



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

July 31, 2019

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

RE: **Notice of Exempt Modification for T-Mobile:
876322 - T-Mobile Site ID: CTNH101A
850 West Main Street, Branford, CT 06405
Latitude: 41° 16' 40.19" / Longitude: -72° 50' 12.70"**

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) total antennas at the 128-foot mount on the existing 131-foot Monopole Tower, located at 850 West Main Street, Branford, CT. The tower is owned by Crown Castle and the property is owned by the SBC Real Estate Group. T-Mobile now intends to replace six (6) existing antennas with six (6) new 1900/2100 MHz antennas. The new antennas will be installed at the 128-foot mount. T-Mobile is also proposing tower mount modifications as shown on the enclosed mount analysis.

Planned Modifications:

Tower:

Remove:

(4) 1 5/8" Coax

Remove and Replace:

(3) LNX 6515DS-A1M Antenna (**REMOVE**) - (3) RFS-APXVAARR24_43-U-NA20 Antenna 1900/2100 MHz (**REPLACE**)

(3) AIR21_B2P_B4A Antenna (**REMOVE**) - (3) AIR32_B66A_B2A Antenna 1900/2100 MHz (**REPLACE**)

(3) RRUS11 B12 (**REMOVE**) – (3) RADIO 4449 B71/B12 (**REPLACE**)

Install New:

(3) 1 5/8" Hybrid Fiber Line

Existing to Remain:

(6) 1 5/8" Coax

- (1) 1 5/8" Hybrid
- (3) AIR21_B2A_B4P Antenna 1900/2100 MHz
- (3) TMA

Ground:

Upgrade: Internal upgrade to existing ground cabinet. Upgrade cabinet breaker to 125A.

The facility was approved with conditions by the Town of Branford Planning and Zoning Commission on May 27, 1998. This exempt modification complies with the listed conditions.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to James B. Cosgrove, First Selectman for the Town of Branford, Harry Smith, Town Planner, Crown Castle, the tower owner, and SBC Real Estate Group, the property owner.

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

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

Sincerely,

Anne Marie Zsamba
Real Estate Specialist
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

Melanie A. Bachman

Page 3

(201) 236-9224

AnneMarie.Zsamba@crowncastle.com

Attachments

cc:

James B. Cosgrove, First Selectman
Town of Branford
Town Hall
1019 Main Street
Branford, CT 06405
203.488.8394

Harry Smith, Town Planner
Town of Branford
Town Hall – Planning & Zoning Dept.
1019 Main Street
Branford, CT 06405
203.488.1255

SBC Real Estate Group
819 Bridgeport Avenue
Shelton, CT 06484

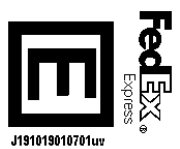
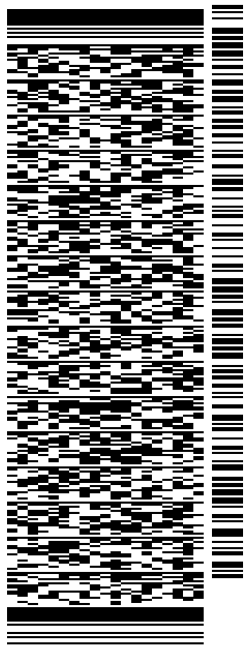
Crown Castle, Tower Owner

ORIGIN ID:GFLA (518) 373-3523
ANNE MARIE ZSAMBA
CROWN CASTLE
3 CORPORATE PARK DRIVE
SUITE 101
CLIFTON PARK, NY 12065
UNITED STATES US

SHIP DATE: 13JUL19
ACTWGTY: 2.00 LB
CAD: 104924194INNET4100
BILL SENDER

TO **SBC REAL ESTATE GROUP**
819 BRIDGEPORT AVENUE

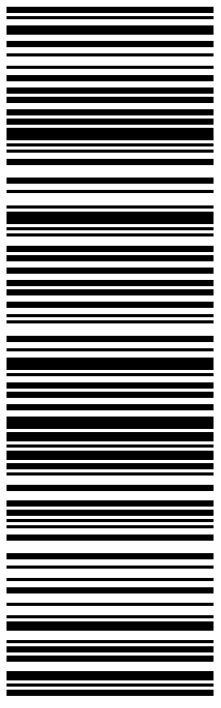
SHELTON CT 06484
(201) 236-9224 REF: 1734.7890
INV: DEPT:
PO:



565.I2/A6F9/23AD

TRK# 7757 3263 1041
0201
MON - 15 JUL 10:30A
PRIORITY OVERNIGHT

XE CIVA
06484
CT-US BDL



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

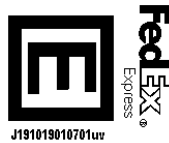
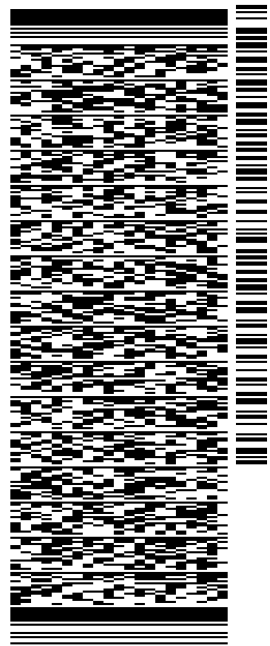
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ANNE MARIE ZSAMBRA
CROWN CASTLE
3 CORPORATE PARK DRIVE
SUITE 101
CLIFTON PARK, NY 12065
UNITED STATES US

SHIP DATE: 13JUL19
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CAD: 104924194INNET4100

BILL SENDER

TO HARRY SMITH, TOWN PLANNER
TOWN OF BRANFORD
1019 MAIN STREET
TOWN HALL - PLANNING DEPT
BRANFORD CT 06405
(203) 488-1255 REF: 1734.7890
INV: DEPT:
PO:

565J2/A6F9/23AD



J191019010701uv

TRK# 7757 3260 5765
0201
MON - 15 JUL 10:30A
PRIORITY OVERNIGHT

XE RSPA
06405
CT-US BDL

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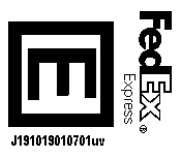
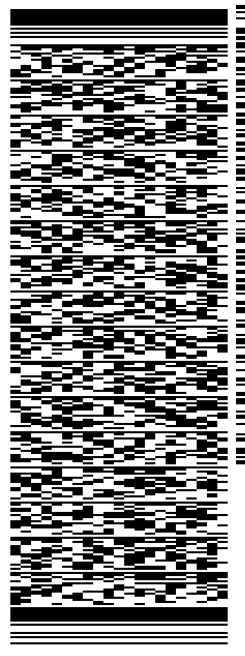
TO **JAMES B. COSGROVE, FIRST SELECTMAN**

TOWN OF BRANFORD
1019 MAIN STREET
TOWN HALL

BRANFORD CT 06405

REF: 1734.7890
(203) 488-8394
INV:
PO: DEPT:

565J2/A6F9/23AD

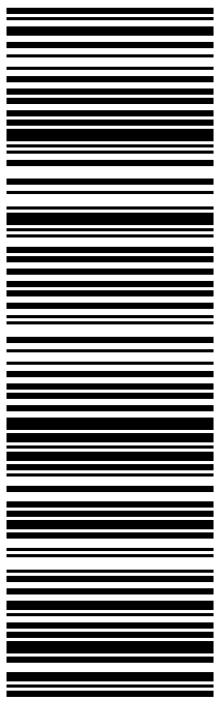


TRK# 7757 3258 6722
#0201

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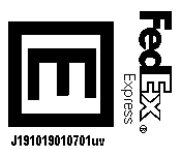
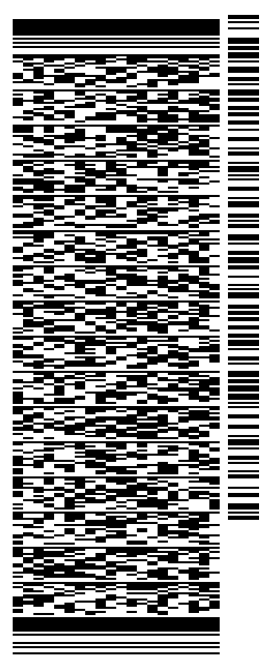
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SUITE 101
CLIFTON PARK, NY 12065
UNITED STATES US

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ACTWGT: 4.00 LB
CAD: 104924194IN/ET4100
BILL SENDER

TO **MELANIE BACHMAN**
CONNECTICUT SITING COUNCIL
10 FRANKLIN SQUARE

NEW BRITAIN CT 06051
(860) 827-2951 REF: 1765 6880
INV/ DEPT:
PO:



565.J2/A6F9/23AD

TRK# 7757 3259 3025
0201
MON - 15 JUL 10:30A
PRIORITY OVERNIGHT

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Exhibit A

Original Facility Approval

PLANNING AND ZONING COMMISSION
TOWN OF BRANFORD TOWN HALL DRIVE P.O. BOX 150
Branford, Connecticut 06405 488-1255
NOTICE OF DECISION

CE-1-6

May 27, 1998

Attorney John Knuff
Harris & Sagarin, P.C.
147 North Broad Street
Milford, Connecticut 06460

SUBJECT: Special Exception

LOCATION: 850 West Main Street

APPLICATION # 98-5.3 OWNERS OF RECORD: Remo, Lorraine and Isabel Tartaglia

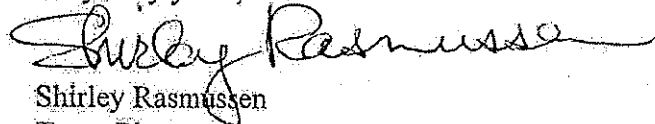
APPLICANT: Sprint Spectrum L.P. d/b/a Sprint PCS

Dear Sir:

At a meeting of the Branford Planning & Zoning Commission held on Thursday, May 21, 1998, the Commission voted to:

Approve your above subject application with the conditions noted below.

Very truly yours,



Shirley Rasmussen
Town Planner

NOTE: This Special Exception shall become effective only after it is filed on the Land Records in the office of the Town Clerk.

1. Prior to issuance of building permit, determine location of sanitary sewer lateral and show on revised plan. PCS tower and equipment shed are not to be located on top of lateral.

NOTE: Special Exception shall become null and void in the event the applicant fails to obtain a building permit within one (1) year of date of approval.
(Per Section 31.7 of the Branford Zoning Regulations)

Exhibit B

Property Card



Property Information

Owner	SBC REAL ESTATE GROUP
Address	850 WEST MAIN ST
Mailing Address	819 BRIDGEPORT AVE SHELTON , CT 06484
Land Use	- REST/CLUBS MDL94
Land Class	C

Census Tract	
Neighborhood	600
Zoning	BL
Acreage	2.22
Utilities	Public Water,Public Sewer,Gas
Lot Setting/ Desc	/ Level

Photo

PARCEL VALUATIONS (Assessed value = 70% of Appraised Value)

	Appraised	Assessed
Buildings	492900	345100
Outbuildings	40900	28700
Improvements	536700	375800
Extras	2900	2000
Land	763500	534400
Total	1300200	910200
Previous		

Construction Details

Year Built	1972
Stories	1
Building Style	Restaurant
Building Use	Comm/Ind
Building Condition	06
Total Rooms	
Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	Gable/Hip
Roof Cover	Asphalt

EXTERIOR WALLS:

Primary	MASONRY
Secondary	Concr/Cinder

INTERIOR WALLS:

Primary	Drywall
Secondary	Plywood Panel

FLOORS:

Primary	Wood Laminate
Secondary	Carpet

HEATING/AC:

Heating Type	Forced Air-Duc
Heating Fuel	Gas
AC Type	Central

BUILDING AREA:

Effective Building Area	
Gross Building Area	16507
Total Living Area	8026

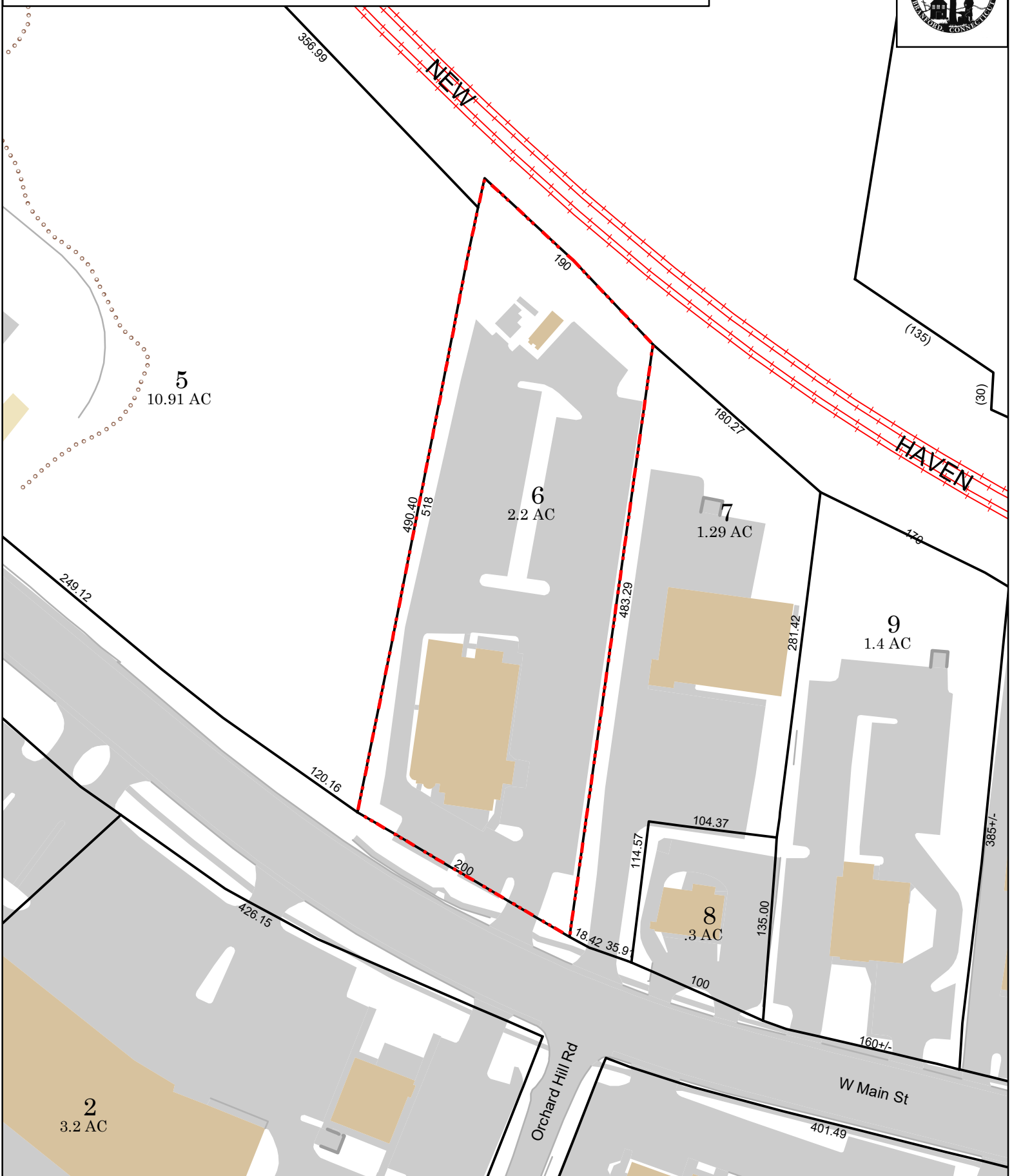
SALES HISTORY:

Sale Date	10/15/2003
Sale Price	850000
Book/ Page	0845/0896

Town of Branford, Connecticut - Assessment Parcel Map

Parcel: C08-000-001-00006

Address: 850 WEST MAIN ST



Approximate Scale: 1 inch : 100 feet

Grand List Date October 2018

Disclaimer:

This map is for informational purposes only.

