	-69.07	0.00	69.07	3,698.67	918.33	3,647	3,343.58	0.61	-0.09	0.03
70.00	-24.47	-1.74	0.00	-65.51	0.00	65.51	3,667.05	907.02	3,557	3,273.81	0.65	-0.09	0.03
75.00	-24.26	-1.73	0.00	-56.83	0.00	56.83	3,586.46	878.75	3,339	3,101.20	0.75	-0.10	0.03
76.00	-23.38	-1.69	0.00	-55.10	0.00	55.10	3,570.09	873.09	3,296	3,066.99	0.78	-0.10	0.03
80.00	-22.95	-1.67	0.00	-48.33	0.00	48.33	3,503.71	850.47	3,128	2,931.29	0.86	-0.11	0.02
82.16	-22.07	-1.63	0.00	-44.71	0.00	44.71	3,467.23	838.23	3,038	2,858.66	0.91	-0.11	0.02
85.00	-21.77	-1.62	0.00	-40.08	0.00	40.08	3,418.78	822.19	2,923	2,764.27	0.98	-0.11	0.02
86.00	-18.56	-1.45	0.00	-38.47	0.00	38.47	3,401.54	816.54	2,883	2,731.23	1.00	-0.11	0.02
87.83	-18.20	-1.43	0.00	-35.82	0.00	35.82	2,692.45	683.79	2,426	2,176.03	1.05	-0.12	0.02
90.00	-18.03	-1.42	0.00	-32.73	0.00	32.73	2,665.65	673.56	2,354	2,121.90	1.10	-0.12	0.02
91.00	-16.11	-1.31	0.00	-31.31	0.00	31.31	2,653.16	668.85	2,321	2,097.06	1.13	-0.12	0.02
95.00	-15.32	-1.26	0.00	-26.08	0.00	26.08	2,602.34	650.00	2,192	1,998.45	1.23	-0.13	0.02
100.00	-13.67	-1.15	0.00	-19.79	0.00	19.79	2,536.86	626.44	2,036	1,876.95	1.36	-0.13	0.02
104.00	-11.41	-0.99	0.00	-15.20	0.00	15.20	2,482.92	607.58	1,916	1,781.28	1.47	-0.13	0.01
105.00	-10.75	-0.94	0.00	-14.21	0.00	14.21	2,469.21	602.87	1,886	1,757.59	1.50	-0.13	0.01
110.00	-6.96	-0.65	0.00	-9.51	0.00	9.51	2,399.39	579.31	1,741	1,640.54	1.65	-0.14	0.01
115.00	-6.38	-0.60	0.00	-6.27	0.00	6.27	2,327.39	555.74	1,603	1,525.98	1.79	-0.14	0.01
120.00	-3.72	-0.36	0.00	-3.27	0.00	3.27	2,252.90	532.18	1,470	1,413.90	1.94	-0.14	0.00
125.00	-3.44	-0.34	0.00	-1.44	0.00	1.44	2,153.14	508.62	1,342	1,290.85	2.09	-0.14	0.00
128.00	-2.21	-0.22	0.00	-0.43	0.00	0.43	2,093.29	494.48	1,269	1,219.72	2.18	-0.14	0.00
129.00	-2.13	-0.21	0.00	-0.21	0.00	0.21	2,073.34	489.76	1,245	1,196.45	2.21	-0.14	0.00
130.00	0.00	-0.21	0.00	0.00	0.00	0.00	2,053.39	485.05	1,221	1,173.41	2.24	-0.14	0.00

ANALYSIS SUMMARY

	Reactions						Max Usage	
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W Normal	28.81	0.00	65.42	0.00	0.00	2723.96	47.50	0.36
0.9D + 1.0W Normal	28.80	0.00	49.06	0.00	0.00	2706.82	47.50	0.36
1.2D + 1.0Di + 1.0Wi Normal	7.63	0.00	86.73	0.00	0.00	704.73	47.50	0.1
1.2D + 1.0Ev + 1.0Eh Normal	2.02	0.00	65.69	0.00	0.00	202.81	47.50	0.04
0.9D - 1.0Ev + 1.0Eh Normal	2.01	0.00	44.69	0.00	0.00	201.17	47.50	0.03
1.0D + 1.0W Service Normal	6.78	0.00	54.53	0.00	0.00	638.32	47.50	0.09

Base Plate & Anchor Rod Analysis

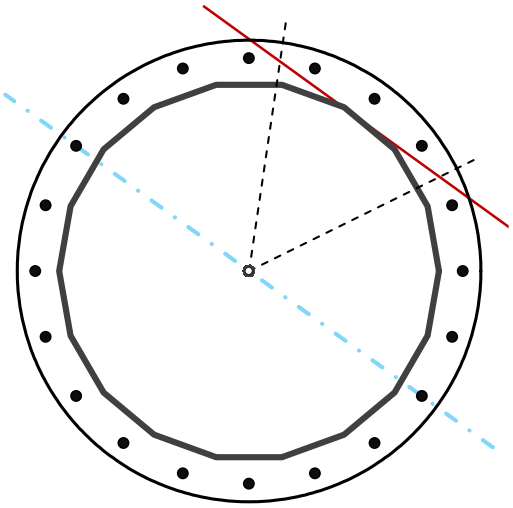
Pole Dimensions		
Number of Sides	18	-
Diameter	62	in
Thickness	1/4	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	2,724.0	k-ft
Axial, Pu	65.4	k
Shear, Vu	28.8	k
Neutral Axis	324	°

Report Capacities		
Component	Capacity	Result
Base Plate	31%	Pass
Anchor Rods	41%	Pass
Dwyidag	-	-

Base Plate		
Shape	Round	-
Diameter, ø	77	in
Thickness	2	in
Grade	A572-60	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Clip		in
Orientation Offset		°
Anchor Rod Detail	d	η=0.5
Clear Distance	3	in
Applied Moment, Mu	614.9	k
Bending Stress, ϕMn	1977.8	k

Original Anchor Rods		
Arrangement	Radial	-
Quantity	20	-
Diameter, ø	2 1/4	in
Bolt Circle	71	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	11.2	in
Orientation Offset	0	°
Applied Force, Pu	98.5	k
Anchor Rods, ϕPn	243.6	k



Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	28.8	2724.0	1.00
Anchor Rod Forces	28.8	2724.0	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in^2	in^2	in^4	#	in^4
Pole	48.2525	2.6807	0.0560		22999.73
Bolt	3.9761	3.2477	0.8393	4.5	38253.38
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	Round	-
Diameter, D	77	in
Thickness, t	2	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	45.662	in
Detail Type	d	-
Detail Factor	0.50	-
Clear Distance	3	-

Anchor Rods		
Anchor Rod Quantity, N	20	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	71	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	98.5	k
Applied Shear, Vu	0.7	k
Compressive Capacity, ϕPn	243.6	k
Tensile Capacity, ϕRnt	0.404	OK
Interaction Capacity	0.410	OK

External Base Plate		
Chord Length AA	39.278	in
Additional AA	4.000	in
Section Modulus, Z	43.278	in^3
Applied Moment, Mu	614.9	k-ft
Bending Capacity, ϕMn	2337.0	k-ft
Capacity, Mu/ϕMn	0.263	OK
Chord Length AB	37.719	in
Additional AB	4.000	in
Section Modulus, Z	41.719	in^3
Applied Moment, Mu	477.7	k-ft
Bending Capacity, ϕMn	2252.8	k-ft
Capacity, Mu/ϕMn	0.212	OK
Bend Line Length	36.625	in
Additional Bend Line	0.000	in
Section Modulus, Z	36.625	in^3
Applied Moment, Mu	614.9	k-ft
Bending Capacity, ϕMn	1977.8	k-ft
Capacity, Mu/ϕMn	0.311	OK

Internal Base Plate		
Arc Length	0.000	in
Section Modulus, Z	0.000	in^3
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕMn	0.0	k-ft
Capacity, Mu/ϕMn		

Site Name: CRANBURYSU CT, CT
Site Number: 411189
Tower Type: MP
Design Loads (Factored) - Analysis per TIA-222-H Standards

Monolithic Mat & Pier Foundation Analysis

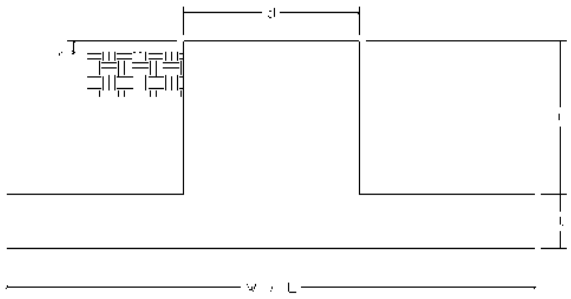
Foundation Analysis Parameters		
Design / Analysis / Mapping:	Analysis	-
Compression/Leg:	65.4	k
Uplift/Leg:		k
Total Shear:	28.8	k
Moment:	2,724.0	k-ft
Tower + Appurtenance Weight:	65.4	k
Depth to Base of Foundation (l + t - h):	4.5	ft
Diameter of Pier (d):	8	ft
Length of Pier (l):	2.5	ft
Height of Pier above Ground (h):	1	ft
Width of Pad (W):	29.5	ft
Length of Pad (L):	29.5	ft
Thickness of Pad (t):	3	ft
Tower Leg Center to Center:	0	ft
Number of Tower Legs:	1	-
Tower Center from Mat Center:	0	ft
Depth Below Ground Surface to Water Table:	6	ft
Unit Weight of Concrete:	150	pcf
Unit Weight of Soil Above Water Table:	100	pcf
Unit Weight of Water:	62.4	pcf
Unit Weight of Soil Below Water Table:	37.6	pcf
Friction Angle of Uplift:	15	°
Coefficient of Shear Friction:	0.6	-
Ultimate Compressive Bearing Pressure:	6,000	psf
Ultimate Passive Pressure on Pad Face:	0	psf
$f_{Soil\ and\ Concrete\ Weight}$:	0.9	-
f_{Soil}:	0.75	-

Overturning Moment Usage		
Design OTM:	2882.4	k-ft
OTM Resistance:	7912.3	k-ft
Design OTM / OTM Resistance:	36%	Pass

Soil Bearing Pressure Usage		
Net Bearing Pressure:	1682	psf
Factored Nominal Bearing Pressure:	4500	psf
Factored Nominal (Net) Bearing Pressure:	37%	Pass
Load Direction Controling Design Bearing Pressure:	*Diagonal to Pad Edge*	

Sliding Factor of Safety		
Ultimate Friction Resistance:	352.8	k
Ultimate Passive Pressure Resistance:	0.0	k
Total Factored Sliding Resistance:	264.6	k
Sliding Design / Sliding Resistance:	11%	Pass

Foundation Steel Parameters		
Shear/Leg (Compression):	19.2	k
Shear/Leg (Uplift):	15.8	k
Concrete Strength (f'_c):	4,000	psi
Pad Tension Steel Depth:	32.50	in
Dead Load Factor:	0.9	-
f_{Shear}:	0.75	-
$f_{Flexure\ /\ Tension}$:	0.9	-
$f_{Compression:}$	0.65	-
b:	0.85	-
Bottom Pad Rebar Size #:	8	-
# of Bottom Pad Rebar:	44	-
Pad Bottom Steel Area:	34.76	in^2
Pad Steel F_y:	60,000	psi
Top Pad Rebar Size #:	8	-
# of Top Pad Rebar:	28	-
Pad Top Steel Area:	22.12	in^2
Pier Rebar Size #:	8	-
Pier Steel Area (Single Bar):	0.79	in^2
# of Pier Rebar:	44	-
Pier Steel F_y:	60,000	psi
Pier Cage Diameter:	88.0	in
Rebar Strain Limit:	0.008	-
Steel Elastic Modulus:	29,000	ksi
Tie Rebar Size #:	4	-
Tie Steel Area (Single Bar):	0.20	in^2
Tie Spacing:	8	in
Tie Steel F_y:	60,000	psi
Clear Cover:	3	in



Pad Strength Capacity			
Factored One Way Shear (V_u):	237.3	k	
One Way Shear Capacity (fV_c):	1091.5	k	*ACI 318-14 25.5.5.1*
V_u / fV_c:	22%	Pass	
Load Direction Controling Shear Capacity:	*Parallel to Pad Edge*		
Lower Steel Pad Factored Moment (M_u):	1749.7	k-ft	
Lower Steel Pad Moment Capacity (fM_n):	4968.5	k-ft	*ACI 318-14 22.3.1.1*
M_u / fM_n:	35%	Pass	
Load Direction Controling Flexural Capacity:	*Parallel to Pad Edge*		
Upper Steel Pad Factored Moment (M_u):	767.3	k-ft	
Upper Steel Pad Moment Capacity (fM_n):	3188.4	k-ft	
M_u / fM_n:	24%	Pass	
Lower Pad Flexural Reinforcement Ratio:	0.0030		*OK - ACI 318-14 7.6.1.1 & 8.6.1.1*
Upper Pad Flexural Reinforcement Ratio:	0.0019		*OK - ACI 318-14 7.6.1.1 & 8.6.1.1*
Pad Shrinkage Reinforcement Ratio:	0.0049		*OK - ACI 318-14 24.4.3.2*
Lower Pad Reinforcement Spacing:	8.1	in	*OK - ACI 318-14 7.7.2.3, 8.7.2.2, & 24.4.3.3*
Upper Pad Reinforcement Spacing:	12.9	in	*OK - ACI 318-14 7.7.2.3, 8.7.2.2, & 24.4.3.3*
Ultimate Punching Shear Stress, v_u:	26.00	psi	*ACI 318-14 R8.4.4.2.3*
Nominal Punching Shear Capacity (f_cv_c):	189.7	psi	*ACI 318-14 22.6.5.2*
v_u / f_cv_c:	14%	Pass	
Pier Moment Pad Flexure Transfer Ratio, γ_f:	0.60		*TIA-222-H 9.4.2*
Moment Transfer Effective Flexural Width, B_{eff}:	17.00	ft	*TIA-222-H 9.4.2*
Moment Transfer Through Pad Flexure:	20131.20	k-in	*TIA-222-H 9.4.2*
Moment Transfer Flexural Capacity ($fM_{sc,f}$):	35531.52	k-in	
g_fM_{sc} / $fM_{sc,f}$:	0%	Pass	

Pier Strength Capacity			
Factored Moment in Pier (M_u):	2796.0	k-ft	
Pier Moment Capacity (fM_n):	6730.8	k-ft	
M_u / fM_n:	42%	Pass	
Factored Shear in Pier (V_u):	28.8	k	
Pier Shear Capacity (fV_n):	862.6	k	*ACI 318-14 22.5.1.1*
V_u / fV_c:	3%	Pass	
Pier Shear Reinforcement Ratio:	0.0003		*OK - No Ties Necessary for Shear - ACI11.5.6.1*
Factored Tension in Pier (T_u):	0.0	k	
Pier Tension Capacity (fT_n):	1877.0	k	
T_u / fT_n:	0%	Pass	
Factored Compression in Pier (P_u):	65.4	k	
Pier Compression Capacity (fP_n):	12760.4	k	*ACI 318-14 22.4.2.1*
P_u / fP_n:	1%	Pass	
Minimum Depth to Develop Vertical Rebar:	29	in	*ACI 318-14 25.4.2.3*
Minimum Hook Development Length:	19	in	*ACI 318-14 25.4.3.1*
Minimum Mat Thickness / Edge Distance from Pier:	22.0	in	
Minimum Foundation Depth:	4.02	ft	
$M_u/f_BM_n + T_u/f_TT_n$:	42%	Pass	

AMERICAN TOWER®
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This report was prepared for American Tower Corporation by

POD
POWER OF DESIGN

Antenna Mount Analysis Report

ATC Site Name	:	**CRANBURYSU CT**
ATC Site Number	:	**411189**
Engineering Number	:	**13732384_C8_01**
Mount Elevation	:	**110 ft**
Carrier	:	**T-MOBILE**
Carrier Site Name	:	**Westport/ MP X 41**
Carrier Site Number	:	**CT 11075C**
Site Location	:	**2 SUNNY LANE** **Westport, CT 06880** **41.16291700, -73.37308300**
County	:	**Fairfield**
Date	:	**September 29, 2021**
Max Usage	:	**66 %**
Result	:	**Pass**

Prepared By: Akshaykumar Bhat
Jason G. Cheronis
Vice President of Structural Engineering

STATE OF CONNECTICUT
JASON CHERONIS
PEN.0032793
LICENSED
PROFESSIONAL ENGINEER

Jason Cheronis

Digitally signed by Jason Cheronis
Date: 2021.09.29 15:57:17 -04'00'

Table of Contents

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for T-MOBILE at 110 ft.

Supporting Documents

RFDS	RFDS dated August 16, 2021
Photos	Site photos from 2020
Structural Analysis	ATC Engineering Number 13700310_C3_02 dated August 27, 2021

Analysis

This antenna mount was analyzed using RISA-3D v17 analysis software

Basic Wind Speed:	117 mph, Vult (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" Radial Ice (Escalating)
Codes:	TIA-222-H
Structure Class:	II
Exposure Category:	B
Topographic Factor Procedure:	Method 2
Topographic Feature:	Flat
Crest Height:	0 ft
Spectral Response:	Ss = 0.233, S_1 = 0.056
Site Class:	D (assumed)
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above. The mount can support the equipment as described in this report.

If you have any questions or require additional information, please contact POD Group via email at mhoudeshell@podgrp.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Antenna Loading

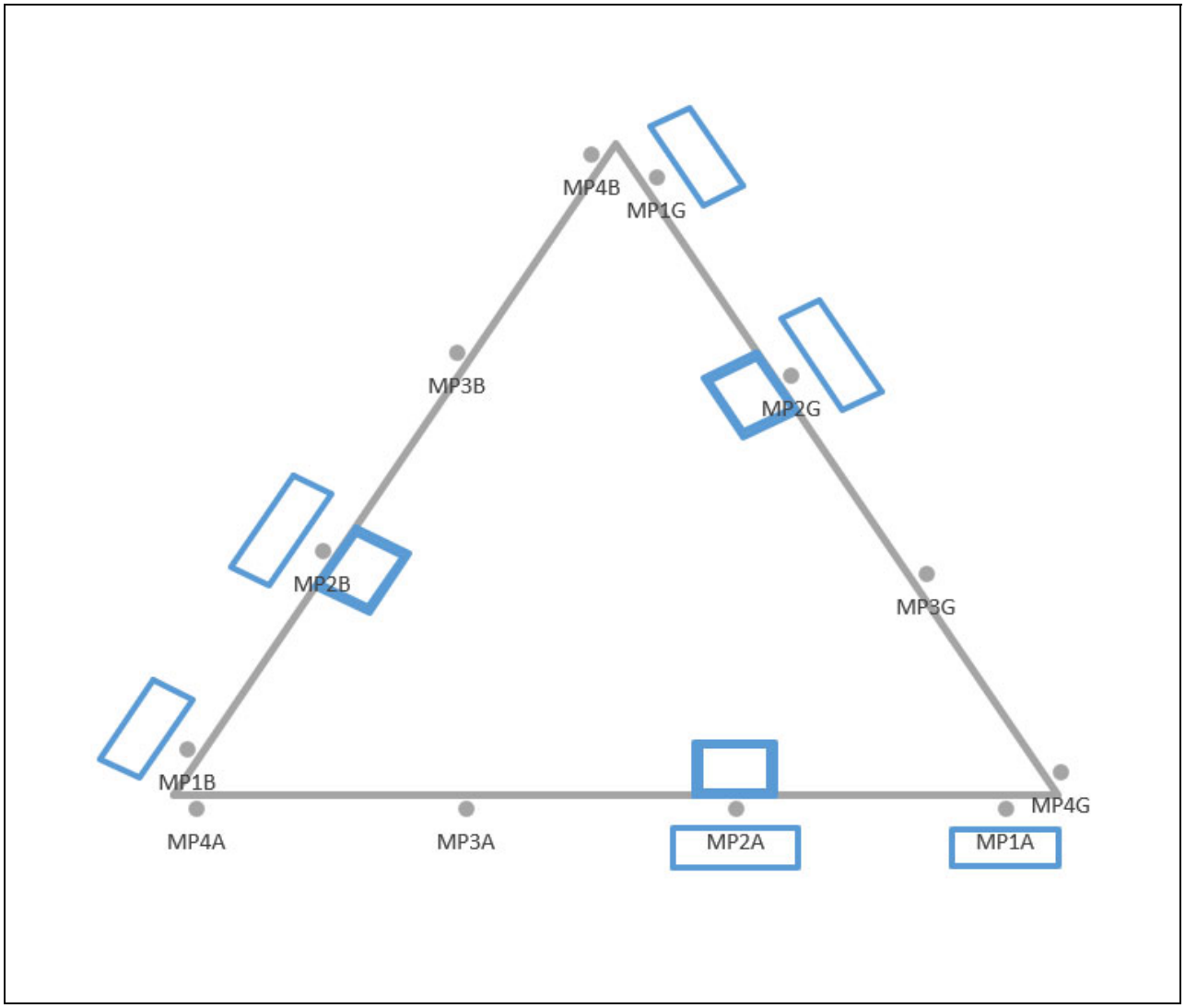
Mount Centerline (ft)	Antenna Centerline (ft)	Qty	Antenna Model
110.0	110.0	3	APXVAARR24_43-U-NA20
		3	Ericsson Air6449 B41
		3	Ericsson Radio 4449 B71 B85A
		3	Ericsson 4460 BAND 2/25
60.0	60.0	1	Generic GPS*

***Equipment at a different elevation and excluded from analysis.**

Structure Usages

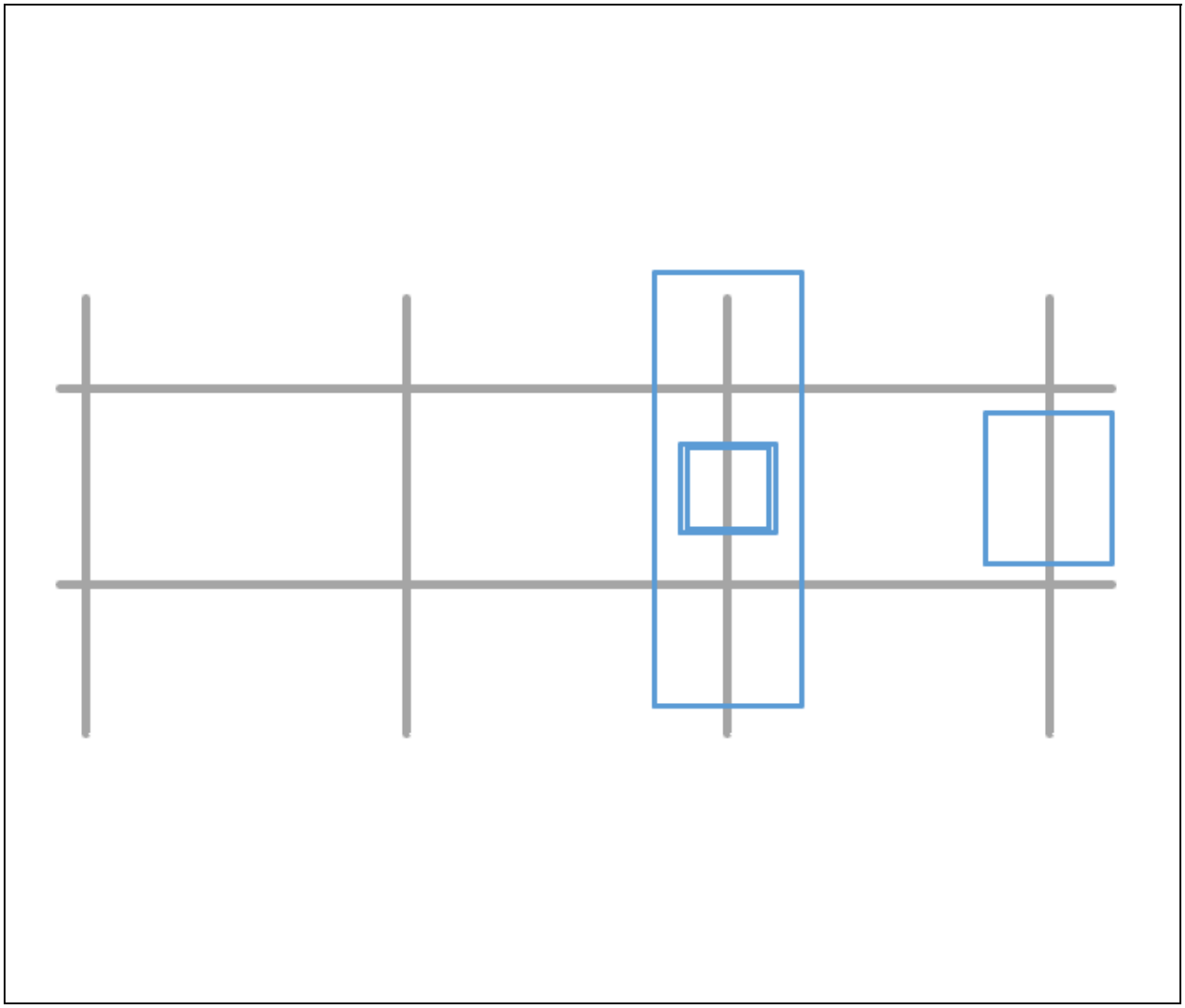
Structural Component	Controlling Usage	Pass/Fail
Square Flange Plate	66%	Pass
Standoff	62%	Pass
Mount Pipes	36%	Pass
Face	28%	Pass
Connect	26%	Pass
Support Rail	24%	Pass
Solid Round	8%	Pass
Grating Support	2%	Pass

Mount Layout (From Above)



Equipment Model	Quantity	Height (in)	Width (in)	Depth (in)	Azimuth	Sector	Mount Pipe #
APXVAARR24_43-U-NA20	1	95.9	24	8.7	0	A/B/C	2
Air6449 B41	1	33.1	20.6	8.6	0	A/B/C	1
Radio 4449 B71 B85A	1	17.91	13.2	10.63	0	A/B/C	2
4460 BAND 2/25	1	19.6	15.7	12.1	0	A/B/C	2

Equipment Layout (From Front)



Equipment Model	Quantity	Height (in)	Width (in)	Depth (in)	Azimuth	Sector	Mount Pipe #
APXVAARR24_43-U-NA20	1	95.9	24	8.7	0	A/B/C	2
Air6449 B41	1	33.1	20.6	8.6	0	A/B/C	1
Radio 4449 B71 B85A	1	17.91	13.2	10.63	0	A/B/C	2
4460 BAND 2/25	1	19.6	15.7	12.1	0	A/B/C	2

Standard Conditions

All engineering services performed by POD Group are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of POD Group

It is the responsibility of the client to ensure that the information provided to POD Group and used in the performance of our engineering services is correct and complete.

POD Group assumes that all structures were constructed in accordance with the drawings and specifications.

All connections are to be verified for condition and tightness by the installation contractor preceding any changes to the appurtenance mounting system and/or equipment attached to it.

Unless explicitly agreed by both the client and POD Group, all services will be performed in accordance with the current revision of ANSI/TIA-222.

Installation of all equipment and steel should be confirmed not to cause tower conflicts nor impede the tower climbing pegs.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. POD Group is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

POD
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POD Job #	**21-110138**
Site Number	**411189**
Site Name	**CRANBURYSU CT**

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1			
V (Wind Speed)	117	I(ice)	1	Sms	0.373			
Zs	50.71			Sm1	0.127			
ti	1	Ss	0.233	Sds	0.249	Front Outer Dimensions	width (ft) 14.217	height (ft) 3.6
Vi	50	S1	0.053	Sd1	0.085			
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	130	Cs, Min	0.03 TIA-222-H 2.7.7.1.1			
Ke	1.00			Cs	0.124266667 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 #
APXVAARR24_43-U-NA20			110	4.5	60		A/B/C	1	2
Air6449 B41			110	4.5	24		A/B/C	1	1
Radio 4449 B71 B85A			110	4.5			A/B/C	1	2
4460 BAND 2/25			110	4.5			A/B/C	1	2

Mount Information

Elevation (ft)	110	Grating Thickness (in)	1
K_z	1.02	Grating Ice Weight (k/ft^2)	0.014
Kiz	1.13		
tiz	1.13		

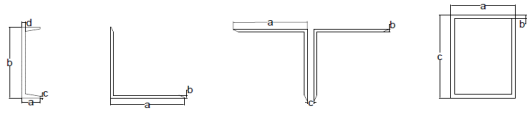
	Length (ft)	Width (in)	Centerline
Mount Pipes	8	2.375	109.5

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
TR	0.5	0.625	No	4
Rail On	14	2.375	Yes	2
Rail Off	14	2.375	No	1

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
Connect	1.5	2.5	Angle		2.5	0.25		No	3
Face On	14.217	4	Square HSS		4	0.25	4	Yes	2
Face Off	14.217	4	Square HSS		4	0.25	4	No	1
Standoff	8.32	4	Square HSS		4	0.25	4	No	3
Support	0.863	2	Angle		2	0.25		No	12



Version 3.55

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
APXVAARR24_43-U-NA20	95.9	24.0	8.7	153.3	1.02	33.75	18.22	8.00	0.615	0.270	0.529	0.529	0.270
Air6449 B41	33.1	20.6	8.6	104.0	1.02	33.75	5.11	2.24	0.173	0.076	0.148	0.148	0.076
Radio 4449 B71 B85A	17.9	13.2	10.6	46.3	1.02	33.75	1.77	1.43	0.060	0.048	0.057	0.057	0.048
4460 BAND 2/25	19.6	15.7	12.1	109.0	1.02	33.75	2.31	1.78	0.078	0.060	0.073	0.073	0.060

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
APXVAARR24_43-U-NA20	1.13	98.16	26.26	10.96	266.11	1.13	6.16	20.22	9.85	0.125	0.061	0.109	0.109	0.061
Air6449 B41	1.13	35.36	22.86	10.86	94.26	1.13	6.16	6.06	2.96	0.037	0.018	0.033	0.033	0.018
Radio 4449 B71 B85A	1.13	20.17	15.46	12.89	48.72	1.13	6.16	2.34	1.95	0.014	0.012	0.014	0.014	0.012
4460 BAND 2/25	1.13	21.86	17.96	14.36	61.91	1.13	6.16	2.94	2.35	0.018	0.015	0.017	0.017	0.015

Round Members

Member	Wind Calculations q_z (lb/ft^2)	Ar	C	Rr	Cf	EPA (ft^2)	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA (ft^2)	Load (k/ft)
TR	33.75	0.10	5.99	0.60	1.20	0.02	0.001	2.88	0.00	6.16	0.48	0.67	1.20	0.09	0.001
Rail On	33.75	5.54	22.74	0.60	1.20	1.79	0.004	4.63	0.00	6.16	10.81	0.67	1.20	3.90	0.002
Rail Off	33.75	2.77	22.74	0.60	1.20	1.79	0.002	4.63	0.00	6.16	5.40	0.67	1.20	3.90	0.001

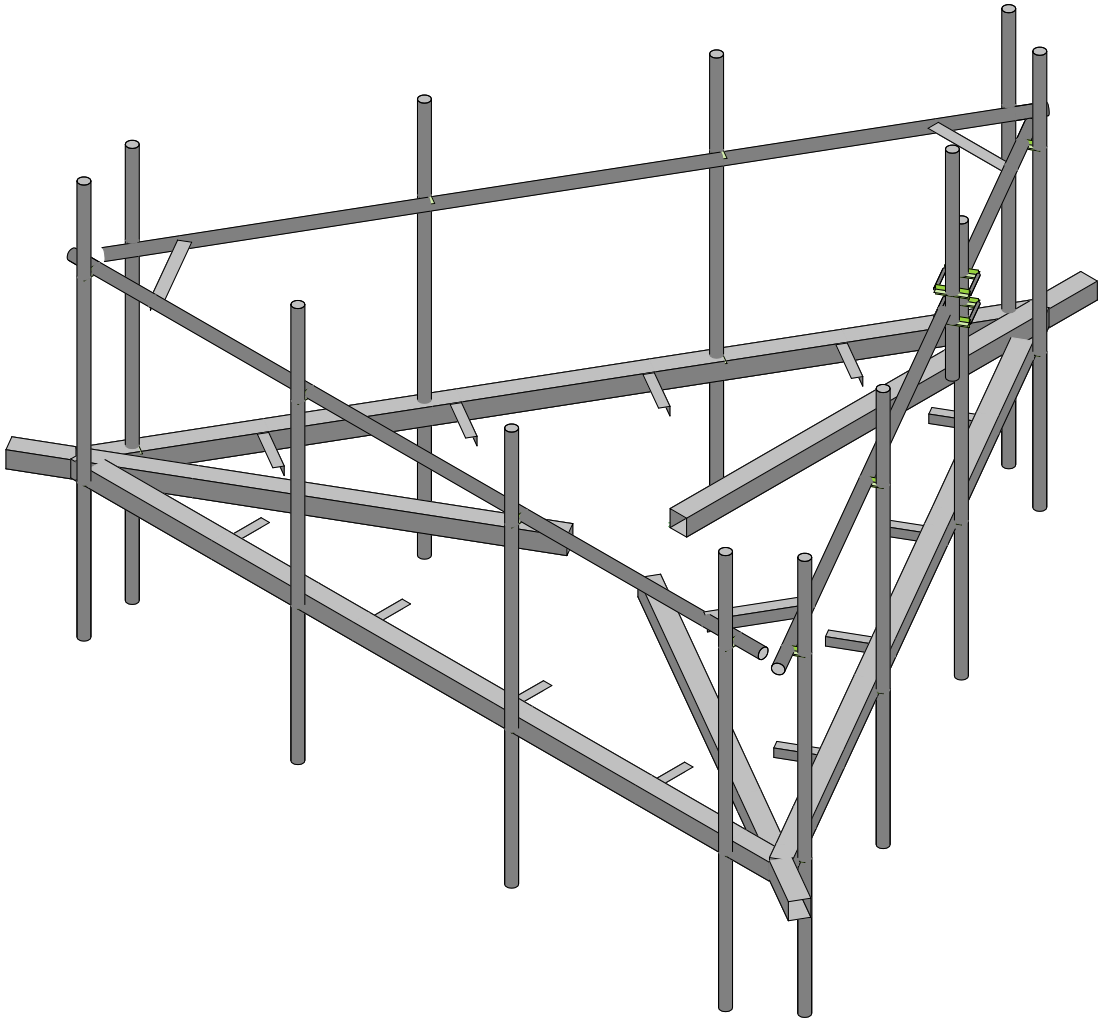
Flat Members

Member	Wind Calculations q_z (lb/ft^2)	Af	Cf	EPA	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA	Load (k/ft)
Connect	33.75	0.94	2.00	0.56	0.006	4.76	0.01	6.16	1.78	0.67	2.00	0.72	0.001
Face On	33.75	9.48	1.25	5.33	0.013	6.26	0.01	6.16	14.82	0.67	1.25	5.58	0.002
Face Off	33.75	4.74	1.25	5.33	0.006	6.26	0.01	6.16	7.41	0.67	1.25	5.58	0.001
Standoff	33.75	8.32	1.25	3.12	0.006	6.26	0.01	6.16	13.01	0.67	1.25	3.26	0.001
Support	33.75	1.73	2.00	0.26	0.005	4.26	0.01	6.16	3.67	0.67	2.00	0.37	0.001