All information is subject to verification by any user. The Town of Branford and its mapping contractors assume no legal responsibility for the information contained herein.

Exhibit C

Construction Drawings

T-Mobile

T-MOBILE SITE NAME:
NH101/GLOBALSIGNAL/BRAN

T-MOBILE SITE NUMBER:
CTNH101A

CROWN BU: 876322 / APP#: 479851
67D92DB CONFIGURATION

850 WEST MAIN STREET
BRANFORD, CT 06405

EXISTING 131'-0" MONOPOLE



PROJECT SUMMARY

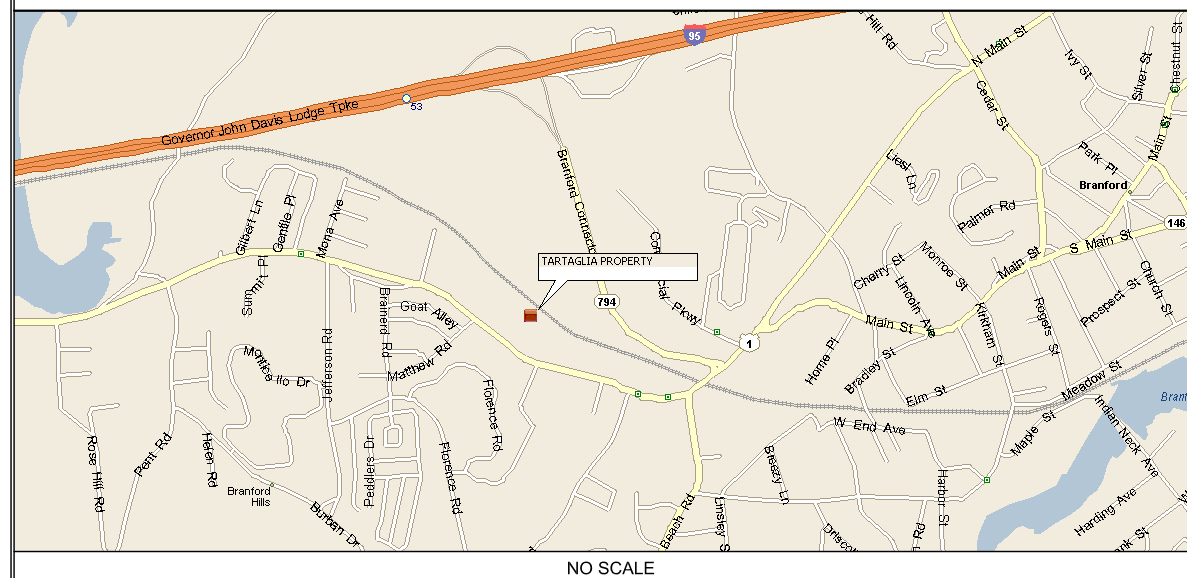
SITE TYPE: EXISTING EQUIPMENT UPGRADE
SITE ADDRESS: 850 WEST MAIN STREET
BRANFORD, CT 06405
JURISDICTION: TOWN OF BRANFORD

NAD83
LATITUDE: 41.27774654° N
LONGITUDE: 72.8368884° W
TOWER OWNER: CROWN CASTLE
3200 HORIZON DRIVE, SUITE 150
KING OF PRUSSIA, PA 19406
JASON SMITH
(610) 635-3225

CUSTOMER/APPLICANT: T-MOBILE
4 SYLVAN WAY
PARSIPPANY, NJ 07054
(973) 397-4800

OCCUPANCY TYPE: UNMANNED
A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT
FOR HUMAN HABITATION

LOCATION MAP



NO SCALE

DRAWING INDEX

SHEET #	SHEET DESCRIPTION	REV. #
T-1	TITLE SHEET	0
A-1	OVERALL SITE PLAN	0
A-2	ANTENNA/CABLE SCHEDULE AND AZIMUTH PLANS	0
A-3	TOWER ELEVATION	0
A-4	ANTENNA AND RRU DETAILS	0
E-1	PANEL SCHEDULE AND ONE-LINE DIAGRAM	0

CTNH101A
BU #: 876322
NH101/GLOBALSIGNAL/BRAN
850 WEST MAIN STREET
BRANFORD, CT 06405
EXISTING 131'-0" MONOPOLE

PROJECT NO: 135764.001.01
CHECKED BY: MDW

ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	5/14/19	BLB	PRELIMINARY REVIEW
0	7/25/19	JJD	CONSTRUCTION

CONTACT INFORMATION

A&E FIRM: B+T GROUP
1717 S. BOULDER, STE. 300
TULSA, OK 74119
CONTACT: MIKE OAKES
PHONE: (918) 587-4630
ELECTRIC PROVIDER: UNITED ILLUMINATING CO.
(203) 499-2000
TELCO PROVIDER: AT&T
(855) 637-9527

DRIVING DIRECTIONS

DEPART LA GUARDIA AIRPORT ON CENTRAL TERMINAL DR. BEAR RIGHT ONTO 94TH ST. TAKE RAMP RIGHT ONTO GRAND CENTRAL PKWY (GRAND CENTRAL PKWY EAST/EASTERN LONG IS). AT EXIT 9E, KEEP RIGHT ONTO RAMP (I-678/RT-25A E/NORTHERN BLVD/WHITESTONE EXPWY). KEEP LEFT TO STAY ON RAMP (I-678/VAN WYCK EXPWY/WHITESTONE BR/KENNEDY AIRPORT). KEEP LEFT TO STAY ON RAMP (I-678 N/WHITESTONE BR). TAKE RAMP LEFT ONTO I-678 (WHITESTONE EXPY). STAY ON I-678 (HUTCHINSON RIVER PKWY). ROAD NAME CHANGES TO HUTCHINSON RIVER PKWY N. AT EXIT 6, TAKE RAMP RIGHT ONTO I-95 (NEW ENGLAND THROUGHWAY). AT EXIT 16, STAY ON I-95 (NEW ENGLAND THROUGHWAY). STAY ON I-95 (NEW ENGLAND THROUGHWAY). AT EXIT 51, TAKE RAMP RIGHT ONTO FRONTAGE RD (FRONTAGE RD/US-1/EAST HAVEN). KEEP STRAIGHT ONTO FRONTAGE RD (SALTONSTALL PKWY). ROAD NAME CHANGES TO US-1 (FRONTAGE RD). KEEP STRAIGHT ONTO US-1 (SALTONSTALL PKWY). MERGE ONTO US-1 (MAIN ST). BEAR RIGHT ONTO US-1 (W MAIN ST). TURN LEFT ONTO ACCESS ROAD AND ARRIVE AT TARTAGLIA PROPERTY.

A/E DOCUMENT REVIEW STATUS

TITLE	SIGNATURE	DATE
T-MOBILE PROP:		
T-MOBILE R.F. MGR.:		
T-MOBILE NetOps:		
T-MOBILE CONST. MGR.:		
INTERCONNECT:		
T-MOBILE SITE DEV. MGR.:		
PROPERTY OWNER:		
PLANNING:		

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

CODE COMPLIANCE

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

CODE TYPE	CODE
BUILDING/DWELLING	2018 CT STATE BUILDING CODE
STRUCTURAL	2018 CT STATE BUILDING CODE
MECHANICAL	2018 CT STATE BUILDING CODE
ELECTRICAL	2018 CT STATE BUILDING CODE

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES:

- REMOVE AND REPLACE (6) EXISTING ANTENNAS AT 130'-0".
- REMOVE AND REPLACE (3) RRUS AT 130'-0".
- REMOVE AND REPLACE (1) DUS41 WITH (1) BB6630.
- REMOVE (4) COAX LINES.
- REMOVE (1) XMU.
- INSTALL (3) NEW 6x12 HCS CABLES.
- INSTALL (1) NEW BB6630.
- MODIFY EXISTING MOUNTS PER MOUNT ANALYSIS BY ETS DATED 4/29/19.

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CALL CONNECTICUT ONE CALL
(800) 922-4455
CALL 3 WORKING DAYS
BEFORE YOU DIG!



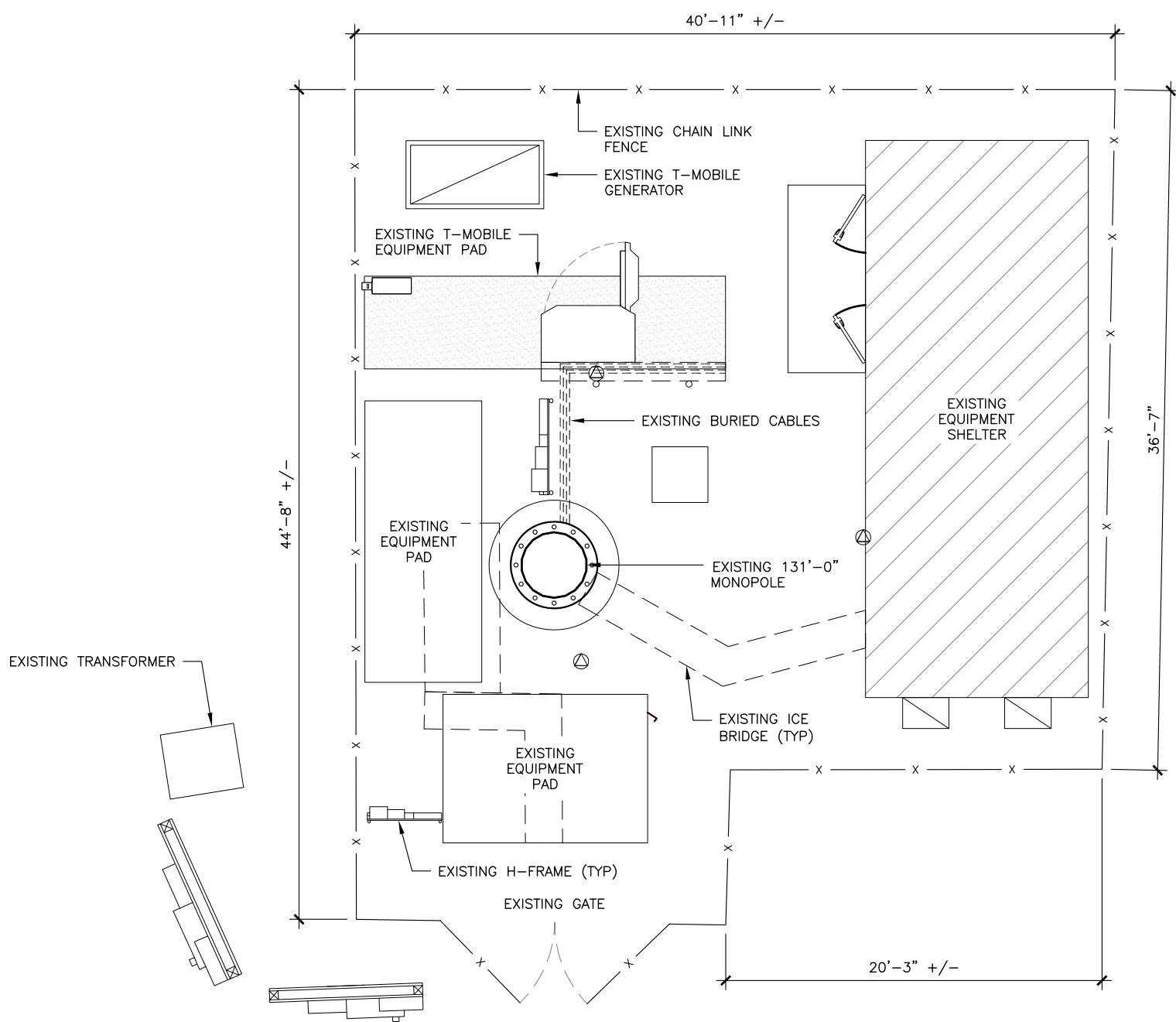
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/20



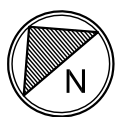
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

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

1:35764_876322_Tortaglia_Property.dwg - Sheet: A-1 - User: mwessel - Jul 25, 2019 - 12:33pm



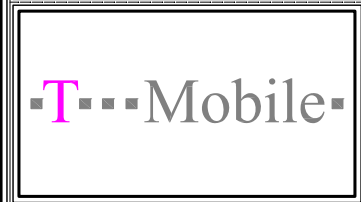
1 OVERALL SITE PLAN
 SCALE: 0' 1' 4' 8' 20'



GENERAL NOTES:

- SUBJECT PROPERTY IS SITUATED AT 850 WEST MAIN STREET, BRANFORD, CT 06405.
- APPLICANT: T-MOBILE
 A DELAWARE LIMITED LIABILITY COMPANY
 4 SYLVAN WAY
 PARSIPPANY, NEW JERSEY 07054
 (973) 397-4800

 TOWER OWNER: CROWN CASTLE INTERNATIONAL
- THE APPLICANT IS TO UPDATE THEIR NETWORK BY REMOVING FOUR (4) COAX LINES, REPLACING SIX (6) PANEL ANTENNAS AND THREE (3) RRUS, AND INSTALLING THREE (3) NEW HYBRID LINES MOUNTED ON AN EXISTING MONOPOLE.
- THIS FACILITY SHALL BE VISITED ON THE AVERAGE OF ONCE A MONTH FOR MAINTENANCE AND SHALL BE MONITORED FROM A REMOTE FACILITY.
- THE EXISTING SITE IS LOCATED AT LATITUDE OF 41.27774654' N± AND LONGITUDE OF 72.8368884' W±. THE HORIZONTAL DATUM ARE IN TERMS OF NORTH AMERICAN DATUM OF 1983 (NAD 83).
- THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND EACH OF THE DRAWINGS HAVE BEEN REVISED TO INDICATE "ISSUED FOR CONSTRUCTION"
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
 - CURRENT PREVAILING UTILITY COMPANY AUTHORITY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY B+T GROUP, P.A. IMMEDIATELY IF ANY FIELD-CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HEREON, AND/OR IF SUCH CONDITIONS WOULD OR COULD RENDER THE DESIGNS SHOWN HEREON INAPPROPRIATE AND/OR INEFFECTIVE.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT, REPAIR AND/OR REPLACE ANY DAMAGED STRUCTURES, UTILITIES OR LANDSCAPED AREA WHICH MAY BE DISTURBED DURING THE CONSTRUCTION OF THIS FACILITY.
- THE CONSTRUCTION CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ALL CONSTRUCTION MEANS AND METHODS. THE CONSTRUCTION CONTRACTOR IS ALSO RESPONSIBLE FOR ALL JOB SITE SAFETY.
- SITE INFORMATION SHOWN TAKEN FROM CROWN CASTLE SITE PLANS AND FROM CROWN CASTLE INSPECTION PHOTOS.
- NO GUARANTEE IS MADE NOR SHOULD BE ASSUMED AS TO THE COMPLETENESS OR ACCURACY OF THE HORIZONTAL OR VERTICAL LOCATIONS. ALL PARTIES UTILIZING THIS INFORMATION SHALL FIELD VERIFY THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN PRIOR TO CONSTRUCTION ACTIVITIES.
- ALL IMPROVEMENTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE TOWNSHIP ENGINEER WHO WILL BE GIVEN PROPER NOTIFICATION PRIOR TO THE START OF ANY CONSTRUCTION.



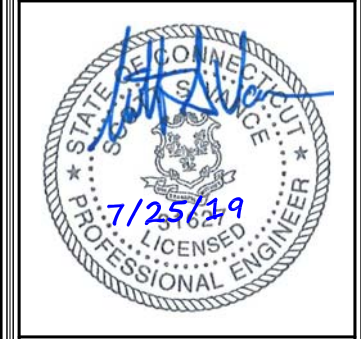
CTNH101A
 BU #: 876322
 NH101/GLOBALSIGNAL/BRAN
 850 WEST MAIN STREET
 BRANFORD, CT 06405
 EXISTING 131'-0" MONOPOLE

PROJECT NO: 135764.001.01
 CHECKED BY: MDW

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	5/14/19	BLB	PRELIMINARY REVIEW
0	7/25/19	JJD	CONSTRUCTION

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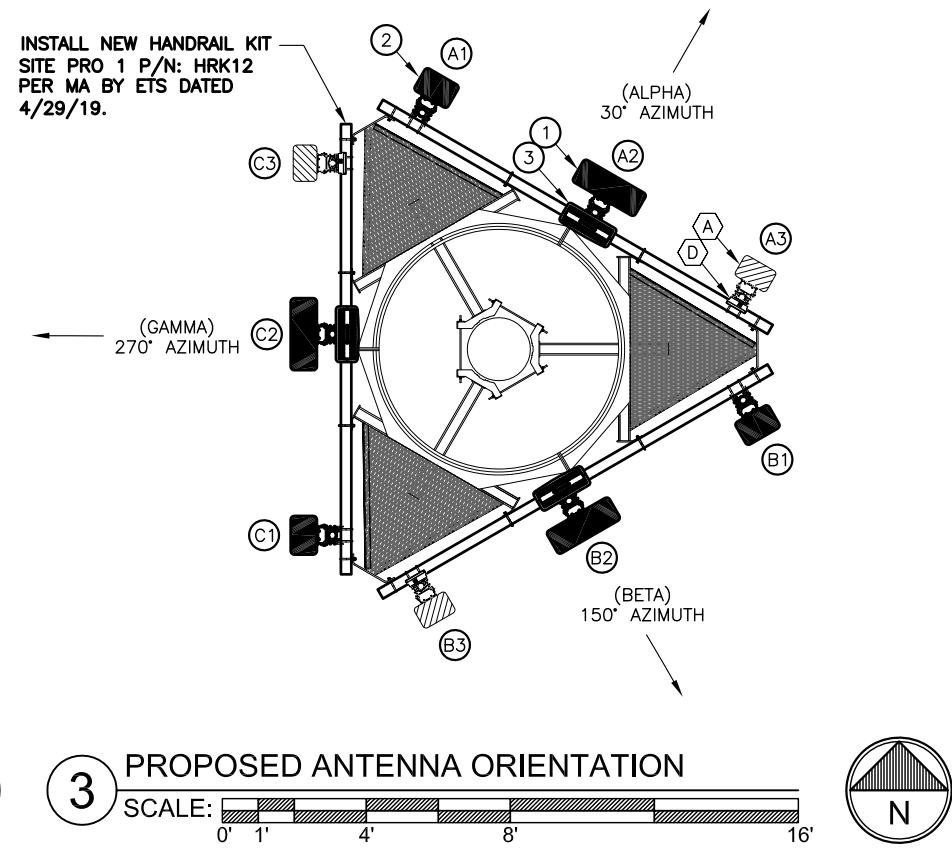
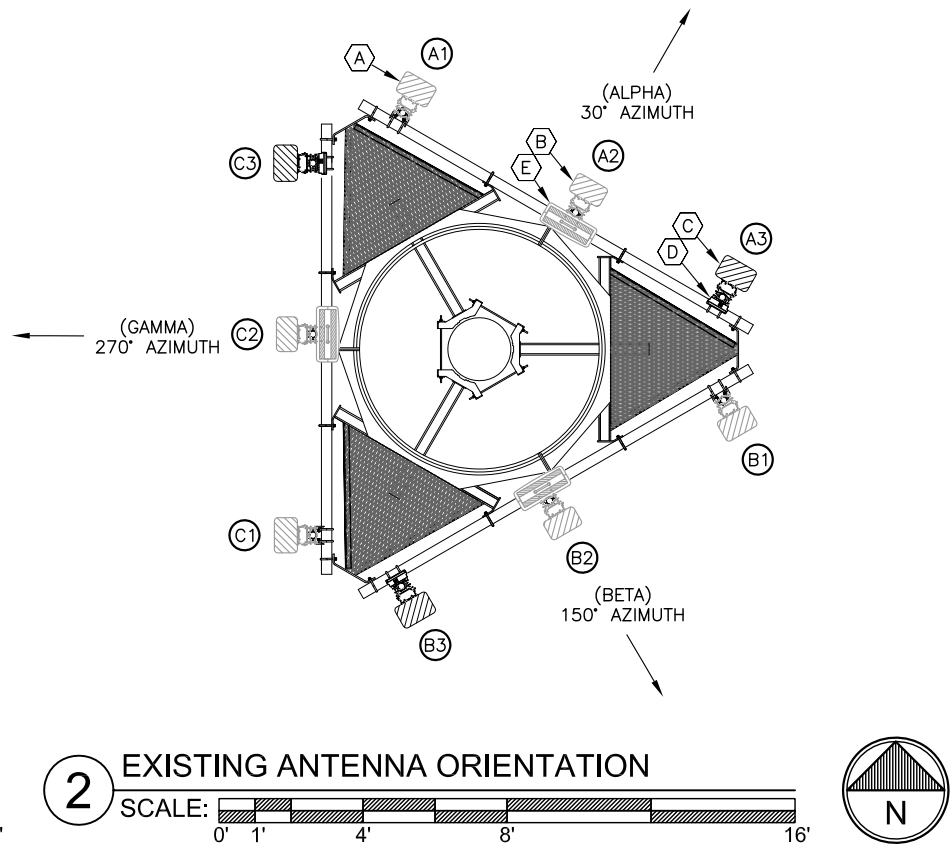
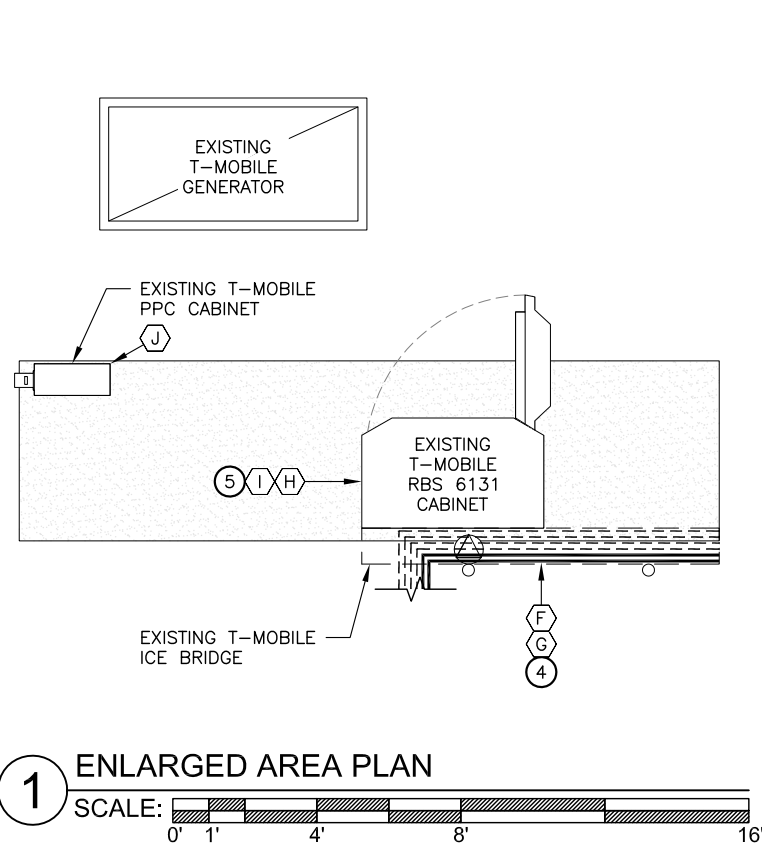


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SHEET NUMBER: **A-2** REVISION: **0**

ANTENNA AND CABLE SCHEDULE											
SECTOR	POSITION	EXISTING ANTENNAS	PROPOSED ANTENNA CONFIGURATION		E-TILT	M-TILT	ANTENNA CENTERLINE	TMA/RRU	CABLES	JUMPER TYPE	CABLE LENGTH
30° - ALPHA	A1	ERICSSON AIR32 KRD901146-1_B66A_B2A	LTE	-	2°/2'	0°	130'-0"	0/0	(1) 9x18 HCS	DC/FIBER	180'-0"
	A2	RFS APXVAARR24_43-U-NA20	LTE	B71+B12	2°/2'	0°		0/1	(1) 6x12 HCS	DC/FIBER 1/2" COAX	180'-0"
	A3	ERICSSON AIR21 KRC118023-1_B2A_B4P	GSM UMTS	-	2°/2'/2'	0°		1/0	(2) 1 5/8" COAX	DC/FIBER 1/2" COAX	180'-0"
150° - BETA	B1	ERICSSON AIR32 KRD901146-1_B66A_B2A	LTE	-	2°/2'	0°	130'-0"	0/0	(1) 9x18 HCS (SHARED)	DC/FIBER	180'-0"
	B2	RFS APXVAARR24_43-U-NA20	LTE	B71+B12	2°/2'	0°		0/1	(1) 6x12 HCS	DC/FIBER 1/2" COAX	180'-0"
	B3	ERICSSON AIR21 KRC118023-1_B2A_B4P	GSM UMTS	-	2°/2'/2'	0°		1/0	(2) 1 5/8" COAX	DC/FIBER 1/2" COAX	180'-0"
270° - GAMMA	G1	ERICSSON AIR32 KRD901146-1_B66A_B2A	LTE	-	2°/2'	0°	130'-0"	0/0	(1) 9x18 HCS (SHARED)	DC/FIBER	180'-0"
	G2	RFS APXVAARR24_43-U-NA20	LTE	B71+B12	2°/2'	0°		0/1	(1) 6x12 HCS	DC/FIBER 1/2" COAX	180'-0"
	G3	ERICSSON AIR21 KRC118023-1_B2A_B4P	GSM UMTS	-	2°/2'/2'	0°		1/0	(2) 1 5/8" COAX	DC/FIBER 1/2" COAX	180'-0"

LEGEND	
EXISTING/DEMOLITION NOTES	INSTALLATION NOTES
(A) EXISTING ERICSSON AIR21 KRC118023-1_B2P_B4A ANTENNA TO BE REMOVED (TOTAL OF 3)	(1) INSTALL RFS APXVAARR24_43-U-NA20 ON EXISTING MOUNT (TYP. OF 1 PER SECTOR, TOTAL OF 3)
(B) EXISTING ANDREW LNX-6515DS-A1M ANTENNA TO BE REMOVED (TOTAL OF 3)	(2) INSTALL ERICSSON AIR32 KRD901146-1_B66A_B2A ON EXISTING MOUNT (TYP. OF 1 PER SECTOR, TOTAL OF 3)
(C) EXISTING ERICSSON AIR21 KRC118023-1_B2A_B4P ANTENNA TO REMAIN (TOTAL OF 3)	(3) INSTALL RADIO 4449 B71/B12 (TYP. OF 1 PER SECTOR, TOTAL OF 3)
(D) EXISTING TMA TO REMAIN (TOTAL OF 3)	(4) INSTALL (3) 6x12 HCS CABLES FROM EQUIPMENT TO ANTENNAS FOLLOWING EXISTING ROUTING
(E) EXISTING RRUS11 B12 TO BE REMOVED (TOTAL OF 3)	(5) INSTALL (1) BB6630 FOR FUTURE 5G N600
(F) EXISTING 9x18 HCS CABLE TO REMAIN (TOTAL OF 1)	
(G) EXISTING (4) COAX CABLES TO BE REMOVED AND (6) COAX CABLES TO REMAIN	
(H) REPLACE (1) DUS41 WITH (1) BB6630 FOR L2100, L1900, L700, AND L600	
(I) EXISTING XMU TO BE REMOVED	
(J) 125A CABINET BREAKER UPGRADE	






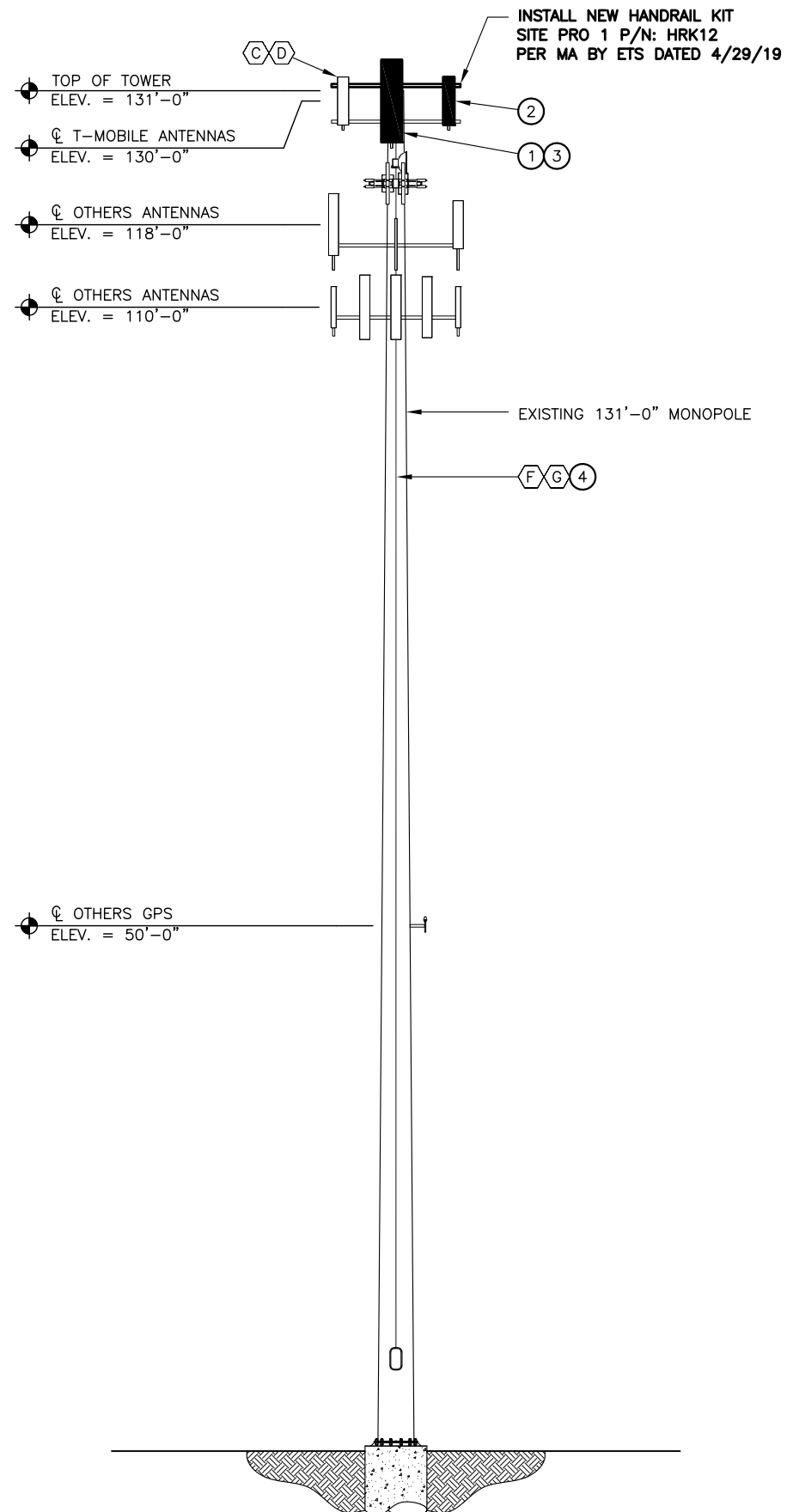
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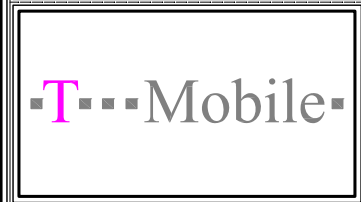
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EXISTING/DEMOLITION NOTES	INSTALLATION NOTES
(A) EXISTING ERICSSON AIR21 KRC118023-1_B2P_B4A ANTENNA TO BE REMOVED (TOTAL OF 3)	(1) INSTALL RFS APXVAARR24_43-U-NA20 ON EXISTING MOUNT (TYP. OF 1 PER SECTOR, TOTAL OF 3)
(B) EXISTING ANDREW LNX-6515DS-A1M ANTENNA TO BE REMOVED (TOTAL OF 3)	(2) INSTALL ERICSSON AIR32 KR901146-1_B66A_B2A ON EXISTING MOUNT (TYP. OF 1 PER SECTOR, TOTAL OF 3)
(C) EXISTING ERICSSON AIR21 KRC118023-1_B2A_B4P ANTENNA TO REMAIN (TOTAL OF 3)	(3) INSTALL RADIO 4449 B71/B12 (TYP. OF 1 PER SECTOR, TOTAL OF 3)
(D) EXISTING TMA TO REMAIN (TOTAL OF 3)	(4) INSTALL (3) 6x12 HCS CABLES FROM EQUIPMENT TO ANTENNAS FOLLOWING EXISTING ROUTING
(E) EXISTING RRUS11 B12 TO BE REMOVED (TOTAL OF 3)	
(F) EXISTING 9x18 HCS CABLE TO REMAIN (TOTAL OF 1)	
(G) EXISTING (4) COAX CABLES TO BE REMOVED AND (6) COAX CABLES TO REMAIN	

EXISTING MOUNT TO BE MODIFIED PER MOUNT ANALYSIS BY ETS DATED 4/29/19.