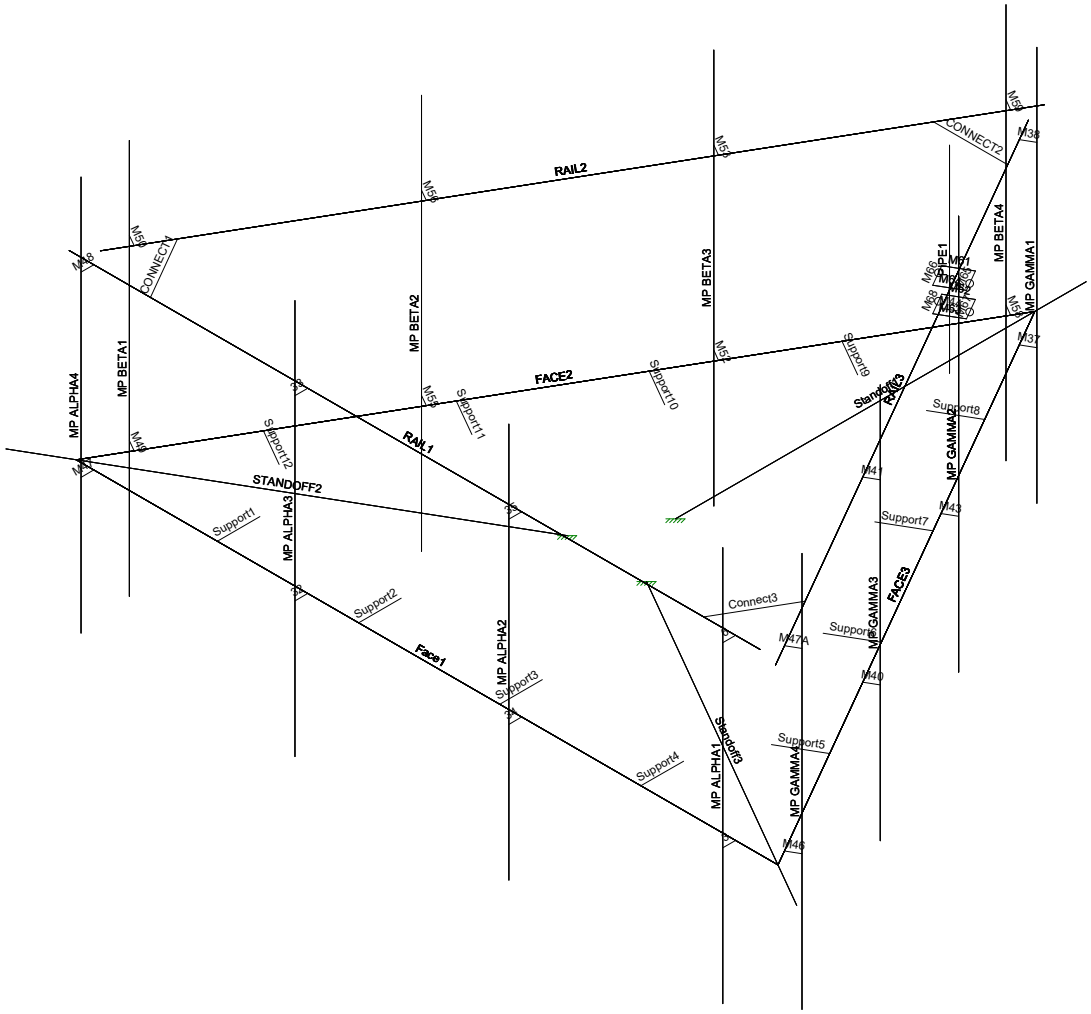
Appurtenance Seismic Calculations

Model	Weight	Sds	ρ	Cs	As	Ev	Eh
APXVAARR24_43-U-NA20	153.3	0.249	1.000	0.124	1.000	0.008	0.019
Air6449 B41	104.0	0.249	1.000	0.124	1.000	0.005	0.013
Radio 4449 B71 B85A	46.3	0.249	1.000	0.124	1.000	0.002	0.006
4460 BAND 2/25	109.0	0.249	1.000	0.124	1.000	0.005	0.014

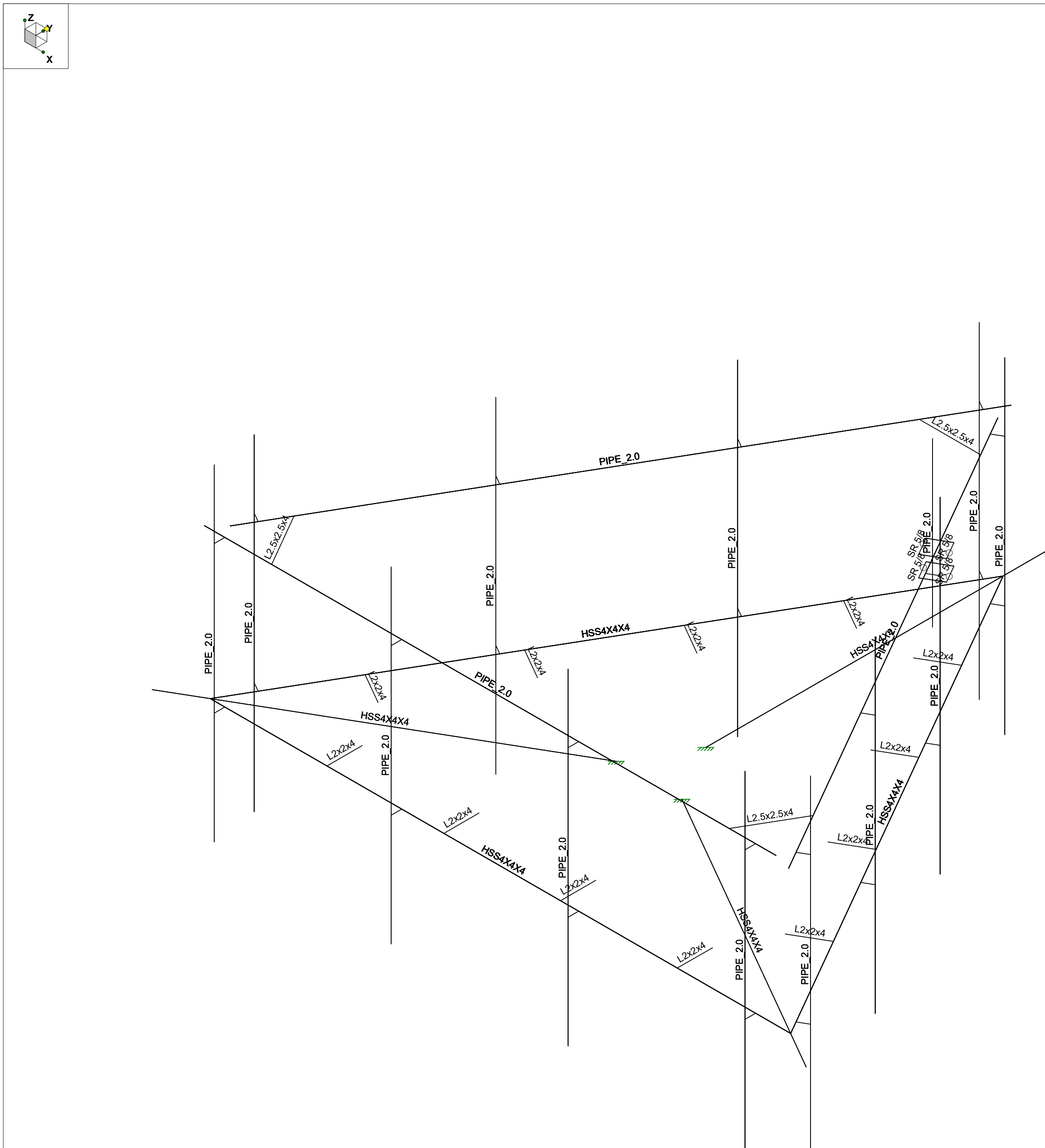
Version 3.55



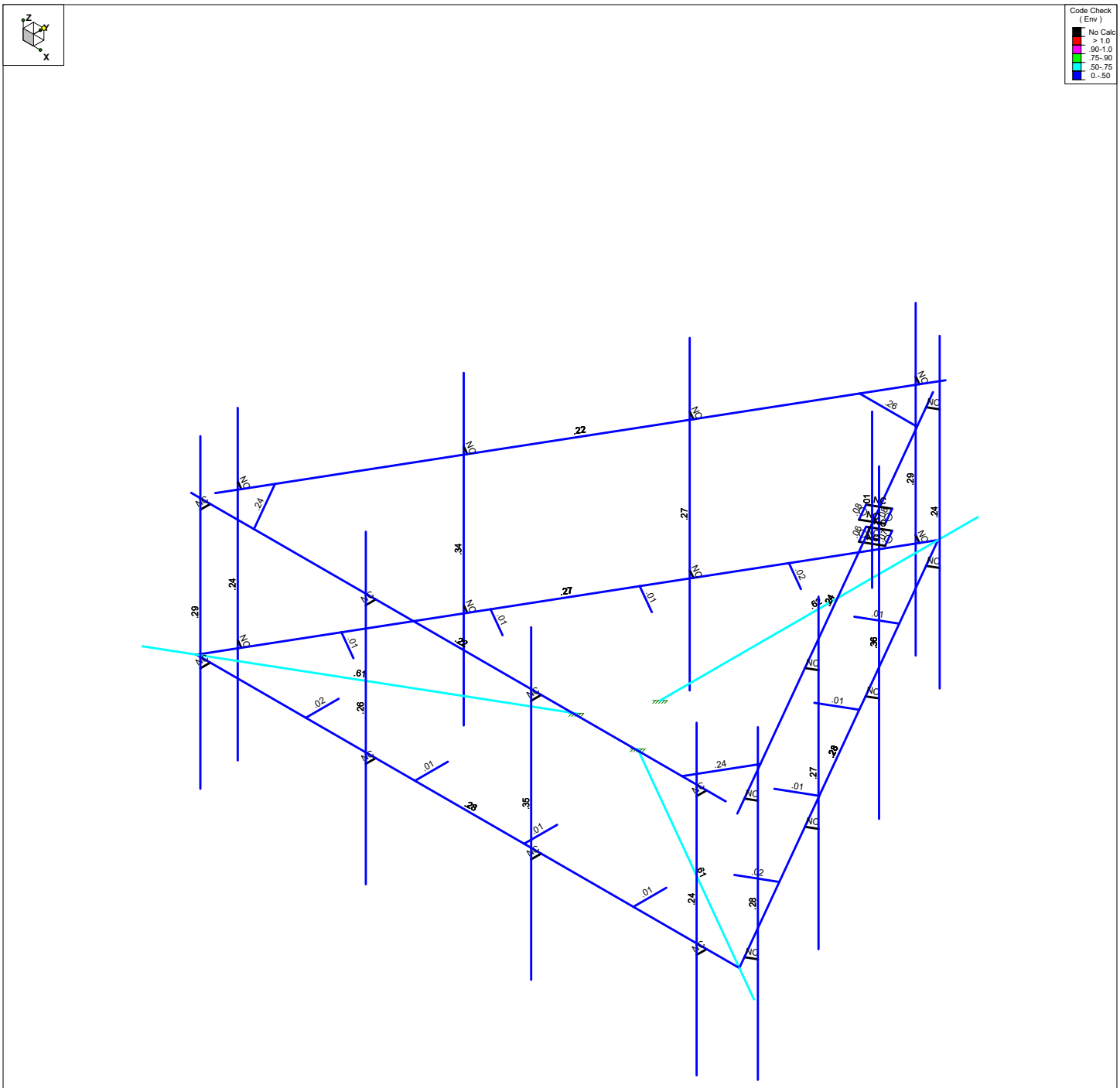
POD	411189	SK - 1
AKB		Sept 29, 2021 at 10:46 AM
21-110138		(PL28) 13.667' EEI Platform with R...



POD	411189	SK - 2
AKB		Sept 29, 2021 at 10:46 AM
21-110138		(PL28) 13.667' EEI Platform with R...

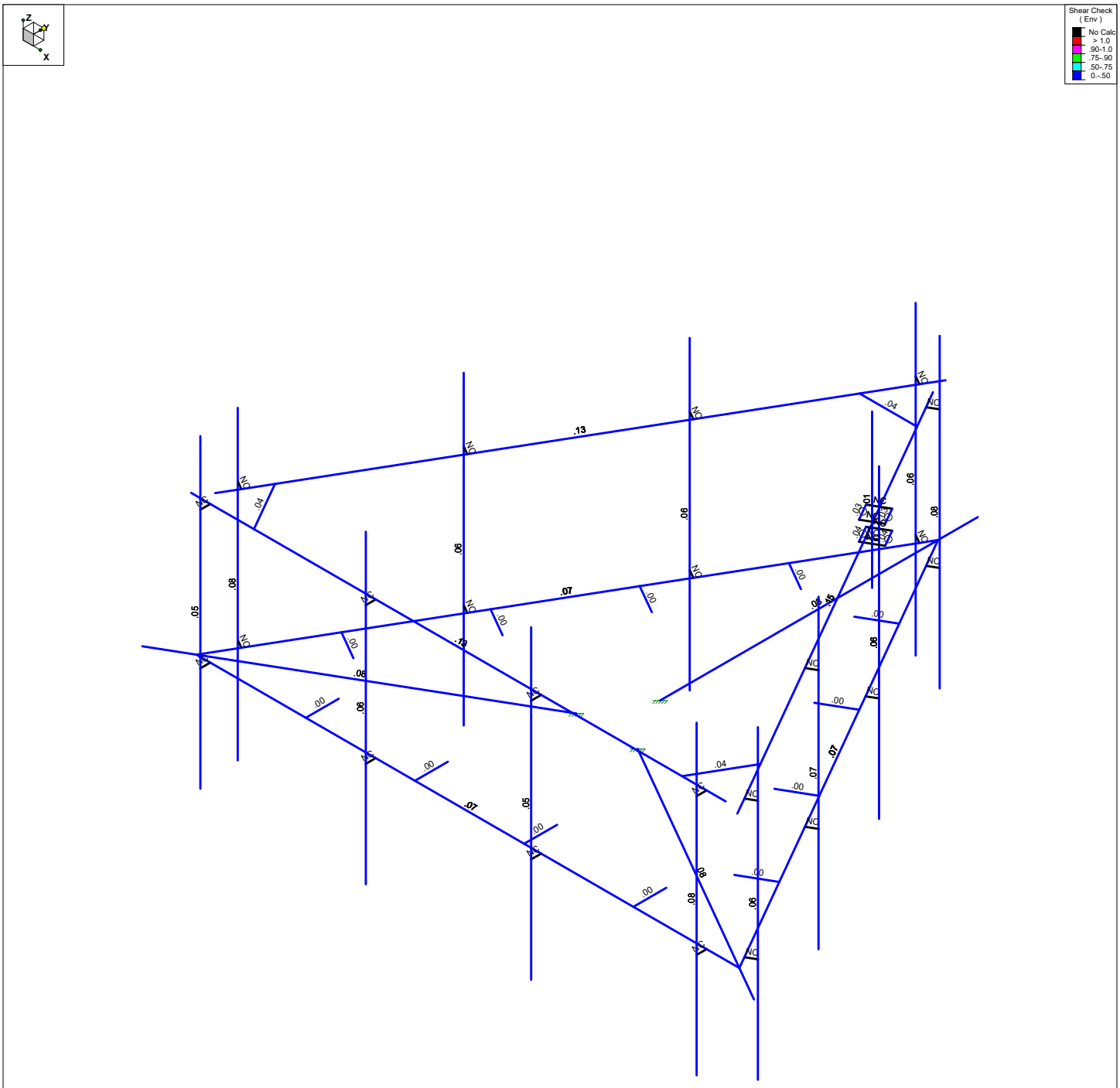


POD	411189	SK - 3
AKB		Sept 29, 2021 at 10:46 AM
21-110138		(PL28) 13.667' EEI Platform with R...



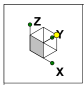
Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.4D

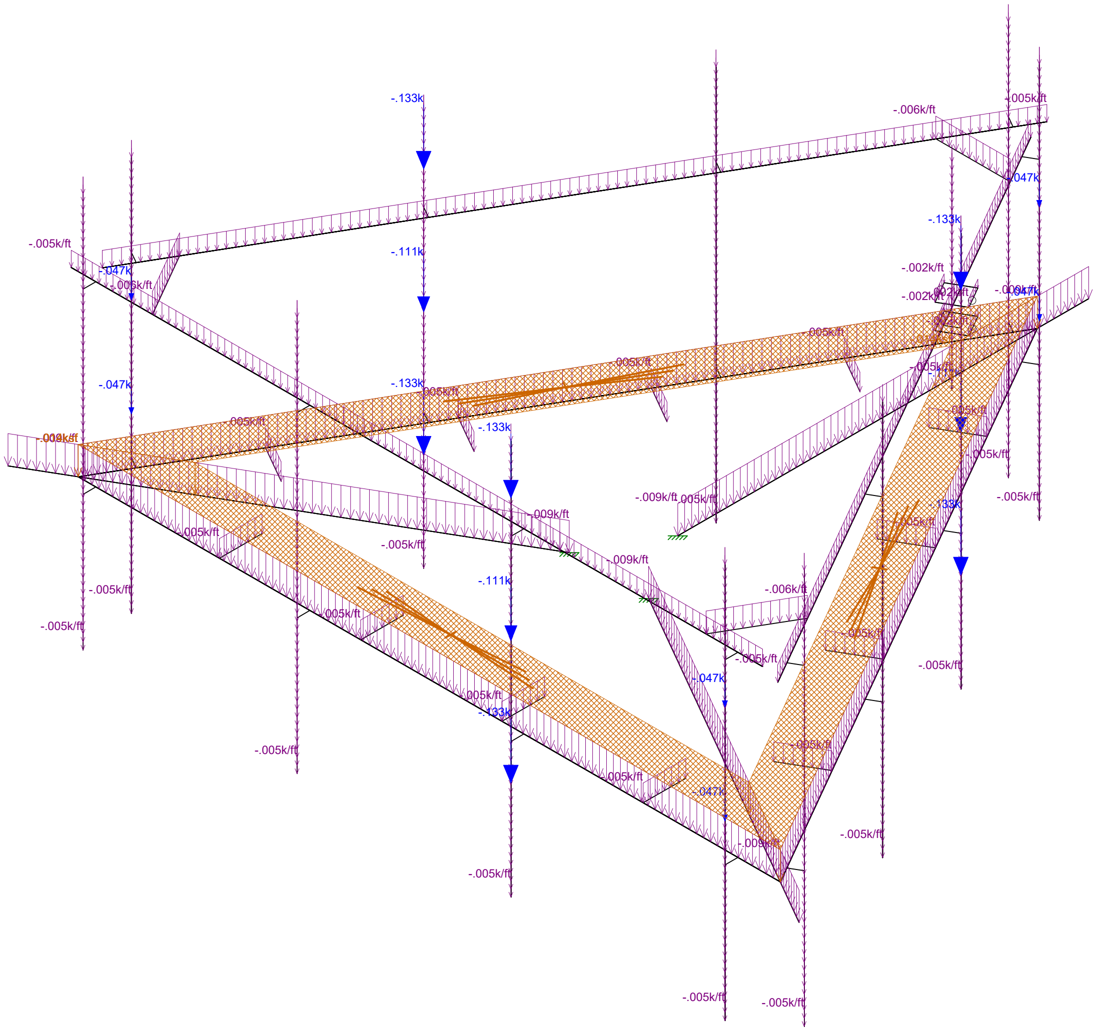
POD	411189	SK - 4
AKB		Sept 29, 2021 at 10:46 AM
21-110138		(PL28) 13.667' EEI Platform with R...



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.4D

POD	411189	SK - 5
AKB		Sept 29, 2021 at 10:47 AM
21-110138		(PL28) 13.667' EEI Platform with R...





Loads: BLC 27, Ice Dead Load

POD	411189	SK - 6
AKB		Sept 29, 2021 at 10:47 AM
21-110138		(PL28) 13.667' EEI Platform with R...

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N9	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N12	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N6	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torq...	Kyy	Kzz	Cb	Functi...
1	Connect3	L2.5x2.5x4	1.503			Lbyy						Lateral
2	Face1	HSS4X4X4	14.217			Lbyy						Lateral
3	FACE3	HSS4X4X4	14.217			Lbyy						Lateral
4	FACE2	HSS4X4X4	14.217			Lbyy						Lateral
5	MP ALPHA1	PIPE_2.0	8			Lbyy						Lateral
6	RAIL1	PIPE_2.0	14			Lbyy						Lateral
7	RAIL3	PIPE_2.0	14			Lbyy						Lateral
8	RAIL2	PIPE_2.0	14			Lbyy						Lateral
9	Standoff1	HSS4X4X4	8.32	7		Lbyy						Lateral
10	STANDOFF2	HSS4X4X4	8.32	7		Lbyy						Lateral
11	Standoff3	HSS4X4X4	8.32	7		Lbyy						Lateral
12	Support1	L2x2x4	.863			Lbyy						Lateral
13	Support2	L2x2x4	.863			Lbyy						Lateral
14	Support3	L2x2x4	.863			Lbyy						Lateral
15	Support4	L2x2x4	.863			Lbyy						Lateral
16	Support5	L2x2x4	.863			Lbyy						Lateral
17	Support6	L2x2x4	.863			Lbyy						Lateral
18	Support7	L2x2x4	.863			Lbyy						Lateral
19	Support8	L2x2x4	.863			Lbyy						Lateral
20	Support9	L2x2x4	.863			Lbyy						Lateral
21	Support10	L2x2x4	.863			Lbyy						Lateral
22	Support11	L2x2x4	.863			Lbyy						Lateral
23	Support12	L2x2x4	.863			Lbyy						Lateral
24	MP ALPHA3	PIPE_2.0	8			Lbyy						Lateral
25	MP ALPHA2	PIPE_2.0	8			Lbyy						Lateral
26	MP ALPHA4	PIPE_2.0	8			Lbyy						Lateral
27	CONNECT2	L2.5x2.5x4	1.503			Lbyy						Lateral
28	CONNECT1	L2.5x2.5x4	1.503			Lbyy						Lateral
29	MP GAMMA1	PIPE_2.0	8			Lbyy						Lateral
30	MP GAMMA3	PIPE_2.0	8			Lbyy						Lateral
31	MP GAMMA2	PIPE_2.0	8			Lbyy						Lateral
32	MP GAMMA4	PIPE_2.0	8			Lbyy						Lateral
33	MP BETA1	PIPE_2.0	8			Lbyy						Lateral
34	MP BETA3	PIPE_2.0	8			Lbyy						Lateral
35	MP BETA2	PIPE_2.0	8			Lbyy						Lateral
36	MP BETA4	PIPE_2.0	8			Lbyy						Lateral
37	M65	SR 5/8	.5			Lbyy						Lateral
38	M66	SR 5/8	.5			Lbyy						Lateral
39	M67	SR 5/8	.5			Lbyy						Lateral
40	M68	SR 5/8	.5			Lbyy						Lateral
41	PIPE1	PIPE_2.0	4			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
1	3	N49	N52			RIGID	None	None	RIGID	Typical
2	6	N55	N58			RIGID	None	None	RIGID	Typical
3	Connect3	N44A	N42A			L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
4	Face1	N1	N2			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
5	FACE3	N2	N3			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
6	FACE2	N3	N1			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
7	MP ALPHA1	N98	N95			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
8	RAIL1	N38	N39			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
9	RAIL3	N105	N106			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
10	RAIL2	N108	N109			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
11	Standoff1	N6	N4			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
12	STANDOFF2	N9	N7			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
13	Standoff3	N12	N10			HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
14	Support1	N11	N15		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
15	Support2	N12A	N16		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
16	Support3	N13	N17		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
17	Support4	N14	N18		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
18	Support5	N20	N24			L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
19	Support6	N21	N25			L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
20	Support7	N22	N26			L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
21	Support8	N23	N27			L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
22	Support9	N29	N33		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
23	Support10	N30	N34		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
24	Support11	N31	N35		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
25	Support12	N32	N36		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
26	32	N74	N75A			RIGID	None	None	RIGID	Typical
27	33	N76	N77			RIGID	None	None	RIGID	Typical
28	MP ALPHA3	N79	N78A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
29	34	N80	N81A			RIGID	None	None	RIGID	Typical
30	35	N82	N83			RIGID	None	None	RIGID	Typical
31	MP ALPHA2	N85	N84A			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
32	M47	N92	N93			RIGID	None	None	RIGID	Typical
33	M48	N94	N95A			RIGID	None	None	RIGID	Typical
34	MP ALPHA4	N97	N96			PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
35	CONNECT2	N73	N72		180	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
36	CONNECT1	N76A	N75			L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
37	M37	N76B	N77A		180	RIGID	None	None	RIGID	Typical
38	M38	N78	N79A		180	RIGID	None	None	RIGID	Typical
39	MP GAMMA1	N81	N80A		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
40	M40	N82A	N83A		180	RIGID	None	None	RIGID	Typical
41	M41	N84	N85A		180	RIGID	None	None	RIGID	Typical
42	MP GAMMA3	N87	N86		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
43	M43	N88	N89		180	RIGID	None	None	RIGID	Typical
44	M44	N90	N91		180	RIGID	None	None	RIGID	Typical
45	MP GAMMA2	N93A	N92A		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
46	M46	N94A	N95B		180	RIGID	None	None	RIGID	Typical
47	M47A	N96A	N97A		180	RIGID	None	None	RIGID	Typical
48	MP GAMMA4	N99	N98A		120	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
49	M49	N101A	N102A			RIGID	None	None	RIGID	Typical
50	M50	N103A	N104			RIGID	None	None	RIGID	Typical
51	MP BETA1	N106A	N105A		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
52	M52	N107	N108A			RIGID	None	None	RIGID	Typical
53	M53	N109A	N110			RIGID	None	None	RIGID	Typical
54	MP BETA3	N112	N111		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
55	M55	N113	N114			RIGID	None	None	RIGID	Typical
56	M56	N115	N116			RIGID	None	None	RIGID	Typical
57	MP BETA2	N118	N117		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
58	M58	N119	N120			RIGID	None	None	RIGID	Typical
59	M59	N121	N122			RIGID	None	None	RIGID	Typical
60	MP BETA4	N124	N123		240	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
61	M61	N128	N126			RIGID	None	None	RIGID	Typical
62	M62	N127	N125			RIGID	None	None	RIGID	Typical
63	M63	N133	N131			RIGID	None	None	RIGID	Typical
64	M64	N134	N132			RIGID	None	None	RIGID	Typical
65	M65	N134	N128			SR 5/8	Beam	BAR	A36 Gr.36	Typical
66	M66	N126	N132			SR 5/8	Beam	BAR	A36 Gr.36	Typical
67	M67	N133	N127			SR 5/8	Beam	BAR	A36 Gr.36	Typical
68	M68	N125	N131			SR 5/8	Beam	BAR	A36 Gr.36	Typical
69	PIPE1	N136	N135			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	3						Yes	** NA **			None
2	6						Yes	** NA **			None
3	Connect3						Yes				None
4	Face1						Yes				None
5	FACE3						Yes				None
6	FACE2						Yes				None
7	MP ALPHA1						Yes				None
8	RAIL1						Yes				None
9	RAIL3						Yes				None
10	RAIL2						Yes				None
11	Standoff1						Yes				None
12	STANDOFF2						Yes				None
13	Standoff3						Yes				None
14	Support1						Yes				None
15	Support2						Yes				None
16	Support3						Yes				None
17	Support4						Yes				None
18	Support5						Yes				None
19	Support6						Yes				None
20	Support7						Yes				None
21	Support8						Yes				None
22	Support9						Yes				None
23	Support10						Yes				None
24	Support11						Yes				None
25	Support12						Yes				None
26	32						Yes	** NA **			None
27	33						Yes	** NA **			None
28	MP ALPHA3						Yes				None
29	34						Yes	** NA **			None
30	35						Yes	** NA **			None
31	MP ALPHA2						Yes				None
32	M47						Yes	** NA **			None
33	M48						Yes	** NA **			None
34	MP ALPHA4						Yes				None
35	CONNECT2						Yes				None
36	CONNECT1						Yes				None
37	M37						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	MP GAMM...						Yes				None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	MP GAMM...						Yes				None
43	M43						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
44	M44						Yes	** NA **			None
45	MP GAMM...						Yes				None
46	M46						Yes	** NA **			None
47	M47A						Yes	** NA **			None
48	MP GAMM...						Yes				None
49	M49						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	MP BETA1						Yes				None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	MP BETA3						Yes				None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	MP BETA2						Yes				None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	MP BETA4						Yes				None
61	M61						Yes	** NA **			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None
65	M65	BenPIN					Yes				None
66	M66	BenPIN					Yes				None
67	M67	BenPIN					Yes				None
68	M68	BenPIN					Yes				None
69	PIPE1						Yes				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	Z	-.5	0

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.307	7
2	MP ALPHA2	Y	-.307	2
3	MP BETA2	Y	-.178	7
4	MP BETA2	Y	-.178	2
5	MP GAMMA2	Y	-.178	7
6	MP GAMMA2	Y	-.178	2
7	MP ALPHA1	Y	-.086	5.5
8	MP ALPHA1	Y	-.086	3.5
9	MP BETA1	Y	-.05	5.5
10	MP BETA1	Y	-.05	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP GAMMA1	Y	-.05	5.5
12	MP GAMMA1	Y	-.05	3.5
13	MP ALPHA2	Y	-.06	4.5
14	MP BETA2	Y	-.051	4.5
15	MP GAMMA2	Y	-.051	4.5
16	MP ALPHA2	Y	-.078	4.5
17	MP BETA2	Y	-.064	4.5
18	MP GAMMA2	Y	-.064	4.5