LEGEND:
 NEW
 EXISTING
 FUTURE



INSTALL NEW HANDRAIL KIT
 SITE PRO 1 P/N: HRK12
 PER MA BY ETS DATED 4/29/19



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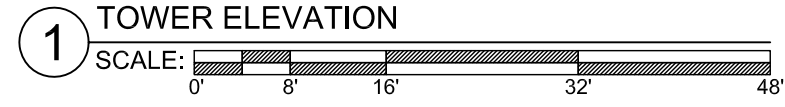
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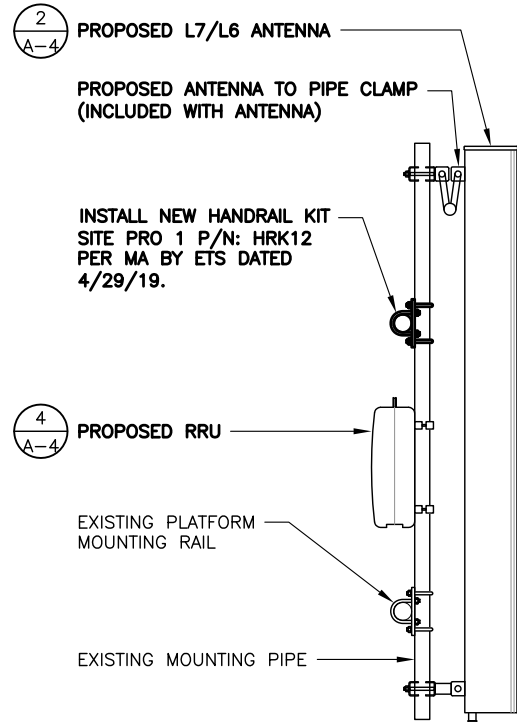
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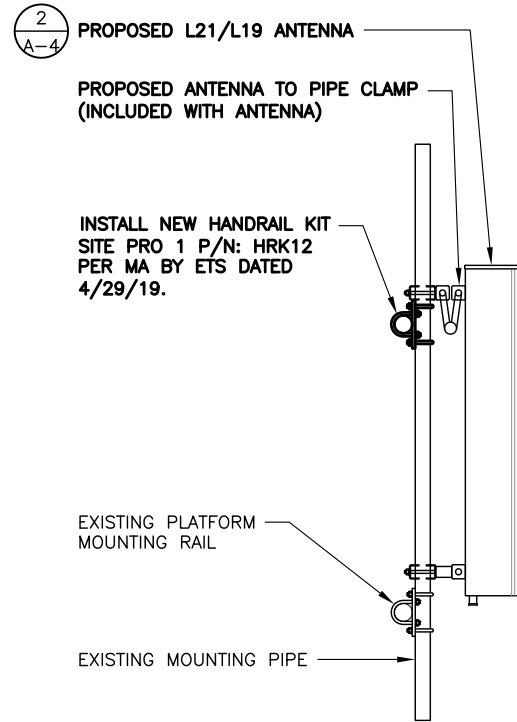
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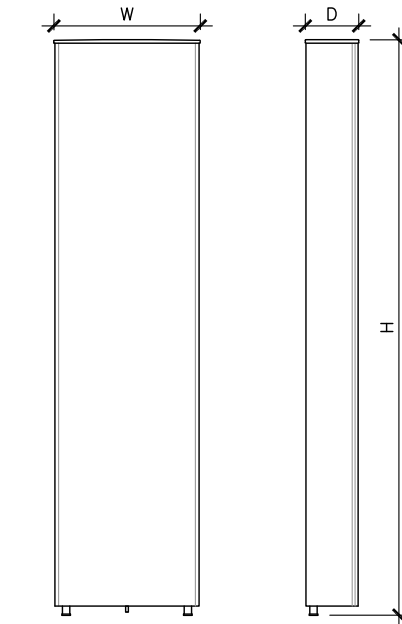
SHEET NUMBER: **A-3** REVISION: **0**



1 PROPOSED L7/L6 ANTENNA & RRU MOUNTING DETAIL
SCALE: N.T.S.

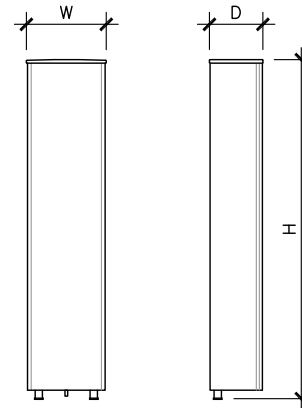


2 PROPOSED L21/L19 ANTENNA MOUNTING DETAIL
SCALE: N.T.S.



ANTENNA SPECS	
MANUFACTURER	RFS
MODEL #	APXVAARR24_43-U-NA20
WIDTH	24.0"
DEPTH	8.7"
HEIGHT	95.9"
WEIGHT	128.0 LBS

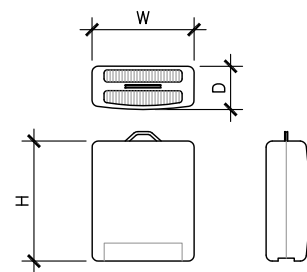
3 L7/L6 ANTENNA DETAIL
SCALE: N.T.S.



ANTENNA SPECS	
MANUFACTURER	ERICSSON
MODEL #	AIR32 KRD901146-1_B66A_B2A
WIDTH	12.9"
DEPTH	8.7"
HEIGHT	56.6"
WEIGHT	132.2 LBS

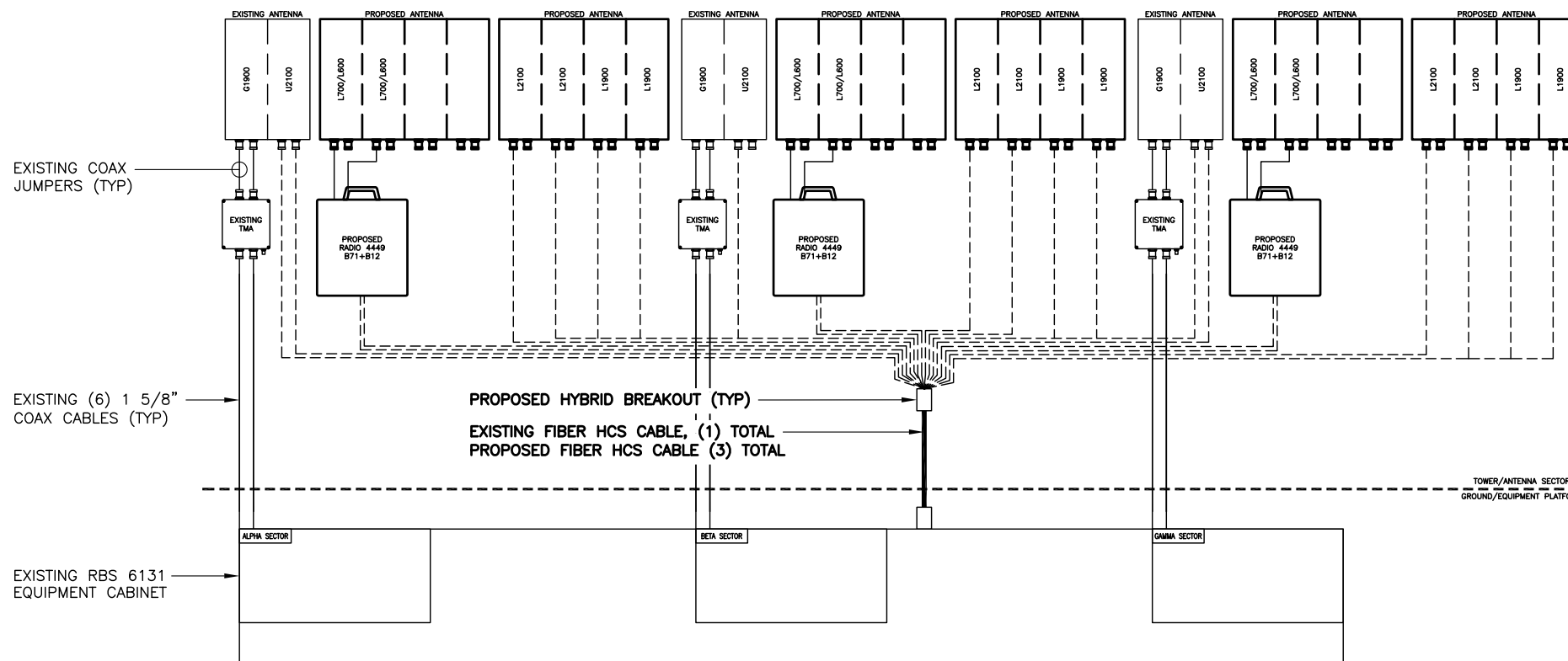
4 L21/L19 ANTENNA DETAIL
SCALE: N.T.S.

- NOTES:**
1. TAG ALL EXISTING AND PROPOSED CABLES/JUMPERS PER T-MOBILE SPECIFICATIONS.
 2. SEE RF SCHEDULE FOR CABLE AND JUMPER LENGTHS.
 3. REFER TO ANTENNA ORIENTATION ON SHEET A-2 FOR EXACT ANTENNA POSITIONING.

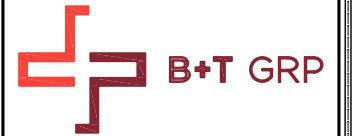


RRU SPECIFICATIONS	
MANUFACTURER	ERICSSON
MODEL #	4449
WIDTH	13.2"
DEPTH	9.2"
HEIGHT	14.9"
WEIGHT	75 LBS

5 REMOTE RADIO UNIT (RRU)
SCALE: N.T.S.



6 ANTENNA & CABLING SCHEMATIC
SCALE: N.T.S.



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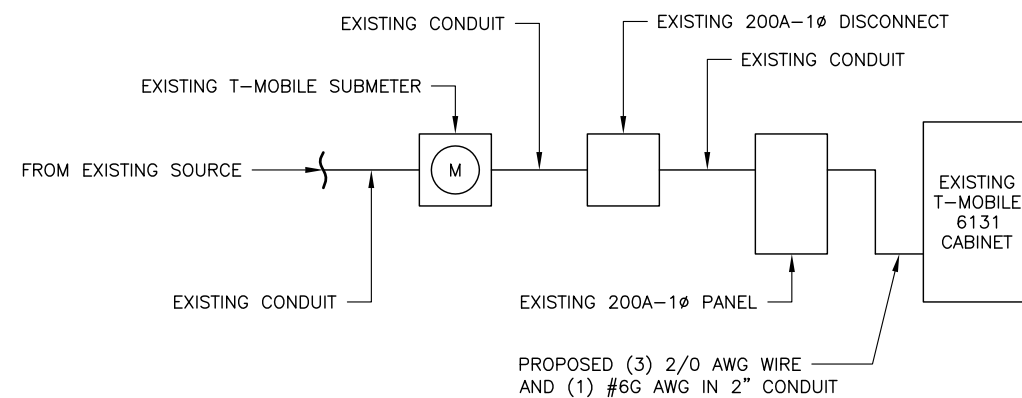
CTNH101A
 BU #: 876322
 NH101/GLOBALSIGNAL/BRAN
 850 WEST MAIN STREET
 BRANFORD, CT 06405
 EXISTING 131'-0" MONOPOLE

FINAL PANEL SCHEDULE							
LOAD	POLES	AMPS	BUS		AMPS	POLES	LOAD
			L1	L2			
TVSS (DARK)	2	60A	1	2	20A	1	TELCO GFI
BTS MAIN (DARK)	2	60A	3	4	125A	2	RBS 6131
			5	6			
LED LIGHT	1	20A	7	8			
			9	10			

RATED VOLTAGE: 120/240 _____ 1 PHASE, 3 WIRE
 BRANCH POLES: 12 24 30 42 APPROVED MF'RS
 RATED AMPS: 100 200 400 _____ CABINET: SURFACE FLUSH NEMA 1 3R 4X
 MAIN LUGS ONLY MAIN 200 AMPS BREAKER FUSED SWITCH HINGED DOOR KEYED DOOR LATCH
 FUSED CIRCUIT BREAKER BRANCH DEVICES _____ TO BE GFCI BREAKERS FULL NEUTRAL BUS GROUND BAR
 ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL

REPLACE EXISTING BREAKER IN POSITION 4 AND 6 WITH A NEW 2P 125A BREAKER
 REPLACE EXISTING WIRES FOR EXISTING 6131 CABINET WITH (3) 2/0 AWG THWN (COPPER) AND (1) #6G AWG. MINIMUM CONDUIT SIZE TO BE 2".
 IF 125A BREAKER WILL NOT PROPERLY FIT IN EXISTING PANEL, REPLACE (E) PANEL WITH SQUARE D PANEL Q012040M200RB (OR APPROVED EQUAL).
 UPGRADE FEEDER WIRES TO MEET AMPACITY IF NEW PANEL IS REQUIRED.
 FINAL PANEL DESIGN AND CALCULATIONS FOR WIRE SIZE WERE BASED OFF OF EXISTING PHOTOS

1 FINAL T-MOBILE PANEL DETAIL
 SCALE: N.T.S.



2 ONE-LINE DIAGRAM
 SCALE: N.T.S.

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Exhibit D

Structural Analysis Report

Date: **June 6, 2019**

Denice Nicholson
Crown Castle
46 Broadway
Albany, NY 12204

Paul J. Ford and Company
250 East Broad St., Suite 600
Columbus, OH 43215
(614) 221-6679

Subject: **Structural Analysis Report**

Carrier Designation: **T-Mobile Co-Locate**
Carrier Site Number: CTNH101A
Carrier Site Name: NH101/GlobalSignal/Bran

Crown Castle Designation: **Crown Castle BU Number:** 876322
Crown Castle Site Name: TARTAGLIA PROPERTY
Crown Castle JDE Job Number: 559324
Crown Castle Work Order Number: 1730668
Crown Castle Order Number: 479851 Rev. 1

Engineering Firm Designation: **Paul J. Ford and Company Project Number:** 37519-1866.001.7805
REVISED

Site Data: **850 West Main Street, BRANFORD, New Haven County, CT**
Latitude 41° 16' 40.188", Longitude -72° 50' 12.696"
130 Foot - Monopole Tower

Dear Denice Nicholson,

Paul J. Ford and Company is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above mentioned tower.