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.077	7
2	MP ALPHA2	Z	-.077	2
3	MP BETA2	Z	-.077	7
4	MP BETA2	Z	-.077	2
5	MP GAMMA2	Z	-.077	7
6	MP GAMMA2	Z	-.077	2
7	MP ALPHA1	Z	-.052	5.5
8	MP ALPHA1	Z	-.052	3.5
9	MP BETA1	Z	-.052	5.5
10	MP BETA1	Z	-.052	3.5
11	MP GAMMA1	Z	-.052	5.5
12	MP GAMMA1	Z	-.052	3.5
13	MP ALPHA2	Z	-.046	4.5
14	MP BETA2	Z	-.046	4.5
15	MP GAMMA2	Z	-.046	4.5
16	MP ALPHA2	Z	-.109	4.5
17	MP BETA2	Z	-.109	4.5
18	MP GAMMA2	Z	-.109	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.229	7
2	MP ALPHA2	Y	-.229	2
3	MP ALPHA2	X	-.132	7
4	MP ALPHA2	X	-.132	2
5	MP BETA2	Y	-.117	7
6	MP BETA2	Y	-.117	2
7	MP BETA2	X	-.067	7
8	MP BETA2	X	-.067	2
9	MP GAMMA2	Y	-.229	7
10	MP GAMMA2	Y	-.229	2
11	MP GAMMA2	X	-.132	7
12	MP GAMMA2	X	-.132	2
13	MP ALPHA1	Y	-.064	5.5
14	MP ALPHA1	Y	-.064	3.5
15	MP ALPHA1	X	-.037	5.5
16	MP ALPHA1	X	-.037	3.5
17	MP BETA1	Y	-.033	5.5
18	MP BETA1	Y	-.033	3.5
19	MP BETA1	X	-.019	5.5
20	MP BETA1	X	-.019	3.5
21	MP GAMMA1	Y	-.064	5.5
22	MP GAMMA1	Y	-.064	3.5
23	MP GAMMA1	X	-.037	5.5
24	MP GAMMA1	X	-.037	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
25	MP ALPHA2	Y	-.049	4.5
26	MP ALPHA2	X	-.028	4.5
27	MP BETA2	Y	-.042	4.5
28	MP BETA2	X	-.024	4.5
29	MP GAMMA2	Y	-.049	4.5
30	MP GAMMA2	X	-.028	4.5
31	MP ALPHA2	Y	-.064	4.5
32	MP ALPHA2	X	-.037	4.5
33	MP BETA2	Y	-.052	4.5
34	MP BETA2	X	-.03	4.5
35	MP GAMMA2	Y	-.064	4.5
36	MP GAMMA2	X	-.037	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.089	7
2	MP ALPHA2	Y	-.089	2
3	MP ALPHA2	X	-.154	7
4	MP ALPHA2	X	-.154	2
5	MP BETA2	Y	-.089	7
6	MP BETA2	Y	-.089	2
7	MP BETA2	X	-.154	7
8	MP BETA2	X	-.154	2
9	MP GAMMA2	Y	-.154	7
10	MP GAMMA2	Y	-.154	2
11	MP GAMMA2	X	-.266	7
12	MP GAMMA2	X	-.266	2
13	MP ALPHA1	Y	-.025	5.5
14	MP ALPHA1	Y	-.025	3.5
15	MP ALPHA1	X	-.043	5.5
16	MP ALPHA1	X	-.043	3.5
17	MP BETA1	Y	-.025	5.5
18	MP BETA1	Y	-.025	3.5
19	MP BETA1	X	-.043	5.5
20	MP BETA1	X	-.043	3.5
21	MP GAMMA1	Y	-.043	5.5
22	MP GAMMA1	Y	-.043	3.5
23	MP GAMMA1	X	-.075	5.5
24	MP GAMMA1	X	-.075	3.5
25	MP ALPHA2	Y	-.026	4.5
26	MP ALPHA2	X	-.044	4.5
27	MP BETA2	Y	-.026	4.5
28	MP BETA2	X	-.044	4.5
29	MP GAMMA2	Y	-.03	4.5
30	MP GAMMA2	X	-.052	4.5
31	MP ALPHA2	Y	-.032	4.5
32	MP ALPHA2	X	-.056	4.5
33	MP BETA2	Y	-.032	4.5
34	MP BETA2	X	-.056	4.5
35	MP GAMMA2	Y	-.039	4.5
36	MP GAMMA2	X	-.067	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.135	7
2	MP ALPHA2	X	-.135	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP BETA2	X	-.264	7
4	MP BETA2	X	-.264	2
5	MP GAMMA2	X	-.264	7
6	MP GAMMA2	X	-.264	2
7	MP ALPHA1	X	-.038	5.5
8	MP ALPHA1	X	-.038	3.5
9	MP BETA1	X	-.074	5.5
10	MP BETA1	X	-.074	3.5
11	MP GAMMA1	X	-.074	5.5
12	MP GAMMA1	X	-.074	3.5
13	MP ALPHA2	X	-.048	4.5
14	MP BETA2	X	-.057	4.5
15	MP GAMMA2	X	-.057	4.5
16	MP ALPHA2	X	-.06	4.5
17	MP BETA2	X	-.073	4.5
18	MP GAMMA2	X	-.073	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.089	7
2	MP ALPHA2	Y	.089	2
3	MP ALPHA2	X	-.154	7
4	MP ALPHA2	X	-.154	2
5	MP BETA2	Y	.154	7
6	MP BETA2	Y	.154	2
7	MP BETA2	X	-.266	7
8	MP BETA2	X	-.266	2
9	MP GAMMA2	Y	.089	7
10	MP GAMMA2	Y	.089	2
11	MP GAMMA2	X	-.154	7
12	MP GAMMA2	X	-.154	2
13	MP ALPHA1	Y	.025	5.5
14	MP ALPHA1	Y	.025	3.5
15	MP ALPHA1	X	-.043	5.5
16	MP ALPHA1	X	-.043	3.5
17	MP BETA1	Y	.043	5.5
18	MP BETA1	Y	.043	3.5
19	MP BETA1	X	-.075	5.5
20	MP BETA1	X	-.075	3.5
21	MP GAMMA1	Y	.025	5.5
22	MP GAMMA1	Y	.025	3.5
23	MP GAMMA1	X	-.043	5.5
24	MP GAMMA1	X	-.043	3.5
25	MP ALPHA2	Y	.026	4.5
26	MP ALPHA2	X	-.044	4.5
27	MP BETA2	Y	.03	4.5
28	MP BETA2	X	-.052	4.5
29	MP GAMMA2	Y	.026	4.5
30	MP GAMMA2	X	-.044	4.5
31	MP ALPHA2	Y	.032	4.5
32	MP ALPHA2	X	-.056	4.5
33	MP BETA2	Y	.039	4.5
34	MP BETA2	X	-.067	4.5
35	MP GAMMA2	Y	.032	4.5
36	MP GAMMA2	X	-.056	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.229	7
2	MP ALPHA2	Y	.229	2
3	MP ALPHA2	X	-.132	7
4	MP ALPHA2	X	-.132	2
5	MP BETA2	Y	.229	7
6	MP BETA2	Y	.229	2
7	MP BETA2	X	-.132	7
8	MP BETA2	X	-.132	2
9	MP GAMMA2	Y	.117	7
10	MP GAMMA2	Y	.117	2
11	MP GAMMA2	X	-.067	7
12	MP GAMMA2	X	-.067	2
13	MP ALPHA1	Y	.064	5.5
14	MP ALPHA1	Y	.064	3.5
15	MP ALPHA1	X	-.037	5.5
16	MP ALPHA1	X	-.037	3.5
17	MP BETA1	Y	.064	5.5
18	MP BETA1	Y	.064	3.5
19	MP BETA1	X	-.037	5.5
20	MP BETA1	X	-.037	3.5
21	MP GAMMA1	Y	.033	5.5
22	MP GAMMA1	Y	.033	3.5
23	MP GAMMA1	X	-.019	5.5
24	MP GAMMA1	X	-.019	3.5
25	MP ALPHA2	Y	.049	4.5
26	MP ALPHA2	X	-.028	4.5
27	MP BETA2	Y	.049	4.5
28	MP BETA2	X	-.028	4.5
29	MP GAMMA2	Y	.042	4.5
30	MP GAMMA2	X	-.024	4.5
31	MP ALPHA2	Y	.064	4.5
32	MP ALPHA2	X	-.037	4.5
33	MP BETA2	Y	.064	4.5
34	MP BETA2	X	-.037	4.5
35	MP GAMMA2	Y	.052	4.5
36	MP GAMMA2	X	-.03	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.307	7
2	MP ALPHA2	Y	.307	2
3	MP BETA2	Y	.178	7
4	MP BETA2	Y	.178	2
5	MP GAMMA2	Y	.178	7
6	MP GAMMA2	Y	.178	2
7	MP ALPHA1	Y	.086	5.5
8	MP ALPHA1	Y	.086	3.5
9	MP BETA1	Y	.05	5.5
10	MP BETA1	Y	.05	3.5
11	MP GAMMA1	Y	.05	5.5
12	MP GAMMA1	Y	.05	3.5
13	MP ALPHA2	Y	.06	4.5
14	MP BETA2	Y	.051	4.5
15	MP GAMMA2	Y	.051	4.5
16	MP ALPHA2	Y	.078	4.5
17	MP BETA2	Y	.064	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP GAMMA2	Y	.064	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.229	7
2	MP ALPHA2	Y	.229	2
3	MP ALPHA2	X	.132	7
4	MP ALPHA2	X	.132	2
5	MP BETA2	Y	.117	7
6	MP BETA2	Y	.117	2
7	MP BETA2	X	.067	7
8	MP BETA2	X	.067	2
9	MP GAMMA2	Y	.229	7
10	MP GAMMA2	Y	.229	2
11	MP GAMMA2	X	.132	7
12	MP GAMMA2	X	.132	2
13	MP ALPHA1	Y	.064	5.5
14	MP ALPHA1	Y	.064	3.5
15	MP ALPHA1	X	.037	5.5
16	MP ALPHA1	X	.037	3.5
17	MP BETA1	Y	.033	5.5
18	MP BETA1	Y	.033	3.5
19	MP BETA1	X	.019	5.5
20	MP BETA1	X	.019	3.5
21	MP GAMMA1	Y	.064	5.5
22	MP GAMMA1	Y	.064	3.5
23	MP GAMMA1	X	.037	5.5
24	MP GAMMA1	X	.037	3.5
25	MP ALPHA2	Y	.049	4.5
26	MP ALPHA2	X	.028	4.5
27	MP BETA2	Y	.042	4.5
28	MP BETA2	X	.024	4.5
29	MP GAMMA2	Y	.049	4.5
30	MP GAMMA2	X	.028	4.5
31	MP ALPHA2	Y	.064	4.5
32	MP ALPHA2	X	.037	4.5
33	MP BETA2	Y	.052	4.5
34	MP BETA2	X	.03	4.5
35	MP GAMMA2	Y	.064	4.5
36	MP GAMMA2	X	.037	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.089	7
2	MP ALPHA2	Y	.089	2
3	MP ALPHA2	X	.154	7
4	MP ALPHA2	X	.154	2
5	MP BETA2	Y	.089	7
6	MP BETA2	Y	.089	2
7	MP BETA2	X	.154	7
8	MP BETA2	X	.154	2
9	MP GAMMA2	Y	.154	7
10	MP GAMMA2	Y	.154	2
11	MP GAMMA2	X	.266	7
12	MP GAMMA2	X	.266	2
13	MP ALPHA1	Y	.025	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	MP ALPHA1	Y	.025	3.5
15	MP ALPHA1	X	.043	5.5
16	MP ALPHA1	X	.043	3.5
17	MP BETA1	Y	.025	5.5
18	MP BETA1	Y	.025	3.5
19	MP BETA1	X	.043	5.5
20	MP BETA1	X	.043	3.5
21	MP GAMMA1	Y	.043	5.5
22	MP GAMMA1	Y	.043	3.5
23	MP GAMMA1	X	.075	5.5
24	MP GAMMA1	X	.075	3.5
25	MP ALPHA2	Y	.026	4.5
26	MP ALPHA2	X	.044	4.5
27	MP BETA2	Y	.026	4.5
28	MP BETA2	X	.044	4.5
29	MP GAMMA2	Y	.03	4.5
30	MP GAMMA2	X	.052	4.5
31	MP ALPHA2	Y	.032	4.5
32	MP ALPHA2	X	.056	4.5
33	MP BETA2	Y	.032	4.5
34	MP BETA2	X	.056	4.5
35	MP GAMMA2	Y	.039	4.5
36	MP GAMMA2	X	.067	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.135	7
2	MP ALPHA2	X	.135	2
3	MP BETA2	X	.264	7
4	MP BETA2	X	.264	2
5	MP GAMMA2	X	.264	7
6	MP GAMMA2	X	.264	2
7	MP ALPHA1	X	.038	5.5
8	MP ALPHA1	X	.038	3.5
9	MP BETA1	X	.074	5.5
10	MP BETA1	X	.074	3.5
11	MP GAMMA1	X	.074	5.5
12	MP GAMMA1	X	.074	3.5
13	MP ALPHA2	X	.048	4.5
14	MP BETA2	X	.057	4.5
15	MP GAMMA2	X	.057	4.5
16	MP ALPHA2	X	.06	4.5
17	MP BETA2	X	.073	4.5
18	MP GAMMA2	X	.073	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.089	7
2	MP ALPHA2	Y	-.089	2
3	MP ALPHA2	X	.154	7
4	MP ALPHA2	X	.154	2
5	MP BETA2	Y	-.154	7
6	MP BETA2	Y	-.154	2
7	MP BETA2	X	.266	7
8	MP BETA2	X	.266	2
9	MP GAMMA2	Y	-.089	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP GAMMA2	Y	-.089	2
11	MP GAMMA2	X	.154	7
12	MP GAMMA2	X	.154	2
13	MP ALPHA1	Y	-.025	5.5
14	MP ALPHA1	Y	-.025	3.5
15	MP ALPHA1	X	.043	5.5
16	MP ALPHA1	X	.043	3.5
17	MP BETA1	Y	-.043	5.5
18	MP BETA1	Y	-.043	3.5
19	MP BETA1	X	.075	5.5
20	MP BETA1	X	.075	3.5
21	MP GAMMA1	Y	-.025	5.5
22	MP GAMMA1	Y	-.025	3.5
23	MP GAMMA1	X	.043	5.5
24	MP GAMMA1	X	.043	3.5
25	MP ALPHA2	Y	-.026	4.5
26	MP ALPHA2	X	.044	4.5
27	MP BETA2	Y	-.03	4.5
28	MP BETA2	X	.052	4.5
29	MP GAMMA2	Y	-.026	4.5
30	MP GAMMA2	X	.044	4.5
31	MP ALPHA2	Y	-.032	4.5
32	MP ALPHA2	X	.056	4.5
33	MP BETA2	Y	-.039	4.5
34	MP BETA2	X	.067	4.5
35	MP GAMMA2	Y	-.032	4.5
36	MP GAMMA2	X	.056	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.229	7
2	MP ALPHA2	Y	-.229	2
3	MP ALPHA2	X	.132	7
4	MP ALPHA2	X	.132	2
5	MP BETA2	Y	-.229	7
6	MP BETA2	Y	-.229	2
7	MP BETA2	X	.132	7
8	MP BETA2	X	.132	2
9	MP GAMMA2	Y	-.117	7
10	MP GAMMA2	Y	-.117	2
11	MP GAMMA2	X	.067	7
12	MP GAMMA2	X	.067	2
13	MP ALPHA1	Y	-.064	5.5
14	MP ALPHA1	Y	-.064	3.5
15	MP ALPHA1	X	.037	5.5
16	MP ALPHA1	X	.037	3.5
17	MP BETA1	Y	-.064	5.5
18	MP BETA1	Y	-.064	3.5
19	MP BETA1	X	.037	5.5
20	MP BETA1	X	.037	3.5
21	MP GAMMA1	Y	-.033	5.5
22	MP GAMMA1	Y	-.033	3.5
23	MP GAMMA1	X	.019	5.5
24	MP GAMMA1	X	.019	3.5
25	MP ALPHA2	Y	-.049	4.5
26	MP ALPHA2	X	.028	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	MP BETA2	Y	-.049	4.5
28	MP BETA2	X	.028	4.5
29	MP GAMMA2	Y	-.042	4.5
30	MP GAMMA2	X	.024	4.5
31	MP ALPHA2	Y	-.064	4.5
32	MP ALPHA2	X	.037	4.5
33	MP BETA2	Y	-.064	4.5
34	MP BETA2	X	.037	4.5
35	MP GAMMA2	Y	-.052	4.5
36	MP GAMMA2	X	.03	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.02	7
2	MP ALPHA2	Y	-.02	2
3	MP BETA2	Y	-.012	7
4	MP BETA2	Y	-.012	2
5	MP GAMMA2	Y	-.012	7
6	MP GAMMA2	Y	-.012	2
7	MP ALPHA1	Y	-.006	5.5
8	MP ALPHA1	Y	-.006	3.5
9	MP BETA1	Y	-.003	5.5
10	MP BETA1	Y	-.003	3.5
11	MP GAMMA1	Y	-.003	5.5
12	MP GAMMA1	Y	-.003	3.5
13	MP ALPHA2	Y	-.004	4.5
14	MP BETA2	Y	-.003	4.5
15	MP GAMMA2	Y	-.003	4.5
16	MP ALPHA2	Y	-.005	4.5
17	MP BETA2	Y	-.004	4.5
18	MP GAMMA2	Y	-.004	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.015	7
2	MP ALPHA2	Y	-.015	2
3	MP ALPHA2	X	-.009	7
4	MP ALPHA2	X	-.009	2
5	MP BETA2	Y	-.008	7
6	MP BETA2	Y	-.008	2
7	MP BETA2	X	-.004	7
8	MP BETA2	X	-.004	2
9	MP GAMMA2	Y	-.015	7
10	MP GAMMA2	Y	-.015	2
11	MP GAMMA2	X	-.009	7
12	MP GAMMA2	X	-.009	2
13	MP ALPHA1	Y	-.004	5.5
14	MP ALPHA1	Y	-.004	3.5
15	MP ALPHA1	X	-.002	5.5
16	MP ALPHA1	X	-.002	3.5
17	MP BETA1	Y	-.002	5.5
18	MP BETA1	Y	-.002	3.5
19	MP BETA1	X	-.001	5.5
20	MP BETA1	X	-.001	3.5
21	MP GAMMA1	Y	-.004	5.5
22	MP GAMMA1	Y	-.004	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP GAMMA1	X	-.002	5.5
24	MP GAMMA1	X	-.002	3.5
25	MP ALPHA2	Y	-.003	4.5
26	MP ALPHA2	X	-.002	4.5
27	MP BETA2	Y	-.003	4.5
28	MP BETA2	X	-.002	4.5
29	MP GAMMA2	Y	-.003	4.5
30	MP GAMMA2	X	-.002	4.5
31	MP ALPHA2	Y	-.004	4.5
32	MP ALPHA2	X	-.002	4.5
33	MP BETA2	Y	-.003	4.5
34	MP BETA2	X	-.002	4.5
35	MP GAMMA2	Y	-.004	4.5
36	MP GAMMA2	X	-.002	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.006	7
2	MP ALPHA2	Y	-.006	2
3	MP ALPHA2	X	-.01	7
4	MP ALPHA2	X	-.01	2
5	MP BETA2	Y	-.006	7
6	MP BETA2	Y	-.006	2
7	MP BETA2	X	-.01	7
8	MP BETA2	X	-.01	2
9	MP GAMMA2	Y	-.01	7
10	MP GAMMA2	Y	-.01	2
11	MP GAMMA2	X	-.018	7
12	MP GAMMA2	X	-.018	2
13	MP ALPHA1	Y	-.002	5.5
14	MP ALPHA1	Y	-.002	3.5
15	MP ALPHA1	X	-.003	5.5
16	MP ALPHA1	X	-.003	3.5
17	MP BETA1	Y	-.002	5.5
18	MP BETA1	Y	-.002	3.5
19	MP BETA1	X	-.003	5.5
20	MP BETA1	X	-.003	3.5
21	MP GAMMA1	Y	-.003	5.5
22	MP GAMMA1	Y	-.003	3.5
23	MP GAMMA1	X	-.005	5.5
24	MP GAMMA1	X	-.005	3.5
25	MP ALPHA2	Y	-.002	4.5
26	MP ALPHA2	X	-.003	4.5
27	MP BETA2	Y	-.002	4.5
28	MP BETA2	X	-.003	4.5
29	MP GAMMA2	Y	-.002	4.5
30	MP GAMMA2	X	-.003	4.5
31	MP ALPHA2	Y	-.002	4.5
32	MP ALPHA2	X	-.004	4.5
33	MP BETA2	Y	-.002	4.5
34	MP BETA2	X	-.004	4.5
35	MP GAMMA2	Y	-.003	4.5
36	MP GAMMA2	X	-.004	4.5

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

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

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.009	7
2	MP ALPHA2	X	-.009	2
3	MP BETA2	X	-.017	7
4	MP BETA2	X	-.017	2
5	MP GAMMA2	X	-.017	7
6	MP GAMMA2	X	-.017	2
7	MP ALPHA1	X	-.002	5.5
8	MP ALPHA1	X	-.002	3.5
9	MP BETA1	X	-.005	5.5
10	MP BETA1	X	-.005	3.5
11	MP GAMMA1	X	-.005	5.5
12	MP GAMMA1	X	-.005	3.5
13	MP ALPHA2	X	-.003	4.5
14	MP BETA2	X	-.004	4.5
15	MP GAMMA2	X	-.004	4.5
16	MP ALPHA2	X	-.004	4.5
17	MP BETA2	X	-.005	4.5
18	MP GAMMA2	X	-.005	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.006	7
2	MP ALPHA2	Y	.006	2
3	MP ALPHA2	X	-.01	7
4	MP ALPHA2	X	-.01	2
5	MP BETA2	Y	.01	7
6	MP BETA2	Y	.01	2
7	MP BETA2	X	-.018	7
8	MP BETA2	X	-.018	2
9	MP GAMMA2	Y	.006	7
10	MP GAMMA2	Y	.006	2
11	MP GAMMA2	X	-.01	7
12	MP GAMMA2	X	-.01	2
13	MP ALPHA1	Y	.002	5.5
14	MP ALPHA1	Y	.002	3.5
15	MP ALPHA1	X	-.003	5.5
16	MP ALPHA1	X	-.003	3.5
17	MP BETA1	Y	.003	5.5
18	MP BETA1	Y	.003	3.5
19	MP BETA1	X	-.005	5.5
20	MP BETA1	X	-.005	3.5
21	MP GAMMA1	Y	.002	5.5
22	MP GAMMA1	Y	.002	3.5
23	MP GAMMA1	X	-.003	5.5
24	MP GAMMA1	X	-.003	3.5
25	MP ALPHA2	Y	.002	4.5
26	MP ALPHA2	X	-.003	4.5
27	MP BETA2	Y	.002	4.5
28	MP BETA2	X	-.003	4.5
29	MP GAMMA2	Y	.002	4.5
30	MP GAMMA2	X	-.003	4.5
31	MP ALPHA2	Y	.002	4.5
32	MP ALPHA2	X	-.004	4.5
33	MP BETA2	Y	.003	4.5
34	MP BETA2	X	-.004	4.5
35	MP GAMMA2	Y	.002	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
36	MP GAMMA2	X	-.004	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.015	7
2	MP ALPHA2	Y	.015	2
3	MP ALPHA2	X	-.009	7
4	MP ALPHA2	X	-.009	2
5	MP BETA2	Y	.015	7
6	MP BETA2	Y	.015	2
7	MP BETA2	X	-.009	7
8	MP BETA2	X	-.009	2
9	MP GAMMA2	Y	.008	7
10	MP GAMMA2	Y	.008	2
11	MP GAMMA2	X	-.004	7
12	MP GAMMA2	X	-.004	2
13	MP ALPHA1	Y	.004	5.5
14	MP ALPHA1	Y	.004	3.5
15	MP ALPHA1	X	-.002	5.5
16	MP ALPHA1	X	-.002	3.5
17	MP BETA1	Y	.004	5.5
18	MP BETA1	Y	.004	3.5
19	MP BETA1	X	-.002	5.5
20	MP BETA1	X	-.002	3.5
21	MP GAMMA1	Y	.002	5.5
22	MP GAMMA1	Y	.002	3.5
23	MP GAMMA1	X	-.001	5.5
24	MP GAMMA1	X	-.001	3.5
25	MP ALPHA2	Y	.003	4.5
26	MP ALPHA2	X	-.002	4.5
27	MP BETA2	Y	.003	4.5
28	MP BETA2	X	-.002	4.5
29	MP GAMMA2	Y	.003	4.5
30	MP GAMMA2	X	-.002	4.5
31	MP ALPHA2	Y	.004	4.5
32	MP ALPHA2	X	-.002	4.5
33	MP BETA2	Y	.004	4.5
34	MP BETA2	X	-.002	4.5
35	MP GAMMA2	Y	.003	4.5
36	MP GAMMA2	X	-.002	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.02	7
2	MP ALPHA2	Y	.02	2
3	MP BETA2	Y	.012	7
4	MP BETA2	Y	.012	2
5	MP GAMMA2	Y	.012	7
6	MP GAMMA2	Y	.012	2
7	MP ALPHA1	Y	.006	5.5
8	MP ALPHA1	Y	.006	3.5
9	MP BETA1	Y	.003	5.5
10	MP BETA1	Y	.003	3.5
11	MP GAMMA1	Y	.003	5.5
12	MP GAMMA1	Y	.003	3.5
13	MP ALPHA2	Y	.004	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	MP BETA2	Y	.003	4.5
15	MP GAMMA2	Y	.003	4.5
16	MP ALPHA2	Y	.005	4.5
17	MP BETA2	Y	.004	4.5
18	MP GAMMA2	Y	.004	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.015	7
2	MP ALPHA2	Y	.015	2
3	MP ALPHA2	X	.009	7
4	MP ALPHA2	X	.009	2
5	MP BETA2	Y	.008	7
6	MP BETA2	Y	.008	2
7	MP BETA2	X	.004	7
8	MP BETA2	X	.004	2
9	MP GAMMA2	Y	.015	7
10	MP GAMMA2	Y	.015	2
11	MP GAMMA2	X	.009	7
12	MP GAMMA2	X	.009	2
13	MP ALPHA1	Y	.004	5.5
14	MP ALPHA1	Y	.004	3.5
15	MP ALPHA1	X	.002	5.5
16	MP ALPHA1	X	.002	3.5
17	MP BETA1	Y	.002	5.5
18	MP BETA1	Y	.002	3.5
19	MP BETA1	X	.001	5.5
20	MP BETA1	X	.001	3.5
21	MP GAMMA1	Y	.004	5.5
22	MP GAMMA1	Y	.004	3.5
23	MP GAMMA1	X	.002	5.5
24	MP GAMMA1	X	.002	3.5
25	MP ALPHA2	Y	.003	4.5
26	MP ALPHA2	X	.002	4.5
27	MP BETA2	Y	.003	4.5
28	MP BETA2	X	.002	4.5
29	MP GAMMA2	Y	.003	4.5
30	MP GAMMA2	X	.002	4.5
31	MP ALPHA2	Y	.004	4.5
32	MP ALPHA2	X	.002	4.5
33	MP BETA2	Y	.003	4.5
34	MP BETA2	X	.002	4.5
35	MP GAMMA2	Y	.004	4.5
36	MP GAMMA2	X	.002	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.006	7
2	MP ALPHA2	Y	.006	2
3	MP ALPHA2	X	.01	7
4	MP ALPHA2	X	.01	2
5	MP BETA2	Y	.006	7
6	MP BETA2	Y	.006	2
7	MP BETA2	X	.01	7
8	MP BETA2	X	.01	2
9	MP GAMMA2	Y	.01	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP GAMMA2	Y	.01	2
11	MP GAMMA2	X	.018	7
12	MP GAMMA2	X	.018	2
13	MP ALPHA1	Y	.002	5.5
14	MP ALPHA1	Y	.002	3.5
15	MP ALPHA1	X	.003	5.5
16	MP ALPHA1	X	.003	3.5
17	MP BETA1	Y	.002	5.5
18	MP BETA1	Y	.002	3.5
19	MP BETA1	X	.003	5.5
20	MP BETA1	X	.003	3.5
21	MP GAMMA1	Y	.003	5.5
22	MP GAMMA1	Y	.003	3.5
23	MP GAMMA1	X	.005	5.5
24	MP GAMMA1	X	.005	3.5
25	MP ALPHA2	Y	.002	4.5
26	MP ALPHA2	X	.003	4.5
27	MP BETA2	Y	.002	4.5
28	MP BETA2	X	.003	4.5
29	MP GAMMA2	Y	.002	4.5
30	MP GAMMA2	X	.003	4.5
31	MP ALPHA2	Y	.002	4.5
32	MP ALPHA2	X	.004	4.5
33	MP BETA2	Y	.002	4.5
34	MP BETA2	X	.004	4.5
35	MP GAMMA2	Y	.003	4.5
36	MP GAMMA2	X	.004	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.009	7
2	MP ALPHA2	X	.009	2
3	MP BETA2	X	.017	7
4	MP BETA2	X	.017	2
5	MP GAMMA2	X	.017	7
6	MP GAMMA2	X	.017	2
7	MP ALPHA1	X	.002	5.5
8	MP ALPHA1	X	.002	3.5
9	MP BETA1	X	.005	5.5
10	MP BETA1	X	.005	3.5
11	MP GAMMA1	X	.005	5.5
12	MP GAMMA1	X	.005	3.5
13	MP ALPHA2	X	.003	4.5
14	MP BETA2	X	.004	4.5
15	MP GAMMA2	X	.004	4.5
16	MP ALPHA2	X	.004	4.5
17	MP BETA2	X	.005	4.5
18	MP GAMMA2	X	.005	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.006	7
2	MP ALPHA2	Y	-.006	2
3	MP ALPHA2	X	.01	7
4	MP ALPHA2	X	.01	2
5	MP BETA2	Y	-.01	7

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
6	MP BETA2	Y	-.01	2
7	MP BETA2	X	.018	7
8	MP BETA2	X	.018	2
9	MP GAMMA2	Y	-.006	7
10	MP GAMMA2	Y	-.006	2
11	MP GAMMA2	X	.01	7
12	MP GAMMA2	X	.01	2
13	MP ALPHA1	Y	-.002	5.5
14	MP ALPHA1	Y	-.002	3.5
15	MP ALPHA1	X	.003	5.5
16	MP ALPHA1	X	.003	3.5
17	MP BETA1	Y	-.003	5.5
18	MP BETA1	Y	-.003	3.5
19	MP BETA1	X	.005	5.5
20	MP BETA1	X	.005	3.5
21	MP GAMMA1	Y	-.002	5.5
22	MP GAMMA1	Y	-.002	3.5
23	MP GAMMA1	X	.003	5.5
24	MP GAMMA1	X	.003	3.5
25	MP ALPHA2	Y	-.002	4.5
26	MP ALPHA2	X	.003	4.5
27	MP BETA2	Y	-.002	4.5
28	MP BETA2	X	.003	4.5
29	MP GAMMA2	Y	-.002	4.5
30	MP GAMMA2	X	.003	4.5
31	MP ALPHA2	Y	-.002	4.5
32	MP ALPHA2	X	.004	4.5
33	MP BETA2	Y	-.003	4.5
34	MP BETA2	X	.004	4.5
35	MP GAMMA2	Y	-.002	4.5
36	MP GAMMA2	X	.004	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.015	7
2	MP ALPHA2	Y	-.015	2
3	MP ALPHA2	X	.009	7
4	MP ALPHA2	X	.009	2
5	MP BETA2	Y	-.015	7
6	MP BETA2	Y	-.015	2
7	MP BETA2	X	.009	7
8	MP BETA2	X	.009	2
9	MP GAMMA2	Y	-.008	7
10	MP GAMMA2	Y	-.008	2
11	MP GAMMA2	X	.004	7
12	MP GAMMA2	X	.004	2
13	MP ALPHA1	Y	-.004	5.5
14	MP ALPHA1	Y	-.004	3.5
15	MP ALPHA1	X	.002	5.5
16	MP ALPHA1	X	.002	3.5
17	MP BETA1	Y	-.004	5.5
18	MP BETA1	Y	-.004	3.5
19	MP BETA1	X	.002	5.5
20	MP BETA1	X	.002	3.5
21	MP GAMMA1	Y	-.002	5.5
22	MP GAMMA1	Y	-.002	3.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP GAMMA1	X	.001	5.5
24	MP GAMMA1	X	.001	3.5
25	MP ALPHA2	Y	-.003	4.5
26	MP ALPHA2	X	.002	4.5
27	MP BETA2	Y	-.003	4.5
28	MP BETA2	X	.002	4.5
29	MP GAMMA2	Y	-.003	4.5
30	MP GAMMA2	X	.002	4.5
31	MP ALPHA2	Y	-.004	4.5
32	MP ALPHA2	X	.002	4.5
33	MP BETA2	Y	-.004	4.5
34	MP BETA2	X	.002	4.5
35	MP GAMMA2	Y	-.003	4.5
36	MP GAMMA2	X	.002	4.5

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.133	7
2	MP ALPHA2	Z	-.133	2
3	MP BETA2	Z	-.133	7
4	MP BETA2	Z	-.133	2
5	MP GAMMA2	Z	-.133	7
6	MP GAMMA2	Z	-.133	2
7	MP ALPHA1	Z	-.047	5.5
8	MP ALPHA1	Z	-.047	3.5
9	MP BETA1	Z	-.047	5.5
10	MP BETA1	Z	-.047	3.5
11	MP GAMMA1	Z	-.047	5.5
12	MP GAMMA1	Z	-.047	3.5
13	MP ALPHA2	Z	-.049	4.5
14	MP BETA2	Z	-.049	4.5
15	MP GAMMA2	Z	-.049	4.5
16	MP ALPHA2	Z	-.062	4.5
17	MP BETA2	Z	-.062	4.5
18	MP GAMMA2	Z	-.062	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.062	7
2	MP ALPHA2	Y	-.062	2
3	MP BETA2	Y	-.038	7
4	MP BETA2	Y	-.038	2
5	MP GAMMA2	Y	-.038	7
6	MP GAMMA2	Y	-.038	2
7	MP ALPHA1	Y	-.019	5.5
8	MP ALPHA1	Y	-.019	3.5
9	MP BETA1	Y	-.012	5.5
10	MP BETA1	Y	-.012	3.5
11	MP GAMMA1	Y	-.012	5.5
12	MP GAMMA1	Y	-.012	3.5
13	MP ALPHA2	Y	-.014	4.5
14	MP BETA2	Y	-.013	4.5
15	MP GAMMA2	Y	-.013	4.5
16	MP ALPHA2	Y	-.018	4.5
17	MP BETA2	Y	-.015	4.5
18	MP GAMMA2	Y	-.015	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.047	7
2	MP ALPHA2	Y	-.047	2
3	MP ALPHA2	X	-.027	7
4	MP ALPHA2	X	-.027	2
5	MP BETA2	Y	-.026	7
6	MP BETA2	Y	-.026	2
7	MP BETA2	X	-.015	7
8	MP BETA2	X	-.015	2
9	MP GAMMA2	Y	-.047	7
10	MP GAMMA2	Y	-.047	2
11	MP GAMMA2	X	-.027	7
12	MP GAMMA2	X	-.027	2
13	MP ALPHA1	Y	-.014	5.5
14	MP ALPHA1	Y	-.014	3.5
15	MP ALPHA1	X	-.008	5.5
16	MP ALPHA1	X	-.008	3.5
17	MP BETA1	Y	-.008	5.5
18	MP BETA1	Y	-.008	3.5
19	MP BETA1	X	-.005	5.5
20	MP BETA1	X	-.005	3.5
21	MP GAMMA1	Y	-.014	5.5
22	MP GAMMA1	Y	-.014	3.5
23	MP GAMMA1	X	-.008	5.5
24	MP GAMMA1	X	-.008	3.5
25	MP ALPHA2	Y	-.012	4.5
26	MP ALPHA2	X	-.007	4.5
27	MP BETA2	Y	-.01	4.5
28	MP BETA2	X	-.006	4.5
29	MP GAMMA2	Y	-.012	4.5
30	MP GAMMA2	X	-.007	4.5
31	MP ALPHA2	Y	-.015	4.5
32	MP ALPHA2	X	-.009	4.5
33	MP BETA2	Y	-.013	4.5
34	MP BETA2	X	-.007	4.5
35	MP GAMMA2	Y	-.015	4.5
36	MP GAMMA2	X	-.009	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.019	7
2	MP ALPHA2	Y	-.019	2
3	MP ALPHA2	X	-.033	7
4	MP ALPHA2	X	-.033	2
5	MP BETA2	Y	-.019	7
6	MP BETA2	Y	-.019	2
7	MP BETA2	X	-.033	7
8	MP BETA2	X	-.033	2
9	MP GAMMA2	Y	-.031	7
10	MP GAMMA2	Y	-.031	2
11	MP GAMMA2	X	-.054	7
12	MP GAMMA2	X	-.054	2
13	MP ALPHA1	Y	-.006	5.5
14	MP ALPHA1	Y	-.006	3.5
15	MP ALPHA1	X	-.01	5.5
16	MP ALPHA1	X	-.01	3.5
17	MP BETA1	Y	-.006	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP BETA1	Y	-.006	3.5
19	MP BETA1	X	-.01	5.5
20	MP BETA1	X	-.01	3.5
21	MP GAMMA1	Y	-.009	5.5
22	MP GAMMA1	Y	-.009	3.5
23	MP GAMMA1	X	-.016	5.5
24	MP GAMMA1	X	-.016	3.5
25	MP ALPHA2	Y	-.006	4.5
26	MP ALPHA2	X	-.011	4.5
27	MP BETA2	Y	-.006	4.5
28	MP BETA2	X	-.011	4.5
29	MP GAMMA2	Y	-.007	4.5
30	MP GAMMA2	X	-.012	4.5
31	MP ALPHA2	Y	-.008	4.5
32	MP ALPHA2	X	-.013	4.5
33	MP BETA2	Y	-.008	4.5
34	MP BETA2	X	-.013	4.5
35	MP GAMMA2	Y	-.009	4.5
36	MP GAMMA2	X	-.016	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.03	7
2	MP ALPHA2	X	-.03	2
3	MP BETA2	X	-.054	7
4	MP BETA2	X	-.054	2
5	MP GAMMA2	X	-.054	7
6	MP GAMMA2	X	-.054	2
7	MP ALPHA1	X	-.009	5.5
8	MP ALPHA1	X	-.009	3.5
9	MP BETA1	X	-.016	5.5
10	MP BETA1	X	-.016	3.5
11	MP GAMMA1	X	-.016	5.5
12	MP GAMMA1	X	-.016	3.5
13	MP ALPHA2	X	-.012	4.5
14	MP BETA2	X	-.014	4.5
15	MP GAMMA2	X	-.014	4.5
16	MP ALPHA2	X	-.015	4.5
17	MP BETA2	X	-.017	4.5
18	MP GAMMA2	X	-.017	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.019	7
2	MP ALPHA2	Y	.019	2
3	MP ALPHA2	X	-.033	7
4	MP ALPHA2	X	-.033	2
5	MP BETA2	Y	.031	7
6	MP BETA2	Y	.031	2
7	MP BETA2	X	-.054	7
8	MP BETA2	X	-.054	2
9	MP GAMMA2	Y	.019	7
10	MP GAMMA2	Y	.019	2
11	MP GAMMA2	X	-.033	7
12	MP GAMMA2	X	-.033	2
13	MP ALPHA1	Y	.006	5.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
14	MP ALPHA1	Y	.006	3.5
15	MP ALPHA1	X	-.01	5.5
16	MP ALPHA1	X	-.01	3.5
17	MP BETA1	Y	.009	5.5
18	MP BETA1	Y	.009	3.5
19	MP BETA1	X	-.016	5.5
20	MP BETA1	X	-.016	3.5
21	MP GAMMA1	Y	.006	5.5
22	MP GAMMA1	Y	.006	3.5
23	MP GAMMA1	X	-.01	5.5
24	MP GAMMA1	X	-.01	3.5
25	MP ALPHA2	Y	.006	4.5
26	MP ALPHA2	X	-.011	4.5
27	MP BETA2	Y	.007	4.5
28	MP BETA2	X	-.012	4.5
29	MP GAMMA2	Y	.006	4.5
30	MP GAMMA2	X	-.011	4.5
31	MP ALPHA2	Y	.008	4.5
32	MP ALPHA2	X	-.013	4.5
33	MP BETA2	Y	.009	4.5
34	MP BETA2	X	-.016	4.5
35	MP GAMMA2	Y	.008	4.5
36	MP GAMMA2	X	-.013	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.047	7
2	MP ALPHA2	Y	.047	2
3	MP ALPHA2	X	-.027	7
4	MP ALPHA2	X	-.027	2
5	MP BETA2	Y	.047	7
6	MP BETA2	Y	.047	2
7	MP BETA2	X	-.027	7
8	MP BETA2	X	-.027	2
9	MP GAMMA2	Y	.026	7
10	MP GAMMA2	Y	.026	2
11	MP GAMMA2	X	-.015	7
12	MP GAMMA2	X	-.015	2
13	MP ALPHA1	Y	.014	5.5
14	MP ALPHA1	Y	.014	3.5
15	MP ALPHA1	X	-.008	5.5
16	MP ALPHA1	X	-.008	3.5
17	MP BETA1	Y	.014	5.5
18	MP BETA1	Y	.014	3.5
19	MP BETA1	X	-.008	5.5
20	MP BETA1	X	-.008	3.5
21	MP GAMMA1	Y	.008	5.5
22	MP GAMMA1	Y	.008	3.5
23	MP GAMMA1	X	-.005	5.5
24	MP GAMMA1	X	-.005	3.5
25	MP ALPHA2	Y	.012	4.5
26	MP ALPHA2	X	-.007	4.5
27	MP BETA2	Y	.012	4.5
28	MP BETA2	X	-.007	4.5
29	MP GAMMA2	Y	.01	4.5
30	MP GAMMA2	X	-.006	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
31	MP ALPHA2	Y	.015	4.5
32	MP ALPHA2	X	-.009	4.5
33	MP BETA2	Y	.015	4.5
34	MP BETA2	X	-.009	4.5
35	MP GAMMA2	Y	.013	4.5
36	MP GAMMA2	X	-.007	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.062	7
2	MP ALPHA2	Y	.062	2
3	MP BETA2	Y	.038	7
4	MP BETA2	Y	.038	2
5	MP GAMMA2	Y	.038	7
6	MP GAMMA2	Y	.038	2
7	MP ALPHA1	Y	.019	5.5
8	MP ALPHA1	Y	.019	3.5
9	MP BETA1	Y	.012	5.5
10	MP BETA1	Y	.012	3.5
11	MP GAMMA1	Y	.012	5.5
12	MP GAMMA1	Y	.012	3.5
13	MP ALPHA2	Y	.014	4.5
14	MP BETA2	Y	.013	4.5
15	MP GAMMA2	Y	.013	4.5
16	MP ALPHA2	Y	.018	4.5
17	MP BETA2	Y	.015	4.5
18	MP GAMMA2	Y	.015	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.047	7
2	MP ALPHA2	Y	.047	2
3	MP ALPHA2	X	.027	7
4	MP ALPHA2	X	.027	2
5	MP BETA2	Y	.026	7
6	MP BETA2	Y	.026	2
7	MP BETA2	X	.015	7
8	MP BETA2	X	.015	2
9	MP GAMMA2	Y	.047	7
10	MP GAMMA2	Y	.047	2
11	MP GAMMA2	X	.027	7
12	MP GAMMA2	X	.027	2
13	MP ALPHA1	Y	.014	5.5
14	MP ALPHA1	Y	.014	3.5
15	MP ALPHA1	X	.008	5.5
16	MP ALPHA1	X	.008	3.5
17	MP BETA1	Y	.008	5.5
18	MP BETA1	Y	.008	3.5
19	MP BETA1	X	.005	5.5
20	MP BETA1	X	.005	3.5
21	MP GAMMA1	Y	.014	5.5
22	MP GAMMA1	Y	.014	3.5
23	MP GAMMA1	X	.008	5.5
24	MP GAMMA1	X	.008	3.5
25	MP ALPHA2	Y	.012	4.5
26	MP ALPHA2	X	.007	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
27	MP BETA2	Y	.01	4.5
28	MP BETA2	X	.006	4.5
29	MP GAMMA2	Y	.012	4.5
30	MP GAMMA2	X	.007	4.5
31	MP ALPHA2	Y	.015	4.5
32	MP ALPHA2	X	.009	4.5
33	MP BETA2	Y	.013	4.5
34	MP BETA2	X	.007	4.5
35	MP GAMMA2	Y	.015	4.5
36	MP GAMMA2	X	.009	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.019	7
2	MP ALPHA2	Y	.019	2
3	MP ALPHA2	X	.033	7
4	MP ALPHA2	X	.033	2
5	MP BETA2	Y	.019	7
6	MP BETA2	Y	.019	2
7	MP BETA2	X	.033	7
8	MP BETA2	X	.033	2
9	MP GAMMA2	Y	.031	7
10	MP GAMMA2	Y	.031	2
11	MP GAMMA2	X	.054	7
12	MP GAMMA2	X	.054	2
13	MP ALPHA1	Y	.006	5.5
14	MP ALPHA1	Y	.006	3.5
15	MP ALPHA1	X	.01	5.5
16	MP ALPHA1	X	.01	3.5
17	MP BETA1	Y	.006	5.5
18	MP BETA1	Y	.006	3.5
19	MP BETA1	X	.01	5.5
20	MP BETA1	X	.01	3.5
21	MP GAMMA1	Y	.009	5.5
22	MP GAMMA1	Y	.009	3.5
23	MP GAMMA1	X	.016	5.5
24	MP GAMMA1	X	.016	3.5
25	MP ALPHA2	Y	.006	4.5
26	MP ALPHA2	X	.011	4.5
27	MP BETA2	Y	.006	4.5
28	MP BETA2	X	.011	4.5
29	MP GAMMA2	Y	.007	4.5
30	MP GAMMA2	X	.012	4.5
31	MP ALPHA2	Y	.008	4.5
32	MP ALPHA2	X	.013	4.5
33	MP BETA2	Y	.008	4.5
34	MP BETA2	X	.013	4.5
35	MP GAMMA2	Y	.009	4.5
36	MP GAMMA2	X	.016	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.03	7
2	MP ALPHA2	X	.03	2
3	MP BETA2	X	.054	7
4	MP BETA2	X	.054	2