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

LC7: Proposed Equipment Configuration

Sufficient Capacity (99.9%)

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

Respectfully submitted by:


Aaron E. Pike, E.I.
Structural Designer
apike@pauljford.com

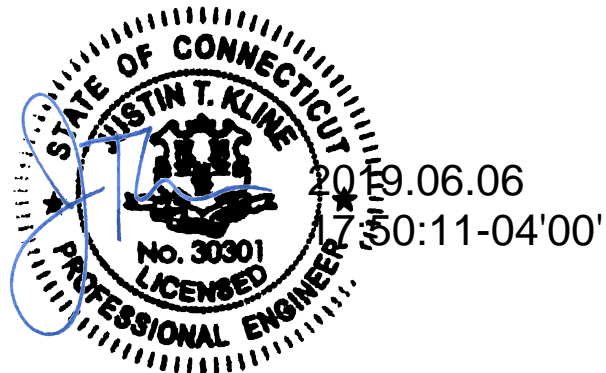


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1) INTRODUCTION

This tower is a 130 ft Monopole tower designed by SUMMIT in June of 1998.

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

2) ANALYSIS CRITERIA

TIA-222 Revision: TIA-222-H
 Risk Category: II
 Wind Speed: 130 mph
 Exposure Category: C
 Topographic Factor: 1
 Ice Thickness: 1.5 in
 Wind Speed with Ice: 50 mph
 Service Wind Speed: 60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
128.0	130.0	3	ericsson	AIR -32 B2A/B66AA w/ Mount Pipe	10	1-5/8
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe		
		3	ericsson	KRY 112 144/1		
		3	ericsson	RADIO 4449 B12/B71		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
	128.0	1	site pro 1	HRK-12		
	1	tower mounts	Platform Mount [LP 305-1]			

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
122.0	122.0	3	alcatel lucent	TME-1900MHz RRH (65 MHz)	--	--
		3	alcatel lucent	TME-800MHZ RRH		
		1	tower mounts	Side Arm Mount [SO 102-3]		
118.0	124.0	1	andrew	VHLP2-11	1 2 3	5/8 elliptical 1-1/4
		1	andrew	VHLP2-18		
	120.0	3	alcatel lucent	800 EXTERNAL NOTCH FILTER		
		3	alcatel lucent	TD-RRH8X20-25		
		3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
		9	rfs celwave	ACU-A20-N		
118.0	1	tower mounts	Platform Mount [LP 1201-1]			

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
110.0	111.0	3	commscope	CBC1923T-DS-43	2	1-5/8
		6	commscope	JAHH-65B-R3B w/ Mount Pipe		
		6	rfs celwave	APL868013-42T0 w/ Mount Pipe		
		2	rfs celwave	DB-T1-6Z-8AB-0Z		
		3	samsung telecommunications	RFV01U-D1A		
	3	samsung telecommunications	RFV01U-D2A			
	110.0	1	tower mounts	Platform Mount [LP 1201-1]		
50.0	52.0	1	kathrein	OG-860/1920/GPS-A	1	5/16
	50.0	1	tower mounts	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	Goodkind & O'Dea, CT03XC048, (6/19/1998)	1614542	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Summit, 3734, (6/25/1998)	1613605	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Summit, 3734, (6/25/1998)	1529811	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	Global Signal, 3017642, (12/1/2006)	2483868	CCISITES
4-POST-MODIFICATION INSPECTION	TEP, 070139, (2/7/2007)	1956410	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	CCI, 946748, (10/21/2014)	5359294	CCISITES
4-POST-MODIFICATION INSPECTION	TEP, 58619, (3/20/2015)	5606019	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	PJF, 37515-2708.002.7700, (10/2/2015)	5949763	CCISITES
4-POST-MODIFICATION INSPECTION	SGS, 156628, (2/5/2016)	6089118	CCISITES

3.1) Analysis Method

tnxTower (version 8.0.5.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

3.2) Assumptions

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) Monopole was modified in conformance with the referenced modification documents.
- 5) At the time of analysis, base plate grout was not installed, and it has not been considered in this analysis.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
130 - 125	Pole	TP18x18x0.375	Pole	10.3%	Pass
125 - 120.5	Pole	TP18x18x0.375	Pole	21.5%	Pass
120.5 - 120	Pole	TP22x18x0.375	Pole	15.3%	Pass
120 - 115	Pole	TP22.9x22x0.25	Pole	21.6%	Pass
115 - 110	Pole	TP23.8x22.9x0.25	Pole	30.3%	Pass
110 - 105	Pole	TP24.701x23.8x0.25	Pole	43.1%	Pass
105 - 100	Pole	TP25.601x24.701x0.25	Pole	54.0%	Pass
100 - 95	Pole	TP26.501x25.601x0.25	Pole	64.0%	Pass
95 - 91.5	Pole	TP27.131x26.501x0.25	Pole	70.6%	Pass
91.5 - 91.25	Pole + Reinf.	TP27.176x27.131x0.4875	Reinf. 5 Tension Rupture	52.6%	Pass
91.25 - 86.25	Pole + Reinf.	TP28.077x27.176x0.475	Reinf. 5 Tension Rupture	59.3%	Pass
86.25 - 81.25	Pole + Reinf.	TP28.977x28.077x0.475	Reinf. 5 Tension Rupture	65.7%	Pass
81.25 - 80.75	Pole + Reinf.	TP29.742x28.977x0.4688	Reinf. 5 Tension Rupture	66.3%	Pass
80.75 - 75.75	Pole + Reinf.	TP29.467x28.567x0.5375	Reinf. 5 Tension Rupture	65.4%	Pass
75.75 - 70.75	Pole + Reinf.	TP30.367x29.467x0.525	Reinf. 5 Tension Rupture	70.4%	Pass
70.75 - 65.75	Pole + Reinf.	TP31.267x30.367x0.5125	Reinf. 5 Tension Rupture	75.0%	Pass
65.75 - 63	Pole + Reinf.	TP31.762x31.267x0.5125	Reinf. 5 Tension Rupture	77.4%	Pass
63 - 62.73	Pole + Reinf.	TP31.811x31.762x0.725	Reinf. 2 Tension Rupture	56.4%	Pass
62.73 - 62.58	Pole + Reinf.	TP31.838x31.811x0.725	Reinf. 2 Tension Rupture	56.5%	Pass
62.58 - 61.5	Pole + Reinf.	TP32.032x31.838x0.7125	Reinf. 2 Tension Rupture	57.2%	Pass
61.5 - 61.25	Pole + Reinf.	TP32.077x32.032x0.5125	Reinf. 2 Tension Rupture	79.0%	Pass
61.25 - 56.25	Pole + Reinf.	TP32.977x32.077x0.5	Reinf. 2 Tension Rupture	83.3%	Pass

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
56.25 - 51.25	Pole + Reinf.	TP33.878x32.977x0.5	Reinf. 2 Tension Rupture	87.3%	Pass
51.25 - 46.25	Pole + Reinf.	TP34.778x33.878x0.4938	Reinf. 2 Tension Rupture	91.1%	Pass
46.25 - 42.25	Pole + Reinf.	TP36.308x34.778x0.4875	Reinf. 2 Tension Rupture	94.1%	Pass
42.25 - 36.75	Pole + Reinf.	TP35.863x34.873x0.675	Reinf. 4 Tension Rupture	75.7%	Pass
36.75 - 32.25	Pole + Reinf.	TP36.673x35.863x0.675	Reinf. 4 Tension Rupture	78.2%	Pass
32.25 - 32	Pole + Reinf.	TP36.718x36.673x0.925	Reinf. 1 Tension Rupture	57.2%	Pass
32 - 31.83	Pole + Reinf.	TP36.749x36.718x0.925	Reinf. 1 Tension Rupture	57.3%	Pass
31.83 - 31.48	Pole + Reinf.	TP36.812x36.749x0.55	Reinf. 1 Tension Rupture	84.8%	Pass
31.48 - 31.25	Pole + Reinf.	TP36.853x36.812x0.5438	Reinf. 1 Tension Rupture	84.9%	Pass
31.25 - 26.25	Pole + Reinf.	TP37.754x36.853x0.5375	Reinf. 1 Tension Rupture	87.6%	Pass
26.25 - 21.25	Pole + Reinf.	TP38.654x37.754x0.5375	Reinf. 1 Tension Rupture	90.1%	Pass
21.25 - 16.25	Pole + Reinf.	TP39.554x38.654x0.5313	Reinf. 1 Tension Rupture	92.5%	Pass
16.25 - 11.25	Pole + Reinf.	TP40.454x39.554x0.525	Reinf. 1 Tension Rupture	94.8%	Pass
11.25 - 6.25	Pole + Reinf.	TP41.355x40.454x0.525	Reinf. 1 Tension Rupture	97.1%	Pass
6.25 - 1.25	Pole + Reinf.	TP42.255x41.355x0.5188	Reinf. 1 Tension Rupture	99.3%	Pass
1.25 - 0	Pole + Reinf.	TP42.48x42.255x0.5188	Reinf. 1 Tension Rupture	99.9%	Pass
				Summary	
			Pole	83.1%	Pass
			Reinforcement	99.9%	Pass
			Overall	99.9%	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Bolts	120	39.6	Pass
1	Flange Plate		24.1	Pass
1	Anchor Rods	0	70.4	Pass
1	Base Plate	0	74.6	Pass
1	Base Foundation Steel	0	44.4	Pass
1	Base Foundation Soil Interaction	0	43.5	Pass

Structure Rating (max from all components) =	99.9%
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Notes:

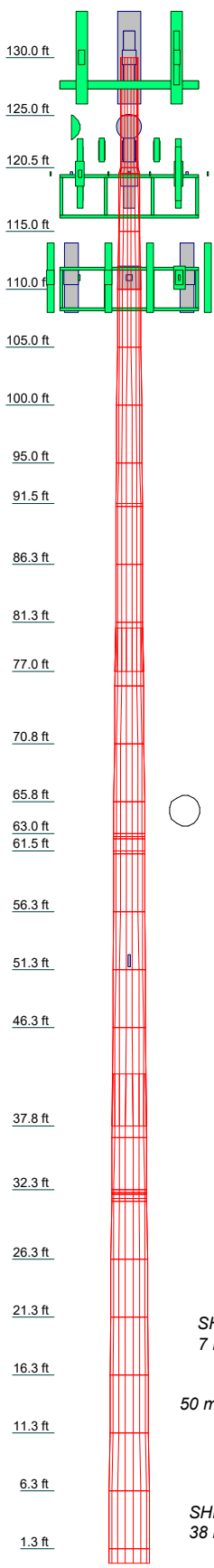
- All structural ratings are per TIA-222-H Section 15.5
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

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

APPENDIX A
TNXTOWER OUTPUT

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	1.25	12	0.5188	42.2	40.4544	42.48	A53-B-35	0.3750
2	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
3	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
4	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
5	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
6	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
7	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
8	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
9	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
10	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
11	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
12	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
13	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
14	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
15	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
16	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
17	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
18	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
19	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
20	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
21	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
22	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
23	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
24	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
25	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
26	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
27	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
28	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
29	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
30	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
31	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
32	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
33	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
34	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
35	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
36	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
37	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000
38	5.0000	12	0.5250	42.2	40.4544	42.48	A53-B-35	1.8000

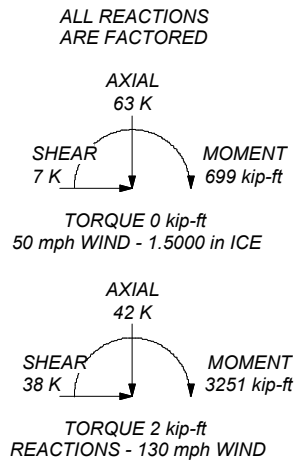



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	60 ksi	A572-65	65 ksi	80 ksi

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 130 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.0000 ft
8. TIA-222-H Annex S



 Paul J. Ford and Company 250 East Broad st., Suite 600 Columbus, OH 43215 Phone: (614) 221-6679 FAX:	Job: 130' MP Tartaglia Property Branford, CT		
	Project: PJF# 37519-1866.001.7805 BU# 876322		
	Client: Crown Castle	Drawn by: apike	App'd:
	Code: TIA-222-H	Date: 05/02/19	Scale: NTS
	Path:		Dwg No. E-1

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- 1) Tower is located in New Haven County, Connecticut.
- 2) Tower base elevation above sea level: 50.0000 ft.
- 3) Basic wind speed of 130 mph.
- 4) Risk Category II.
- 5) Exposure Category C.
- 6) Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- 7) Topographic Category: 1.
- 8) Crest Height: 0.0000 ft.
- 9) Nominal ice thickness of 1.5000 in.
- 10) Ice thickness is considered to increase with height.
- 11) Ice density of 56.00 pcf.
- 12) A wind speed of 50 mph is used in combination with ice.
- 13) Temperature drop of 50 °F.
- 14) Deflections calculated using a wind speed of 60 mph.
- 15) TIA-222-H Annex S.
- 16) A non-linear (P-delta) analysis was used.
- 17) Pressures are calculated at each section.
- 18) Stress ratio used in pole design is 1.05.
- 19) Tower analysis based on target reliabilities in accordance with Annex S.
- 20) Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- 21) Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	130.0000- 125.0000	5.0000	0.00	Round	18.0000	18.0000	0.3750		A53-B-35 (35 ksi)
L2	125.0000- 120.5000	4.5000	0.00	Round	18.0000	18.0000	0.3750		A53-B-35 (35 ksi)
L3	120.5000- 120.0000	0.5000	0.00	Round	18.0000	22.0000	0.3750		A53-B-35 (35 ksi)
L4	120.0000- 115.0000	5.0000	0.00	12	22.0000	22.9002	0.2500	1.0000	A572-65 (65 ksi)

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L5	115.0000- 110.0000	5.0000	0.00	12	22.9002	23.8005	0.2500	1.0000	A572-65 (65 ksi)
L6	110.0000- 105.0000	5.0000	0.00	12	23.8005	24.7007	0.2500	1.0000	A572-65 (65 ksi)
L7	105.0000- 100.0000	5.0000	0.00	12	24.7007	25.6009	0.2500	1.0000	A572-65 (65 ksi)
L8	100.0000- 95.0000	5.0000	0.00	12	25.6009	26.5012	0.2500	1.0000	A572-65 (65 ksi)
L9	95.0000- 91.5000	3.5000	0.00	12	26.5012	27.1313	0.2500	1.0000	A572-65 (65 ksi)
L10	91.5000- 91.2500	0.2500	0.00	12	27.1313	27.1763	0.4875	1.9500	A572-65 (65 ksi)
L11	91.2500- 86.2500	5.0000	0.00	12	27.1763	28.0766	0.4750	1.9000	A572-65 (65 ksi)
L12	86.2500- 81.2500	5.0000	0.00	12	28.0766	28.9768	0.4750	1.9000	A572-65 (65 ksi)
L13	81.2500- 77.0000	4.2500	3.75	12	28.9768	29.7420	0.4688	1.8750	A572-65 (65 ksi)
L14	77.0000- 75.7500	5.0000	0.00	12	28.5668	29.4670	0.5375	2.1500	A572-65 (65 ksi)
L15	75.7500- 70.7500	5.0000	0.00	12	29.4670	30.3671	0.5250	2.1000	A572-65 (65 ksi)
L16	70.7500- 65.7500	5.0000	0.00	12	30.3671	31.2672	0.5125	2.0500	A572-65 (65 ksi)
L17	65.7500- 63.0000	2.7500	0.00	12	31.2672	31.7623	0.5125	2.0500	A572-65 (65 ksi)
L18	63.0000- 62.7300	0.2700	0.00	12	31.7623	31.8109	0.7250	2.9000	A572-65 (65 ksi)
L19	62.7300- 62.5800	0.1500	0.00	12	31.8109	31.8379	0.7250	2.9000	A572-65 (65 ksi)
L20	62.5800- 61.5000	1.0800	0.00	12	31.8379	32.0324	0.7125	2.8500	A572-65 (65 ksi)
L21	61.5000- 61.2500	0.2500	0.00	12	32.0324	32.0774	0.5125	2.0500	A572-65 (65 ksi)
L22	61.2500- 56.2500	5.0000	0.00	12	32.0774	32.9775	0.5000	2.0000	A572-65 (65 ksi)
L23	56.2500- 51.2500	5.0000	0.00	12	32.9775	33.8776	0.5000	2.0000	A572-65 (65 ksi)
L24	51.2500- 46.2500	5.0000	0.00	12	33.8776	34.7778	0.4938	1.9750	A572-65 (65 ksi)
L25	46.2500- 37.7500	8.5000	4.50	12	34.7778	36.3080	0.4875	1.9500	A572-65 (65 ksi)
L26	37.7500- 36.7500	5.5000	0.00	12	34.8729	35.8632	0.6750	2.7000	A572-65 (65 ksi)
L27	36.7500- 32.2500	4.5000	0.00	12	35.8632	36.6734	0.6750	2.7000	A572-65 (65 ksi)
L28	32.2500- 32.0000	0.2500	0.00	12	36.6734	36.7184	0.9250	3.7000	A572-65 (65 ksi)
L29	32.0000- 31.8300	0.1700	0.00	12	36.7184	36.7490	0.9250	3.7000	A572-65 (65 ksi)
L30	31.8300- 31.4800	0.3500	0.00	12	36.7490	36.8120	0.5500	2.2000	A572-65 (65 ksi)
L31	31.4800- 31.2500	0.2300	0.00	12	36.8120	36.8534	0.5437	2.1750	A572-65 (65 ksi)
L32	31.2500- 26.2500	5.0000	0.00	12	36.8534	37.7537	0.5375	2.1500	A572-65 (65 ksi)
L33	26.2500- 21.2500	5.0000	0.00	12	37.7537	38.6539	0.5375	2.1500	A572-65 (65 ksi)
L34	21.2500- 16.2500	5.0000	0.00	12	38.6539	39.5542	0.5313	2.1250	A572-65 (65 ksi)
L35	16.2500- 11.2500	5.0000	0.00	12	39.5542	40.4544	0.5250	2.1000	A572-65 (65 ksi)
L36	11.2500- 6.2500	5.0000	0.00	12	40.4544	41.3547	0.5250	2.1000	A572-65 (65 ksi)
L37	6.2500-1.2500	5.0000	0.00	12	41.3547	42.2549	0.5188	2.0750	A572-65 (65 ksi)
L38	1.2500-0.0000	1.2500		12	42.2549	42.4800	0.5188	2.0750	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	18.0000	20.7640	806.6313	6.2328	9.0000	89.6257	1613.2627	10.3758	0.0000	0
	18.0000	20.7640	806.6313	6.2328	9.0000	89.6257	1613.2627	10.3758	0.0000	0
L2	18.0000	20.7640	806.6313	6.2328	9.0000	89.6257	1613.2627	10.3758	0.0000	0
	18.0000	20.7640	806.6313	6.2328	9.0000	89.6257	1613.2627	10.3758	0.0000	0
L3	18.0000	20.7640	806.6313	6.2328	9.0000	89.6257	1613.2627	10.3758	0.0000	0
	22.0000	25.4764	1489.6700	7.6467	11.0000	135.4245	2979.3401	12.7306	0.0000	0
L4	22.6879	17.5087	1057.2060	7.7865	11.3960	92.7699	2142.1860	8.6173	5.2260	20.904
	23.6199	18.2334	1193.9877	8.1088	11.8623	100.6538	2419.3428	8.9739	5.4673	21.869
L5	23.6199	18.2334	1193.9877	8.1088	11.8623	100.6538	2419.3428	8.9739	5.4673	21.869
	24.5519	18.9581	1342.0858	8.4311	12.3286	108.8592	2719.4297	9.3306	5.7085	22.834
L6	24.5519	18.9581	1342.0858	8.4311	12.3286	108.8592	2719.4297	9.3306	5.7085	22.834
	25.4839	19.6828	1501.9505	8.7533	12.7950	117.3861	3043.3589	9.6873	5.9498	23.799
L7	25.4839	19.6828	1501.9505	8.7533	12.7950	117.3861	3043.3589	9.6873	5.9498	23.799
	26.4158	20.4075	1674.0311	9.0756	13.2613	126.2345	3392.0408	10.0440	6.1910	24.764
L8	26.4158	20.4075	1674.0311	9.0756	13.2613	126.2345	3392.0408	10.0440	6.1910	24.764
	27.3478	21.1322	1858.7778	9.3979	13.7276	135.4044	3766.3878	10.4006	6.4323	25.729
L9	27.3478	21.1322	1858.7778	9.3979	13.7276	135.4044	3766.3878	10.4006	6.4323	25.729
	28.0002	21.6395	1995.8776	9.6235	14.0540	142.0146	4044.1890	10.6503	6.6012	26.405
L10	27.9164	41.8241	3789.7120	9.5385	14.0540	269.6531	7678.9840	20.5846	5.9647	12.235
	27.9630	41.8948	3808.9510	9.5546	14.0773	270.5732	7717.9675	20.6193	5.9768	12.26
L11	27.9675	40.8397	3716.5027	9.5591	14.0773	264.0060	7530.6421	20.1001	6.0103	12.653
	28.8994	42.2166	4105.2233	9.8814	14.5437	282.2689	8318.2955	20.7777	6.2515	13.161
L12	28.8994	42.2166	4105.2233	9.8814	14.5437	282.2689	8318.2955	20.7777	6.2515	13.161
	29.8314	43.5935	4520.1452	10.2036	15.0100	301.1426	9159.0397	21.4554	6.4928	13.669
L13	29.8336	43.0293	4463.6047	10.2059	15.0100	297.3757	9044.4733	21.1777	6.5095	13.887
	30.6258	44.1843	4832.7678	10.4798	15.4064	313.6866	9792.4978	21.7462	6.7146	14.324
L14	30.0839	48.5118	4864.7245	10.0345	14.7976	328.7506	9857.2508	23.8760	6.2154	11.564
	30.3168	50.0697	5348.6153	10.3567	15.2639	350.4098	10837.744	24.6428	6.4566	12.012
L15	30.3212	48.9264	5231.0038	10.3612	15.2639	342.7046	10599.431	24.0801	6.4901	12.362
	31.2531	50.4481	5734.4164	10.6835	15.7302	364.5492	11619.482	24.8290	6.7314	12.822
L16	31.2575	49.2676	5604.9200	10.6879	15.7302	356.3168	11357.087	24.2480	6.7649	13.2
	32.1894	50.7530	6127.3355	11.0102	16.1964	378.3140	12415.642	24.9791	7.0061	13.67
L17	32.1894	50.7530	6127.3355	11.0102	16.1964	378.3140	12415.642	24.9791	7.0061	13.67
	32.7020	51.5700	6428.0291	11.1874	16.4529	390.6933	13024.929	25.3812	7.1388	13.929
L18	32.6270	72.4566	8909.0634	11.1114	16.4529	541.4897	18052.177	35.6609	6.5693	9.061
	32.6773	72.5701	8950.9869	11.1288	16.4781	543.2065	18137.126	35.7168	6.5823	9.079
L19	32.6773	72.5701	8950.9869	11.1288	16.4781	543.2065	18137.126	35.7168	6.5823	9.079
	32.7053	72.6331	8974.3340	11.1384	16.4920	544.1614	18184.433	35.7478	6.5896	9.089
L20	32.7097	71.4095	8830.2385	11.1429	16.4920	535.4242	17892.457	35.1456	6.6231	9.296
	32.9110	71.8556	8996.7521	11.2125	16.5928	542.2096	18229.858	35.3651	6.6752	9.369
L21	32.9815	52.0156	6596.1141	11.2841	16.5928	397.5297	13365.515	25.6005	7.2112	14.071
	33.0281	52.0899	6624.4101	11.3002	16.6161	398.6749	13422.850	25.6371	7.2232	14.094
L22	33.0325	50.8395	6470.5202	11.3047	16.6161	389.4134	13111.028	25.0217	7.2567	14.513
	33.9644	52.2888	7039.7851	11.6269	17.0823	412.1089	14264.513	25.7349	7.4980	14.996
L23	33.9644	52.2888	7039.7851	11.6269	17.0823	412.1089	14264.513	25.7349	7.4980	14.996
	34.8963	53.7380	7641.4954	11.9492	17.5486	435.4473	15483.741	26.4482	7.7392	15.478

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L24	34.8985	53.0762	7550.2164	11.9514	17.5486	430.2458	15298.785	26.1225	7.7560	15.708
	35.8304	54.5073	8177.5663	12.2737	18.0149	453.9339	16569.966	26.8268	7.9972	16.197
L25	35.8326	53.8271	8078.4693	12.2759	18.0149	448.4331	16369.169	26.4921	8.0139	16.439
	37.4168	56.2292	9208.9767	12.8237	18.8075	489.6427	18659.883	27.6743	8.4240	17.28
L26	36.7038	74.3291	11095.401	12.2428	18.0642	614.2222	22482.292	36.5825	7.5369	11.166
	36.8902	76.4815	12087.458	12.5974	18.5771	650.6640	24492.468	37.6418	7.8023	11.559
L27	36.8902	76.4815	12087.458	12.5974	18.5771	650.6640	24492.468	37.6418	7.8023	11.559
	37.7290	78.2425	12941.793	12.8874	18.9968	681.2614	26223.582	38.5086	8.0195	11.881
L28	37.6408	106.4765	17368.113	12.7979	18.9968	914.2647	35192.507	52.4045	7.3495	7.945
	37.6874	106.6106	17433.802	12.8140	19.0201	916.5976	35325.610	52.4705	7.3615	7.958
L29	37.6874	106.6106	17433.802	12.8140	19.0201	916.5976	35325.610	52.4705	7.3615	7.958
	37.7191	106.7018	17478.566	12.8250	19.0360	918.1857	35416.315	52.5154	7.3697	7.967
L30	37.8513	64.1084	10722.455	12.9592	19.0360	563.2730	21726.602	31.5522	8.3747	15.227
	37.9166	64.2200	10778.551	12.9818	19.0686	565.2506	21840.268	31.6071	8.3916	15.257
L31	37.9188	63.5012	10661.579	12.9840	19.0686	559.1163	21603.250	31.2534	8.4084	15.464
	37.9617	63.5737	10698.142	12.9989	19.0901	560.4033	21677.336	31.2890	8.4195	15.484
L32	37.9639	62.8538	10580.636	13.0011	19.0901	554.2480	21439.238	30.9347	8.4362	15.695
	38.8959	64.4119	11387.167	13.3234	19.5564	582.2730	23073.488	31.7016	8.6775	16.144
L33	38.8959	64.4119	11387.167	13.3234	19.5564	582.2730	23073.488	31.7016	8.6775	16.144
	39.8279	65.9700	12233.677	13.6457	20.0227	610.9893	24788.746	32.4684	8.9188	16.593
L34	39.8301	65.2136	12097.373	13.6479	20.0227	604.1818	24512.559	32.0962	8.9355	16.82
	40.7621	66.7536	12974.795	13.9702	20.4891	633.2546	26290.453	32.8541	9.1768	17.274
L35	40.7643	65.9788	12828.312	13.9724	20.4891	626.1053	25993.639	32.4728	9.1935	17.511
	41.6963	67.5007	13736.643	14.2947	20.9554	655.5181	27834.163	33.2218	9.4348	17.971
L36	41.6963	67.5007	13736.643	14.2947	20.9554	655.5181	27834.163	33.2218	9.4348	17.971
	42.6283	69.0226	14686.869	14.6170	21.4217	685.6062	29759.580	33.9708	9.6761	18.431
L37	42.6305	68.2113	14518.691	14.6193	21.4217	677.7554	29418.805	33.5715	9.6928	18.685
	43.5625	69.7151	15500.233	14.9416	21.8881	708.1594	31407.675	34.3116	9.9341	19.15
L38	43.5625	69.7151	15500.233	14.9416	21.8881	708.1594	31407.675	34.3116	9.9341	19.15
	43.7955	70.0910	15752.343	15.0221	22.0046	715.8646	31918.519	34.4967	9.9944	19.266

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 130.0000- 125.0000				1	1	1			

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L2 125.0000-120.5000				1	1	1			
L3 120.5000-120.0000				1	1	1			
L4 120.0000-115.0000				1	1	1			
L5 115.0000-110.0000				1	1	1			
L6 110.0000-105.0000				1	1	1			
L7 105.0000-100.0000				1	1	1			
L8 100.0000-95.0000				1	1	1			
L9 95.0000-91.5000				1	1	1			
L10 91.5000-91.2500				1	1	0.947648			
L11 91.2500-86.2500				1	1	0.95759			
L12 86.2500-81.2500				1	1	0.943968			
L13 81.2500-77.0000				1	1	0.955013			
L14 77.0000-75.7500				1	1	0.945932			
L15 75.7500-70.7500				1	1	0.956791			
L16 70.7500-65.7500				1	1	0.968889			
L17 65.7500-63.0000				1	1	0.963199			
L18 63.0000-62.7300				1	1	0.933538			
L19 62.7300-62.5800				1	1	0.933101			
L20 62.5800-61.5000				1	1	0.945921			
L21 61.5000-61.2500				1	1	0.959671			
L22 61.2500-56.2500				1	1	0.973344			
L23 56.2500-51.2500				1	1	0.96395			
L24 51.2500-46.2500				1	1	0.966962			
L25 46.2500-37.7500				1	1	0.972225			
L26 37.7500-36.7500				1	1	1.03658			
L27 36.7500-32.2500				1	1	1.02575			
L28 32.2500-32.0000				1	1	0.982282			
L29 32.0000-31.8300				1	1	0.98179			
L30 31.8300-31.4800				1	1	1.06521			
L31 31.4800-31.2500				1	1	1.07682			
L32 31.2500-26.2500				1	1	1.07969			
L33 26.2500-21.2500				1	1	1.07067			
L34 21.2500-16.2500				1	1	1.07438			

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L35 16.2500-11.2500				1	1	1.07859			
L36 11.2500-6.2500				1	1	1.07056			
L37 6.2500-1.2500				1	1	1.07552			
L38 1.2500-0.0000				1	1	1.07363			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