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
5	MP GAMMA2	X	.054	7
6	MP GAMMA2	X	.054	2
7	MP ALPHA1	X	.009	5.5
8	MP ALPHA1	X	.009	3.5
9	MP BETA1	X	.016	5.5
10	MP BETA1	X	.016	3.5
11	MP GAMMA1	X	.016	5.5
12	MP GAMMA1	X	.016	3.5
13	MP ALPHA2	X	.012	4.5
14	MP BETA2	X	.014	4.5
15	MP GAMMA2	X	.014	4.5
16	MP ALPHA2	X	.015	4.5
17	MP BETA2	X	.017	4.5
18	MP GAMMA2	X	.017	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.019	7
2	MP ALPHA2	Y	-.019	2
3	MP ALPHA2	X	.033	7
4	MP ALPHA2	X	.033	2
5	MP BETA2	Y	-.031	7
6	MP BETA2	Y	-.031	2
7	MP BETA2	X	.054	7
8	MP BETA2	X	.054	2
9	MP GAMMA2	Y	-.019	7
10	MP GAMMA2	Y	-.019	2
11	MP GAMMA2	X	.033	7
12	MP GAMMA2	X	.033	2
13	MP ALPHA1	Y	-.006	5.5
14	MP ALPHA1	Y	-.006	3.5
15	MP ALPHA1	X	.01	5.5
16	MP ALPHA1	X	.01	3.5
17	MP BETA1	Y	-.009	5.5
18	MP BETA1	Y	-.009	3.5
19	MP BETA1	X	.016	5.5
20	MP BETA1	X	.016	3.5
21	MP GAMMA1	Y	-.006	5.5
22	MP GAMMA1	Y	-.006	3.5
23	MP GAMMA1	X	.01	5.5
24	MP GAMMA1	X	.01	3.5
25	MP ALPHA2	Y	-.006	4.5
26	MP ALPHA2	X	.011	4.5
27	MP BETA2	Y	-.007	4.5
28	MP BETA2	X	.012	4.5
29	MP GAMMA2	Y	-.006	4.5
30	MP GAMMA2	X	.011	4.5
31	MP ALPHA2	Y	-.008	4.5
32	MP ALPHA2	X	.013	4.5
33	MP BETA2	Y	-.009	4.5
34	MP BETA2	X	.016	4.5
35	MP GAMMA2	Y	-.008	4.5
36	MP GAMMA2	X	.013	4.5

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

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

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.047	7
2	MP ALPHA2	Y	-.047	2
3	MP ALPHA2	X	.027	7
4	MP ALPHA2	X	.027	2
5	MP BETA2	Y	-.047	7
6	MP BETA2	Y	-.047	2
7	MP BETA2	X	.027	7
8	MP BETA2	X	.027	2
9	MP GAMMA2	Y	-.026	7
10	MP GAMMA2	Y	-.026	2
11	MP GAMMA2	X	.015	7
12	MP GAMMA2	X	.015	2
13	MP ALPHA1	Y	-.014	5.5
14	MP ALPHA1	Y	-.014	3.5
15	MP ALPHA1	X	.008	5.5
16	MP ALPHA1	X	.008	3.5
17	MP BETA1	Y	-.014	5.5
18	MP BETA1	Y	-.014	3.5
19	MP BETA1	X	.008	5.5
20	MP BETA1	X	.008	3.5
21	MP GAMMA1	Y	-.008	5.5
22	MP GAMMA1	Y	-.008	3.5
23	MP GAMMA1	X	.005	5.5
24	MP GAMMA1	X	.005	3.5
25	MP ALPHA2	Y	-.012	4.5
26	MP ALPHA2	X	.007	4.5
27	MP BETA2	Y	-.012	4.5
28	MP BETA2	X	.007	4.5
29	MP GAMMA2	Y	-.01	4.5
30	MP GAMMA2	X	.006	4.5
31	MP ALPHA2	Y	-.015	4.5
32	MP ALPHA2	X	.009	4.5
33	MP BETA2	Y	-.015	4.5
34	MP BETA2	X	.009	4.5
35	MP GAMMA2	Y	-.013	4.5
36	MP GAMMA2	X	.007	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.01	7
2	MP ALPHA2	X	-.01	2
3	MP BETA2	X	-.01	7
4	MP BETA2	X	-.01	2
5	MP GAMMA2	X	-.01	7
6	MP GAMMA2	X	-.01	2
7	MP ALPHA1	X	-.006	5.5
8	MP ALPHA1	X	-.006	3.5
9	MP BETA1	X	-.006	5.5
10	MP BETA1	X	-.006	3.5
11	MP GAMMA1	X	-.006	5.5
12	MP GAMMA1	X	-.006	3.5
13	MP ALPHA2	X	-.006	4.5
14	MP BETA2	X	-.006	4.5
15	MP GAMMA2	X	-.006	4.5
16	MP ALPHA2	X	-.014	4.5
17	MP BETA2	X	-.014	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
18	MP GAMMA2	X	-.014	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.01	7
2	MP ALPHA2	Y	-.01	2
3	MP BETA2	Y	-.01	7
4	MP BETA2	Y	-.01	2
5	MP GAMMA2	Y	-.01	7
6	MP GAMMA2	Y	-.01	2
7	MP ALPHA1	Y	-.006	5.5
8	MP ALPHA1	Y	-.006	3.5
9	MP BETA1	Y	-.006	5.5
10	MP BETA1	Y	-.006	3.5
11	MP GAMMA1	Y	-.006	5.5
12	MP GAMMA1	Y	-.006	3.5
13	MP ALPHA2	Y	-.006	4.5
14	MP BETA2	Y	-.006	4.5
15	MP GAMMA2	Y	-.006	4.5
16	MP ALPHA2	Y	-.014	4.5
17	MP BETA2	Y	-.014	4.5
18	MP GAMMA2	Y	-.014	4.5

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.004	7
2	MP ALPHA2	Z	-.004	2
3	MP BETA2	Z	-.004	7
4	MP BETA2	Z	-.004	2
5	MP GAMMA2	Z	-.004	7
6	MP GAMMA2	Z	-.004	2
7	MP ALPHA1	Z	-.003	5.5
8	MP ALPHA1	Z	-.003	3.5
9	MP BETA1	Z	-.003	5.5
10	MP BETA1	Z	-.003	3.5
11	MP GAMMA1	Z	-.003	5.5
12	MP GAMMA1	Z	-.003	3.5
13	MP ALPHA2	Z	-.002	4.5
14	MP BETA2	Z	-.002	4.5
15	MP GAMMA2	Z	-.002	4.5
16	MP ALPHA2	Z	-.005	4.5
17	MP BETA2	Z	-.005	4.5
18	MP GAMMA2	Z	-.005	4.5

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	Connect3	PY	-.006	-.006	0	0
2	Face1	PY	-.006	-.006	0	0
3	FACE3	PY	-.013	-.013	0	0
4	FACE2	PY	-.013	-.013	0	0
5	MP ALPHA1	PY	-.007	-.007	0	0
6	RAIL1	PY	-.002	-.002	0	0
7	RAIL3	PY	-.004	-.004	0	0
8	RAIL2	PY	-.004	-.004	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
9	Standoff1	PY	-.006	-.006	0	0
10	STANDOFF2	PY	-.006	-.006	0	0
11	Standoff3	PY	-.006	-.006	0	0
12	Support1	PY	-.005	-.005	0	0
13	Support2	PY	-.005	-.005	0	0
14	Support3	PY	-.005	-.005	0	0
15	Support4	PY	-.005	-.005	0	0
16	Support5	PY	-.005	-.005	0	0
17	Support6	PY	-.005	-.005	0	0
18	Support7	PY	-.005	-.005	0	0
19	Support8	PY	-.005	-.005	0	0
20	Support9	PY	-.005	-.005	0	0
21	Support10	PY	-.005	-.005	0	0
22	Support11	PY	-.005	-.005	0	0
23	Support12	PY	-.005	-.005	0	0
24	MP ALPHA3	PY	-.007	-.007	0	0
25	MP ALPHA2	PY	-.007	-.007	0	0
26	MP ALPHA4	PY	-.007	-.007	0	0
27	CONNECT2	PY	-.006	-.006	0	0
28	CONNECT1	PY	-.006	-.006	0	0
29	MP GAMMA1	PY	-.007	-.007	0	0
30	MP GAMMA3	PY	-.007	-.007	0	0
31	MP GAMMA2	PY	-.007	-.007	0	0
32	MP GAMMA4	PY	-.007	-.007	0	0
33	MP BETA1	PY	-.007	-.007	0	0
34	MP BETA3	PY	-.007	-.007	0	0
35	MP BETA2	PY	-.007	-.007	0	0
36	MP BETA4	PY	-.007	-.007	0	0
37	M65	PY	-.000567	-.000567	0	0
38	M66	PY	-.000567	-.000567	0	0
39	M67	PY	-.000567	-.000567	0	0
40	M68	PY	-.000567	-.000567	0	0
41	PIPE1	PY	-.007	-.007	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	Connect3	PY	-.005	-.005	0	0
2	Face1	PY	-.005	-.005	0	0
3	FACE3	PY	-.011	-.011	0	0
4	FACE2	PY	-.011	-.011	0	0
5	MP ALPHA1	PY	-.006	-.006	0	0
6	RAIL1	PY	-.002	-.002	0	0
7	RAIL3	PY	-.004	-.004	0	0
8	RAIL2	PY	-.004	-.004	0	0
9	Standoff1	PY	-.005	-.005	0	0
10	STANDOFF2	PY	-.005	-.005	0	0
11	Standoff3	PY	-.005	-.005	0	0
12	Support1	PY	-.004	-.004	0	0
13	Support2	PY	-.004	-.004	0	0
14	Support3	PY	-.004	-.004	0	0
15	Support4	PY	-.004	-.004	0	0
16	Support5	PY	-.004	-.004	0	0
17	Support6	PY	-.004	-.004	0	0
18	Support7	PY	-.004	-.004	0	0
19	Support8	PY	-.004	-.004	0	0
20	Support9	PY	-.004	-.004	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,%]
21	Support10	PY	-.004	-.004	0	0
22	Support11	PY	-.004	-.004	0	0
23	Support12	PY	-.004	-.004	0	0
24	MP ALPHA3	PY	-.006	-.006	0	0
25	MP ALPHA2	PY	-.006	-.006	0	0
26	MP ALPHA4	PY	-.006	-.006	0	0
27	CONNECT2	PY	-.005	-.005	0	0
28	CONNECT1	PY	-.005	-.005	0	0
29	MP GAMMA1	PY	-.006	-.006	0	0
30	MP GAMMA3	PY	-.006	-.006	0	0
31	MP GAMMA2	PY	-.006	-.006	0	0
32	MP GAMMA4	PY	-.006	-.006	0	0
33	MP BETA1	PY	-.006	-.006	0	0
34	MP BETA3	PY	-.006	-.006	0	0
35	MP BETA2	PY	-.006	-.006	0	0
36	MP BETA4	PY	-.006	-.006	0	0
37	M65	PY	-.000491	-.000491	0	0
38	M66	PY	-.000491	-.000491	0	0
39	M67	PY	-.000491	-.000491	0	0
40	M68	PY	-.000491	-.000491	0	0
41	PIPE1	PY	-.006	-.006	0	0
42	Connect3	PX	-.003	-.003	0	0
43	Face1	PX	-.003	-.003	0	0
44	FACE3	PX	-.006	-.006	0	0
45	FACE2	PX	-.006	-.006	0	0
46	MP ALPHA1	PX	-.004	-.004	0	0
47	RAIL1	PX	-.001	-.001	0	0
48	RAIL3	PX	-.002	-.002	0	0
49	RAIL2	PX	-.002	-.002	0	0
50	Standoff1	PX	-.003	-.003	0	0
51	STANDOFF2	PX	-.003	-.003	0	0
52	Standoff3	PX	-.003	-.003	0	0
53	Support1	PX	-.003	-.003	0	0
54	Support2	PX	-.003	-.003	0	0
55	Support3	PX	-.003	-.003	0	0
56	Support4	PX	-.003	-.003	0	0
57	Support5	PX	-.003	-.003	0	0
58	Support6	PX	-.003	-.003	0	0
59	Support7	PX	-.003	-.003	0	0
60	Support8	PX	-.003	-.003	0	0
61	Support9	PX	-.003	-.003	0	0
62	Support10	PX	-.003	-.003	0	0
63	Support11	PX	-.003	-.003	0	0
64	Support12	PX	-.003	-.003	0	0
65	MP ALPHA3	PX	-.004	-.004	0	0
66	MP ALPHA2	PX	-.004	-.004	0	0
67	MP ALPHA4	PX	-.004	-.004	0	0
68	CONNECT2	PX	-.003	-.003	0	0
69	CONNECT1	PX	-.003	-.003	0	0
70	MP GAMMA1	PX	-.004	-.004	0	0
71	MP GAMMA3	PX	-.004	-.004	0	0
72	MP GAMMA2	PX	-.004	-.004	0	0
73	MP GAMMA4	PX	-.004	-.004	0	0
74	MP BETA1	PX	-.004	-.004	0	0
75	MP BETA3	PX	-.004	-.004	0	0
76	MP BETA2	PX	-.004	-.004	0	0
77	MP BETA4	PX	-.004	-.004	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,%]
78	M65	PX	-.000283	-.000283	0	0
79	M66	PX	-.000283	-.000283	0	0
80	M67	PX	-.000283	-.000283	0	0
81	M68	PX	-.000283	-.000283	0	0
82	PIPE1	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	Connect3	PY	-.003	-.003	0	0
2	Face1	PY	-.003	-.003	0	0
3	FACE3	PY	-.006	-.006	0	0
4	FACE2	PY	-.006	-.006	0	0
5	MP ALPHA1	PY	-.004	-.004	0	0
6	RAIL1	PY	-.001	-.001	0	0
7	RAIL3	PY	-.002	-.002	0	0
8	RAIL2	PY	-.002	-.002	0	0
9	Standoff1	PY	-.003	-.003	0	0
10	STANDOFF2	PY	-.003	-.003	0	0
11	Standoff3	PY	-.003	-.003	0	0
12	Support1	PY	-.003	-.003	0	0
13	Support2	PY	-.003	-.003	0	0
14	Support3	PY	-.003	-.003	0	0
15	Support4	PY	-.003	-.003	0	0
16	Support5	PY	-.003	-.003	0	0
17	Support6	PY	-.003	-.003	0	0
18	Support7	PY	-.003	-.003	0	0
19	Support8	PY	-.003	-.003	0	0
20	Support9	PY	-.003	-.003	0	0
21	Support10	PY	-.003	-.003	0	0
22	Support11	PY	-.003	-.003	0	0
23	Support12	PY	-.003	-.003	0	0
24	MP ALPHA3	PY	-.004	-.004	0	0
25	MP ALPHA2	PY	-.004	-.004	0	0
26	MP ALPHA4	PY	-.004	-.004	0	0
27	CONNECT2	PY	-.003	-.003	0	0
28	CONNECT1	PY	-.003	-.003	0	0
29	MP GAMMA1	PY	-.004	-.004	0	0
30	MP GAMMA3	PY	-.004	-.004	0	0
31	MP GAMMA2	PY	-.004	-.004	0	0
32	MP GAMMA4	PY	-.004	-.004	0	0
33	MP BETA1	PY	-.004	-.004	0	0
34	MP BETA3	PY	-.004	-.004	0	0
35	MP BETA2	PY	-.004	-.004	0	0
36	MP BETA4	PY	-.004	-.004	0	0
37	M65	PY	-.000283	-.000283	0	0
38	M66	PY	-.000283	-.000283	0	0
39	M67	PY	-.000283	-.000283	0	0
40	M68	PY	-.000283	-.000283	0	0
41	PIPE1	PY	-.004	-.004	0	0
42	Connect3	PX	-.005	-.005	0	0
43	Face1	PX	-.005	-.005	0	0
44	FACE3	PX	-.011	-.011	0	0
45	FACE2	PX	-.011	-.011	0	0
46	MP ALPHA1	PX	-.006	-.006	0	0
47	RAIL1	PX	-.002	-.002	0	0
48	RAIL3	PX	-.004	-.004	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,%]
49	RAIL2	PX	-.004	-.004	0	0
50	Standoff1	PX	-.005	-.005	0	0
51	STANDOFF2	PX	-.005	-.005	0	0
52	Standoff3	PX	-.005	-.005	0	0
53	Support1	PX	-.004	-.004	0	0
54	Support2	PX	-.004	-.004	0	0
55	Support3	PX	-.004	-.004	0	0
56	Support4	PX	-.004	-.004	0	0
57	Support5	PX	-.004	-.004	0	0
58	Support6	PX	-.004	-.004	0	0
59	Support7	PX	-.004	-.004	0	0
60	Support8	PX	-.004	-.004	0	0
61	Support9	PX	-.004	-.004	0	0
62	Support10	PX	-.004	-.004	0	0
63	Support11	PX	-.004	-.004	0	0
64	Support12	PX	-.004	-.004	0	0
65	MP ALPHA3	PX	-.006	-.006	0	0
66	MP ALPHA2	PX	-.006	-.006	0	0
67	MP ALPHA4	PX	-.006	-.006	0	0
68	CONNECT2	PX	-.005	-.005	0	0
69	CONNECT1	PX	-.005	-.005	0	0
70	MP GAMMA1	PX	-.006	-.006	0	0
71	MP GAMMA3	PX	-.006	-.006	0	0
72	MP GAMMA2	PX	-.006	-.006	0	0
73	MP GAMMA4	PX	-.006	-.006	0	0
74	MP BETA1	PX	-.006	-.006	0	0
75	MP BETA3	PX	-.006	-.006	0	0
76	MP BETA2	PX	-.006	-.006	0	0
77	MP BETA4	PX	-.006	-.006	0	0
78	M65	PX	-.000491	-.000491	0	0
79	M66	PX	-.000491	-.000491	0	0
80	M67	PX	-.000491	-.000491	0	0
81	M68	PX	-.000491	-.000491	0	0
82	PIPE1	PX	-.006	-.006	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	Connect3	PX	-.006	-.006	0	0
2	FACE2	PX	-.006	-.006	0	0
3	FACE3	PX	-.013	-.013	0	0
4	Face1	PX	-.013	-.013	0	0
5	MP ALPHA1	PX	-.007	-.007	0	0
6	RAIL2	PX	-.002	-.002	0	0
7	RAIL3	PX	-.004	-.004	0	0
8	RAIL1	PX	-.004	-.004	0	0
9	Standoff1	PX	-.006	-.006	0	0
10	STANDOFF2	PX	-.006	-.006	0	0
11	Standoff3	PX	-.006	-.006	0	0
12	Support1	PX	-.005	-.005	0	0
13	Support2	PX	-.005	-.005	0	0
14	Support3	PX	-.005	-.005	0	0
15	Support4	PX	-.005	-.005	0	0
16	Support5	PX	-.005	-.005	0	0
17	Support6	PX	-.005	-.005	0	0
18	Support7	PX	-.005	-.005	0	0
19	Support8	PX	-.005	-.005	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,%]
20	Support9	PX	-.005	-.005	0	0
21	Support10	PX	-.005	-.005	0	0
22	Support11	PX	-.005	-.005	0	0
23	Support12	PX	-.005	-.005	0	0
24	MP ALPHA3	PX	-.007	-.007	0	0
25	MP ALPHA2	PX	-.007	-.007	0	0
26	MP ALPHA4	PX	-.007	-.007	0	0
27	CONNECT2	PX	-.006	-.006	0	0
28	CONNECT1	PX	-.006	-.006	0	0
29	MP GAMMA1	PX	-.007	-.007	0	0
30	MP GAMMA3	PX	-.007	-.007	0	0
31	MP GAMMA2	PX	-.007	-.007	0	0
32	MP GAMMA4	PX	-.007	-.007	0	0
33	MP BETA1	PX	-.007	-.007	0	0
34	MP BETA3	PX	-.007	-.007	0	0
35	MP BETA2	PX	-.007	-.007	0	0
36	MP BETA4	PX	-.007	-.007	0	0
37	M65	PX	-.000567	-.000567	0	0
38	M66	PX	-.000567	-.000567	0	0
39	M67	PX	-.000567	-.000567	0	0
40	M68	PX	-.000567	-.000567	0	0
41	PIPE1	PX	-.007	-.007	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	Connect3	PY	.003	.003	0	0
2	FACE2	PY	.003	.003	0	0
3	FACE3	PY	.006	.006	0	0
4	Face1	PY	.006	.006	0	0
5	MP ALPHA1	PY	.004	.004	0	0
6	RAIL2	PY	.001	.001	0	0
7	RAIL3	PY	.002	.002	0	0
8	RAIL1	PY	.002	.002	0	0
9	Standoff1	PY	.003	.003	0	0
10	STANDOFF2	PY	.003	.003	0	0
11	Standoff3	PY	.003	.003	0	0
12	Support1	PY	.003	.003	0	0
13	Support2	PY	.003	.003	0	0
14	Support3	PY	.003	.003	0	0
15	Support4	PY	.003	.003	0	0
16	Support5	PY	.003	.003	0	0
17	Support6	PY	.003	.003	0	0
18	Support7	PY	.003	.003	0	0
19	Support8	PY	.003	.003	0	0
20	Support9	PY	.003	.003	0	0
21	Support10	PY	.003	.003	0	0
22	Support11	PY	.003	.003	0	0
23	Support12	PY	.003	.003	0	0
24	MP ALPHA3	PY	.004	.004	0	0
25	MP ALPHA2	PY	.004	.004	0	0
26	MP ALPHA4	PY	.004	.004	0	0
27	CONNECT2	PY	.003	.003	0	0
28	CONNECT1	PY	.003	.003	0	0
29	MP GAMMA1	PY	.004	.004	0	0
30	MP GAMMA3	PY	.004	.004	0	0
31	MP GAMMA2	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,%]
32	MP GAMMA4	PY	.004	.004	0	0
33	MP BETA1	PY	.004	.004	0	0
34	MP BETA3	PY	.004	.004	0	0
35	MP BETA2	PY	.004	.004	0	0
36	MP BETA4	PY	.004	.004	0	0
37	M65	PY	.000283	.000283	0	0
38	M66	PY	.000283	.000283	0	0
39	M67	PY	.000283	.000283	0	0
40	M68	PY	.000283	.000283	0	0
41	PIPE1	PY	.004	.004	0	0
42	Connect3	PX	-.005	-.005	0	0
43	FACE2	PX	-.005	-.005	0	0
44	FACE3	PX	-.011	-.011	0	0
45	Face1	PX	-.011	-.011	0	0
46	MP ALPHA1	PX	-.006	-.006	0	0
47	RAIL2	PX	-.002	-.002	0	0
48	RAIL3	PX	-.004	-.004	0	0
49	RAIL1	PX	-.004	-.004	0	0
50	Standoff1	PX	-.005	-.005	0	0
51	STANDOFF2	PX	-.005	-.005	0	0
52	Standoff3	PX	-.005	-.005	0	0
53	Support1	PX	-.004	-.004	0	0
54	Support2	PX	-.004	-.004	0	0
55	Support3	PX	-.004	-.004	0	0
56	Support4	PX	-.004	-.004	0	0
57	Support5	PX	-.004	-.004	0	0
58	Support6	PX	-.004	-.004	0	0
59	Support7	PX	-.004	-.004	0	0
60	Support8	PX	-.004	-.004	0	0
61	Support9	PX	-.004	-.004	0	0
62	Support10	PX	-.004	-.004	0	0
63	Support11	PX	-.004	-.004	0	0
64	Support12	PX	-.004	-.004	0	0
65	MP ALPHA3	PX	-.006	-.006	0	0
66	MP ALPHA2	PX	-.006	-.006	0	0
67	MP ALPHA4	PX	-.006	-.006	0	0
68	CONNECT2	PX	-.005	-.005	0	0
69	CONNECT1	PX	-.005	-.005	0	0
70	MP GAMMA1	PX	-.006	-.006	0	0
71	MP GAMMA3	PX	-.006	-.006	0	0
72	MP GAMMA2	PX	-.006	-.006	0	0
73	MP GAMMA4	PX	-.006	-.006	0	0
74	MP BETA1	PX	-.006	-.006	0	0
75	MP BETA3	PX	-.006	-.006	0	0
76	MP BETA2	PX	-.006	-.006	0	0
77	MP BETA4	PX	-.006	-.006	0	0
78	M65	PX	-.000491	-.000491	0	0
79	M66	PX	-.000491	-.000491	0	0
80	M67	PX	-.000491	-.000491	0	0
81	M68	PX	-.000491	-.000491	0	0
82	PIPE1	PX	-.006	-.006	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	Connect3	PY	.005	.005	0	0
2	FACE2	PY	.005	.005	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,%]
3	FACE3	PY	.011	.011	0	0
4	Face1	PY	.011	.011	0	0
5	MP ALPHA1	PY	.006	.006	0	0
6	RAIL2	PY	.002	.002	0	0
7	RAIL3	PY	.004	.004	0	0
8	RAIL1	PY	.004	.004	0	0
9	Standoff1	PY	.005	.005	0	0
10	STANDOFF2	PY	.005	.005	0	0
11	Standoff3	PY	.005	.005	0	0
12	Support1	PY	.004	.004	0	0
13	Support2	PY	.004	.004	0	0
14	Support3	PY	.004	.004	0	0
15	Support4	PY	.004	.004	0	0
16	Support5	PY	.004	.004	0	0
17	Support6	PY	.004	.004	0	0
18	Support7	PY	.004	.004	0	0
19	Support8	PY	.004	.004	0	0
20	Support9	PY	.004	.004	0	0
21	Support10	PY	.004	.004	0	0
22	Support11	PY	.004	.004	0	0
23	Support12	PY	.004	.004	0	0
24	MP ALPHA3	PY	.006	.006	0	0
25	MP ALPHA2	PY	.006	.006	0	0
26	MP ALPHA4	PY	.006	.006	0	0
27	CONNECT2	PY	.005	.005	0	0
28	CONNECT1	PY	.005	.005	0	0
29	MP GAMMA1	PY	.006	.006	0	0
30	MP GAMMA3	PY	.006	.006	0	0
31	MP GAMMA2	PY	.006	.006	0	0
32	MP GAMMA4	PY	.006	.006	0	0
33	MP BETA1	PY	.006	.006	0	0
34	MP BETA3	PY	.006	.006	0	0
35	MP BETA2	PY	.006	.006	0	0
36	MP BETA4	PY	.006	.006	0	0
37	M65	PY	.000491	.000491	0	0
38	M66	PY	.000491	.000491	0	0
39	M67	PY	.000491	.000491	0	0
40	M68	PY	.000491	.000491	0	0
41	PIPE1	PY	.006	.006	0	0
42	Connect3	PX	-.003	-.003	0	0
43	FACE2	PX	-.003	-.003	0	0
44	FACE3	PX	-.006	-.006	0	0
45	Face1	PX	-.006	-.006	0	0
46	MP ALPHA1	PX	-.004	-.004	0	0
47	RAIL2	PX	-.001	-.001	0	0
48	RAIL3	PX	-.002	-.002	0	0
49	RAIL1	PX	-.002	-.002	0	0
50	Standoff1	PX	-.003	-.003	0	0
51	STANDOFF2	PX	-.003	-.003	0	0
52	Standoff3	PX	-.003	-.003	0	0
53	Support1	PX	-.003	-.003	0	0
54	Support2	PX	-.003	-.003	0	0
55	Support3	PX	-.003	-.003	0	0
56	Support4	PX	-.003	-.003	0	0
57	Support5	PX	-.003	-.003	0	0
58	Support6	PX	-.003	-.003	0	0
59	Support7	PX	-.003	-.003	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,%]
60	Support8	PX	-.003	-.003	0	0
61	Support9	PX	-.003	-.003	0	0
62	Support10	PX	-.003	-.003	0	0
63	Support11	PX	-.003	-.003	0	0
64	Support12	PX	-.003	-.003	0	0
65	MP ALPHA3	PX	-.004	-.004	0	0
66	MP ALPHA2	PX	-.004	-.004	0	0
67	MP ALPHA4	PX	-.004	-.004	0	0
68	CONNECT2	PX	-.003	-.003	0	0
69	CONNECT1	PX	-.003	-.003	0	0
70	MP GAMMA1	PX	-.004	-.004	0	0
71	MP GAMMA3	PX	-.004	-.004	0	0
72	MP GAMMA2	PX	-.004	-.004	0	0
73	MP GAMMA4	PX	-.004	-.004	0	0
74	MP BETA1	PX	-.004	-.004	0	0
75	MP BETA3	PX	-.004	-.004	0	0
76	MP BETA2	PX	-.004	-.004	0	0
77	MP BETA4	PX	-.004	-.004	0	0
78	M65	PX	-.000283	-.000283	0	0
79	M66	PX	-.000283	-.000283	0	0
80	M67	PX	-.000283	-.000283	0	0
81	M68	PX	-.000283	-.000283	0	0
82	PIPE1	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	Connect3	PY	.006	.006	0	0
2	FACE2	PY	.006	.006	0	0
3	FACE3	PY	.013	.013	0	0
4	Face1	PY	.013	.013	0	0
5	MP ALPHA1	PY	.007	.007	0	0
6	RAIL2	PY	.002	.002	0	0
7	RAIL3	PY	.004	.004	0	0
8	RAIL1	PY	.004	.004	0	0
9	Standoff1	PY	.006	.006	0	0
10	STANDOFF2	PY	.006	.006	0	0
11	Standoff3	PY	.006	.006	0	0
12	Support1	PY	.005	.005	0	0
13	Support2	PY	.005	.005	0	0
14	Support3	PY	.005	.005	0	0
15	Support4	PY	.005	.005	0	0
16	Support5	PY	.005	.005	0	0
17	Support6	PY	.005	.005	0	0
18	Support7	PY	.005	.005	0	0
19	Support8	PY	.005	.005	0	0
20	Support9	PY	.005	.005	0	0
21	Support10	PY	.005	.005	0	0
22	Support11	PY	.005	.005	0	0
23	Support12	PY	.005	.005	0	0
24	MP ALPHA3	PY	.007	.007	0	0
25	MP ALPHA2	PY	.007	.007	0	0
26	MP ALPHA4	PY	.007	.007	0	0
27	CONNECT2	PY	.006	.006	0	0
28	CONNECT1	PY	.006	.006	0	0
29	MP GAMMA1	PY	.007	.007	0	0
30	MP GAMMA3	PY	.007	.007	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,%]
31	MP GAMMA2	PY	.007	.007	0	0
32	MP GAMMA4	PY	.007	.007	0	0
33	MP BETA1	PY	.007	.007	0	0
34	MP BETA3	PY	.007	.007	0	0
35	MP BETA2	PY	.007	.007	0	0
36	MP BETA4	PY	.007	.007	0	0
37	M65	PY	.000567	.000567	0	0
38	M66	PY	.000567	.000567	0	0
39	M67	PY	.000567	.000567	0	0
40	M68	PY	.000567	.000567	0	0
41	PIPE1	PY	.007	.007	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	Connect3	PY	.005	.005	0	0
2	FACE3	PY	.005	.005	0	0
3	Face1	PY	.011	.011	0	0
4	FACE2	PY	.011	.011	0	0
5	MP ALPHA1	PY	.006	.006	0	0
6	RAIL3	PY	.002	.002	0	0
7	RAIL1	PY	.004	.004	0	0
8	RAIL2	PY	.004	.004	0	0
9	Standoff1	PY	.005	.005	0	0
10	STANDOFF2	PY	.005	.005	0	0
11	Standoff3	PY	.005	.005	0	0
12	Support1	PY	.004	.004	0	0
13	Support2	PY	.004	.004	0	0
14	Support3	PY	.004	.004	0	0
15	Support4	PY	.004	.004	0	0
16	Support5	PY	.004	.004	0	0
17	Support6	PY	.004	.004	0	0
18	Support7	PY	.004	.004	0	0
19	Support8	PY	.004	.004	0	0
20	Support9	PY	.004	.004	0	0
21	Support10	PY	.004	.004	0	0
22	Support11	PY	.004	.004	0	0
23	Support12	PY	.004	.004	0	0
24	MP ALPHA3	PY	.006	.006	0	0
25	MP ALPHA2	PY	.006	.006	0	0
26	MP ALPHA4	PY	.006	.006	0	0
27	CONNECT2	PY	.005	.005	0	0
28	CONNECT1	PY	.005	.005	0	0
29	MP GAMMA1	PY	.006	.006	0	0
30	MP GAMMA3	PY	.006	.006	0	0
31	MP GAMMA2	PY	.006	.006	0	0
32	MP GAMMA4	PY	.006	.006	0	0
33	MP BETA1	PY	.006	.006	0	0
34	MP BETA3	PY	.006	.006	0	0
35	MP BETA2	PY	.006	.006	0	0
36	MP BETA4	PY	.006	.006	0	0
37	M65	PY	.000491	.000491	0	0
38	M66	PY	.000491	.000491	0	0
39	M67	PY	.000491	.000491	0	0
40	M68	PY	.000491	.000491	0	0
41	PIPE1	PY	.006	.006	0	0
42	Connect3	PX	.003	.003	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,%]
43	FACE3	PX	.003	.003	0	0
44	Face1	PX	.006	.006	0	0
45	FACE2	PX	.006	.006	0	0
46	MP ALPHA1	PX	.004	.004	0	0
47	RAIL3	PX	.001	.001	0	0
48	RAIL1	PX	.002	.002	0	0
49	RAIL2	PX	.002	.002	0	0
50	Standoff1	PX	.003	.003	0	0
51	STANDOFF2	PX	.003	.003	0	0
52	Standoff3	PX	.003	.003	0	0
53	Support1	PX	.003	.003	0	0
54	Support2	PX	.003	.003	0	0
55	Support3	PX	.003	.003	0	0
56	Support4	PX	.003	.003	0	0
57	Support5	PX	.003	.003	0	0
58	Support6	PX	.003	.003	0	0
59	Support7	PX	.003	.003	0	0
60	Support8	PX	.003	.003	0	0
61	Support9	PX	.003	.003	0	0
62	Support10	PX	.003	.003	0	0
63	Support11	PX	.003	.003	0	0
64	Support12	PX	.003	.003	0	0
65	MP ALPHA3	PX	.004	.004	0	0
66	MP ALPHA2	PX	.004	.004	0	0
67	MP ALPHA4	PX	.004	.004	0	0
68	CONNECT2	PX	.003	.003	0	0
69	CONNECT1	PX	.003	.003	0	0
70	MP GAMMA1	PX	.004	.004	0	0
71	MP GAMMA3	PX	.004	.004	0	0
72	MP GAMMA2	PX	.004	.004	0	0
73	MP GAMMA4	PX	.004	.004	0	0
74	MP BETA1	PX	.004	.004	0	0
75	MP BETA3	PX	.004	.004	0	0
76	MP BETA2	PX	.004	.004	0	0
77	MP BETA4	PX	.004	.004	0	0
78	M65	PX	.000283	.000283	0	0
79	M66	PX	.000283	.000283	0	0
80	M67	PX	.000283	.000283	0	0
81	M68	PX	.000283	.000283	0	0
82	PIPE1	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	Connect3	PY	.003	.003	0	0
2	FACE3	PY	.003	.003	0	0
3	Face1	PY	.006	.006	0	0
4	FACE2	PY	.006	.006	0	0
5	MP ALPHA1	PY	.004	.004	0	0
6	RAIL3	PY	.001	.001	0	0
7	RAIL1	PY	.002	.002	0	0
8	RAIL2	PY	.002	.002	0	0
9	Standoff1	PY	.003	.003	0	0
10	STANDOFF2	PY	.003	.003	0	0
11	Standoff3	PY	.003	.003	0	0
12	Support1	PY	.003	.003	0	0
13	Support2	PY	.003	.003	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,%]
14	Support3	PY	.003	.003	0	0
15	Support4	PY	.003	.003	0	0
16	Support5	PY	.003	.003	0	0
17	Support6	PY	.003	.003	0	0
18	Support7	PY	.003	.003	0	0
19	Support8	PY	.003	.003	0	0
20	Support9	PY	.003	.003	0	0
21	Support10	PY	.003	.003	0	0
22	Support11	PY	.003	.003	0	0
23	Support12	PY	.003	.003	0	0
24	MP ALPHA3	PY	.004	.004	0	0
25	MP ALPHA2	PY	.004	.004	0	0
26	MP ALPHA4	PY	.004	.004	0	0
27	CONNECT2	PY	.003	.003	0	0
28	CONNECT1	PY	.003	.003	0	0
29	MP GAMMA1	PY	.004	.004	0	0
30	MP GAMMA3	PY	.004	.004	0	0
31	MP GAMMA2	PY	.004	.004	0	0
32	MP GAMMA4	PY	.004	.004	0	0
33	MP BETA1	PY	.004	.004	0	0
34	MP BETA3	PY	.004	.004	0	0
35	MP BETA2	PY	.004	.004	0	0
36	MP BETA4	PY	.004	.004	0	0
37	M65	PY	.000283	.000283	0	0
38	M66	PY	.000283	.000283	0	0
39	M67	PY	.000283	.000283	0	0
40	M68	PY	.000283	.000283	0	0
41	PIPE1	PY	.004	.004	0	0
42	Connect3	PX	.005	.005	0	0
43	FACE3	PX	.005	.005	0	0
44	Face1	PX	.011	.011	0	0
45	FACE2	PX	.011	.011	0	0
46	MP ALPHA1	PX	.006	.006	0	0
47	RAIL3	PX	.002	.002	0	0
48	RAIL1	PX	.004	.004	0	0
49	RAIL2	PX	.004	.004	0	0
50	Standoff1	PX	.005	.005	0	0
51	STANDOFF2	PX	.005	.005	0	0
52	Standoff3	PX	.005	.005	0	0
53	Support1	PX	.004	.004	0	0
54	Support2	PX	.004	.004	0	0
55	Support3	PX	.004	.004	0	0
56	Support4	PX	.004	.004	0	0
57	Support5	PX	.004	.004	0	0
58	Support6	PX	.004	.004	0	0
59	Support7	PX	.004	.004	0	0
60	Support8	PX	.004	.004	0	0
61	Support9	PX	.004	.004	0	0
62	Support10	PX	.004	.004	0	0
63	Support11	PX	.004	.004	0	0
64	Support12	PX	.004	.004	0	0
65	MP ALPHA3	PX	.006	.006	0	0
66	MP ALPHA2	PX	.006	.006	0	0
67	MP ALPHA4	PX	.006	.006	0	0
68	CONNECT2	PX	.005	.005	0	0
69	CONNECT1	PX	.005	.005	0	0
70	MP GAMMA1	PX	.006	.006	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,%]
71	MP GAMMA3	PX	.006	.006	0	0
72	MP GAMMA2	PX	.006	.006	0	0
73	MP GAMMA4	PX	.006	.006	0	0
74	MP BETA1	PX	.006	.006	0	0
75	MP BETA3	PX	.006	.006	0	0
76	MP BETA2	PX	.006	.006	0	0
77	MP BETA4	PX	.006	.006	0	0
78	M65	PX	.000491	.000491	0	0
79	M66	PX	.000491	.000491	0	0
80	M67	PX	.000491	.000491	0	0
81	M68	PX	.000491	.000491	0	0
82	PIPE1	PX	.006	.006	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	Connect3	PX	.006	.006	0	0
2	FACE3	PX	.006	.006	0	0
3	Face1	PX	.013	.013	0	0
4	FACE2	PX	.013	.013	0	0
5	MP ALPHA1	PX	.007	.007	0	0
6	RAIL3	PX	.002	.002	0	0
7	RAIL1	PX	.004	.004	0	0
8	RAIL2	PX	.004	.004	0	0
9	Standoff1	PX	.006	.006	0	0
10	STANDOFF2	PX	.006	.006	0	0
11	Standoff3	PX	.006	.006	0	0
12	Support1	PX	.005	.005	0	0
13	Support2	PX	.005	.005	0	0
14	Support3	PX	.005	.005	0	0
15	Support4	PX	.005	.005	0	0
16	Support5	PX	.005	.005	0	0
17	Support6	PX	.005	.005	0	0
18	Support7	PX	.005	.005	0	0
19	Support8	PX	.005	.005	0	0
20	Support9	PX	.005	.005	0	0
21	Support10	PX	.005	.005	0	0
22	Support11	PX	.005	.005	0	0
23	Support12	PX	.005	.005	0	0
24	MP ALPHA3	PX	.007	.007	0	0
25	MP ALPHA2	PX	.007	.007	0	0
26	MP ALPHA4	PX	.007	.007	0	0
27	CONNECT2	PX	.006	.006	0	0
28	CONNECT1	PX	.006	.006	0	0
29	MP GAMMA1	PX	.007	.007	0	0
30	MP GAMMA3	PX	.007	.007	0	0
31	MP GAMMA2	PX	.007	.007	0	0
32	MP GAMMA4	PX	.007	.007	0	0
33	MP BETA1	PX	.007	.007	0	0
34	MP BETA3	PX	.007	.007	0	0
35	MP BETA2	PX	.007	.007	0	0
36	MP BETA4	PX	.007	.007	0	0
37	M65	PX	.000567	.000567	0	0
38	M66	PX	.000567	.000567	0	0
39	M67	PX	.000567	.000567	0	0
40	M68	PX	.000567	.000567	0	0
41	PIPE1	PX	.007	.007	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	Connect3	PY	-.003	-.003	0	0
2	FACE3	PY	-.003	-.003	0	0
3	Face1	PY	-.006	-.006	0	0
4	FACE2	PY	-.006	-.006	0	0
5	MP ALPHA1	PY	-.004	-.004	0	0
6	RAIL3	PY	-.001	-.001	0	0
7	RAIL1	PY	-.002	-.002	0	0
8	RAIL2	PY	-.002	-.002	0	0
9	Standoff1	PY	-.003	-.003	0	0
10	STANDOFF2	PY	-.003	-.003	0	0
11	Standoff3	PY	-.003	-.003	0	0
12	Support1	PY	-.003	-.003	0	0
13	Support2	PY	-.003	-.003	0	0
14	Support3	PY	-.003	-.003	0	0
15	Support4	PY	-.003	-.003	0	0
16	Support5	PY	-.003	-.003	0	0
17	Support6	PY	-.003	-.003	0	0
18	Support7	PY	-.003	-.003	0	0
19	Support8	PY	-.003	-.003	0	0
20	Support9	PY	-.003	-.003	0	0
21	Support10	PY	-.003	-.003	0	0
22	Support11	PY	-.003	-.003	0	0
23	Support12	PY	-.003	-.003	0	0
24	MP ALPHA3	PY	-.004	-.004	0	0
25	MP ALPHA2	PY	-.004	-.004	0	0
26	MP ALPHA4	PY	-.004	-.004	0	0
27	CONNECT2	PY	-.003	-.003	0	0
28	CONNECT1	PY	-.003	-.003	0	0
29	MP GAMMA1	PY	-.004	-.004	0	0
30	MP GAMMA3	PY	-.004	-.004	0	0
31	MP GAMMA2	PY	-.004	-.004	0	0
32	MP GAMMA4	PY	-.004	-.004	0	0
33	MP BETA1	PY	-.004	-.004	0	0
34	MP BETA3	PY	-.004	-.004	0	0
35	MP BETA2	PY	-.004	-.004	0	0
36	MP BETA4	PY	-.004	-.004	0	0
37	M65	PY	-.000283	-.000283	0	0
38	M66	PY	-.000283	-.000283	0	0
39	M67	PY	-.000283	-.000283	0	0
40	M68	PY	-.000283	-.000283	0	0
41	PIPE1	PY	-.004	-.004	0	0
42	Connect3	PX	.005	.005	0	0
43	FACE3	PX	.005	.005	0	0
44	Face1	PX	.011	.011	0	0
45	FACE2	PX	.011	.011	0	0
46	MP ALPHA1	PX	.006	.006	0	0
47	RAIL3	PX	.002	.002	0	0
48	RAIL1	PX	.004	.004	0	0
49	RAIL2	PX	.004	.004	0	0
50	Standoff1	PX	.005	.005	0	0
51	STANDOFF2	PX	.005	.005	0	0
52	Standoff3	PX	.005	.005	0	0
53	Support1	PX	.004	.004	0	0
54	Support2	PX	.004	.004	0	0
55	Support3	PX	.004	.004	0	0
56	Support4	PX	.004	.004	0	0
57	Support5	PX	.004	.004	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	Support6	PX	.004	.004	0	0
59	Support7	PX	.004	.004	0	0
60	Support8	PX	.004	.004	0	0
61	Support9	PX	.004	.004	0	0
62	Support10	PX	.004	.004	0	0
63	Support11	PX	.004	.004	0	0
64	Support12	PX	.004	.004	0	0
65	MP ALPHA3	PX	.006	.006	0	0
66	MP ALPHA2	PX	.006	.006	0	0
67	MP ALPHA4	PX	.006	.006	0	0
68	CONNECT2	PX	.005	.005	0	0
69	CONNECT1	PX	.005	.005	0	0
70	MP GAMMA1	PX	.006	.006	0	0
71	MP GAMMA3	PX	.006	.006	0	0
72	MP GAMMA2	PX	.006	.006	0	0
73	MP GAMMA4	PX	.006	.006	0	0
74	MP BETA1	PX	.006	.006	0	0
75	MP BETA3	PX	.006	.006	0	0
76	MP BETA2	PX	.006	.006	0	0
77	MP BETA4	PX	.006	.006	0	0
78	M65	PX	.000491	.000491	0	0
79	M66	PX	.000491	.000491	0	0
80	M67	PX	.000491	.000491	0	0
81	M68	PX	.000491	.000491	0	0
82	PIPE1	PX	.006	.006	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	Connect3	PY	-.005	-.005	0	0
2	Face1	PY	-.005	-.005	0	0
3	FACE3	PY	-.011	-.011	0	0
4	FACE2	PY	-.011	-.011	0	0
5	MP ALPHA1	PY	-.006	-.006	0	0
6	RAIL1	PY	-.002	-.002	0	0
7	RAIL3	PY	-.004	-.004	0	0
8	RAIL2	PY	-.004	-.004	0	0
9	Standoff1	PY	-.005	-.005	0	0
10	STANDOFF2	PY	-.005	-.005	0	0
11	Standoff3	PY	-.005	-.005	0	0
12	Support1	PY	-.004	-.004	0	0
13	Support2	PY	-.004	-.004	0	0
14	Support3	PY	-.004	-.004	0	0
15	Support4	PY	-.004	-.004	0	0
16	Support5	PY	-.004	-.004	0	0
17	Support6	PY	-.004	-.004	0	0
18	Support7	PY	-.004	-.004	0	0
19	Support8	PY	-.004	-.004	0	0
20	Support9	PY	-.004	-.004	0	0
21	Support10	PY	-.004	-.004	0	0
22	Support11	PY	-.004	-.004	0	0
23	Support12	PY	-.004	-.004	0	0
24	MP ALPHA3	PY	-.006	-.006	0	0
25	MP ALPHA2	PY	-.006	-.006	0	0
26	MP ALPHA4	PY	-.006	-.006	0	0
27	CONNECT2	PY	-.005	-.005	0	0
28	CONNECT1	PY	-.005	-.005	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,%]
29	MP GAMMA1	PY	-.006	-.006	0	0
30	MP GAMMA3	PY	-.006	-.006	0	0
31	MP GAMMA2	PY	-.006	-.006	0	0
32	MP GAMMA4	PY	-.006	-.006	0	0
33	MP BETA1	PY	-.006	-.006	0	0
34	MP BETA3	PY	-.006	-.006	0	0
35	MP BETA2	PY	-.006	-.006	0	0
36	MP BETA4	PY	-.006	-.006	0	0
37	M65	PY	-.000491	-.000491	0	0
38	M66	PY	-.000491	-.000491	0	0
39	M67	PY	-.000491	-.000491	0	0
40	M68	PY	-.000491	-.000491	0	0
41	PIPE1	PY	-.006	-.006	0	0
42	Connect3	PX	.003	.003	0	0
43	Face1	PX	.003	.003	0	0
44	FACE3	PX	.006	.006	0	0
45	FACE2	PX	.006	.006	0	0
46	MP ALPHA1	PX	.004	.004	0	0
47	RAIL1	PX	.001	.001	0	0
48	RAIL3	PX	.002	.002	0	0
49	RAIL2	PX	.002	.002	0	0
50	Standoff1	PX	.003	.003	0	0
51	STANDOFF2	PX	.003	.003	0	0
52	Standoff3	PX	.003	.003	0	0
53	Support1	PX	.003	.003	0	0
54	Support2	PX	.003	.003	0	0
55	Support3	PX	.003	.003	0	0
56	Support4	PX	.003	.003	0	0
57	Support5	PX	.003	.003	0	0
58	Support6	PX	.003	.003	0	0
59	Support7	PX	.003	.003	0	0
60	Support8	PX	.003	.003	0	0
61	Support9	PX	.003	.003	0	0
62	Support10	PX	.003	.003	0	0
63	Support11	PX	.003	.003	0	0
64	Support12	PX	.003	.003	0	0
65	MP ALPHA3	PX	.004	.004	0	0
66	MP ALPHA2	PX	.004	.004	0	0
67	MP ALPHA4	PX	.004	.004	0	0
68	CONNECT2	PX	.003	.003	0	0
69	CONNECT1	PX	.003	.003	0	0
70	MP GAMMA1	PX	.004	.004	0	0
71	MP GAMMA3	PX	.004	.004	0	0
72	MP GAMMA2	PX	.004	.004	0	0
73	MP GAMMA4	PX	.004	.004	0	0
74	MP BETA1	PX	.004	.004	0	0
75	MP BETA3	PX	.004	.004	0	0
76	MP BETA2	PX	.004	.004	0	0
77	MP BETA4	PX	.004	.004	0	0
78	M65	PX	.000283	.000283	0	0
79	M66	PX	.000283	.000283	0	0
80	M67	PX	.000283	.000283	0	0
81	M68	PX	.000283	.000283	0	0
82	PIPE1	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,%]