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

6.5 x 1.25 Flat Plate	C	No	Surface Af (CaAa)	35.0000 - 0.0000	1	1	0.125 0.125	1.2500	15.5000	0.00
6.5 x 1.25 Flat Plate	B	No	Surface Af (CaAa)	35.0000 - 0.0000	1	1	0.375 0.375	1.2500	15.5000	0.00
6.5 x 1.25 Flat Plate	A	No	Surface Af (CaAa)	35.0000 - 0.0000	1	1	0.125 0.125	1.2500	15.5000	0.00
6.0 x 1.0 Flat Plate	C	No	Surface Af (CaAa)	65.0000 - 30.0000	1	1	0.375 0.375	1.0000	14.0000	0.00
6.0 x 1.0 Flat Plate	A	No	Surface Af (CaAa)	65.0000 - 30.0000	1	1	0.375 0.375	1.0000	14.0000	0.00
6.0 x 1.0 Flat Plate	B	No	Surface Af (CaAa)	65.0000 - 35.0000	1	1	0.375 0.375	1.0000	14.0000	0.00
*										
6.5 x 1.25 Flat Plate	A	No	Surface Af (CaAa)	43.0000 - 28.0000	1	1	-0.375 -0.375	1.2500	15.5000	0.00
6.5 x 1.25 Flat Plate	C	No	Surface Af (CaAa)	43.0000 - 28.0000	1	1	-0.375 -0.375	1.2500	15.5000	0.00
6.5 x 1.25 Flat Plate	B	No	Surface Af (CaAa)	43.0000 - 28.0000	1	1	-0.375 -0.375	1.2500	15.5000	0.00
6.0 x 1.0 Flat Plate	A	No	Surface Af (CaAa)	94.0000 - 59.0000	1	1	-0.375 -0.375	1.0000	14.0000	0.00
6.0 x 1.0 Flat Plate	C	No	Surface Af (CaAa)	94.0000 - 59.0000	1	1	-0.375 -0.375	1.0000	14.0000	0.00
6.0 x 1.0 Flat Plate	B	No	Surface Af (CaAa)	94.0000 - 59.0000	1	1	-0.375 -0.375	1.0000	14.0000	0.00

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight klf

LDF7-50A(1-5/8)	C	No	No	Inside Pole	128.0000 - 0.0000	10	No Ice 1/2" Ice 1" Ice 2" Ice	0.0000 0.0000 0.0000 0.0000
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	128.0000 - 0.0000	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.0000 0.0000 0.0000 0.0000

HB114-1-0813U4-M5J(1-1/4)	C	No	No	Inside Pole	118.0000 - 0.0000	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.0000 0.0000 0.0000 0.0000

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight klf
HB058-M12-XXXF(5/8)	C	No	No	Inside Pole	118.0000 - 0.0000	1	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
							2" Ice	0.0000	0.00
7983A(ELLIPTICAL)	C	No	No	Inside Pole	118.0000 - 0.0000	2	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
							2" Ice	0.0000	0.00

HB158-1-08U8-S8J18(1-5/8)	C	No	No	Inside Pole	110.0000 - 0.0000	1	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
							2" Ice	0.0000	0.00
HB158-1-08U8-S8J18(1-5/8)	C	No	No	Inside Pole	110.0000 - 0.0000	1	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
							2" Ice	0.0000	0.00

860 10000(5/16)	C	No	No	Inside Pole	50.0000 - 0.0000	1	No Ice	0.0000	0.00
							1/2" Ice	0.0000	0.00
							1" Ice	0.0000	0.00
							2" Ice	0.0000	0.00

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
L1	130.0000-125.0000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.04
L2	125.0000-120.5000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.06
L3	120.5000-120.0000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.01
L4	120.0000-115.0000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.08
L5	115.0000-110.0000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.09
L6	110.0000-105.0000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.10
L7	105.0000-100.0000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.10
L8	100.0000-95.0000	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.10
L9	95.0000-91.5000	A	0.000	0.000	0.417	0.000	0.00
		B	0.000	0.000	0.417	0.000	0.00
		C	0.000	0.000	0.417	0.000	0.07
L10	91.5000-91.2500	A	0.000	0.000	0.042	0.000	0.00
		B	0.000	0.000	0.042	0.000	0.00
		C	0.000	0.000	0.042	0.000	0.00
L11	91.2500-86.2500	A	0.000	0.000	0.833	0.000	0.00
		B	0.000	0.000	0.833	0.000	0.00
		C	0.000	0.000	0.833	0.000	0.10
L12	86.2500-81.2500	A	0.000	0.000	0.833	0.000	0.00
		B	0.000	0.000	0.833	0.000	0.00
		C	0.000	0.000	0.833	0.000	0.10
L13	81.2500-77.0000	A	0.000	0.000	0.708	0.000	0.00
		B	0.000	0.000	0.708	0.000	0.00
		C	0.000	0.000	0.708	0.000	0.08

Tower Sectio n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L14	77.0000-75.7500	A	0.000	0.000	0.208	0.000	0.00
		B	0.000	0.000	0.208	0.000	0.00
		C	0.000	0.000	0.208	0.000	0.02
L15	75.7500-70.7500	A	0.000	0.000	0.833	0.000	0.00
		B	0.000	0.000	0.833	0.000	0.00
		C	0.000	0.000	0.833	0.000	0.10
L16	70.7500-65.7500	A	0.000	0.000	0.833	0.000	0.00
		B	0.000	0.000	0.833	0.000	0.00
		C	0.000	0.000	0.833	0.000	0.10
L17	65.7500-63.0000	A	0.000	0.000	0.792	0.000	0.00
		B	0.000	0.000	0.792	0.000	0.00
		C	0.000	0.000	0.792	0.000	0.05
L18	63.0000-62.7300	A	0.000	0.000	0.090	0.000	0.00
		B	0.000	0.000	0.090	0.000	0.00
		C	0.000	0.000	0.090	0.000	0.01
L19	62.7300-62.5800	A	0.000	0.000	0.050	0.000	0.00
		B	0.000	0.000	0.050	0.000	0.00
		C	0.000	0.000	0.050	0.000	0.00
L20	62.5800-61.5000	A	0.000	0.000	0.360	0.000	0.00
		B	0.000	0.000	0.360	0.000	0.00
		C	0.000	0.000	0.360	0.000	0.02
L21	61.5000-61.2500	A	0.000	0.000	0.083	0.000	0.00
		B	0.000	0.000	0.083	0.000	0.00
		C	0.000	0.000	0.083	0.000	0.00
L22	61.2500-56.2500	A	0.000	0.000	1.208	0.000	0.00
		B	0.000	0.000	1.208	0.000	0.00
		C	0.000	0.000	1.208	0.000	0.10
L23	56.2500-51.2500	A	0.000	0.000	0.833	0.000	0.00
		B	0.000	0.000	0.833	0.000	0.00
		C	0.000	0.000	0.833	0.000	0.10
L24	51.2500-46.2500	A	0.000	0.000	0.833	0.000	0.00
		B	0.000	0.000	0.833	0.000	0.00
		C	0.000	0.000	0.833	0.000	0.10
L25	46.2500-37.7500	A	0.000	0.000	2.510	0.000	0.00
		B	0.000	0.000	2.510	0.000	0.00
		C	0.000	0.000	2.510	0.000	0.17
L26	37.7500-36.7500	A	0.000	0.000	0.375	0.000	0.00
		B	0.000	0.000	0.375	0.000	0.00
		C	0.000	0.000	0.375	0.000	0.02
L27	36.7500-32.2500	A	0.000	0.000	2.260	0.000	0.00
		B	0.000	0.000	1.802	0.000	0.00
		C	0.000	0.000	2.260	0.000	0.09
L28	32.2500-32.0000	A	0.000	0.000	0.146	0.000	0.00
		B	0.000	0.000	0.104	0.000	0.00
		C	0.000	0.000	0.146	0.000	0.00
L29	32.0000-31.8300	A	0.000	0.000	0.099	0.000	0.00
		B	0.000	0.000	0.071	0.000	0.00
		C	0.000	0.000	0.099	0.000	0.00
L30	31.8300-31.4800	A	0.000	0.000	0.204	0.000	0.00
		B	0.000	0.000	0.146	0.000	0.00
		C	0.000	0.000	0.204	0.000	0.01
L31	31.4800-31.2500	A	0.000	0.000	0.134	0.000	0.00
		B	0.000	0.000	0.096	0.000	0.00
		C	0.000	0.000	0.134	0.000	0.00
L32	31.2500-26.2500	A	0.000	0.000	1.927	0.000	0.00
		B	0.000	0.000	1.719	0.000	0.00
		C	0.000	0.000	1.927	0.000	0.10
L33	26.2500-21.2500	A	0.000	0.000	1.042	0.000	0.00
		B	0.000	0.000	1.042	0.000	0.00
		C	0.000	0.000	1.042	0.000	0.10
L34	21.2500-16.2500	A	0.000	0.000	1.042	0.000	0.00
		B	0.000	0.000	1.042	0.000	0.00
		C	0.000	0.000	1.042	0.000	0.10
L35	16.2500-11.2500	A	0.000	0.000	1.042	0.000	0.00
		B	0.000	0.000	1.042	0.000	0.00
		C	0.000	0.000	1.042	0.000	0.10
L36	11.2500-6.2500	A	0.000	0.000	1.042	0.000	0.00
		B	0.000	0.000	1.042	0.000	0.00
		C	0.000	0.000	1.042	0.000	0.10

Tower Sectio n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L37	6.2500-1.2500	A	0.000	0.000	1.042	0.000	0.00
		B	0.000	0.000	1.042	0.000	0.00
		C	0.000	0.000	1.042	0.000	0.10
L38	1.2500-0.0000	A	0.000	0.000	0.260	0.000	0.00
		B	0.000	0.000	0.260	0.000	0.00
		C	0.000	0.000	0.260	0.000	0.02

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	130.0000- 125.0000	A	1.460	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.04
L2	125.0000- 120.5000	A	1.454	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.06
L3	120.5000- 120.0000	A	1.451	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.01
L4	120.0000- 115.0000	A	1.448	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.08
L5	115.0000- 110.0000	A	1.441	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.09
L6	110.0000- 105.0000	A	1.435	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.10
L7	105.0000- 100.0000	A	1.428	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.10
L8	100.0000- 95.0000	A	1.421	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.10
L9	95.0000-91.5000	A	1.415	0.000	0.000	1.124	0.000	0.03
		B		0.000	0.000	1.124	0.000	0.03
		C		0.000	0.000	1.124	0.000	0.10
L10	91.5000-91.2500	A	1.412	0.000	0.000	0.112	0.000	0.00
		B		0.000	0.000	0.112	0.000	0.00
		C		0.000	0.000	0.112	0.000	0.01
L11	91.2500-86.2500	A	1.408	0.000	0.000	2.241	0.000	0.05
		B		0.000	0.000	2.241	0.000	0.05
		C		0.000	0.000	2.241	0.000	0.15
L12	86.2500-81.2500	A	1.399	0.000	0.000	2.233	0.000	0.05
		B		0.000	0.000	2.233	0.000	0.05
		C		0.000	0.000	2.233	0.000	0.15
L13	81.2500-77.0000	A	1.392	0.000	0.000	1.891	0.000	0.04
		B		0.000	0.000	1.891	0.000	0.04
		C		0.000	0.000	1.891	0.000	0.13
L14	77.0000-75.7500	A	1.387	0.000	0.000	0.556	0.000	0.01
		B		0.000	0.000	0.556	0.000	0.01
		C		0.000	0.000	0.556	0.000	0.04
L15	75.7500-70.7500	A	1.381	0.000	0.000	2.214	0.000	0.05
		B		0.000	0.000	2.214	0.000	0.05
		C		0.000	0.000	2.214	0.000	0.15
L16	70.7500-65.7500	A	1.371	0.000	0.000	2.204	0.000	0.05
		B		0.000	0.000	2.204	0.000	0.05
		C		0.000	0.000	2.204	0.000	0.15
L17	65.7500-63.0000	A	1.363	0.000	0.000	2.087	0.000	0.05
		B		0.000	0.000	2.087	0.000	0.05
		C		0.000	0.000	2.087	0.000	0.10
L18	63.0000-62.7300	A	1.360	0.000	0.000	0.237	0.000	0.01
		B		0.000	0.000	0.237	0.000	0.01
		C		0.000	0.000	0.237	0.000	0.01
L19	62.7300-62.5800	A	1.359	0.000	0.000	0.132	0.000	0.00
		B		0.000	0.000	0.132	0.000	0.00

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L20	62.5800-61.5000	C		0.000	0.000	0.132	0.000	0.01
		A	1.358	0.000	0.000	0.947	0.000	0.02
		B		0.000	0.000	0.947	0.000	0.02
		C		0.000	0.000	0.947	0.000	0.04
L21	61.5000-61.2500	A	1.357	0.000	0.000	0.219	0.000	0.01
		B		0.000	0.000	0.219	0.000	0.01
		C		0.000	0.000	0.219	0.000	0.01
L22	61.2500-56.2500	A	1.351	0.000	0.000	3.167	0.000	0.07
		B		0.000	0.000	3.167	0.000	0.07
		C		0.000	0.000	3.167	0.000	0.17
L23	56.2500-51.2500	A	1.339	0.000	0.000	2.172	0.000	0.05
		B		0.000	0.000	2.172	0.000	0.05
		C		0.000	0.000	2.172	0.000	0.15
L24	51.2500-46.2500	A	1.326	0.000	0.000	2.159	0.000	0.05
		B		0.000	0.000	2.159	0.000	0.05
		C		0.000	0.000	2.159	0.000	0.15
L25	46.2500-37.7500	A	1.306	0.000	0.000	5.910	0.000	0.14
		B		0.000	0.000	5.910	0.000	0.14
		C		0.000	0.000	5.910	0.000	0.30
L26	37.7500-36.7500	A	1.291	0.000	0.000	0.861	0.000	0.02
		B		0.000	0.000	0.861	0.000	0.02
		C		0.000	0.000	0.861	0.000	0.04
L27	36.7500-32.2500	A	1.281	0.000	0.000	5.111	0.000	0.12
		B		0.000	0.000	3.948	0.000	0.09
		C		0.000	0.000	5.111	0.000	0.20
L28	32.2500-32.0000	A	1.272	0.000	0.000	0.328	0.000	0.01
		B		0.000	0.000	0.223	0.000	0.01
		C		0.000	0.000	0.328	0.000	0.01
L29	32.0000-31.8300	A	1.271	0.000	0.000	0.223	0.000	0.00
		B		0.000	0.000	0.151	0.000	0.00
		C		0.000	0.000	0.223	0.000	0.01
L30	31.8300-31.4800	A	1.270	0.000	0.000	0.459	0.000	0.01
		B		0.000	0.000	0.311	0.000	0.01
		C		0.000	0.000	0.459	0.000	0.02
L31	31.4800-31.2500	A	1.269	0.000	0.000	0.301	0.000	0.01
		B		0.000	0.000	0.205	0.000	0.00
		C		0.000	0.000	0.301	0.000	0.01
L32	31.2500-26.2500	A	1.257	0.000	0.000	4.205	0.000	0.09
		B		0.000	0.000	3.683	0.000	0.08
		C		0.000	0.000	4.205	0.000	0.19
L33	26.2500-21.2500	A	1.234	0.000	0.000	2.275	0.000	0.05
		B		0.000	0.000	2.275	0.000	0.05
		C		0.000	0.000	2.275	0.000	0.15
L34	21.2500-16.2500	A	1.205	0.000	0.000	2.247	0.000	0.05
		B		0.000	0.000	2.247	0.000	0.05
		C		0.000	0.000	2.247	0.000	0.15
L35	16.2500-11.2500	A	1.168	0.000	0.000	2.210	0.000	0.05
		B		0.000	0.000	2.210	0.000	0.05
		C		0.000	0.000	2.210	0.000	0.14
L36	11.2500-6.2500	A	1.116	0.000	0.000	2.158	0.000	0.04
		B		0.000	0.000	2.158	0.000	0.04
		C		0.000	0.000	2.158	0.000	0.14
L37	6.2500-1.2500	A	1.026	0.000	0.000	2.067	0.000	0.04
		B		0.000	0.000	2.067	0.000	0.04
		C		0.000	0.000	2.067	0.000	0.14
L38	1.2500-0.0000	A	0.857	0.000	0.000	0.475	0.000	0.01
		B		0.000	0.000	0.475	0.000	0.01
		C		0.000	0.000	0.475	0.000	0.03