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,%]
1	Connect3	PY	-.000416	-.000416	0	0
2	Face1	PY	-.000416	-.000416	0	0
3	FACE3	PY	-.000832	-.000832	0	0
4	FACE2	PY	-.000832	-.000832	0	0
5	MP ALPHA1	PY	-.000474	-.000474	0	0
6	RAIL1	PY	-.000142	-.000142	0	0
7	RAIL3	PY	-.000283	-.000283	0	0
8	RAIL2	PY	-.000283	-.000283	0	0
9	Standoff1	PY	-.000416	-.000416	0	0
10	STANDOFF2	PY	-.000416	-.000416	0	0
11	Standoff3	PY	-.000416	-.000416	0	0
12	Support1	PY	-.000333	-.000333	0	0
13	Support2	PY	-.000333	-.000333	0	0
14	Support3	PY	-.000333	-.000333	0	0
15	Support4	PY	-.000333	-.000333	0	0
16	Support5	PY	-.000333	-.000333	0	0
17	Support6	PY	-.000333	-.000333	0	0
18	Support7	PY	-.000333	-.000333	0	0
19	Support8	PY	-.000333	-.000333	0	0
20	Support9	PY	-.000333	-.000333	0	0
21	Support10	PY	-.000333	-.000333	0	0
22	Support11	PY	-.000333	-.000333	0	0
23	Support12	PY	-.000333	-.000333	0	0
24	MP ALPHA3	PY	-.000474	-.000474	0	0
25	MP ALPHA2	PY	-.000474	-.000474	0	0
26	MP ALPHA4	PY	-.000474	-.000474	0	0
27	CONNECT2	PY	-.000416	-.000416	0	0
28	CONNECT1	PY	-.000416	-.000416	0	0
29	MP GAMMA1	PY	-.000474	-.000474	0	0
30	MP GAMMA3	PY	-.000474	-.000474	0	0
31	MP GAMMA2	PY	-.000474	-.000474	0	0
32	MP GAMMA4	PY	-.000474	-.000474	0	0
33	MP BETA1	PY	-.000474	-.000474	0	0
34	MP BETA3	PY	-.000474	-.000474	0	0
35	MP BETA2	PY	-.000474	-.000474	0	0
36	MP BETA4	PY	-.000474	-.000474	0	0
37	M65	PY	-3.7e-5	-3.7e-5	0	0
38	M66	PY	-3.7e-5	-3.7e-5	0	0
39	M67	PY	-3.7e-5	-3.7e-5	0	0
40	M68	PY	-3.7e-5	-3.7e-5	0	0
41	PIPE1	PY	-.000474	-.000474	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	Connect3	PY	-.00036	-.00036	0	0
2	Face1	PY	-.00036	-.00036	0	0
3	FACE3	PY	-.000721	-.000721	0	0
4	FACE2	PY	-.000721	-.000721	0	0
5	MP ALPHA1	PY	-.00041	-.00041	0	0
6	RAIL1	PY	-.000123	-.000123	0	0
7	RAIL3	PY	-.000245	-.000245	0	0
8	RAIL2	PY	-.000245	-.000245	0	0
9	Standoff1	PY	-.00036	-.00036	0	0
10	STANDOFF2	PY	-.00036	-.00036	0	0
11	Standoff3	PY	-.00036	-.00036	0	0
12	Support1	PY	-.000288	-.000288	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,%]
13	Support2	PY	-.000288	-.000288	0	0
14	Support3	PY	-.000288	-.000288	0	0
15	Support4	PY	-.000288	-.000288	0	0
16	Support5	PY	-.000288	-.000288	0	0
17	Support6	PY	-.000288	-.000288	0	0
18	Support7	PY	-.000288	-.000288	0	0
19	Support8	PY	-.000288	-.000288	0	0
20	Support9	PY	-.000288	-.000288	0	0
21	Support10	PY	-.000288	-.000288	0	0
22	Support11	PY	-.000288	-.000288	0	0
23	Support12	PY	-.000288	-.000288	0	0
24	MP ALPHA3	PY	-.00041	-.00041	0	0
25	MP ALPHA2	PY	-.00041	-.00041	0	0
26	MP ALPHA4	PY	-.00041	-.00041	0	0
27	CONNECT2	PY	-.00036	-.00036	0	0
28	CONNECT1	PY	-.00036	-.00036	0	0
29	MP GAMMA1	PY	-.00041	-.00041	0	0
30	MP GAMMA3	PY	-.00041	-.00041	0	0
31	MP GAMMA2	PY	-.00041	-.00041	0	0
32	MP GAMMA4	PY	-.00041	-.00041	0	0
33	MP BETA1	PY	-.00041	-.00041	0	0
34	MP BETA3	PY	-.00041	-.00041	0	0
35	MP BETA2	PY	-.00041	-.00041	0	0
36	MP BETA4	PY	-.00041	-.00041	0	0
37	M65	PY	-3.2e-5	-3.2e-5	0	0
38	M66	PY	-3.2e-5	-3.2e-5	0	0
39	M67	PY	-3.2e-5	-3.2e-5	0	0
40	M68	PY	-3.2e-5	-3.2e-5	0	0
41	PIPE1	PY	-.00041	-.00041	0	0
42	Connect3	PX	-.000208	-.000208	0	0
43	Face1	PX	-.000208	-.000208	0	0
44	FACE3	PX	-.000416	-.000416	0	0
45	FACE2	PX	-.000416	-.000416	0	0
46	MP ALPHA1	PX	-.000237	-.000237	0	0
47	RAIL1	PX	-7.1e-5	-7.1e-5	0	0
48	RAIL3	PX	-.000142	-.000142	0	0
49	RAIL2	PX	-.000142	-.000142	0	0
50	Standoff1	PX	-.000208	-.000208	0	0
51	STANDOFF2	PX	-.000208	-.000208	0	0
52	Standoff3	PX	-.000208	-.000208	0	0
53	Support1	PX	-.000166	-.000166	0	0
54	Support2	PX	-.000166	-.000166	0	0
55	Support3	PX	-.000166	-.000166	0	0
56	Support4	PX	-.000166	-.000166	0	0
57	Support5	PX	-.000166	-.000166	0	0
58	Support6	PX	-.000166	-.000166	0	0
59	Support7	PX	-.000166	-.000166	0	0
60	Support8	PX	-.000166	-.000166	0	0
61	Support9	PX	-.000166	-.000166	0	0
62	Support10	PX	-.000166	-.000166	0	0
63	Support11	PX	-.000166	-.000166	0	0
64	Support12	PX	-.000166	-.000166	0	0
65	MP ALPHA3	PX	-.000237	-.000237	0	0
66	MP ALPHA2	PX	-.000237	-.000237	0	0
67	MP ALPHA4	PX	-.000237	-.000237	0	0
68	CONNECT2	PX	-.000208	-.000208	0	0
69	CONNECT1	PX	-.000208	-.000208	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,%]
70	MP GAMMA1	PX	-.000237	-.000237	0	0
71	MP GAMMA3	PX	-.000237	-.000237	0	0
72	MP GAMMA2	PX	-.000237	-.000237	0	0
73	MP GAMMA4	PX	-.000237	-.000237	0	0
74	MP BETA1	PX	-.000237	-.000237	0	0
75	MP BETA3	PX	-.000237	-.000237	0	0
76	MP BETA2	PX	-.000237	-.000237	0	0
77	MP BETA4	PX	-.000237	-.000237	0	0
78	M65	PX	-1.9e-5	-1.9e-5	0	0
79	M66	PX	-1.9e-5	-1.9e-5	0	0
80	M67	PX	-1.9e-5	-1.9e-5	0	0
81	M68	PX	-1.9e-5	-1.9e-5	0	0
82	PIPE1	PX	-.000237	-.000237	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	Connect3	PY	-.000208	-.000208	0	0
2	Face1	PY	-.000208	-.000208	0	0
3	FACE3	PY	-.000416	-.000416	0	0
4	FACE2	PY	-.000416	-.000416	0	0
5	MP ALPHA1	PY	-.000237	-.000237	0	0
6	RAIL1	PY	-7.1e-5	-7.1e-5	0	0
7	RAIL3	PY	-.000142	-.000142	0	0
8	RAIL2	PY	-.000142	-.000142	0	0
9	Standoff1	PY	-.000208	-.000208	0	0
10	STANDOFF2	PY	-.000208	-.000208	0	0
11	Standoff3	PY	-.000208	-.000208	0	0
12	Support1	PY	-.000166	-.000166	0	0
13	Support2	PY	-.000166	-.000166	0	0
14	Support3	PY	-.000166	-.000166	0	0
15	Support4	PY	-.000166	-.000166	0	0
16	Support5	PY	-.000166	-.000166	0	0
17	Support6	PY	-.000166	-.000166	0	0
18	Support7	PY	-.000166	-.000166	0	0
19	Support8	PY	-.000166	-.000166	0	0
20	Support9	PY	-.000166	-.000166	0	0
21	Support10	PY	-.000166	-.000166	0	0
22	Support11	PY	-.000166	-.000166	0	0
23	Support12	PY	-.000166	-.000166	0	0
24	MP ALPHA3	PY	-.000237	-.000237	0	0
25	MP ALPHA2	PY	-.000237	-.000237	0	0
26	MP ALPHA4	PY	-.000237	-.000237	0	0
27	CONNECT2	PY	-.000208	-.000208	0	0
28	CONNECT1	PY	-.000208	-.000208	0	0
29	MP GAMMA1	PY	-.000237	-.000237	0	0
30	MP GAMMA3	PY	-.000237	-.000237	0	0
31	MP GAMMA2	PY	-.000237	-.000237	0	0
32	MP GAMMA4	PY	-.000237	-.000237	0	0
33	MP BETA1	PY	-.000237	-.000237	0	0
34	MP BETA3	PY	-.000237	-.000237	0	0
35	MP BETA2	PY	-.000237	-.000237	0	0
36	MP BETA4	PY	-.000237	-.000237	0	0
37	M65	PY	-1.9e-5	-1.9e-5	0	0
38	M66	PY	-1.9e-5	-1.9e-5	0	0
39	M67	PY	-1.9e-5	-1.9e-5	0	0
40	M68	PY	-1.9e-5	-1.9e-5	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,%]
41	PIPE1	PY	-.000237	-.000237	0	0
42	Connect3	PX	-.00036	-.00036	0	0
43	Face1	PX	-.00036	-.00036	0	0
44	FACE3	PX	-.000721	-.000721	0	0
45	FACE2	PX	-.000721	-.000721	0	0
46	MP ALPHA1	PX	-.00041	-.00041	0	0
47	RAIL1	PX	-.000123	-.000123	0	0
48	RAIL3	PX	-.000245	-.000245	0	0
49	RAIL2	PX	-.000245	-.000245	0	0
50	Standoff1	PX	-.00036	-.00036	0	0
51	STANDOFF2	PX	-.00036	-.00036	0	0
52	Standoff3	PX	-.00036	-.00036	0	0
53	Support1	PX	-.000288	-.000288	0	0
54	Support2	PX	-.000288	-.000288	0	0
55	Support3	PX	-.000288	-.000288	0	0
56	Support4	PX	-.000288	-.000288	0	0
57	Support5	PX	-.000288	-.000288	0	0
58	Support6	PX	-.000288	-.000288	0	0
59	Support7	PX	-.000288	-.000288	0	0
60	Support8	PX	-.000288	-.000288	0	0
61	Support9	PX	-.000288	-.000288	0	0
62	Support10	PX	-.000288	-.000288	0	0
63	Support11	PX	-.000288	-.000288	0	0
64	Support12	PX	-.000288	-.000288	0	0
65	MP ALPHA3	PX	-.00041	-.00041	0	0
66	MP ALPHA2	PX	-.00041	-.00041	0	0
67	MP ALPHA4	PX	-.00041	-.00041	0	0
68	CONNECT2	PX	-.00036	-.00036	0	0
69	CONNECT1	PX	-.00036	-.00036	0	0
70	MP GAMMA1	PX	-.00041	-.00041	0	0
71	MP GAMMA3	PX	-.00041	-.00041	0	0
72	MP GAMMA2	PX	-.00041	-.00041	0	0
73	MP GAMMA4	PX	-.00041	-.00041	0	0
74	MP BETA1	PX	-.00041	-.00041	0	0
75	MP BETA3	PX	-.00041	-.00041	0	0
76	MP BETA2	PX	-.00041	-.00041	0	0
77	MP BETA4	PX	-.00041	-.00041	0	0
78	M65	PX	-3.2e-5	-3.2e-5	0	0
79	M66	PX	-3.2e-5	-3.2e-5	0	0
80	M67	PX	-3.2e-5	-3.2e-5	0	0
81	M68	PX	-3.2e-5	-3.2e-5	0	0
82	PIPE1	PX	-.00041	-.00041	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	Connect3	PX	-.000416	-.000416	0	0
2	FACE2	PX	-.000416	-.000416	0	0
3	FACE3	PX	-.000832	-.000832	0	0
4	Face1	PX	-.000832	-.000832	0	0
5	MP ALPHA1	PX	-.000474	-.000474	0	0
6	RAIL2	PX	-.000142	-.000142	0	0
7	RAIL3	PX	-.000283	-.000283	0	0
8	RAIL1	PX	-.000283	-.000283	0	0
9	Standoff1	PX	-.000416	-.000416	0	0
10	STANDOFF2	PX	-.000416	-.000416	0	0
11	Standoff3	PX	-.000416	-.000416	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,%]
12	Support1	PX	-.000333	-.000333	0	0
13	Support2	PX	-.000333	-.000333	0	0
14	Support3	PX	-.000333	-.000333	0	0
15	Support4	PX	-.000333	-.000333	0	0
16	Support5	PX	-.000333	-.000333	0	0
17	Support6	PX	-.000333	-.000333	0	0
18	Support7	PX	-.000333	-.000333	0	0
19	Support8	PX	-.000333	-.000333	0	0
20	Support9	PX	-.000333	-.000333	0	0
21	Support10	PX	-.000333	-.000333	0	0
22	Support11	PX	-.000333	-.000333	0	0
23	Support12	PX	-.000333	-.000333	0	0
24	MP ALPHA3	PX	-.000474	-.000474	0	0
25	MP ALPHA2	PX	-.000474	-.000474	0	0
26	MP ALPHA4	PX	-.000474	-.000474	0	0
27	CONNECT2	PX	-.000416	-.000416	0	0
28	CONNECT1	PX	-.000416	-.000416	0	0
29	MP GAMMA1	PX	-.000474	-.000474	0	0
30	MP GAMMA3	PX	-.000474	-.000474	0	0
31	MP GAMMA2	PX	-.000474	-.000474	0	0
32	MP GAMMA4	PX	-.000474	-.000474	0	0
33	MP BETA1	PX	-.000474	-.000474	0	0
34	MP BETA3	PX	-.000474	-.000474	0	0
35	MP BETA2	PX	-.000474	-.000474	0	0
36	MP BETA4	PX	-.000474	-.000474	0	0
37	M65	PX	-3.7e-5	-3.7e-5	0	0
38	M66	PX	-3.7e-5	-3.7e-5	0	0
39	M67	PX	-3.7e-5	-3.7e-5	0	0
40	M68	PX	-3.7e-5	-3.7e-5	0	0
41	PIPE1	PX	-.000474	-.000474	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	Connect3	PY	.000208	.000208	0	0
2	FACE2	PY	.000208	.000208	0	0
3	FACE3	PY	.000416	.000416	0	0
4	Face1	PY	.000416	.000416	0	0
5	MP ALPHA1	PY	.000237	.000237	0	0
6	RAIL2	PY	7.1e-5	7.1e-5	0	0
7	RAIL3	PY	.000142	.000142	0	0
8	RAIL1	PY	.000142	.000142	0	0
9	Standoff1	PY	.000208	.000208	0	0
10	STANDOFF2	PY	.000208	.000208	0	0
11	Standoff3	PY	.000208	.000208	0	0
12	Support1	PY	.000166	.000166	0	0
13	Support2	PY	.000166	.000166	0	0
14	Support3	PY	.000166	.000166	0	0
15	Support4	PY	.000166	.000166	0	0
16	Support5	PY	.000166	.000166	0	0
17	Support6	PY	.000166	.000166	0	0
18	Support7	PY	.000166	.000166	0	0
19	Support8	PY	.000166	.000166	0	0
20	Support9	PY	.000166	.000166	0	0
21	Support10	PY	.000166	.000166	0	0
22	Support11	PY	.000166	.000166	0	0
23	Support12	PY	.000166	.000166	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,%]
24	MP ALPHA3	PY	.000237	.000237	0	0
25	MP ALPHA2	PY	.000237	.000237	0	0
26	MP ALPHA4	PY	.000237	.000237	0	0
27	CONNECT2	PY	.000208	.000208	0	0
28	CONNECT1	PY	.000208	.000208	0	0
29	MP GAMMA1	PY	.000237	.000237	0	0
30	MP GAMMA3	PY	.000237	.000237	0	0
31	MP GAMMA2	PY	.000237	.000237	0	0
32	MP GAMMA4	PY	.000237	.000237	0	0
33	MP BETA1	PY	.000237	.000237	0	0
34	MP BETA3	PY	.000237	.000237	0	0
35	MP BETA2	PY	.000237	.000237	0	0
36	MP BETA4	PY	.000237	.000237	0	0
37	M65	PY	1.9e-5	1.9e-5	0	0
38	M66	PY	1.9e-5	1.9e-5	0	0
39	M67	PY	1.9e-5	1.9e-5	0	0
40	M68	PY	1.9e-5	1.9e-5	0	0
41	PIPE1	PY	.000237	.000237	0	0
42	Connect3	PX	-.00036	-.00036	0	0
43	FACE2	PX	-.00036	-.00036	0	0
44	FACE3	PX	-.000721	-.000721	0	0
45	Face1	PX	-.000721	-.000721	0	0
46	MP ALPHA1	PX	-.00041	-.00041	0	0
47	RAIL2	PX	-.000123	-.000123	0	0
48	RAIL3	PX	-.000245	-.000245	0	0
49	RAIL1	PX	-.000245	-.000245	0	0
50	Standoff1	PX	-.00036	-.00036	0	0
51	STANDOFF2	PX	-.00036	-.00036	0	0
52	Standoff3	PX	-.00036	-.00036	0	0
53	Support1	PX	-.000288	-.000288	0	0
54	Support2	PX	-.000288	-.000288	0	0
55	Support3	PX	-.000288	-.000288	0	0
56	Support4	PX	-.000288	-.000288	0	0
57	Support5	PX	-.000288	-.000288	0	0
58	Support6	PX	-.000288	-.000288	0	0
59	Support7	PX	-.000288	-.000288	0	0
60	Support8	PX	-.000288	-.000288	0	0
61	Support9	PX	-.000288	-.000288	0	0
62	Support10	PX	-.000288	-.000288	0	0
63	Support11	PX	-.000288	-.000288	0	0
64	Support12	PX	-.000288	-.000288	0	0
65	MP ALPHA3	PX	-.00041	-.00041	0	0
66	MP ALPHA2	PX	-.00041	-.00041	0	0
67	MP ALPHA4	PX	-.00041	-.00041	0	0
68	CONNECT2	PX	-.00036	-.00036	0	0
69	CONNECT1	PX	-.00036	-.00036	0	0
70	MP GAMMA1	PX	-.00041	-.00041	0	0
71	MP GAMMA3	PX	-.00041	-.00041	0	0
72	MP GAMMA2	PX	-.00041	-.00041	0	0
73	MP GAMMA4	PX	-.00041	-.00041	0	0
74	MP BETA1	PX	-.00041	-.00041	0	0
75	MP BETA3	PX	-.00041	-.00041	0	0
76	MP BETA2	PX	-.00041	-.00041	0	0
77	MP BETA4	PX	-.00041	-.00041	0	0
78	M65	PX	-3.2e-5	-3.2e-5	0	0
79	M66	PX	-3.2e-5	-3.2e-5	0	0
80	M67	PX	-3.2e-5	-3.2e-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,%]
81	M68	PX	-3.2e-5	-3.2e-5	0	0
82	PIPE1	PX	-.00041	-.00041	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	Connect3	PY	.00036	.00036	0	0
2	FACE2	PY	.00036	.00036	0	0
3	FACE3	PY	.000721	.000721	0	0
4	Face1	PY	.000721	.000721	0	0
5	MP ALPHA1	PY	.00041	.00041	0	0
6	RAIL2	PY	.000123	.000123	0	0
7	RAIL3	PY	.000245	.000245	0	0
8	RAIL1	PY	.000245	.000245	0	0
9	Standoff1	PY	.00036	.00036	0	0
10	STANDOFF2	PY	.00036	.00036	0	0
11	Standoff3	PY	.00036	.00036	0	0
12	Support1	PY	.000288	.000288	0	0
13	Support2	PY	.000288	.000288	0	0
14	Support3	PY	.000288	.000288	0	0
15	Support4	PY	.000288	.000288	0	0
16	Support5	PY	.000288	.000288	0	0
17	Support6	PY	.000288	.000288	0	0
18	Support7	PY	.000288	.000288	0	0
19	Support8	PY	.000288	.000288	0	0
20	Support9	PY	.000288	.000288	0	0
21	Support10	PY	.000288	.000288	0	0
22	Support11	PY	.000288	.000288	0	0
23	Support12	PY	.000288	.000288	0	0
24	MP ALPHA3	PY	.00041	.00041	0	0
25	MP ALPHA2	PY	.00041	.00041	0	0
26	MP ALPHA4	PY	.00041	.00041	0	0
27	CONNECT2	PY	.00036	.00036	0	0
28	CONNECT1	PY	.00036	.00036	0	0
29	MP GAMMA1	PY	.00041	.00041	0	0
30	MP GAMMA3	PY	.00041	.00041	0	0
31	MP GAMMA2	PY	.00041	.00041	0	0
32	MP GAMMA4	PY	.00041	.00041	0	0
33	MP BETA1	PY	.00041	.00041	0	0
34	MP BETA3	PY	.00041	.00041	0	0
35	MP BETA2	PY	.00041	.00041	0	0
36	MP BETA4	PY	.00041	.00041	0	0
37	M65	PY	3.2e-5	3.2e-5	0	0
38	M66	PY	3.2e-5	3.2e-5	0	0
39	M67	PY	3.2e-5	3.2e-5	0	0
40	M68	PY	3.2e-5	3.2e-5	0	0
41	PIPE1	PY	.00041	.00041	0	0
42	Connect3	PX	-.000208	-.000208	0	0
43	FACE2	PX	-.000208	-.000208	0	0
44	FACE3	PX	-.000416	-.000416	0	0
45	Face1	PX	-.000416	-.000416	0	0
46	MP ALPHA1	PX	-.000237	-.000237	0	0
47	RAIL2	PX	-7.1e-5	-7.1e-5	0	0
48	RAIL3	PX	-.000142	-.000142	0	0
49	RAIL1	PX	-.000142	-.000142	0	0
50	Standoff1	PX	-.000208	-.000208	0	0
51	STANDOFF2	PX	-.000208	-.000208	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,%]
52	Standoff3	PX	-.000208	-.000208	0	0
53	Support1	PX	-.000166	-.000166	0	0
54	Support2	PX	-.000166	-.000166	0	0
55	Support3	PX	-.000166	-.000166	0	0
56	Support4	PX	-.000166	-.000166	0	0
57	Support5	PX	-.000166	-.000166	0	0
58	Support6	PX	-.000166	-.000166	0	0
59	Support7	PX	-.000166	-.000166	0	0
60	Support8	PX	-.000166	-.000166	0	0
61	Support9	PX	-.000166	-.000166	0	0
62	Support10	PX	-.000166	-.000166	0	0
63	Support11	PX	-.000166	-.000166	0	0
64	Support12	PX	-.000166	-.000166	0	0
65	MP ALPHA3	PX	-.000237	-.000237	0	0
66	MP ALPHA2	PX	-.000237	-.000237	0	0
67	MP ALPHA4	PX	-.000237	-.000237	0	0
68	CONNECT2	PX	-.000208	-.000208	0	0
69	CONNECT1	PX	-.000208	-.000208	0	0
70	MP GAMMA1	PX	-.000237	-.000237	0	0
71	MP GAMMA3	PX	-.000237	-.000237	0	0
72	MP GAMMA2	PX	-.000237	-.000237	0	0
73	MP GAMMA4	PX	-.000237	-.000237	0	0
74	MP BETA1	PX	-.000237	-.000237	0	0
75	MP BETA3	PX	-.000237	-.000237	0	0
76	MP BETA2	PX	-.000237	-.000237	0	0
77	MP BETA4	PX	-.000237	-.000237	0	0
78	M65	PX	-1.9e-5	-1.9e-5	0	0
79	M66	PX	-1.9e-5	-1.9e-5	0	0
80	M67	PX	-1.9e-5	-1.9e-5	0	0
81	M68	PX	-1.9e-5	-1.9e-5	0	0
82	PIPE1	PX	-.000237	-.000237	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	Connect3	PY	.000416	.000416	0	0
2	FACE2	PY	.000416	.000416	0	0
3	FACE3	PY	.000832	.000832	0	0
4	Face1	PY	.000832	.000832	0	0
5	MP ALPHA1	PY	.000474	.000474	0	0
6	RAIL2	PY	.000142	.000142	0	0
7	RAIL3	PY	.000283	.000283	0	0
8	RAIL1	PY	.000283	.000283	0	0
9	Standoff1	PY	.000416	.000416	0	0
10	STANDOFF2	PY	.000416	.000416	0	0
11	Standoff3	PY	.000416	.000416	0	0
12	Support1	PY	.000333	.000333	0	0
13	Support2	PY	.000333	.000333	0	0
14	Support3	PY	.000333	.000333	0	0
15	Support4	PY	.000333	.000333	0	0
16	Support5	PY	.000333	.000333	0	0
17	Support6	PY	.000333	.000333	0	0
18	Support7	PY	.000333	.000333	0	0
19	Support8	PY	.000333	.000333	0	0
20	Support9	PY	.000333	.000333	0	0
21	Support10	PY	.000333	.000333	0	0
22	Support11	PY	.000333	.000333	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,%]
23	Support12	PY	.000333	.000333	0	0
24	MP ALPHA3	PY	.000474	.000474	0	0
25	MP ALPHA2	PY	.000474	.000474	0	0
26	MP ALPHA4	PY	.000474	.000474	0	0
27	CONNECT2	PY	.000416	.000416	0	0
28	CONNECT1	PY	.000416	.000416	0	0
29	MP GAMMA1	PY	.000474	.000474	0	0
30	MP GAMMA3	PY	.000474	.000474	0	0
31	MP GAMMA2	PY	.000474	.000474	0	0
32	MP GAMMA4	PY	.000474	.000474	0	0
33	MP BETA1	PY	.000474	.000474	0	0
34	MP BETA3	PY	.000474	.000474	0	0
35	MP BETA2	PY	.000474	.000474	0	0
36	MP BETA4	PY	.000474	.000474	0	0
37	M65	PY	3.7e-5	3.7e-5	0	0
38	M66	PY	3.7e-5	3.7e-5	0	0
39	M67	PY	3.7e-5	3.7e-5	0	0
40	M68	PY	3.7e-5	3.7e-5	0	0
41	PIPE1	PY	.000474	.000474	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	Connect3	PY	.00036	.00036	0	0
2	FACE3	PY	.00036	.00036	0	0
3	Face1	PY	.000721	.000721	0	0
4	FACE2	PY	.000721	.000721	0	0
5	MP ALPHA1	PY	.00041	.00041	0	0
6	RAIL3	PY	.000123	.000123	0	0
7	RAIL1	PY	.000245	.000245	0	0
8	RAIL2	PY	.000245	.000245	0	0
9	Standoff1	PY	.00036	.00036	0	0
10	STANDOFF2	PY	.00036	.00036	0	0
11	Standoff3	PY	.00036	.00036	0	0
12	Support1	PY	.000288	.000288	0	0
13	Support2	PY	.000288	.000288	0	0
14	Support3	PY	.000288	.000288	0	0
15	Support4	PY	.000288	.000288	0	0
16	Support5	PY	.000288	.000288	0	0
17	Support6	PY	.000288	.000288	0	0
18	Support7	PY	.000288	.000288	0	0
19	Support8	PY	.000288	.000288	0	0
20	Support9	PY	.000288	.000288	0	0
21	Support10	PY	.000288	.000288	0	0
22	Support11	PY	.000288	.000288	0	0
23	Support12	PY	.000288	.000288	0	0
24	MP ALPHA3	PY	.00041	.00041	0	0
25	MP ALPHA2	PY	.00041	.00041	0	0
26	MP ALPHA4	PY	.00041	.00041	0	0
27	CONNECT2	PY	.00036	.00036	0	0
28	CONNECT1	PY	.00036	.00036	0	0
29	MP GAMMA1	PY	.00041	.00041	0	0
30	MP GAMMA3	PY	.00041	.00041	0	0
31	MP GAMMA2	PY	.00041	.00041	0	0
32	MP GAMMA4	PY	.00041	.00041	0	0
33	MP BETA1	PY	.00041	.00041	0	0
34	MP BETA3	PY	.00041	.00041	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,%]
35	MP BETA2	PY	.00041	.00041	0	0
36	MP BETA4	PY	.00041	.00041	0	0
37	M65	PY	3.2e-5	3.2e-5	0	0
38	M66	PY	3.2e-5	3.2e-5	0	0
39	M67	PY	3.2e-5	3.2e-5	0	0
40	M68	PY	3.2e-5	3.2e-5	0	0
41	PIPE1	PY	.00041	.00041	0	0
42	Connect3	PX	.000208	.000208	0	0
43	FACE3	PX	.000208	.000208	0	0
44	Face1	PX	.000416	.000416	0	0
45	FACE2	PX	.000416	.000416	0	0
46	MP ALPHA1	PX	.000237	.000237	0	0
47	RAIL3	PX	7.1e-5	7.1e-5	0	0
48	RAIL1	PX	.000142	.000142	0	0
49	RAIL2	PX	.000142	.000142	0	0
50	Standoff1	PX	.000208	.000208	0	0
51	STANDOFF2	PX	.000208	.000208	0	0
52	Standoff3	PX	.000208	.000208	0	0
53	Support1	PX	.000166	.000166	0	0
54	Support2	PX	.000166	.000166	0	0
55	Support3	PX	.000166	.000166	0	0
56	Support4	PX	.000166	.000166	0	0
57	Support5	PX	.000166	.000166	0	0
58	Support6	PX	.000166	.000166	0	0
59	Support7	PX	.000166	.000166	0	0
60	Support8	PX	.000166	.000166	0	0
61	Support9	PX	.000166	.000166	0	0
62	Support10	PX	.000166	.000166	0	0
63	Support11	PX	.000166	.000166	0	0
64	Support12	PX	.000166	.000166	0	0
65	MP ALPHA3	PX	.000237	.000237	0	0
66	MP ALPHA2	PX	.000237	.000237	0	0
67	MP ALPHA4	PX	.000237	.000237	0	0
68	CONNECT2	PX	.000208	.000208	0	0
69	CONNECT1	PX	.000208	.000208	0	0
70	MP GAMMA1	PX	.000237	.000237	0	0
71	MP GAMMA3	PX	.000237	.000237	0	0
72	MP GAMMA2	PX	.000237	.000237	0	0
73	MP GAMMA4	PX	.000237	.000237	0	0
74	MP BETA1	PX	.000237	.000237	0	0
75	MP BETA3	PX	.000237	.000237	0	0
76	MP BETA2	PX	.000237	.000237	0	0
77	MP BETA4	PX	.000237	.000237	0	0
78	M65	PX	1.9e-5	1.9e-5	0	0
79	M66	PX	1.9e-5	1.9e-5	0	0
80	M67	PX	1.9e-5	1.9e-5	0	0
81	M68	PX	1.9e-5	1.9e-5	0	0
82	PIPE1	PX	.000237	.000237	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	Connect3	PY	.000208	.000208	0	0
2	FACE3	PY	.000208	.000208	0	0
3	Face1	PY	.000416	.000416	0	0
4	FACE2	PY	.000416	.000416	0	0
5	MP ALPHA1	PY	.000237	.000237	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,%]
6	RAIL3	PY	7.1e-5	7.1e-5	0	0
7	RAIL1	PY	.000142	.000142	0	0
8	RAIL2	PY	.000142	.000142	0	0
9	Standoff1	PY	.000208	.000208	0	0
10	STANDOFF2	PY	.000208	.000208	0	0
11	Standoff3	PY	.000208	.000208	0	0
12	Support1	PY	.000166	.000166	0	0
13	Support2	PY	.000166	.000166	0	0
14	Support3	PY	.000166	.000166	0	0
15	Support4	PY	.000166	.000166	0	0
16	Support5	PY	.000166	.000166	0	0
17	Support6	PY	.000166	.000166	0	0
18	Support7	PY	.000166	.000166	0	0
19	Support8	PY	.000166	.000166	0	0
20	Support9	PY	.000166	.000166	0	0
21	Support10	PY	.000166	.000166	0	0
22	Support11	PY	.000166	.000166	0	0
23	Support12	PY	.000166	.000166	0	0
24	MP ALPHA3	PY	.000237	.000237	0	0
25	MP ALPHA2	PY	.000237	.000237	0	0
26	MP ALPHA4	PY	.000237	.000237	0	0
27	CONNECT2	PY	.000208	.000208	0	0
28	CONNECT1	PY	.000208	.000208	0	0
29	MP GAMMA1	PY	.000237	.000237	0	0
30	MP GAMMA3	PY	.000237	.000237	0	0
31	MP GAMMA2	PY	.000237	.000237	0	0
32	MP GAMMA4	PY	.000237	.000237	0	0
33	MP BETA1	PY	.000237	.000237	0	0
34	MP BETA3	PY	.000237	.000237	0	0
35	MP BETA2	PY	.000237	.000237	0	0
36	MP BETA4	PY	.000237	.000237	0	0
37	M65	PY	1.9e-5	1.9e-5	0	0
38	M66	PY	1.9e-5	1.9e-5	0	0
39	M67	PY	1.9e-5	1.9e-5	0	0
40	M68	PY	1.9e-5	1.9e-5	0	0
41	PIPE1	PY	.000237	.000237	0	0
42	Connect3	PX	.00036	.00036	0	0
43	FACE3	PX	.00036	.00036	0	0
44	Face1	PX	.000721	.000721	0	0
45	FACE2	PX	.000721	.000721	0	0
46	MP ALPHA1	PX	.00041	.00041	0	0
47	RAIL3	PX	.000123	.000123	0	0
48	RAIL1	PX	.000245	.000245	0	0
49	RAIL2	PX	.000245	.000245	0	0
50	Standoff1	PX	.00036	.00036	0	0
51	STANDOFF2	PX	.00036	.00036	0	0
52	Standoff3	PX	.00036	.00036	0	0
53	Support1	PX	.000288	.000288	0	0
54	Support2	PX	.000288	.000288	0	0
55	Support3	PX	.000288	.000288	0	0
56	Support4	PX	.000288	.000288	0	0
57	Support5	PX	.000288	.000288	0	0
58	Support6	PX	.000288	.000288	0	0
59	Support7	PX	.000288	.000288	0	0
60	Support8	PX	.000288	.000288	0	0
61	Support9	PX	.000288	.000288	0	0
62	Support10	PX	.000288	.000288	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,%]
63	Support11	PX	.000288	.000288	0	0
64	Support12	PX	.000288	.000288	0	0
65	MP ALPHA3	PX	.00041	.00041	0	0
66	MP ALPHA2	PX	.00041	.00041	0	0
67	MP ALPHA4	PX	.00041	.00041	0	0
68	CONNECT2	PX	.00036	.00036	0	0
69	CONNECT1	PX	.00036	.00036	0	0
70	MP GAMMA1	PX	.00041	.00041	0	0
71	MP GAMMA3	PX	.00041	.00041	0	0
72	MP GAMMA2	PX	.00041	.00041	0	0
73	MP GAMMA4	PX	.00041	.00041	0	0
74	MP BETA1	PX	.00041	.00041	0	0
75	MP BETA3	PX	.00041	.00041	0	0
76	MP BETA2	PX	.00041	.00041	0	0
77	MP BETA4	PX	.00041	.00041	0	0
78	M65	PX	3.2e-5	3.2e-5	0	0
79	M66	PX	3.2e-5	3.2e-5	0	0
80	M67	PX	3.2e-5	3.2e-5	0	0
81	M68	PX	3.2e-5	3.2e-5	0	0
82	PIPE1	PX	.00041	.00041	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	Connect3	PX	.000416	.000416	0	0
2	FACE3	PX	.000416	.000416	0	0
3	Face1	PX	.000832	.000832	0	0
4	FACE2	PX	.000832	.000832	0	0
5	MP ALPHA1	PX	.000474	.000474	0	0
6	RAIL3	PX	.000142	.000142	0	0
7	RAIL1	PX	.000283	.000283	0	0
8	RAIL2	PX	.000283	.000283	0	0
9	Standoff1	PX	.000416	.000416	0	0
10	STANDOFF2	PX	.000416	.000416	0	0
11	Standoff3	PX	.000416	.000416	0	0
12	Support1	PX	.000333	.000333	0	0
13	Support2	PX	.000333	.000333	0	0
14	Support3	PX	.000333	.000333	0	0
15	Support4	PX	.000333	.000333	0	0
16	Support5	PX	.000333	.000333	0	0
17	Support6	PX	.000333	.000333	0	0
18	Support7	PX	.000333	.000333	0	0
19	Support8	PX	.000333	.000333	0	0
20	Support9	PX	.000333	.000333	0	0
21	Support10	PX	.000333	.000333	0	0
22	Support11	PX	.000333	.000333	0	0
23	Support12	PX	.000333	.000333	0	0
24	MP ALPHA3	PX	.000474	.000474	0	0
25	MP ALPHA2	PX	.000474	.000474	0	0
26	MP ALPHA4	PX	.000474	.000474	0	0
27	CONNECT2	PX	.000416	.000416	0	0
28	CONNECT1	PX	.000416	.000416	0	0
29	MP GAMMA1	PX	.000474	.000474	0	0
30	MP GAMMA3	PX	.000474	.000474	0	0
31	MP GAMMA2	PX	.000474	.000474	0	0
32	MP GAMMA4	PX	.000474	.000474	0	0
33	MP BETA1	PX	.000474	.000474	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	MP BETA3	PX	.000474	.000474	0	0
35	MP BETA2	PX	.000474	.000474	0	0
36	MP BETA4	PX	.000474	.000474	0	0
37	M65	PX	3.7e-5	3.7e-5	0	0
38	M66	PX	3.7e-5	3.7e-5	0	0
39	M67	PX	3.7e-5	3.7e-5	0	0
40	M68	PX	3.7e-5	3.7e-5	0	0
41	PIPE1	PX	.000474	.000474	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	Connect3	PY	-.000208	-.000208	0	0
2	FACE3	PY	-.000208	-.000208	0	0
3	Face1	PY	-.000416	-.000416	0	0
4	FACE2	PY	-.000416	-.000416	0	0
5	MP ALPHA1	PY	-.000237	-.000237	0	0
6	RAIL3	PY	-7.1e-5	-7.1e-5	0	0
7	RAIL1	PY	-.000142	-.000142	0	0
8	RAIL2	PY	-.000142	-.000142	0	0
9	Standoff1	PY	-.000208	-.000208	0	0
10	STANDOFF2	PY	-.000208	-.000208	0	0
11	Standoff3	PY	-.000208	-.000208	0	0
12	Support1	PY	-.000166	-.000166	0	0
13	Support2	PY	-.000166	-.000166	0	0
14	Support3	PY	-.000166	-.000166	0	0
15	Support4	PY	-.000166	-.000166	0	0
16	Support5	PY	-.000166	-.000166	0	0
17	Support6	PY	-.000166	-.000166	0	0
18	Support7	PY	-.000166	-.000166	0	0
19	Support8	PY	-.000166	-.000166	0	0
20	Support9	PY	-.000166	-.000166	0	0
21	Support10	PY	-.000166	-.000166	0	0
22	Support11	PY	-.000166	-.000166	0	0
23	Support12	PY	-.000166	-.000166	0	0
24	MP ALPHA3	PY	-.000237	-.000237	0	0
25	MP ALPHA2	PY	-.000237	-.000237	0	0
26	MP ALPHA4	PY	-.000237	-.000237	0	0
27	CONNECT2	PY	-.000208	-.000208	0	0
28	CONNECT1	PY	-.000208	-.000208	0	0
29	MP GAMMA1	PY	-.000237	-.000237	0	0
30	MP GAMMA3	PY	-.000237	-.000237	0	0
31	MP GAMMA2	PY	-.000237	-.000237	0	0
32	MP GAMMA4	PY	-.000237	-.000237	0	0
33	MP BETA1	PY	-.000237	-.000237	0	0
34	MP BETA3	PY	-.000237	-.000237	0	0
35	MP BETA2	PY	-.000237	-.000237	0	0
36	MP BETA4	PY	-.000237	-.000237	0	0
37	M65	PY	-1.9e-5	-1.9e-5	0	0
38	M66	PY	-1.9e-5	-1.9e-5	0	0
39	M67	PY	-1.9e-5	-1.9e-5	0	0
40	M68	PY	-1.9e-5	-1.9e-5	0	0
41	PIPE1	PY	-.000237	-.000237	0	0
42	Connect3	PX	.00036	.00036	0	0
43	FACE3	PX	.00036	.00036	0	0
44	Face1	PX	.000721	.000721	0	0
45	FACE2	PX	.000721	.000721	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,%]
46	MP ALPHA1	PX	.00041	.00041	0	0
47	RAIL3	PX	.000123	.000123	0	0
48	RAIL1	PX	.000245	.000245	0	0
49	RAIL2	PX	.000245	.000245	0	0
50	Standoff1	PX	.00036	.00036	0	0
51	STANDOFF2	PX	.00036	.00036	0	0
52	Standoff3	PX	.00036	.00036	0	0
53	Support1	PX	.000288	.000288	0	0
54	Support2	PX	.000288	.000288	0	0
55	Support3	PX	.000288	.000288	0	0
56	Support4	PX	.000288	.000288	0	0
57	Support5	PX	.000288	.000288	0	0
58	Support6	PX	.000288	.000288	0	0
59	Support7	PX	.000288	.000288	0	0
60	Support8	PX	.000288	.000288	0	0
61	Support9	PX	.000288	.000288	0	0
62	Support10	PX	.000288	.000288	0	0
63	Support11	PX	.000288	.000288	0	0
64	Support12	PX	.000288	.000288	0	0
65	MP ALPHA3	PX	.00041	.00041	0	0
66	MP ALPHA2	PX	.00041	.00041	0	0
67	MP ALPHA4	PX	.00041	.00041	0	0
68	CONNECT2	PX	.00036	.00036	0	0
69	CONNECT1	PX	.00036	.00036	0	0
70	MP GAMMA1	PX	.00041	.00041	0	0
71	MP GAMMA3	PX	.00041	.00041	0	0
72	MP GAMMA2	PX	.00041	.00041	0	0
73	MP GAMMA4	PX	.00041	.00041	0	0
74	MP BETA1	PX	.00041	.00041	0	0
75	MP BETA3	PX	.00041	.00041	0	0
76	MP BETA2	PX	.00041	.00041	0	0
77	MP BETA4	PX	.00041	.00041	0	0
78	M65	PX	3.2e-5	3.2e-5	0	0
79	M66	PX	3.2e-5	3.2e-5	0	0
80	M67	PX	3.2e-5	3.2e-5	0	0
81	M68	PX	3.2e-5	3.2e-5	0	0
82	PIPE1	PX	.00041	.00041	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	Connect3	PY	-.00036	-.00036	0	0
2	Face1	PY	-.00036	-.00036	0	0
3	FACE3	PY	-.000721	-.000721	0	0
4	FACE2	PY	-.000721	-.000721	0	0
5	MP ALPHA1	PY	-.00041	-.00041	0	0
6	RAIL1	PY	-.000123	-.000123	0	0
7	RAIL3	PY	-.000245	-.000245	0	0
8	RAIL2	PY	-.000245	-.000245	0	0
9	Standoff1	PY	-.00036	-.00036	0	0
10	STANDOFF2	PY	-.00036	-.00036	0	0
11	Standoff3	PY	-.00036	-.00036	0	0
12	Support1	PY	-.000288	-.000288	0	0
13	Support2	PY	-.000288	-.000288	0	0
14	Support3	PY	-.000288	-.000288	0	0
15	Support4	PY	-.000288	-.000288	0	0
16	Support5	PY	-.000288	-.000288	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,%]
17	Support6	PY	-.000288	-.000288	0	0
18	Support7	PY	-.000288	-.000288	0	0
19	Support8	PY	-.000288	-.000288	0	0
20	Support9	PY	-.000288	-.000288	0	0
21	Support10	PY	-.000288	-.000288	0	0
22	Support11	PY	-.000288	-.000288	0	0
23	Support12	PY	-.000288	-.000288	0	0
24	MP ALPHA3	PY	-.00041	-.00041	0	0
25	MP ALPHA2	PY	-.00041	-.00041	0	0
26	MP ALPHA4	PY	-.00041	-.00041	0	0
27	CONNECT2	PY	-.00036	-.00036	0	0
28	CONNECT1	PY	-.00036	-.00036	0	0
29	MP GAMMA1	PY	-.00041	-.00041	0	0
30	MP GAMMA3	PY	-.00041	-.00041	0	0
31	MP GAMMA2	PY	-.00041	-.00041	0	0
32	MP GAMMA4	PY	-.00041	-.00041	0	0
33	MP BETA1	PY	-.00041	-.00041	0	0
34	MP BETA3	PY	-.00041	-.00041	0	0
35	MP BETA2	PY	-.00041	-.00041	0	0
36	MP BETA4	PY	-.00041	-.00041	0	0
37	M65	PY	-3.2e-5	-3.2e-5	0	0
38	M66	PY	-3.2e-5	-3.2e-5	0	0
39	M67	PY	-3.2e-5	-3.2e-5	0	0
40	M68	PY	-3.2e-5	-3.2e-5	0	0
41	PIPE1	PY	-.00041	-.00041	0	0
42	Connect3	PX	.000208	.000208	0	0
43	Face1	PX	.000208	.000208	0	0
44	FACE3	PX	.000416	.000416	0	0
45	FACE2	PX	.000416	.000416	0	0
46	MP ALPHA1	PX	.000237	.000237	0	0
47	RAIL1	PX	7.1e-5	7.1e-5	0	0
48	RAIL3	PX	.000142	.000142	0	0
49	RAIL2	PX	.000142	.000142	0	0
50	Standoff1	PX	.000208	.000208	0	0
51	STANDOFF2	PX	.000208	.000208	0	0
52	Standoff3	PX	.000208	.000208	0	0
53	Support1	PX	.000166	.000166	0	0
54	Support2	PX	.000166	.000166	0	0
55	Support3	PX	.000166	.000166	0	0
56	Support4	PX	.000166	.000166	0	0
57	Support5	PX	.000166	.000166	0	0
58	Support6	PX	.000166	.000166	0	0
59	Support7	PX	.000166	.000166	0	0
60	Support8	PX	.000166	.000166	0	0
61	Support9	PX	.000166	.000166	0	0
62	Support10	PX	.000166	.000166	0	0
63	Support11	PX	.000166	.000166	0	0
64	Support12	PX	.000166	.000166	0	0
65	MP ALPHA3	PX	.000237	.000237	0	0
66	MP ALPHA2	PX	.000237	.000237	0	0
67	MP ALPHA4	PX	.000237	.000237	0	0
68	CONNECT2	PX	.000208	.000208	0	0
69	CONNECT1	PX	.000208	.000208	0	0
70	MP GAMMA1	PX	.000237	.000237	0	0
71	MP GAMMA3	PX	.000237	.000237	0	0
72	MP GAMMA2	PX	.000237	.000237	0	0
73	MP GAMMA4	PX	.000237	.000237	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,%]
74	MP BETA1	PX	.000237	.000237	0	0
75	MP BETA3	PX	.000237	.000237	0	0
76	MP BETA2	PX	.000237	.000237	0	0
77	MP BETA4	PX	.000237	.000237	0	0
78	M65	PX	1.9e-5	1.9e-5	0	0
79	M66	PX	1.9e-5	1.9e-5	0	0
80	M67	PX	1.9e-5	1.9e-5	0	0
81	M68	PX	1.9e-5	1.9e-5	0	0
82	PIPE1	PX	.000237	.000237	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	Connect3	Z	-.006	-.006	0	0
2	Face1	Z	-.009	-.009	0	0
3	FACE3	Z	-.009	-.009	0	0
4	FACE2	Z	-.009	-.009	0	0
5	MP ALPHA1	Z	-.005	-.005	0	0
6	RAIL1	Z	-.005	-.005	0	0
7	RAIL3	Z	-.005	-.005	0	0
8	RAIL2	Z	-.005	-.005	0	0
9	Standoff1	Z	-.009	-.009	0	0
10	STANDOFF2	Z	-.009	-.009	0	0
11	Standoff3	Z	-.009	-.009	0	0
12	Support1	Z	-.005	-.005	0	0
13	Support2	Z	-.005	-.005	0	0
14	Support3	Z	-.005	-.005	0	0
15	Support4	Z	-.005	-.005	0	0
16	Support5	Z	-.005	-.005	0	0
17	Support6	Z	-.005	-.005	0	0
18	Support7	Z	-.005	-.005	0	0
19	Support8	Z	-.005	-.005	0	0
20	Support9	Z	-.005	-.005	0	0
21	Support10	Z	-.005	-.005	0	0
22	Support11	Z	-.005	-.005	0	0
23	Support12	Z	-.005	-.005	0	0
24	MP ALPHA3	Z	-.005	-.005	0	0
25	MP ALPHA2	Z	-.005	-.005	0	0
26	MP ALPHA4	Z	-.005	-.005	0	0
27	CONNECT2	Z	-.006	-.006	0	0
28	CONNECT1	Z	-.006	-.006	0	0
29	MP GAMMA1	Z	-.005	-.005	0	0
30	MP GAMMA3	Z	-.005	-.005	0	0
31	MP GAMMA2	Z	-.005	-.005	0	0
32	MP GAMMA4	Z	-.005	-.005	0	0
33	MP BETA1	Z	-.005	-.005	0	0
34	MP BETA3	Z	-.005	-.005	0	0
35	MP BETA2	Z	-.005	-.005	0	0
36	MP BETA4	Z	-.005	-.005	0	0
37	M65	Z	-.002	-.002	0	0
38	M66	Z	-.002	-.002	0	0
39	M67	Z	-.002	-.002	0	0
40	M68	Z	-.002	-.002	0	0
41	PIPE1	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,%]

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,%]
1	Connect3	PY	-.001	-.001	0	0
2	Face1	PY	-.001	-.001	0	0
3	FACE3	PY	-.002	-.002	0	0
4	FACE2	PY	-.002	-.002	0	0
5	MP ALPHA1	PY	-.003	-.003	0	0
6	RAIL1	PY	-.000859	-.000859	0	0
7	RAIL3	PY	-.002	-.002	0	0
8	RAIL2	PY	-.002	-.002	0	0
9	Standoff1	PY	-.001	-.001	0	0
10	STANDOFF2	PY	-.001	-.001	0	0
11	Standoff3	PY	-.001	-.001	0	0
12	Support1	PY	-.001	-.001	0	0
13	Support2	PY	-.001	-.001	0	0
14	Support3	PY	-.001	-.001	0	0
15	Support4	PY	-.001	-.001	0	0
16	Support5	PY	-.001	-.001	0	0
17	Support6	PY	-.001	-.001	0	0
18	Support7	PY	-.001	-.001	0	0
19	Support8	PY	-.001	-.001	0	0
20	Support9	PY	-.001	-.001	0	0
21	Support10	PY	-.001	-.001	0	0
22	Support11	PY	-.001	-.001	0	0
23	Support12	PY	-.001	-.001	0	0
24	MP ALPHA3	PY	-.003	-.003	0	0
25	MP ALPHA2	PY	-.003	-.003	0	0
26	MP ALPHA4	PY	-.003	-.003	0	0
27	CONNECT2	PY	-.001	-.001	0	0
28	CONNECT1	PY	-.001	-.001	0	0
29	MP GAMMA1	PY	-.003	-.003	0	0
30	MP GAMMA3	PY	-.003	-.003	0	0
31	MP GAMMA2	PY	-.003	-.003	0	0
32	MP GAMMA4	PY	-.003	-.003	0	0
33	MP BETA1	PY	-.003	-.003	0	0
34	MP BETA3	PY	-.003	-.003	0	0
35	MP BETA2	PY	-.003	-.003	0	0
36	MP BETA4	PY	-.003	-.003	0	0
37	M65	PY	-.000535	-.000535	0	0
38	M66	PY	-.000535	-.000535	0	0
39	M67	PY	-.000535	-.000535	0	0
40	M68	PY	-.000535	-.000535	0	0
41	PIPE1	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	Connect3	PY	-.001	-.001	0	0
2	Face1	PY	-.001	-.001	0	0
3	FACE3	PY	-.002	-.002	0	0
4	FACE2	PY	-.002	-.002	0	0
5	MP ALPHA1	PY	-.002	-.002	0	0
6	RAIL1	PY	-.000744	-.000744	0	0
7	RAIL3	PY	-.001	-.001	0	0
8	RAIL2	PY	-.001	-.001	0	0
9	Standoff1	PY	-.001	-.001	0	0
10	STANDOFF2	PY	-.001	-.001	0	0
11	Standoff3	PY	-.001	-.001	0	0
12	Support1	PY	-.001	-.001	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,%]
13	Support2	PY	-.001	-.001	0	0
14	Support3	PY	-.001	-.001	0	0
15	Support4	PY	-.001	-.001	0	0
16	Support5	PY	-.001	-.001	0	0
17	Support6	PY	-.001	-.001	0	0
18	Support7	PY	-.001	-.001	0	0
19	Support8	PY	-.001	-.001	0	0
20	Support9	PY	-.001	-.001	0	0
21	Support10	PY	-.001	-.001	0	0
22	Support11	PY	-.001	-.001	0	0
23	Support12	PY	-.001	-.001	0	0
24	MP ALPHA3	PY	-.002	-.002	0	0
25	MP ALPHA2	PY	-.002	-.002	0	0
26	MP ALPHA4	PY	-.002	-.002	0	0
27	CONNECT2	PY	-.001	-.001	0	0
28	CONNECT1	PY	-.001	-.001	0	0
29	MP GAMMA1	PY	-.002	-.002	0	0
30	MP GAMMA3	PY	-.002	-.002	0	0
31	MP GAMMA2	PY	-.002	-.002	0	0
32	MP GAMMA4	PY	-.002	-.002	0	0
33	MP BETA1	PY	-.002	-.002	0	0
34	MP BETA3	PY	-.002	-.002	0	0
35	MP BETA2	PY	-.002	-.002	0	0
36	MP BETA4	PY	-.002	-.002	0	0
37	M65	PY	-.000463	-.000463	0	0
38	M66	PY	-.000463	-.000463	0	0
39	M67	PY	-.000463	-.000463	0	0
40	M68	PY	-.000463	-.000463	0	0
41	PIPE1	PY	-.002	-.002	0	0
42	Connect3	PX	-.000735	-.000735	0	0
43	Face1	PX	-.000605	-.000605	0	0
44	FACE3	PX	-.001	-.001	0	0
45	FACE2	PX	-.001	-.001	0	0
46	MP ALPHA1	PX	-.001	-.001	0	0
47	RAIL1	PX	-.00043	-.00043	0	0
48	RAIL3	PX	-.000859	-.000859	0	0
49	RAIL2	PX	-.000859	-.000859	0	0
50	Standoff1	PX	-.000605	-.000605	0	0
51	STANDOFF2	PX	-.000605	-.000605	0	0
52	Standoff3	PX	-.000605	-.000605	0	0
53	Support1	PX	-.000658	-.000658	0	0
54	Support2	PX	-.000658	-.000658	0	0
55	Support3	PX	-.000658	-.000658	0	0
56	Support4	PX	-.000658	-.000658	0	0
57	Support5	PX	-.000658	-.000658	0	0
58	Support6	PX	-.000658	-.000658	0	0
59	Support7	PX	-.000658	-.000658	0	0
60	Support8	PX	-.000658	-.000658	0	0
61	Support9	PX	-.000658	-.000658	0	0
62	Support10	PX	-.000658	-.000658	0	0
63	Support11	PX	-.000658	-.000658	0	0
64	Support12	PX	-.000658	-.000658	0	0
65	MP ALPHA3	PX	-.001	-.001	0	0
66	MP ALPHA2	PX	-.001	-.001	0	0
67	MP ALPHA4	PX	-.001	-.001	0	0
68	CONNECT2	PX	-.000735	-.000735	0	0
69	CONNECT1	PX	-.000735	-.000735	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,%]
70	MP GAMMA1	PX	-.001	-.001	0	0
71	MP GAMMA3	PX	-.001	-.001	0	0
72	MP GAMMA2	PX	-.001	-.001	0	0
73	MP GAMMA4	PX	-.001	-.001	0	0
74	MP BETA1	PX	-.001	-.001	0	0
75	MP BETA3	PX	-.001	-.001	0	0
76	MP BETA2	PX	-.001	-.001	0	0
77	MP BETA4	PX	-.001	-.001	0	0
78	M65	PX	-.000267	-.000267	0	0
79	M66	PX	-.000267	-.000267	0	0
80	M67	PX	-.000267	-.000267	0	0
81	M68	PX	-.000267	-.000267	0	0
82	PIPE1	PX	-.001	-.001	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	Connect3	PY	-.000735	-.000735	0	0
2	Face1	PY	-.000605	-.000605	0	0
3	FACE3	PY	-.001	-.001	0	0
4	FACE2	PY	-.001	-.001	0	0
5	MP ALPHA1	PY	-.001	-.001	0	0
6	RAIL1	PY	-.00043	-.00043	0	0
7	RAIL3	PY	-.000859	-.000859	0	0
8	RAIL2	PY	-.000859	-.000859	0	0
9	Standoff1	PY	-.000605	-.000605	0	0
10	STANDOFF2	PY	-.000605	-.000605	0	0
11	Standoff3	PY	-.000605	-.000605	0	0
12	Support1	PY	-.000658	-.000658	0	0
13	Support2	PY	-.000658	-.000658	0	0
14	Support3	PY	-.000658	-.000658	0	0
15	Support4	PY	-.000658	-.000658	0	0
16	Support5	PY	-.000658	-.000658	0	0
17	Support6	PY	-.000658	-.000658	0	0
18	Support7	PY	-.000658	-.000658	0	0
19	Support8	PY	-.000658	-.000658	0	0
20	Support9	PY	-.000658	-.000658	0	0
21	Support10	PY	-.000658	-.000658	0	0
22	Support11	PY	-.000658	-.000658	0	0
23	Support12	PY	-.000658	-.000658	0	0
24	MP ALPHA3	PY	-.001	-.001	0	0
25	MP ALPHA2	PY	-.001	-.001	0	0
26	MP ALPHA4	PY	-.001	-.001	0	0
27	CONNECT2	PY	-.000735	-.000735	0	0
28	CONNECT1	PY	-.000735	-.000735	0	0
29	MP GAMMA1	PY	-.001	-.001	0	0
30	MP GAMMA3	PY	-.001	-.001	0	0
31	MP GAMMA2	PY	-.001	-.001	0	0
32	MP GAMMA4	PY	-.001	-.001	0	0
33	MP BETA1	PY	-.001	-.001	0	0
34	MP BETA3	PY	-.001	-.001	0	0
35	MP BETA2	PY	-.001	-.001	0	0
36	MP BETA4	PY	-.001	-.001	0	0
37	M65	PY	-.000267	-.000267	0	0
38	M66	PY	-.000267	-.000267	0	0
39	M67	PY	-.000267	-.000267	0	0
40	M68	PY	-.000267	-.000267	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,%]
41	PIPE1	PY	-.001	-.001	0	0
42	Connect3	PX	-.001	-.001	0	0
43	Face1	PX	-.001	-.001	0	0
44	FACE3	PX	-.002	-.002	0	0
45	FACE2	PX	-.002	-.002	0	0
46	MP ALPHA1	PX	-.002	-.002	0	0
47	RAIL1	PX	-.000744	-.000744	0	0
48	RAIL3	PX	-.001	-.001	0	0
49	RAIL2	PX	-.001	-.001	0	0
50	Standoff1	PX	-.001	-.001	0	0
51	STANDOFF2	PX	-.001	-.001	0	0
52	Standoff3	PX	-.001	-.001	0	0
53	Support1	PX	-.001	-.001	0	0
54	Support2	PX	-.001	-.001	0	0
55	Support3	PX	-.001	-.001	0	0
56	Support4	PX	-.001	-.001	0	0
57	Support5	PX	-.001	-.001	0	0
58	Support6	PX	-.001	-.001	0	0
59	Support7	PX	-.001	-.001	0	0
60	Support8	PX	-.001	-.001	0	0
61	Support9	PX	-.001	-.001	0	0
62	Support10	PX	-.001	-.001	0	0
63	Support11	PX	-.001	-.001	0	0
64	Support12	PX	-.001	-.001	0	0
65	MP ALPHA3	PX	-.002	-.002	0	0
66	MP ALPHA2	PX	-.002	-.002	0	0
67	MP ALPHA4	PX	-.002	-.002	0	0
68	CONNECT2	PX	-.001	-.001	0	0
69	CONNECT1	PX	-.001	-.001	0	0
70	MP GAMMA1	PX	-.002	-.002	0	0
71	MP GAMMA3	PX	-.002	-.002	0	0
72	MP GAMMA2	PX	-.002	-.002	0	0
73	MP GAMMA4	PX	-.002	-.002	0	0
74	MP BETA1	PX	-.002	-.002	0	0
75	MP BETA3	PX	-.002	-.002	0	0
76	MP BETA2	PX	-.002	-.002	0	0
77	MP BETA4	PX	-.002	-.002	0	0
78	M65	PX	-.000463	-.000463	0	0
79	M66	PX	-.000463	-.000463	0	0
80	M67	PX	-.000463	-.000463	0	0
81	M68	PX	-.000463	-.000463	0	0
82	PIPE1	PX	-.002	-.002	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	Connect3	PX	-.001	-.001	0	0
2	FACE2	PX	-.001	-.001	0	0
3	FACE3	PX	-.002	-.002	0	0
4	Face1	PX	-.002	-.002	0	0
5	MP ALPHA1	PX	-.003	-.003	0	0
6	RAIL2	PX	-.000859	-.000859	0	0
7	RAIL3	PX	-.002	-.002	0	0
8	RAIL1	PX	-.002	-.002	0	0
9	Standoff1	PX	-.001	-.001	0	0
10	STANDOFF2	PX	-.001	-.001	0	0
11	Standoff3	PX	-.001	-.001	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
12	Support1	PX	-.001	-.001	0	0
13	Support2	PX	-.001	-.001	0	0
14	Support3	PX	-.001	-.001	0	0
15	Support4	PX	-.001	-.001	0	0
16	Support5	PX	-.001	-.001	0	0
17	Support6	PX	-.001	-.001	0	0
18	Support7	PX	-.001	-.001	0	0
19	Support8	PX	-.001	-.001	0	0
20	Support9	PX	-.001	-.001	0	0
21	Support10	PX	-.001	-.001	0	0
22	Support11	PX	-.001	-.001	0	0
23	Support12	PX	-.001	-.001	0	0
24	MP ALPHA3	PX	-.003	-.003	0	0
25	MP ALPHA2	PX	-.003	-.003	0	0
26	MP ALPHA4	PX	-.003	-.003	0	0
27	CONNECT2	PX	-.001	-.001	0	0
28	CONNECT1	PX	-.001	-.001	0	0
29	MP GAMMA1	PX	-.003	-.003	0	0
30	MP GAMMA3	PX	-.003	-.003	0	0
31	MP GAMMA2	PX	-.003	-.003	0	0
32	MP GAMMA4	PX	-.003	-.003	0	0
33	MP BETA1	PX	-.003	-.003	0	0
34	MP BETA3	PX	-.003	-.003	0	0
35	MP BETA2	PX	-.003	-.003	0	0
36	MP BETA4	PX	-.003	-.003	0	0
37	M65	PX	-.000535	-.000535	0	0
38	M66	PX	-.000535	-.000535	0	0
39	M67	PX	-.000535	-.000535	0	0
40	M68	PX	-.000535	-.000535	0	0
41	PIPE1	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	Connect3	PY	.000735	.000735	0	0
2	FACE2	PY	.000605	.000605	0	0
3	FACE3	PY	.001	.001	0	0
4	Face1	PY	.001	.001	0	0
5	MP ALPHA1	PY	.001	.001	0	0
6	RAIL2	PY	.00043	.00043	0	0
7	RAIL3	PY	.000859	.000859	0	0
8	RAIL1	PY	.000859	.000859	0	0
9	Standoff1	PY	.000605	.000605	0	0
10	STANDOFF2	PY	.000605	.000605	0	0
11	Standoff3	PY	.000605	.000605	0	0
12	Support1	PY	.000658	.000658	0	0
13	Support2	PY	.000658	.000658	0	0
14	Support3	PY	.000658	.000658	0	0
15	Support4	PY	.000658	.000658	0	0
16	Support5	PY	.000658	.000658	0	0
17	Support6	PY	.000658	.000658	0	0
18	Support7	PY	.000658	.000658	0	0
19	Support8	PY	.000658	.000658	0	0
20	Support9	PY	.000658	.000658	0	0
21	Support10	PY	.000658	.000658	0	0
22	Support11	PY	.000658	.000658	0	0
23	Support12	PY	.000658	.000658	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,%]
24	MP ALPHA3	PY	.001	.001	0	0
25	MP ALPHA2	PY	.001	.001	0	0
26	MP ALPHA4	PY	.001	.001	0	0
27	CONNECT2	PY	.000735	.000735	0	0
28	CONNECT1	PY	.000735	.000735	0	0
29	MP GAMMA1	PY	.001	.001	0	0
30	MP GAMMA3	PY	.001	.001	0	0
31	MP GAMMA2	PY	.001	.001	0	0
32	MP GAMMA4	PY	.001	.001	0	0
33	MP BETA1	PY	.001	.001	0	0
34	MP BETA3	PY	.001	.001	0	0
35	MP BETA2	PY	.001	.001	0	0
36	MP BETA4	PY	.001	.001	0	0
37	M65	PY	.000267	.000267	0	0
38	M66	PY	.000267	.000267	0	0
39	M67	PY	.000267	.000267	0	0
40	M68	PY	.000267	.000267	0	0
41	PIPE1	PY	.001	.001	0	0
42	Connect3	PX	-.001	-.001	0	0
43	FACE2	PX	-.001	-.001	0	0
44	FACE3	PX	-.002	-.002	0	0
45	Face1	PX	-.002	-.002	0	0
46	MP ALPHA1	PX	-.002	-.002	0	0
47	RAIL2	PX	-.000744	-.000744	0	0
48	RAIL3	PX	-.001	-.001	0	0
49	RAIL1	PX	-.001	-.001	0	0
50	Standoff1	PX	-.001	-.001	0	0
51	STANDOFF2	PX	-.001	-.001	0	0
52	Standoff3	PX	-.001	-.001	0	0
53	Support1	PX	-.001	-.001	0	0
54	Support2	PX	-.001	-.001	0	0
55	Support3	PX	-.001	-.001	0	0
56	Support4	PX	-.001	-.001	0	0
57	Support5	PX	-.001	-.001	0	0
58	Support6	PX	-.001	-.001	0	0
59	Support7	PX	-.001	-.001	0	0
60	Support8	PX	-.001	-.001	0	0
61	Support9	PX	-.001	-.001	0	0
62	Support10	PX	-.001	-.001	0	0
63	Support11	PX	-.001	-.001	0	0
64	Support12	PX	-.001	-.001	0	0
65	MP ALPHA3	PX	-.002	-.002	0	0
66	MP ALPHA2	PX	-.002	-.002	0	0
67	MP ALPHA4	PX	-.002	-.002	0	0
68	CONNECT2	PX	-.001	-.001	0	0
69	CONNECT1	PX	-.001	-.001	0	0
70	MP GAMMA1	PX	-.002	-.002	0	0
71	MP GAMMA3	PX	-.002	-.002	0	0
72	MP GAMMA2	PX	-.002	-.002	0	0
73	MP GAMMA4	PX	-.002	-.002	0	0
74	MP BETA1	PX	-.002	-.002	0	0
75	MP BETA3	PX	-.002	-.002	0	0
76	MP BETA2	PX	-.002	-.002	0	0
77	MP BETA4	PX	-.002	-.002	0	0
78	M65	PX	-.000463	-.000463	0	0
79	M66	PX	-.000463	-.000463	0	0
80	M67	PX	-.000463	-.000463	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,%]
81	M68	PX	-.000463	-.000463	0	0
82	PIPE1	PX	-.002	-.002	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	Connect3	PY	.001	.001	0	0
2	FACE2	PY	.001	.001	0	0
3	FACE3	PY	.002	.002	0	0
4	Face1	PY	.002	.002	0	0
5	MP ALPHA1	PY	.002	.002	0	0
6	RAIL2	PY	.000744	.000744	0	0
7	RAIL3	PY	.001	.001	0	0
8	RAIL1	PY	.001	.001	0	0
9	Standoff1	PY	.001	.001	0	0
10	STANDOFF2	PY	.001	.001	0	0
11	Standoff3	PY	.001	.001	0	0
12	Support1	PY	.001	.001	0	0
13	Support2	PY	.001	.001	0	0
14	Support3	PY	.001	.001	0	0
15	Support4	PY	.001	.001	0	0
16	Support5	PY	.001	.001	0	0
17	Support6	PY	.001	.001	0	0
18	Support7	PY	.001	.001	0	0
19	Support8	PY	.001	.001	0	0
20	Support9	PY	.001	.001	0	0
21	Support10	PY	.001	.001	0	0
22	Support11	PY	.001	.001	0	0
23	Support12	PY	.001	.001	0	0
24	MP ALPHA3	PY	.002	.002	0	0
25	MP ALPHA2	PY	.002	.002	0	0
26	MP ALPHA4	PY	.002	.002	0	0
27	CONNECT2	PY	.001	.001	0	0
28	CONNECT1	PY	.001	.001	0	0
29	MP GAMMA1	PY	.002	.002	0	0
30	MP GAMMA3	PY	.002	.002	0	0
31	MP GAMMA2	PY	.002	.002	0	0
32	MP GAMMA4	PY	.002	.002	0	0
33	MP BETA1	PY	.002	.002	0	0
34	MP BETA3	PY	.002	.002	0	0
35	MP BETA2	PY	.002	.002	0	0
36	MP BETA4	PY	.002	.002	0	0
37	M65	PY	.000463	.000463	0	0
38	M66	PY	.000463	.000463	0	0
39	M67	PY	.000463	.000463	0	0
40	M68	PY	.000463	.000463	0	0
41	PIPE1	PY	.002	.002	0	0
42	Connect3	PX	-.000735	-.000735	0	0
43	FACE2	PX	-.000605	-.000605	0	0
44	FACE3	PX	-.001	-.001	0	0
45	Face1	PX	-.001	-.001	0	0
46	MP ALPHA1	PX	-.001	-.001	0	0
47	RAIL2	PX	-.00043	-.00043	0	0
48	RAIL3	PX	-.000859	-.000859	0	0
49	RAIL1	PX	-.000859	-.000859	0	0
50	Standoff1	PX	-.000605	-.000605	0	0
51	STANDOFF2	PX	-.000605	-.000605	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,%]
52	Standoff3	PX	-.000605	-.000605	0	0
53	Support1	PX	-.000658	-.000658	0	0
54	Support2	PX	-.000658	-.000658	0	0
55	Support3	PX	-.000658	-.000658	0	0
56	Support4	PX	-.000658	-.000658	0	0
57	Support5	PX	-.000658	-.000658	0	0
58	Support6	PX	-.000658	-.000658	0	0
59	Support7	PX	-.000658	-.000658	0	0
60	Support8	PX	-.000658	-.000658	0	0
61	Support9	PX	-.000658	-.000658	0	0
62	Support10	PX	-.000658	-.000658	0	0
63	Support11	PX	-.000658	-.000658	0	0
64	Support12	PX	-.000658	-.000658	0	0
65	MP ALPHA3	PX	-.001	-.001	0	0
66	MP ALPHA2	PX	-.001	-.001	0	0
67	MP ALPHA4	PX	-.001	-.001	0	0
68	CONNECT2	PX	-.000735	-.000735	0	0
69	CONNECT1	PX	-.000735	-.000735	0	0
70	MP GAMMA1	PX	-.001	-.001	0	0
71	MP GAMMA3	PX	-.001	-.001	0	0
72	MP GAMMA2	PX	-.001	-.001	0	0
73	MP GAMMA4	PX	-.001	-.001	0	0
74	MP BETA1	PX	-.001	-.001	0	0
75	MP BETA3	PX	-.001	-.001	0	0
76	MP BETA2	PX	-.001	-.001	0	0
77	MP BETA4	PX	-.001	-.001	0	0
78	M65	PX	-.000267	-.000267	0	0
79	M66	PX	-.000267	-.000267	0	0
80	M67	PX	-.000267	-.000267	0	0
81	M68	PX	-.000267	-.000267	0	0
82	PIPE1	PX	-.001	-.001	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	Connect3	PY	.001	.001	0	0
2	FACE2	PY	.001	.001	0	0
3	FACE3	PY	.002	.002	0	0
4	Face1	PY	.002	.002	0	0
5	MP ALPHA1	PY	.003	.003	0	0
6	RAIL2	PY	.000859	.000859	0	0
7	RAIL3	PY	.002	.002	0	0
8	RAIL1	PY	.002	.002	0	0
9	Standoff1	PY	.001	.001	0	0
10	STANDOFF2	PY	.001	.001	0	0
11	Standoff3	PY	.001	.001	0	0
12	Support1	PY	.001	.001	0	0
13	Support2	PY	.001	.001	0	0
14	Support3	PY	.001	.001	0	0
15	Support4	PY	.001	.001	0	0
16	Support5	PY	.001	.001	0	0
17	Support6	PY	.001	.001	0	0
18	Support7	PY	.001	.001	0	0
19	Support8	PY	.001	.001	0	0
20	Support9	PY	.001	.001	0	0
21	Support10	PY	.001	.001	0	0
22	Support11	PY	.001	.001	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,%]
23	Support12	PY	.001	.001	0	0
24	MP ALPHA3	PY	.003	.003	0	0
25	MP ALPHA2	PY	.003	.003	0	0
26	MP ALPHA4	PY	.003	.003	0	0
27	CONNECT2	PY	.001	.001	0	0
28	CONNECT1	PY	.001	.001	0	0
29	MP GAMMA1	PY	.003	.003	0	0
30	MP GAMMA3	PY	.003	.003	0	0
31	MP GAMMA2	PY	.003	.003	0	0
32	MP GAMMA4	PY	.003	.003	0	0
33	MP BETA1	PY	.003	.003	0	0
34	MP BETA3	PY	.003	.003	0	0
35	MP BETA2	PY	.003	.003	0	0
36	MP BETA4	PY	.003	.003	0	0
37	M65	PY	.000535	.000535	0	0
38	M66	PY	.000535	.000535	0	0
39	M67	PY	.000535	.000535	0	0
40	M68	PY	.000535	.000535	0	0
41	PIPE1	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	Connect3	PY	.001	.001	0	0
2	FACE3	PY	.001	.001	0	0
3	Face1	PY	.002	.002	0	0
4	FACE2	PY	.002	.002	0	0
5	MP ALPHA1	PY	.002	.002	0	0
6	RAIL3	PY	.000744	.000744	0	0
7	RAIL1	PY	.001	.001	0	0
8	RAIL2	PY	.001	.001	0	0
9	Standoff1	PY	.001	.001	0	0
10	STANDOFF2	PY	.001	.001	0	0
11	Standoff3	PY	.001	.001	0	0
12	Support1	PY	.001	.001	0	0
13	Support2	PY	.001	.001	0	0
14	Support3	PY	.001	.001	0	0
15	Support4	PY	.001	.001	0	0
16	Support5	PY	.001	.001	0	0
17	Support6	PY	.001	.001	0	0
18	Support7	PY	.001	.001	0	0
19	Support8	PY	.001	.001	0	0
20	Support9	PY	.001	.001	0	0
21	Support10	PY	.001	.001	0	0
22	Support11	PY	.001	.001	0	0
23	Support12	PY	.001	.001	0	0
24	MP ALPHA3	PY	.002	.002	0	0
25	MP ALPHA2	PY	.002	.002	0	0
26	MP ALPHA4	PY	.002	.002	0	0
27	CONNECT2	PY	.001	.001	0	0
28	CONNECT1	PY	.001	.001	0	0
29	MP GAMMA1	PY	.002	.002	0	0
30	MP GAMMA3	PY	.002	.002	0	0
31	MP GAMMA2	PY	.002	.002	0	0
32	MP GAMMA4	PY	.002	.002	0	0
33	MP BETA1	PY	.002	.002	0	0
34	MP BETA3	PY	.002	.002	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,%]
35	MP BETA2	PY	.002	.002	0	0
36	MP BETA4	PY	.002	.002	0	0
37	M65	PY	.000463	.000463	0	0
38	M66	PY	.000463	.000463	0	0
39	M67	PY	.000463	.000463	0	0
40	M68	PY	.000463	.000463	0	0
41	PIPE1	PY	.002	.002	0	0
42	Connect3	PX	.000735	.000735	0	0
43	FACE3	PX	.000605	.000605	0	0
44	Face1	PX	.001	.001	0	0
45	FACE2	PX	.001	.001	0	0
46	MP ALPHA1	PX	.001	.001	0	0
47	RAIL3	PX	.00043	.00043	0	0
48	RAIL1	PX	.000859	.000859	0	0
49	RAIL2	PX	.000859	.000859	0	0
50	Standoff1	PX	.000605	.000605	0	0
51	STANDOFF2	PX	.000605	.000605	0	0
52	Standoff3	PX	.000605	.000605	0	0
53	Support1	PX	.000658	.000658	0	0
54	Support2	PX	.000658	.000658	0	0
55	Support3	PX	.000658	.000658	0	0
56	Support4	PX	.000658	.000658	0	0
57	Support5	PX	.000658	.000658	0	0
58	Support6	PX	.000658	.000658	0	0
59	Support7	PX	.000658	.000658	0	0
60	Support8	PX	.000658	.000658	0	0
61	Support9	PX	.000658	.000658	0	0
62	Support10	PX	.000658	.000658	0	0
63	Support11	PX	.000658	.000658	0	0
64	Support12	PX	.000658	.000658	0	0
65	MP ALPHA3	PX	.001	.001	0	0
66	MP ALPHA2	PX	.001	.001	0	0
67	MP ALPHA4	PX	.001	.001	0	0
68	CONNECT2	PX	.000735	.000735	0	0
69	CONNECT1	PX	.000735	.000735	0	0
70	MP GAMMA1	PX	.001	.001	0	0
71	MP GAMMA3	PX	.001	.001	0	0
72	MP GAMMA2	PX	.001	.001	0	0
73	MP GAMMA4	PX	.001	.001	0	0
74	MP BETA1	PX	.001	.001	0	0
75	MP BETA3	PX	.001	.001	0	0
76	MP BETA2	PX	.001	.001	0	0
77	MP BETA4	PX	.001	.001	0	0
78	M65	PX	.000267	.000267	0	0
79	M66	PX	.000267	.000267	0	0
80	M67	PX	.000267	.000267	0	0
81	M68	PX	.000267	.000267	0	0
82	PIPE1	PX	.001	.001	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	Connect3	PY	.000735	.000735	0	0
2	FACE3	PY	.000605	.000605	0	0
3	Face1	PY	.001	.001	0	0
4	FACE2	PY	.001	.001	0	0
5	MP ALPHA1	PY	.001	.001	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,%]
6	RAIL3	PY	.00043	.00043	0	0
7	RAIL1	PY	.000859	.000859	0	0
8	RAIL2	PY	.000859	.000859	0	0
9	Standoff1	PY	.000605	.000605	0	0
10	STANDOFF2	PY	.000605	.000605	0	0
11	Standoff3	PY	.000605	.000605	0	0
12	Support1	PY	.000658	.000658	0	0
13	Support2	PY	.000658	.000658	0	0
14	Support3	PY	.000658	.000658	0	0
15	Support4	PY	.000658	.000658	0	0
16	Support5	PY	.000658	.000658	0	0
17	Support6	PY	.000658	.000658	0	0
18	Support7	PY	.000658	.000658	0	0
19	Support8	PY	.000658	.000658	0	0
20	Support9	PY	.000658	.000658	0	0
21	Support10	PY	.000658	.000658	0	0
22	Support11	PY	.000658	.000658	0	0
23	Support12	PY	.000658	.000658	0	0
24	MP ALPHA3	PY	.001	.001	0	0
25	MP ALPHA2	PY	.001	.001	0	0
26	MP ALPHA4	PY	.001	.001	0	0
27	CONNECT2	PY	.000735	.000735	0	0
28	CONNECT1	PY	.000735	.000735	0	0
29	MP GAMMA1	PY	.001	.001	0	0
30	MP GAMMA3	PY	.001	.001	0	0
31	MP GAMMA2	PY	.001	.001	0	0
32	MP GAMMA4	PY	.001	.001	0	0
33	MP BETA1	PY	.001	.001	0	0
34	MP BETA3	PY	.001	.001	0	0
35	MP BETA2	PY	.001	.001	0	0
36	MP BETA4	PY	.001	.001	0	0
37	M65	PY	.000267	.000267	0	0
38	M66	PY	.000267	.000267	0	0
39	M67	PY	.000267	.000267	0	0
40	M68	PY	.000267	.000267	0	0
41	PIPE1	PY	.001	.001	0	0
42	Connect3	PX	.001	.001	0	0
43	FACE3	PX	.001	.001	0	0
44	Face1	PX	.002	.002	0	0
45	FACE2	PX	.002	.002	0	0
46	MP ALPHA1	PX	.002	.002	0	0
47	RAIL3	PX	.000744	.000744	0	0
48	RAIL1	PX	.001	.001	0	0
49	RAIL2	PX	.001	.001	0	0
50	Standoff1	PX	.001	.001	0	0
51	STANDOFF2	PX	.001	.001	0	0
52	Standoff3	PX	.001	.001	0	0
53	Support1	PX	.001	.001	0	0
54	Support2	PX	.001	.001	0	0
55	Support3	PX	.001	.001	0	0
56	Support4	PX	.001	.001	0	0
57	Support5	PX	.001	.001	0	0
58	Support6	PX	.001	.001	0	0
59	Support7	PX	.001	.001	0	0
60	Support8	PX	.001	.001	0	0
61	Support9	PX	.001	.001	0	0
62	Support10	PX	.001	.001	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,%]
63	Support11	PX	.001	.001	0	0
64	Support12	PX	.001	.001	0	0
65	MP ALPHA3	PX	.002	.002	0	0
66	MP ALPHA2	PX	.002	.002	0	0
67	MP ALPHA4	PX	.002	.002	0	0
68	CONNECT2	PX	.001	.001	0	0
69	CONNECT1	PX	.001	.001	0	0
70	MP GAMMA1	PX	.002	.002	0	0
71	MP GAMMA3	PX	.002	.002	0	0
72	MP GAMMA2	PX	.002	.002	0	0
73	MP GAMMA4	PX	.002	.002	0	0
74	MP BETA1	PX	.002	.002	0	0
75	MP BETA3	PX	.002	.002	0	0
76	MP BETA2	PX	.002	.002	0	0
77	MP BETA4	PX	.002	.002	0	0
78	M65	PX	.000463	.000463	0	0
79	M66	PX	.000463	.000463	0	0
80	M67	PX	.000463	.000463	0	0
81	M68	PX	.000463	.000463	0	0
82	PIPE1	PX	.002	.002	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	Connect3	PX	.001	.001	0	0
2	FACE3	PX	.001	.001	0	0
3	Face1	PX	.002	.002	0	0
4	FACE2	PX	.002	.002	0	0
5	MP ALPHA1	PX	.003	.003	0	0
6	RAIL3	PX	.000859	.000859	0	0
7	RAIL1	PX	.002	.002	0	0
8	RAIL2	PX	.002	.002	0	0
9	Standoff1	PX	.001	.001	0	0
10	STANDOFF2	PX	.001	.001	0	0
11	Standoff3	PX	.001	.001	0	0
12	Support1	PX	.001	.001	0	0
13	Support2	PX	.001	.001	0	0
14	Support3	PX	.001	.001	0	0
15	Support4	PX	.001	.001	0	0
16	Support5	PX	.001	.001	0	0
17	Support6	PX	.001	.001	0	0
18	Support7	PX	.001	.001	0	0
19	Support8	PX	.001	.001	0	0
20	Support9	PX	.001	.001	0	0
21	Support10	PX	.001	.001	0	0
22	Support11	PX	.001	.001	0	0
23	Support12	PX	.001	.001	0	0
24	MP ALPHA3	PX	.003	.003	0	0
25	MP ALPHA2	PX	.003	.003	0	0
26	MP ALPHA4	PX	.003	.003	0	0
27	CONNECT2	PX	.001	.001	0	0
28	CONNECT1	PX	.001	.001	0	0
29	MP GAMMA1	PX	.003	.003	0	0
30	MP GAMMA3	PX	.003	.003	0	0
31	MP GAMMA2	PX	.003	.003	0	0
32	MP GAMMA4	PX	.003	.003	0	0
33	MP BETA1	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,%]
34	MP BETA3	PX	.003	.003	0	0
35	MP BETA2	PX	.003	.003	0	0
36	MP BETA4	PX	.003	.003	0	0
37	M65	PX	.000535	.000535	0	0
38	M66	PX	.000535	.000535	0	0
39	M67	PX	.000535	.000535	0	0
40	M68	PX	.000535	.000535	0	0
41	PIPE1	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	Connect3	PY	-.000735	-.000735	0	0
2	FACE3	PY	-.000605	-.000605	0	0
3	Face1	PY	-.001	-.001	0	0
4	FACE2	PY	-.001	-.001	0	0
5	MP ALPHA1	PY	-.001	-.001	0	0
6	RAIL3	PY	-.00043	-.00043	0	0
7	RAIL1	PY	-.000859	-.000859	0	0
8	RAIL2	PY	-.000859	-.000859	0	0
9	Standoff1	PY	-.000605	-.000605	0	0
10	STANDOFF2	PY	-.000605	-.000605	0	0
11	Standoff3	PY	-.000605	-.000605	0	0
12	Support1	PY	-.000658	-.000658	0	0
13	Support2	PY	-.000658	-.000658	0	0
14	Support3	PY	-.000658	-.000658	0	0
15	Support4	PY	-.000658	-.000658	0	0
16	Support5	PY	-.000658	-.000658	0	0
17	Support6	PY	-.000658	-.000658	0	0
18	Support7	PY	-.000658	-.000658	0	0
19	Support8	PY	-.000658	-.000658	0	0
20	Support9	PY	-.000658	-.000658	0	0
21	Support10	PY	-.000658	-.000658	0	0
22	Support11	PY	-.000658	-.000658	0	0
23	Support12	PY	-.000658	-.000658	0	0
24	MP ALPHA3	PY	-.001	-.001	0	0
25	MP ALPHA2	PY	-.001	-.001	0	0
26	MP ALPHA4	PY	-.001	-.001	0	0
27	CONNECT2	PY	-.000735	-.000735	0	0
28	CONNECT1	PY	-.000735	-.000735	0	0
29	MP GAMMA1	PY	-.001	-.001	0	0
30	MP GAMMA3	PY	-.001	-.001	0	0
31	MP GAMMA2	PY	-.001	-.001	0	0
32	MP GAMMA4	PY	-.001	-.001	0	0
33	MP BETA1	PY	-.001	-.001	0	0
34	MP BETA3	PY	-.001	-.001	0	0
35	MP BETA2	PY	-.001	-.001	0	0
36	MP BETA4	PY	-.001	-.001	0	0
37	M65	PY	-.000267	-.000267	0	0
38	M66	PY	-.000267	-.000267	0	0
39	M67	PY	-.000267	-.000267	0	0
40	M68	PY	-.000267	-.000267	0	0
41	PIPE1	PY	-.001	-.001	0	0
42	Connect3	PX	.001	.001	0	0
43	FACE3	PX	.001	.001	0	0
44	Face1	PX	.002	.002	0	0
45	FACE2	PX	.002	.002	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,%]
46	MP ALPHA1	PX	.002	.002	0	0
47	RAIL3	PX	.000744	.000744	0	0
48	RAIL1	PX	.001	.001	0	0
49	RAIL2	PX	.001	.001	0	0
50	Standoff1	PX	.001	.001	0	0
51	STANDOFF2	PX	.001	.001	0	0
52	Standoff3	PX	.001	.001	0	0
53	Support1	PX	.001	.001	0	0
54	Support2	PX	.001	.001	0	0
55	Support3	PX	.001	.001	0	0
56	Support4	PX	.001	.001	0	0
57	Support5	PX	.001	.001	0	0
58	Support6	PX	.001	.001	0	0
59	Support7	PX	.001	.001	0	0
60	Support8	PX	.001	.001	0	0
61	Support9	PX	.001	.001	0	0
62	Support10	PX	.001	.001	0	0
63	Support11	PX	.001	.001	0	0
64	Support12	PX	.001	.001	0	0
65	MP ALPHA3	PX	.002	.002	0	0
66	MP ALPHA2	PX	.002	.002	0	0
67	MP ALPHA4	PX	.002	.002	0	0
68	CONNECT2	PX	.001	.001	0	0
69	CONNECT1	PX	.001	.001	0	0
70	MP GAMMA1	PX	.002	.002	0	0
71	MP GAMMA3	PX	.002	.002	0	0
72	MP GAMMA2	PX	.002	.002	0	0
73	MP GAMMA4	PX	.002	.002	0	0
74	MP BETA1	PX	.002	.002	0	0
75	MP BETA3	PX	.002	.002	0	0
76	MP BETA2	PX	.002	.002	0	0
77	MP BETA4	PX	.002	.002	0	0
78	M65	PX	.000463	.000463	0	0
79	M66	PX	.000463	.000463	0	0
80	M67	PX	.000463	.000463	0	0
81	M68	PX	.000463	.000463	0	0
82	PIPE1	PX	.002	.002	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	Connect3	PY	-.001	-.001	0	0
2	Face1	PY	-.001	-.001	0	0
3	FACE3	PY	-.002	-.002	0	0
4	FACE2	PY	-.002	-.002	0	0
5	MP ALPHA1	PY	-.002	-.002	0	0
6	RAIL1	PY	-.000744	-.000744	0	0
7	RAIL3	PY	-.001	-.001	0	0
8	RAIL2	PY	-.001	-.001	0	0
9	Standoff1	PY	-.001	-.001	0	0
10	STANDOFF2	PY	-.001	-.001	0	0
11	Standoff3	PY	-.001	-.001	0	0
12	Support1	PY	-.001	-.001	0	0
13	Support2	PY	-.001	-.001	0	0
14	Support3	PY	-.001	-.001	0	0
15	Support4	PY	-.001	-.001	0	0
16	Support5	PY	-.001	-.001	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,%]
17	Support6	PY	-.001	-.001	0	0
18	Support7	PY	-.001	-.001	0	0
19	Support8	PY	-.001	-.001	0	0
20	Support9	PY	-.001	-.001	0	0
21	Support10	PY	-.001	-.001	0	0
22	Support11	PY	-.001	-.001	0	0
23	Support12	PY	-.001	-.001	0	0
24	MP ALPHA3	PY	-.002	-.002	0	0
25	MP ALPHA2	PY	-.002	-.002	0	0
26	MP ALPHA4	PY	-.002	-.002	0	0
27	CONNECT2	PY	-.001	-.001	0	0
28	CONNECT1	PY	-.001	-.001	0	0
29	MP GAMMA1	PY	-.002	-.002	0	0
30	MP GAMMA3	PY	-.002	-.002	0	0
31	MP GAMMA2	PY	-.002	-.002	0	0
32	MP GAMMA4	PY	-.002	-.002	0	0
33	MP BETA1	PY	-.002	-.002	0	0
34	MP BETA3	PY	-.002	-.002	0	0
35	MP BETA2	PY	-.002	-.002	0	0
36	MP BETA4	PY	-.002	-.002	0	0
37	M65	PY	-.000463	-.000463	0	0
38	M66	PY	-.000463	-.000463	0	0
39	M67	PY	-.000463	-.000463	0	0
40	M68	PY	-.000463	-.000463	0	0
41	PIPE1	PY	-.002	-.002	0	0
42	Connect3	PX	.000735	.000735	0	0
43	Face1	PX	.000605	.000605	0	0
44	FACE3	PX	.001	.001	0	0
45	FACE2	PX	.001	.001	0	0
46	MP ALPHA1	PX	.001	.001	0	0
47	RAIL1	PX	.00043	.00043	0	0
48	RAIL3	PX	.000859	.000859	0	0
49	RAIL2	PX	.000859	.000859	0	0
50	Standoff1	PX	.000605	.000605	0	0
51	STANDOFF2	PX	.000605	.000605	0	0
52	Standoff3	PX	.000605	.000605	0	0
53	Support1	PX	.000658	.000658	0	0
54	Support2	PX	.000658	.000658	0	0
55	Support3	PX	.000658	.000658	0	0
56	Support4	PX	.000658	.000658	0	0
57	Support5	PX	.000658	.000658	0	0
58	Support6	PX	.000658	.000658	0	0
59	Support7	PX	.000658	.000658	0	0
60	Support8	PX	.000658	.000658	0	0
61	Support9	PX	.000658	.000658	0	0
62	Support10	PX	.000658	.000658	0	0
63	Support11	PX	.000658	.000658	0	0
64	Support12	PX	.000658	.000658	0	0
65	MP ALPHA3	PX	.001	.001	0	0
66	MP ALPHA2	PX	.001	.001	0	0
67	MP ALPHA4	PX	.001	.001	0	0
68	CONNECT2	PX	.000735	.000735	0	0
69	CONNECT1	PX	.000735	.000735	0	0
70	MP GAMMA1	PX	.001	.001	0	0
71	MP GAMMA3	PX	.001	.001	0	0
72	MP GAMMA2	PX	.001	.001	0	0
73	MP GAMMA4	PX	.001	.001	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,%]
74	MP BETA1	PX	.001	.001	0	0
75	MP BETA3	PX	.001	.001	0	0
76	MP BETA2	PX	.001	.001	0	0
77	MP BETA4	PX	.001	.001	0	0
78	M65	PX	.000267	.000267	0	0
79	M66	PX	.000267	.000267	0	0
80	M67	PX	.000267	.000267	0	0
81	M68	PX	.000267	.000267	0	0
82	PIPE1	PX	.001	.001	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	Face1	Z	-.002	-.005	0	2.031
2	Face1	Z	-.005	-.006	2.031	4.062
3	Face1	Z	-.006	-.007	4.062	6.093
4	Face1	Z	-.007	-.007	6.093	8.124
5	Face1	Z	-.007	-.007	8.124	10.155
6	Face1	Z	-.007	-.005	10.155	12.186
7	Face1	Z	-.005	-.001	12.186	14.217
8	STANDOFF2	Z	-.0005377	-.003	4.16	5.269
9	STANDOFF2	Z	-.003	-.003	5.269	6.379
10	STANDOFF2	Z	-.003	-.0003592	6.379	7.488
11	Standoff3	Z	-.001	-.002	4.16	5.824
12	Standoff3	Z	-.002	-.003	5.824	7.488
13	Support1	Z	-.008	-.008	0	.863
14	Support2	Z	-.006	-.006	.15	.863
15	Support3	Z	-.006	-.006	.15	.863
16	Support4	Z	-.007	-.007	.149	.863
17	FACE2	Z	-.002	-.005	0	2.031
18	FACE2	Z	-.005	-.006	2.031	4.062
19	FACE2	Z	-.006	-.007	4.062	6.093
20	FACE2	Z	-.007	-.007	6.093	8.124
21	FACE2	Z	-.007	-.007	8.124	10.155
22	FACE2	Z	-.007	-.005	10.155	12.186
23	FACE2	Z	-.005	-.001	12.186	14.217
24	Standoff1	Z	-.0005377	-.003	4.16	5.269
25	Standoff1	Z	-.003	-.003	5.269	6.379
26	Standoff1	Z	-.003	-.0003592	6.379	7.488
27	STANDOFF2	Z	-.001	-.002	4.16	5.824
28	STANDOFF2	Z	-.002	-.003	5.824	7.488
29	Support9	Z	-.008	-.008	7.935e-5	.863
30	Support10	Z	-.006	-.006	.15	.863
31	Support11	Z	-.006	-.006	.15	.863
32	Support12	Z	-.007	-.007	.15	.863
33	FACE3	Z	-.002	-.005	0	2.031
34	FACE3	Z	-.005	-.006	2.031	4.062
35	FACE3	Z	-.006	-.007	4.062	6.093
36	FACE3	Z	-.007	-.007	6.093	8.124
37	FACE3	Z	-.007	-.007	8.124	10.155
38	FACE3	Z	-.007	-.005	10.155	12.186
39	FACE3	Z	-.005	-.001	12.186	14.217
40	Standoff1	Z	-.001	-.002	4.16	5.824
41	Standoff1	Z	-.002	-.003	5.824	7.488
42	Standoff3	Z	-.0005377	-.003	4.16	5.269
43	Standoff3	Z	-.003	-.003	5.269	6.379
44	Standoff3	Z	-.003	-.0003592	6.379	7.488

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,%]
45	Support5	Z	-.008	-.008	7.935e-5	.863
46	Support6	Z	-.006	-.006	.15	.863
47	Support7	Z	-.006	-.006	.15	.863
48	Support8	Z	-.007	-.007	.149	.863

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	Face1	Z	-.002	-.006	0	2.031
2	Face1	Z	-.006	-.009	2.031	4.062
3	Face1	Z	-.009	-.01	4.062	6.093
4	Face1	Z	-.01	-.01	6.093	8.124
5	Face1	Z	-.01	-.009	8.124	10.155
6	Face1	Z	-.009	-.007	10.155	12.186
7	Face1	Z	-.007	-.001	12.186	14.217
8	STANDOFF2	Z	-.0007527	-.004	4.16	5.269
9	STANDOFF2	Z	-.004	-.004	5.269	6.379
10	STANDOFF2	Z	-.004	-.0005028	6.379	7.488
11	Standoff3	Z	-.002	-.003	4.16	5.824
12	Standoff3	Z	-.003	-.004	5.824	7.488
13	Support1	Z	-.011	-.011	0	.863
14	Support2	Z	-.008	-.008	.15	.863
15	Support3	Z	-.008	-.008	.15	.863
16	Support4	Z	-.009	-.009	.149	.863
17	FACE2	Z	-.002	-.006	0	2.031
18	FACE2	Z	-.006	-.009	2.031	4.062
19	FACE2	Z	-.009	-.01	4.062	6.093
20	FACE2	Z	-.01	-.01	6.093	8.124
21	FACE2	Z	-.01	-.009	8.124	10.155
22	FACE2	Z	-.009	-.007	10.155	12.186
23	FACE2	Z	-.007	-.001	12.186	14.217
24	Standoff1	Z	-.0007527	-.004	4.16	5.269
25	Standoff1	Z	-.004	-.004	5.269	6.379
26	Standoff1	Z	-.004	-.0005028	6.379	7.488
27	STANDOFF2	Z	-.002	-.003	4.16	5.824
28	STANDOFF2	Z	-.003	-.004	5.824	7.488
29	Support9	Z	-.011	-.011	7.935e-5	.863
30	Support10	Z	-.008	-.008	.15	.863
31	Support11	Z	-.008	-.008	.15	.863
32	Support12	Z	-.009	-.009	.15	.863
33	FACE3	Z	-.002	-.006	0	2.031
34	FACE3	Z	-.006	-.009	2.031	4.062
35	FACE3	Z	-.009	-.01	4.062	6.093
36	FACE3	Z	-.01	-.01	6.093	8.124
37	FACE3	Z	-.01	-.009	8.124	10.155
38	FACE3	Z	-.009	-.007	10.155	12.186
39	FACE3	Z	-.007	-.001	12.186	14.217
40	Standoff1	Z	-.002	-.003	4.16	5.824
41	Standoff1	Z	-.003	-.004	5.824	7.488
42	Standoff3	Z	-.0007527	-.004	4.16	5.269
43	Standoff3	Z	-.004	-.004	5.269	6.379
44	Standoff3	Z	-.004	-.0005028	6.379	7.488
45	Support5	Z	-.011	-.011	7.935e-5	.863
46	Support6	Z	-.008	-.008	.15	.863
47	Support7	Z	-.008	-.008	.15	.863
48	Support8	Z	-.009	-.009	.149	.863

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N1	N101	N102	N2	Z	Two Way	-.01
2	N1	N101	N103	N3	Z	Two Way	-.01
3	N103	N102	N2	N3	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	N1	N101	N102	N2	Z	Two Way	-.014
2	N1	N101	N103	N3	Z	Two Way	-.014
3	N103	N102	N2	N3	Z	Two Way	-.014

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
1	Live Load	DL					1			
2	Wind Load (0)	DL					18	41		
3	Dead Load	DL			-1.1		18		3	
4	Wind Load (30)	DL					36	82		
5	Wind Load (60)	DL					36	82		
6	Wind Load (90)	DL					18	41		
7	Wind Load (120)	DL					36	82		
8	Wind Load (150)	DL					36	82		
9	Wind Load (180)	DL					18	41		
10	Wind Load (210)	DL					36	82		
11	Wind Load (240)	DL					36	82		
12	Wind Load (270)	DL					18	41		
13	Wind Load (300)	DL					36	82		
14	Wind Load (330)	DL					36	82		
15	Maintanence (0)	DL					18	41		
16	Maintanence (30)	DL					36	82		
17	Maintanence (60)	DL					36	82		
18	Maintanence (90)	DL					18	41		
19	Maintanence (120)	DL					36	82		
20	Maintanence (150)	DL					36	82		
21	Maintanence (180)	DL					18	41		
22	Maintanence (210)	DL					36	82		
23	Maintanence (240)	DL					36	82		
24	Maintanence (270)	DL					18	41		
25	Maintanence (300)	DL					36	82		
26	Maintanence (330)	DL					36	82		
27	Ice Dead Load	DL					18	41	3	
28	Ice Wind Load (0)	DL					18	41		
29	Ice Wind Load (30)	DL					36	82		
30	Ice Wind Load (60)	DL					36	82		
31	Ice Wind Load (90)	DL					18	41		
32	Ice Wind Load (120)	DL					36	82		
33	Ice Wind Load (150)	DL					36	82		
34	Ice Wind Load (180)	DL					18	41		
35	Ice Wind Load (210)	DL					36	82		
36	Ice Wind Load (240)	DL					36	82		
37	Ice Wind Load (270)	DL					18	41		
38	Ice Wind Load (300)	DL					36	82		
39	Ice Wind Load (330)	DL					36	82		
40	Earthquake (x-direction)	DL	-.137				18			
41	Earthquake (y-direction)	DL		-.137			18			
42	Earthquake (z-direction)	DL			-.055		18			

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
43	BLC 3 Transient Area Loads	None						48		
44	BLC 27 Transient Area Loads	None						48		

Load Combinations

	Description	Sol..	PD..	SR..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact..	BLC	Fact...
1	1.4D	Yes	Y		3	1.4																		
2	1.2D + 1.0W(..	Yes	Y		3	1.2	2	1																
3	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	28	1														
4	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	15	1														
5	1.2D + 1.0W(..	Yes	Y		3	1.2	4	1																
6	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	29	1														
7	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	16	1														
8	1.2D + 1.0W(..	Yes	Y		3	1.2	5	1																
9	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	30	1														
10	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	17	1														
11	1.2D + 1.0W(..	Yes	Y		3	1.2	6	1																
12	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	31	1														
13	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	18	1														
14	1.2D + 1.0W(..	Yes	Y		3	1.2	7	1																
15	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	32	1														
16	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	19	1														
17	1.2D + 1.0W(..	Yes	Y		3	1.2	8	1																
18	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	33	1														
19	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	20	1														
20	1.2D + 1.0W(..	Yes	Y		3	1.2	9	1																
21	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	34	1														
22	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	21	1														
23	1.2D + 1.0W(..	Yes	Y		3	1.2	10	1																
24	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	35	1														
25	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	22	1														
26	1.2D + 1.0W(..	Yes	Y		3	1.2	11	1																
27	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	36	1														
28	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	23	1														
29	1.2D + 1.0W(..	Yes	Y		3	1.2	12	1																
30	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	37	1														
31	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	24	1														
32	1.2D + 1.0W(..	Yes	Y		3	1.2	13	1																
33	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	38	1														
34	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	25	1														
35	1.2D + 1.0W(..	Yes	Y		3	1.2	14	1																
36	1.2D + 1.0Di ..	Yes	Y		3	1.2	27	1	39	1														
37	1.2D + 1.5L ...	Yes	Y		3	1.2	1	1.5	26	1														
38	1.2D + 1.0E(...	Yes	Y		3	1.2	40	1	42	1	1	1												
39	1.2D + 1.0E(...	Yes	Y		3	1.2	41	1	42	1	1	1												
40	1.2D - 1.0E(x..	Yes	Y		3	1.2	40	-1	42	1	1	1												
41	1.2D - 1.0E(y..	Yes	Y		3	1.2	41	-1	42	1	1	1												

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N6	max	.443	11	1.931	2	2.452	21	9.908	21	.584	11	1.407	29
2		min	-.444	29	-1.822	20	.813	2	2.607	2	-.688	29	-1.403	11
3	N9	max	1.563	8	.966	8	2.415	9	-1.149	23	8.476	9	.999	17
4		min	-1.65	26	-1.018	26	.8	26	-4.809	6	2.221	26	-1.007	35
5	N12	max	1.667	14	.925	35	2.436	33	-1.176	17	-2.243	14	1.059	5

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
6		min	-1.545	32	-1.002	17	.81	14	-5.01	36	-8.48	33	-1.076	20
7	Totals:	max	3.258	11	3.29	2	6.964	27						
8		min	-3.258	29	-3.35	20	3.704	8						

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

	Member	Shape	Code Check	Loc[ft]	...	She...	Lo...	...	...	phi*P...	phi*P...	phi*...	phi*...	...	Eqn
1	Connect3	L2.5x2....	.237	0	2	.040	0	z	...	35.815	38.556	1.114	2.537	...	H2-1
2	Face1	HSS4X...	.276	14.217	21	.070	14....	y	...	59.878	139.5...	16.181	16.181	...	H1-1b
3	FACE3	HSS4X...	.280	14.217	9	.072	14....	y	8	59.878	139.5...	16.181	16.181	...	H1-1b
4	FACE2	HSS4X...	.273	14.217	33	.069	14....	y	...	59.878	139.5...	16.181	16.181	...	H1-1b
5	MP AL...	PIPE_2.0	.243	2.75	17	.080	2.75		...	14.916	32.13	1.872	1.872	...	H1-1b
6	RAIL1	PIPE_2.0	.223	9.188	2	.133	12....		2	5.019	32.13	1.872	1.872	...	H1-1b
7	RAIL3	PIPE_2.0	.239	9.187	26	.146	12....		...	5.019	32.13	1.872	1.872	...	H1-1b
8	RAIL2	PIPE_2.0	.224	9.187	14	.134	12....		...	5.019	32.13	1.872	1.872	...	H1-1b
9	Standoff1	HSS4X...	.617	0	21	.083	0	z	...	104.4...	139.5...	16.181	16.181	1	H1-1b
10	STAND...	HSS4X...	.608	0	9	.082	0	z	...	104.4...	139.5...	16.181	16.181	...	H1-1b
11	Standoff3	HSS4X...	.610	0	33	.082	0	z	2	104.4...	139.5...	16.181	16.181	...	H1-1b
12	Support1	L2x2x4	.016	0	30	.003	0	z	...	29.454	30.586	.691	1.577	...	H2-1
13	Support2	L2x2x4	.014	0	30	.002	0	z	...	29.454	30.586	.691	1.577	...	H2-1
14	Support3	L2x2x4	.014	0	30	.002	0	z	...	29.454	30.586	.691	1.577	...	H2-1
15	Support4	L2x2x4	.015	0	30	.002	0	z	...	29.454	30.586	.691	1.577	...	H2-1
16	Support5	L2x2x4	.016	0	21	.003	0	z	...	29.454	30.586	.691	1.577	...	H2-1
17	Support6	L2x2x4	.014	0	21	.002	0	z	...	29.454	30.586	.691	1.577	...	H2-1
18	Support7	L2x2x4	.014	0	21	.002	0	z	...	29.454	30.586	.691	1.577	...	H2-1
19	Support8	L2x2x4	.015	0	21	.002	0	z	9	29.454	30.586	.691	1.577	...	H2-1
20	Support9	L2x2x4	.016	0	3	.003	0	z	...	29.454	30.586	.691	1.577	...	H2-1
21	Support...	L2x2x4	.014	0	3	.002	0	z	...	29.454	30.586	.691	1.577	...	H2-1
22	Support...	L2x2x4	.014	0	3	.002	0	z	...	29.454	30.586	.691	1.577	...	H2-1
23	Support...	L2x2x4	.015	0	3	.002	0	z	...	29.454	30.586	.691	1.577	...	H2-1
24	MP AL...	PIPE_2.0	.259	2.75	14	.061	2.75		2	14.916	32.13	1.872	1.872	...	H1-1b
25	MP AL...	PIPE_2.0	.346	2.75	20	.053	2.75		...	14.916	32.13	1.872	1.872	...	H1-1b
26	MP AL...	PIPE_2.0	.286	2.75	27	.054	2.75		...	14.916	32.13	1.872	1.872	...	H1-1b
27	CONNE...	L2.5x2....	.258	0	26	.041	0	z	...	35.815	38.556	1.114	2.537	...	H2-1
28	CONNE...	L2.5x2....	.244	0	14	.039	0	z	...	35.815	38.556	1.114	2.537	...	H2-1
29	MP GA...	PIPE_2.0	.244	2.75	5	.085	2.75		8	14.916	32.13	1.872	1.872	...	H1-1b
30	MP GA...	PIPE_2.0	.271	2.75	2	.067	2.75		...	14.916	32.13	1.872	1.872	...	H1-1b
31	MP GA...	PIPE_2.0	.361	2.75	8	.058	2.75		...	14.916	32.13	1.872	1.872	...	H1-1b
32	MP GA...	PIPE_2.0	.285	2.75	15	.056	2.75		...	14.916	32.13	1.872	1.872	...	H1-1b
33	MP BE...	PIPE_2.0	.241	2.75	29	.080	2.75		...	14.916	32.13	1.872	1.872	...	H1-1b
34	MP BE...	PIPE_2.0	.269	2.75	26	.059	2.75		...	14.916	32.13	1.872	1.872	...	H1-1b
35	MP BE...	PIPE_2.0	.342	2.75	32	.055	2.75		8	14.916	32.13	1.872	1.872	...	H1-1b
36	MP BE...	PIPE_2.0	.287	2.75	36	.057	2.75		8	14.916	32.13	1.872	1.872	...	H1-1b
37	M65	SR 5/8	.082	.5	26	.028	.5		...	9.198	9.94	.104	.104	...	H1-1b
38	M66	SR 5/8	.083	.5	8	.029	0		8	9.198	9.94	.104	.104	...	H1-1b
39	M67	SR 5/8	.067	.5	30	.036	.5		...	9.198	9.94	.104	.104	...	H1-1b
40	M68	SR 5/8	.063	.5	8	.036	0		8	9.198	9.94	.104	.104	...	H1-1b
41	PIPE1	PIPE_2.0	.013	1.5	35	.008	1.5		5	26.521	32.13	1.872	1.872	...	H1-1b

POD
POWER OF DESIGN

POD Job #	**21-110138**
Site Number	**411189**
Site Name	**CRANBURYSU CT**

Calculations Based on *TIA-222-H*

Reactions from RISA-3D

Moment	9.908	ft-kip
Axial	0.367	kips
Shear	2.452	kips

Capacities

Bolts	*6.3%*
Flange Plate	*65.9%*

Bolt Information

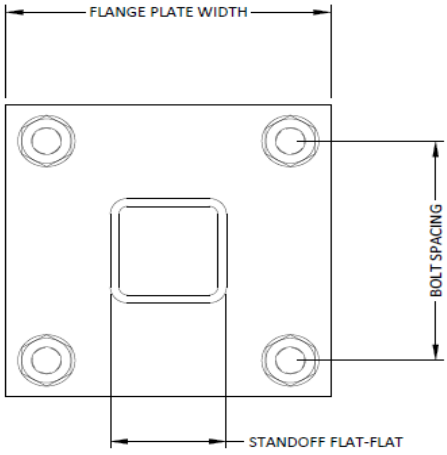
Grade	A325	
Threads in Shear Plane	Included	
Diameter	0.75	in.
Bolt Spacing	8	in.
Number of Rods	4	

Flange Plate Inforation

Width	10	in.
Thickness	0.75	in.
Grade	A36	

Standoff Information

Standoff Member	HSS	
Flat-Flat	4	in.
Thickness	0.25	in.



Bolt Calculations

ϕ	0.75	
A_{nt}	0.334	in^2
A_b	0.442	in^2
Fu	120	ksi
ϕR_{nV}	19.88	kips
ϕR_{nt}	30.10	kips
V	0.61	kips
F	7.51	kips
Capacity	6.3%	

Flange Plate Calculations

ϕ	0.9	
Fy	36	ksi
t_{min}	0.34	in
Z	1.4	in^3
ϕM_n	45.6	in-kip
M_u	30.0	in-kip
Capacity	65.9%	

Ver 1.0 - 3/5/2019

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Section 1 - Site Information

Site ID: CT11075C
Status: Draft
Version: 5
Project Type: Anchor
Approved: Not Approved
Approved By: Not Approved
Last Modified: 8/16/2021 4:13:57 PM
Last Modified By: Hansraj.Rana4@T-Mobile.com

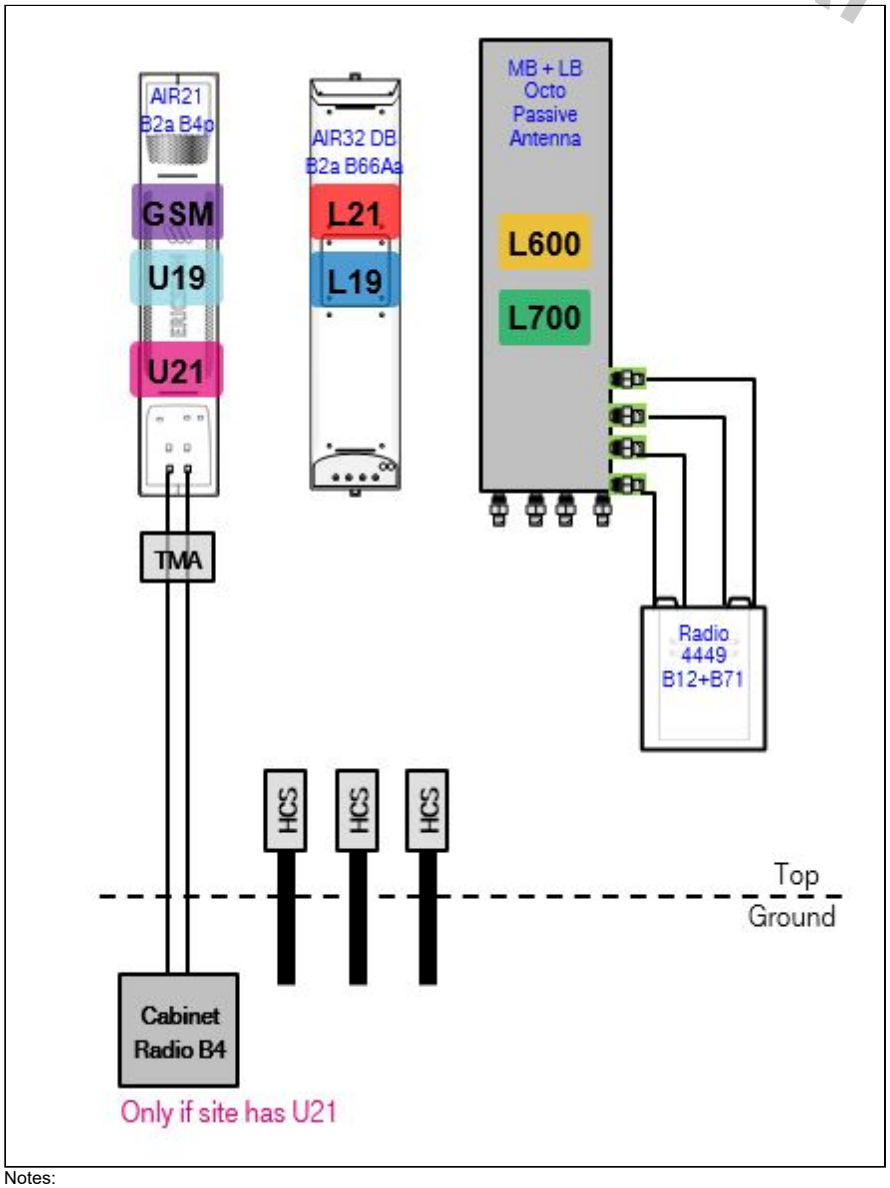
Site Name: Westport/ MP X 41
Site Class: Self Support Tower
Site Type: Structure Non Building
Plan Year: 2021
Market: CONNECTICUT CT
Vendor: Ericsson
Landlord: Verizon Wireless

Latitude: 41.16277300
Longitude: -73.37333600
Address: 2 Sunny Lane
City, State: Westport, CT
Region: NORTHEAST

RAN Template: 67D5A998E Outdoor			AL Template: 67D5998E_1xAIR+1OP	
Sector Count: 3	**Antenna Count:** 6	**Coax Line Count:** 0	**TMA Count:** 0	**RRU Count:** 6

Section 2 - Existing Template Images

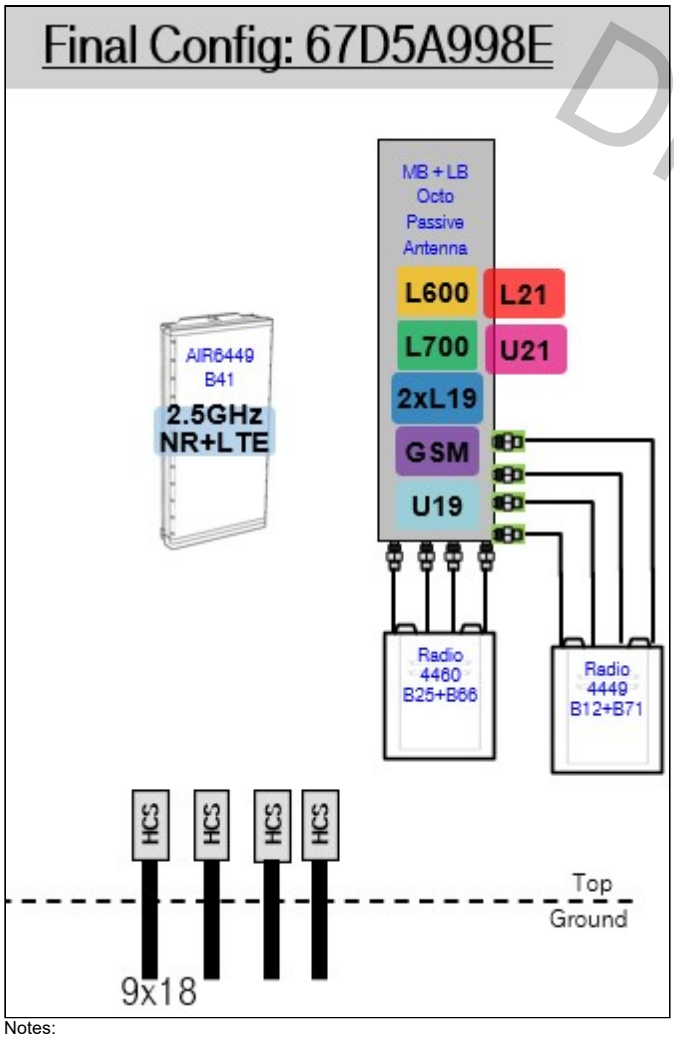
67D92DB_2xAIR+1OP.JPG



Notes:

Section 3 - Proposed Template Images

67D5A998E.jpg



Notes:

Section 4 - Siteplan Images

----- This section is intentionally blank. -----

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Section 5 - RAN Equipment

Existing RAN Equipment

Template: 67D92DB Outdoor

Enclosure	1	2
Enclosure Type	RBS 6131	S12000 Outdoor
Baseband	DUW30 U1900 (DECOMMISSIONED); DUW30 U2100; DUG20 G1900; BB 6630 L2100 L1900; BB 6630 L700 L600 N600	
Hybrid Cable System		Ericsson 6x12 HCS 4AWG 110m **(x 3)**
Radio	RU22 **(x 6)** U2100	

Proposed RAN Equipment

Template: 67D5A998E Outdoor

Enclosure	1	2	3
Enclosure Type	RBS 6131	Enclosure 6160	B160
Baseband	DUW30 U2100; DUG20 G1900; BB 6630 L700 L600 N600; BB 6630 L2100 L1900	BB 6648 L2500 N2500	
Hybrid Cable System	Ericsson 6x12 HCS 4AWG 110m **(x 3)**	PSU 4813; Ericsson Hybrid Trunk 6/24 4AWG 120m **(x 3)**	
Transport System		CSR IXRe V2 (Gen2)	

RAN Scope of Work:

** All cabinets are inside room, if space would be the problem we can remove 6131 Cabinet **

Remove Nortel Cabinet.

Remove and return all cabinet radios from existing base station cabinet.

Add (1) Enclosure 6160.

Add (1) iXRe Router to new Enclosure 6160.

Add (1) BB6648 for L2500 and N2500 (MMBB - Mixed Mode Baseband) to new Enclosure 6160.

Add (1) PSU4813 Voltage Booster to new Enclosure 6160.

Add (1) Battery Cabinet B160.

Existing : (3) 6X12

Add (3) 6X24 HCS terminating at the Enclosure 6160. Connect DC for the AIR6449 B41 to the PSU4813 Voltage Booster.

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Section 6 - A&L Equipment

Existing Template: 67D92DB_2xAIR+1OP
Proposed Template: 67D5998E_1xAIR+1OP

Sector 1 (Existing) view from behind

Coverage Type	A - Outdoor Macro									
Antenna	1				2				3	4
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)				Ericsson - AIR21 KRC118023-1_B2A_B4P (Quad)	Empty Antenna Mount (Empty mount)
Azimuth	30				30				30	
M. Tilt	0				0				0	
Height	110				110				110	
Ports	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Active Tech.	L2100	L2100	L1900	L1900	L700 L600 N600	L700 L600 N600			G1900	U2100
Dark Tech.										
Restricted Tech.										
Decomm. Tech.									U1900	
E. Tilt										
Cables	Fiber Jumper		Fiber Jumper		JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**				1-5/8" Coax - 350 ft. **(x2)** JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**
TMAs										Generic Twin Style 1B - AWS (AtAntenna)
Diplexers / Combiners										
Radio					Radio 4449 B71+B85 (AtAntenna)					
Sector Equipment										

Unconnected Equipment:

Scope of Work:

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Sector 1 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1		2			
Antenna Model	Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	30		30			
M. Tilt	0		0			
Height	110		110			
Ports	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**
Active Tech.	L2500 N2500	L2500 N2500	L700 L600 N600	L700 L600 N600	L2100 L1900 G1900 U2100	L2100 L1900 G1900 U2100
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt						
Cables	Fiber Jumper	Fiber Jumper	Coax Jumper **(x2)** Fiber Jumper **(x2)**	Coax Jumper **(x2)**	Coax Jumper **(x2)** Fiber Jumper **(x2)**	Coax Jumper **(x2)** Fiber Jumper **(x2)**
TMAs						
Diplexers / Combiners						
Radio			Radio 4449 B71+B85 (At Antenna)	SHARED Radio 4449 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	SHARED Radio 4460 B25+B66 (At Antenna)
Sector Equipment						

Unconnected Equipment:

Scope of Work:

There will be two antennae per sector.

Remove all TMAs.

Remove all Coaxial Lines.

Remove AIR32DB B2A/B4A from Position 1.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 1.

Add (1) Radio 4460 B25+B66 for L2100, L1900, U2100, and GSM to Position 2 at antenna.

Remove AIR21 B2A/B4P from Position 3.

Ensure RET control is enabled for all technology layers according to the Design Documents.

*A dashed border indicates shared equipment. Any connected equipment is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Sector 2 (Existing) view from behind

Coverage Type	A - Outdoor Macro									
Antenna	1				2				3	4
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)				Ericsson - AIR21 KRC118023-1_B2A_B4P (Quad)	Empty Antenna Mount (Empty mount)
Azimuth	150				150				150	
M. Tilt	0				0				0	
Height	110				110				110	
Ports	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Active Tech.	L2100	L2100	L1900	L1900	L700 L600 N600	L700 L600 N600			G1900	U2100
Dark Tech.										
Restricted Tech.										
Decomm. Tech.									U1900	
E. Tilt										
Cables	Fiber Jumper		Fiber Jumper		JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**				1-5/8" Coax - 350 ft. **(x2)** JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**
TMAs										Generic Twin Style 1B - AWS (AtAntenna)
Diplexers / Combiners										
Radio					Radio 4449 B71+B85 (AtAntenna)					
Sector Equipment										

Unconnected Equipment:

Scope of Work:

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Sector 2 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1		2			
Antenna Model	Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	150		150			
M. Tilt	0		0			
Height	110		110			
Ports	P1	P2	P3	P4	P5	P6
Active Tech.	L2500 N2500	L2500 N2500	L700 L600 N600	L700 L600 N600	L2100 L1900 G1900 U2100	L2100 L1900 G1900 U2100
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt						
Cables	Fiber Jumper	Fiber Jumper	Coax Jumper **(x2)** Fiber Jumper **(x2)**	Coax Jumper **(x2)**	Coax Jumper **(x2)** Fiber Jumper **(x2)**	Coax Jumper **(x2)** Fiber Jumper **(x2)**
TMAs						
Diplexers / Combiners						
Radio			Radio 4449 B71+B85 (At Antenna)	SHARED Radio 4449 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	SHARED Radio 4460 B25+B66 (At Antenna)
Sector Equipment						

Unconnected Equipment:

Scope of Work:

There will be two antennae per sector.

Remove all TMAs.

Remove all Coaxial Lines.

Remove AIR32DB B2A/B4A from Position 1.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 1.

Add (1) Radio 4460 B25+B66 for L2100, L1900, U2100, and GSM to Position 2 at antenna.

Remove AIR21 B2A/B4P from Position 3.

Ensure RET control is enabled for all technology layers according to the Design Documents.

*A dashed border indicates shared equipment. Any connected equipment is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Sector 3 (Existing) view from behind

Coverage Type	A - Outdoor Macro									
Antenna	1				2				3	4
Antenna Model	Ericsson - AIR32 KRD901146-1_B66A_B2A (Octo)				RFS - APXVAARR24_43-U-NA20 (Octo)				Ericsson - AIR21 KRC118023-1_B2A_B4P (Quad)	Empty Antenna Mount (Empty mount)
Azimuth	270				270				270	
M. Tilt	0				0				0	
Height	110				110				110	
Ports	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Active Tech.	L2100	L2100	L1900	L1900	L700 L600 N600	L700 L600 N600			G1900	U2100
Dark Tech.										
Restricted Tech.										
Decomm. Tech.									U1900	
E. Tilt										
Cables	Fiber Jumper		Fiber Jumper		JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**	JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**				1-5/8" Coax - 350 ft. **(x2)** JUMPER 6' SUREFLEX DIN MALE-DIN MALE **(x2)**
TMAs										Generic Twin Style 1B - AWS (AtAntenna)
Diplexers / Combiners										
Radio					Radio 4449 B71+B85 (AtAntenna)					
Sector Equipment										

Unconnected Equipment:

Scope of Work:

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Sector 3 (Proposed) view from behind

Coverage Type	A - Outdoor Macro					
Antenna	1		2			
Antenna Model	Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)		RFS - APXVAARR24_43-U-NA20 (Octo)			
Azimuth	270		270			
M. Tilt	0		0			
Height	110		110			
Ports	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**
Active Tech.	L2500 N2500	L2500 N2500	L700 L600 N600	L700 L600 N600	L2100 L1900 G1900 U2100	L2100 L1900 G1900 U2100
Dark Tech.						
Restricted Tech.						
Decomm. Tech.						
E. Tilt						
Cables	Fiber Jumper	Fiber Jumper	Coax Jumper **(x2)** Fiber Jumper **(x2)**	Coax Jumper **(x2)**	Coax Jumper **(x2)** Fiber Jumper **(x2)**	Coax Jumper **(x2)** Fiber Jumper **(x2)**
TMAs						
Diplexers / Combiners						
Radio			Radio 4449 B71+B85 (At Antenna)	SHARED Radio 4449 B71+B85 (At Antenna)	Radio 4460 B25+B66 (At Antenna)	SHARED Radio 4460 B25+B66 (At Antenna)
Sector Equipment						

Unconnected Equipment:

Scope of Work:

There will be two antennae per sector.

Remove all TMAs.

Remove all Coaxial Lines.

Remove AIR32DB B2A/B4A from Position 1.

Install (1) AIR6449 B41 for L2500 and N2500 in Position 1.

Add (1) Radio 4460 B25+B66 for L2100, L1900, U2100, and GSM to Position 2 at antenna.

Remove AIR21 B2A/B4P from Position 3.

Ensure RET control is enabled for all technology layers according to the Design Documents.

*A dashed border indicates shared equipment. Any connected equipment is denoted with the SHARED keyword.

RAN Template:	A&L Template:
67D5A998E Outdoor	67D5998E_1xAIR+1OP

CT11075C_Anchor_5_draft

Print Name: Standard (Scoping_P-RFDS_A)
PORs: Anchor_Phase 3

Section 7 - Power Systems Equipment

Existing Power Systems Equipment
----- This section is intentionally blank. -----

	Proposed Power Systems Equipment
Enclosure	1
Enclosure Type	Enclosure 6160

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: CT11075C

Westport/ MP X 41
2 Sunny Lane
Westport, Connecticut 06880

October 20, 2021

EBI Project Number: 6221006339

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**53.04%**

October 20, 2021

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

Emissions Analysis for Site: CT11075C - Westport/ MP X 41

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **2 Sunny Lane** in **Westport, 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 2 Sunny Lane in Westport, 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 power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

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

1) 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 UMTS channels (AWS Band - 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

7) 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.

8) 1 LTE Traffic channel (LTE 1C and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 60 Watts.

9) 1 LTE Broadcast channel (LTE 1C and 2C BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 20 Watts.

10) 1 NR Traffic channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.

11) 1 NR Broadcast channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 40 Watts.

12) 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.

13) 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.

14) The antennas used in this modeling are the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz channel(s) in Sector A, the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz channel(s) in Sector B, the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna

selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

15) The antenna mounting height centerline of the proposed antennas is 110 feet above ground level (AGL).

16) 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.

17) 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:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz / 2500 MHz / 2500 MHz
Gain:	22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd	Gain:	22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd	Gain:	22.65 dBd / 17.3 dBd / 22.65 dBd / 17.3 dBd
Height (AGL):	110 feet	Height (AGL):	110 feet	Height (AGL):	110 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	36,356.09	ERP (W):	36,356.09	ERP (W):	36,356.09
Antenna A1 MPE %:	**12.08%**	Antenna B1 MPE %:	**12.08%**	Antenna C1 MPE %:	**12.08%**
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 / 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz / 2100 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd / 15.65 dBd / 16.35 dBd / 16.35 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd / 15.65 dBd / 16.35 dBd / 16.35 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd / 15.65 dBd / 16.35 dBd / 16.35 dBd
Height (AGL):	110 feet	Height (AGL):	110 feet	Height (AGL):	110 feet
Channel Count:	15	Channel Count:	15	Channel Count:	15
Total TX Power (W):	620 Watts	Total TX Power (W):	620 Watts	Total TX Power (W):	620 Watts
ERP (W):	20,641.14	ERP (W):	20,641.14	ERP (W):	20,641.14
Antenna A2 MPE %:	**8.73%**	Antenna B2 MPE %:	**8.73%**	Antenna C2 MPE %:	**8.73%**

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	20.81%
Clearwire	0.14%
Nextel	0.4%
Verizon	24.94%
Sprint	4.86%
AT&T	1.89%
Site Total MPE % :	53.04%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	20.81%
T-Mobile Sector B Total:	20.81%
T-Mobile Sector C Total:	20.81%
Site Total MPE % :	53.04%

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 2500 MHz LTE 1C & 2C Traffic	1	11044.63	110.0	36.71	2500 MHz LTE 1C & 2C Traffic	1000	3.67%
T-Mobile 2500 MHz LTE 1C & 2C Broadcast	1	1074.06	110.0	3.57	2500 MHz LTE 1C & 2C Broadcast	1000	0.36%
T-Mobile 2500 MHz NR Traffic	1	22089.26	110.0	73.42	2500 MHz NR Traffic	1000	7.34%
T-Mobile 2500 MHz NR Broadcast	1	2148.13	110.0	7.14	2500 MHz NR Broadcast	1000	0.71%
T-Mobile 600 MHz LTE	2	591.73	110.0	3.93	600 MHz LTE	400	0.98%
T-Mobile 600 MHz NR	1	1577.94	110.0	5.24	600 MHz NR	400	1.31%
T-Mobile 700 MHz LTE	2	648.82	110.0	4.31	700 MHz LTE	467	0.92%
T-Mobile 1900 MHz GSM	4	1101.85	110.0	14.65	1900 MHz GSM	1000	1.46%
T-Mobile 1900 MHz LTE	2	2203.69	110.0	14.65	1900 MHz LTE	1000	1.46%
T-Mobile 2100 MHz UMTS	2	1294.56	110.0	8.61	2100 MHz UMTS	1000	0.86%
T-Mobile 2100 MHz LTE	2	2589.11	110.0	17.21	2100 MHz LTE	1000	1.72%
						Total:	**20.81%**

• 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:	20.81%
Sector B:	20.81%
Sector C:	20.81%
T-Mobile Maximum MPE % (Sector A):	20.81%
Site Total:	53.04%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **53.04%** 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.