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
L1	130.0000-125.0000	0.0000	0.0000	0.0000	0.0000
L2	125.0000-120.5000	0.0000	0.0000	0.0000	0.0000

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
L3	120.5000-120.0000	0.0000	0.0000	0.0000	0.0000
L4	120.0000-115.0000	0.0000	0.0000	0.0000	0.0000
L5	115.0000-110.0000	0.0000	0.0000	0.0000	0.0000
L6	110.0000-105.0000	0.0000	0.0000	0.0000	0.0000
L7	105.0000-100.0000	0.0000	0.0000	0.0000	0.0000
L8	100.0000-95.0000	0.0000	0.0000	0.0000	0.0000
L9	95.0000-91.5000	0.0000	0.0000	0.0000	0.0000
L10	91.5000-91.2500	0.0000	0.0000	0.0000	0.0000
L11	91.2500-86.2500	0.0000	0.0000	0.0000	0.0000
L12	86.2500-81.2500	0.0000	0.0000	0.0000	0.0000
L13	81.2500-77.0000	0.0000	0.0000	0.0000	0.0000
L14	77.0000-75.7500	0.0000	0.0000	0.0000	0.0000
L15	75.7500-70.7500	0.0000	0.0000	0.0000	0.0000
L16	70.7500-65.7500	0.0000	0.0000	0.0000	0.0000
L17	65.7500-63.0000	0.0000	0.0000	0.0000	0.0000
L18	63.0000-62.7300	0.0000	0.0000	0.0000	0.0000
L19	62.7300-62.5800	0.0000	0.0000	0.0000	0.0000
L20	62.5800-61.5000	0.0000	0.0000	0.0000	0.0000
L21	61.5000-61.2500	0.0000	0.0000	0.0000	0.0000
L22	61.2500-56.2500	0.0000	0.0000	0.0000	0.0000
L23	56.2500-51.2500	0.0000	0.0000	0.0000	0.0000
L24	51.2500-46.2500	0.0000	0.0000	0.0000	0.0000
L25	46.2500-37.7500	0.0000	0.0000	0.0000	0.0000
L26	37.7500-36.7500	0.0000	0.0000	0.0000	0.0000
L27	36.7500-32.2500	-0.4531	0.1229	-0.8014	0.1153
L28	32.2500-32.0000	-0.7164	0.1942	-1.2448	0.1792
L29	32.0000-31.8300	-0.7165	0.1942	-1.2450	0.1793
L30	31.8300-31.4800	-0.7149	0.1938	-1.2431	0.1790
L31	31.4800-31.2500	-0.7150	0.1938	-1.2434	0.1790
L32	31.2500-26.2500	-0.3471	0.6957	-0.6163	1.1322
L33	26.2500-21.2500	-0.2489	1.0469	-0.4055	1.7057
L34	21.2500-16.2500	-0.2516	1.0564	-0.4047	1.6990
L35	16.2500-11.2500	-0.2543	1.0656	-0.4026	1.6874
L36	11.2500-6.2500	-0.2569	1.0746	-0.3984	1.6669
L37	6.2500-1.2500	-0.2594	1.0834	-0.3886	1.6234
L38	1.2500-0.0000	-0.2609	1.0888	-0.3667	1.5302

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L9	24	6.0 x 1.0 Flat Plate	91.50 - 94.00	1.0000	1.0000
L9	25	6.0 x 1.0 Flat Plate	91.50 - 94.00	1.0000	1.0000
L9	26	6.0 x 1.0 Flat Plate	91.50 - 94.00	1.0000	1.0000
L10	24	6.0 x 1.0 Flat Plate	91.25 - 91.50	1.0000	1.0000
L10	25	6.0 x 1.0 Flat Plate	91.25 - 91.50	1.0000	1.0000
L10	26	6.0 x 1.0 Flat Plate	91.25 - 91.50	1.0000	1.0000
L11	24	6.0 x 1.0 Flat Plate	86.25 - 91.25	1.0000	1.0000
L11	25	6.0 x 1.0 Flat Plate	86.25 - 91.25	1.0000	1.0000
L11	26	6.0 x 1.0 Flat Plate	86.25 - 91.25	1.0000	1.0000
L12	24	6.0 x 1.0 Flat Plate	81.25 - 86.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L12	25	6.0 x 1.0 Flat Plate	81.25 - 86.25	1.0000	1.0000
L12	26	6.0 x 1.0 Flat Plate	81.25 - 86.25	1.0000	1.0000
L13	24	6.0 x 1.0 Flat Plate	77.00 - 81.25	1.0000	1.0000
L13	25	6.0 x 1.0 Flat Plate	77.00 - 81.25	1.0000	1.0000
L13	26	6.0 x 1.0 Flat Plate	77.00 - 81.25	1.0000	1.0000
L15	24	6.0 x 1.0 Flat Plate	70.75 - 75.75	1.0000	1.0000
L15	25	6.0 x 1.0 Flat Plate	70.75 - 75.75	1.0000	1.0000
L15	26	6.0 x 1.0 Flat Plate	70.75 - 75.75	1.0000	1.0000
L16	24	6.0 x 1.0 Flat Plate	65.75 - 70.75	1.0000	1.0000
L16	25	6.0 x 1.0 Flat Plate	65.75 - 70.75	1.0000	1.0000
L16	26	6.0 x 1.0 Flat Plate	65.75 - 70.75	1.0000	1.0000
L17	17	6.0 x 1.0 Flat Plate	63.00 - 65.00	1.0000	1.0000
L17	18	6.0 x 1.0 Flat Plate	63.00 - 65.00	1.0000	1.0000
L17	19	6.0 x 1.0 Flat Plate	63.00 - 65.00	1.0000	1.0000
L17	24	6.0 x 1.0 Flat Plate	63.00 - 65.75	1.0000	1.0000
L17	25	6.0 x 1.0 Flat Plate	63.00 - 65.75	1.0000	1.0000
L17	26	6.0 x 1.0 Flat Plate	63.00 - 65.75	1.0000	1.0000
L18	17	6.0 x 1.0 Flat Plate	62.73 - 63.00	1.0000	1.0000
L18	18	6.0 x 1.0 Flat Plate	62.73 - 63.00	1.0000	1.0000
L18	19	6.0 x 1.0 Flat Plate	62.73 - 63.00	1.0000	1.0000
L18	24	6.0 x 1.0 Flat Plate	62.73 - 63.00	1.0000	1.0000
L18	25	6.0 x 1.0 Flat Plate	62.73 - 63.00	1.0000	1.0000
L18	26	6.0 x 1.0 Flat Plate	62.73 - 63.00	1.0000	1.0000
L19	17	6.0 x 1.0 Flat Plate	62.58 - 62.73	1.0000	1.0000
L19	18	6.0 x 1.0 Flat Plate	62.58 - 62.73	1.0000	1.0000
L19	19	6.0 x 1.0 Flat Plate	62.58 - 62.73	1.0000	1.0000
L19	24	6.0 x 1.0 Flat Plate	62.58 - 62.73	1.0000	1.0000
L19	25	6.0 x 1.0 Flat Plate	62.58 - 62.73	1.0000	1.0000
L19	26	6.0 x 1.0 Flat Plate	62.58 - 62.73	1.0000	1.0000
L20	17	6.0 x 1.0 Flat Plate	61.50 - 62.58	1.0000	1.0000
L20	18	6.0 x 1.0 Flat Plate	61.50 - 62.58	1.0000	1.0000
L20	19	6.0 x 1.0 Flat Plate	61.50 - 62.58	1.0000	1.0000
L20	24	6.0 x 1.0 Flat Plate	61.50 - 62.58	1.0000	1.0000
L20	25	6.0 x 1.0 Flat Plate	61.50 - 62.58	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L20	26	6.0 x 1.0 Flat Plate	61.50 - 62.58	1.0000	1.0000
L21	17	6.0 x 1.0 Flat Plate	61.25 - 61.50	1.0000	1.0000
L21	18	6.0 x 1.0 Flat Plate	61.25 - 61.50	1.0000	1.0000
L21	19	6.0 x 1.0 Flat Plate	61.25 - 61.50	1.0000	1.0000
L21	24	6.0 x 1.0 Flat Plate	61.25 - 61.50	1.0000	1.0000
L21	25	6.0 x 1.0 Flat Plate	61.25 - 61.50	1.0000	1.0000
L21	26	6.0 x 1.0 Flat Plate	61.25 - 61.50	1.0000	1.0000
L22	17	6.0 x 1.0 Flat Plate	56.25 - 61.25	1.0000	1.0000
L22	18	6.0 x 1.0 Flat Plate	56.25 - 61.25	1.0000	1.0000
L22	19	6.0 x 1.0 Flat Plate	56.25 - 61.25	1.0000	1.0000
L22	24	6.0 x 1.0 Flat Plate	59.00 - 61.25	1.0000	1.0000
L22	25	6.0 x 1.0 Flat Plate	59.00 - 61.25	1.0000	1.0000
L22	26	6.0 x 1.0 Flat Plate	59.00 - 61.25	1.0000	1.0000
L23	17	6.0 x 1.0 Flat Plate	51.25 - 56.25	1.0000	1.0000
L23	18	6.0 x 1.0 Flat Plate	51.25 - 56.25	1.0000	1.0000
L23	19	6.0 x 1.0 Flat Plate	51.25 - 56.25	1.0000	1.0000
L24	17	6.0 x 1.0 Flat Plate	46.25 - 51.25	1.0000	1.0000
L24	18	6.0 x 1.0 Flat Plate	46.25 - 51.25	1.0000	1.0000
L24	19	6.0 x 1.0 Flat Plate	46.25 - 51.25	1.0000	1.0000
L25	17	6.0 x 1.0 Flat Plate	37.75 - 46.25	1.0000	1.0000
L25	18	6.0 x 1.0 Flat Plate	37.75 - 46.25	1.0000	1.0000
L25	19	6.0 x 1.0 Flat Plate	37.75 - 46.25	1.0000	1.0000
L25	21	6.5 x 1.25 Flat Plate	37.75 - 43.00	1.0000	1.0000
L25	22	6.5 x 1.25 Flat Plate	37.75 - 43.00	1.0000	1.0000
L25	23	6.5 x 1.25 Flat Plate	37.75 - 43.00	1.0000	1.0000
L27	14	6.5 x 1.25 Flat Plate	32.25 - 35.00	1.0000	1.0000
L27	15	6.5 x 1.25 Flat Plate	32.25 - 35.00	1.0000	1.0000
L27	16	6.5 x 1.25 Flat Plate	32.25 - 35.00	1.0000	1.0000
L27	17	6.0 x 1.0 Flat Plate	32.25 - 36.75	1.0000	1.0000
L27	18	6.0 x 1.0 Flat Plate	32.25 - 36.75	1.0000	1.0000
L27	19	6.0 x 1.0 Flat Plate	35.00 - 36.75	1.0000	1.0000
L27	21	6.5 x 1.25 Flat Plate	32.25 - 36.75	1.0000	1.0000
L27	22	6.5 x 1.25 Flat Plate	32.25 - 36.75	1.0000	1.0000
L27	23	6.5 x 1.25 Flat Plate	32.25 - 36.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L28	14	6.5 x 1.25 Flat Plate	32.00 - 32.25	1.0000	1.0000
L28	15	6.5 x 1.25 Flat Plate	32.00 - 32.25	1.0000	1.0000
L28	16	6.5 x 1.25 Flat Plate	32.00 - 32.25	1.0000	1.0000
L28	17	6.0 x 1.0 Flat Plate	32.00 - 32.25	1.0000	1.0000
L28	18	6.0 x 1.0 Flat Plate	32.00 - 32.25	1.0000	1.0000
L28	21	6.5 x 1.25 Flat Plate	32.00 - 32.25	1.0000	1.0000
L28	22	6.5 x 1.25 Flat Plate	32.00 - 32.25	1.0000	1.0000
L28	23	6.5 x 1.25 Flat Plate	32.00 - 32.25	1.0000	1.0000
L29	14	6.5 x 1.25 Flat Plate	31.83 - 32.00	1.0000	1.0000
L29	15	6.5 x 1.25 Flat Plate	31.83 - 32.00	1.0000	1.0000
L29	16	6.5 x 1.25 Flat Plate	31.83 - 32.00	1.0000	1.0000
L29	17	6.0 x 1.0 Flat Plate	31.83 - 32.00	1.0000	1.0000
L29	18	6.0 x 1.0 Flat Plate	31.83 - 32.00	1.0000	1.0000
L29	21	6.5 x 1.25 Flat Plate	31.83 - 32.00	1.0000	1.0000
L29	22	6.5 x 1.25 Flat Plate	31.83 - 32.00	1.0000	1.0000
L29	23	6.5 x 1.25 Flat Plate	31.83 - 32.00	1.0000	1.0000
L30	14	6.5 x 1.25 Flat Plate	31.48 - 31.83	1.0000	1.0000
L30	15	6.5 x 1.25 Flat Plate	31.48 - 31.83	1.0000	1.0000
L30	16	6.5 x 1.25 Flat Plate	31.48 - 31.83	1.0000	1.0000
L30	17	6.0 x 1.0 Flat Plate	31.48 - 31.83	1.0000	1.0000
L30	18	6.0 x 1.0 Flat Plate	31.48 - 31.83	1.0000	1.0000
L30	21	6.5 x 1.25 Flat Plate	31.48 - 31.83	1.0000	1.0000
L30	22	6.5 x 1.25 Flat Plate	31.48 - 31.83	1.0000	1.0000
L30	23	6.5 x 1.25 Flat Plate	31.48 - 31.83	1.0000	1.0000
L31	14	6.5 x 1.25 Flat Plate	31.25 - 31.48	1.0000	1.0000
L31	15	6.5 x 1.25 Flat Plate	31.25 - 31.48	1.0000	1.0000
L31	16	6.5 x 1.25 Flat Plate	31.25 - 31.48	1.0000	1.0000
L31	17	6.0 x 1.0 Flat Plate	31.25 - 31.48	1.0000	1.0000
L31	18	6.0 x 1.0 Flat Plate	31.25 - 31.48	1.0000	1.0000
L31	21	6.5 x 1.25 Flat Plate	31.25 - 31.48	1.0000	1.0000
L31	22	6.5 x 1.25 Flat Plate	31.25 - 31.48	1.0000	1.0000
L31	23	6.5 x 1.25 Flat Plate	31.25 - 31.48	1.0000	1.0000
L32	14	6.5 x 1.25 Flat Plate	26.25 - 31.25	1.0000	1.0000
L32	15	6.5 x 1.25 Flat Plate	26.25 - 31.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L32	16	6.5 x 1.25 Flat Plate	26.25 - 31.25	1.0000	1.0000
L32	17	6.0 x 1.0 Flat Plate	30.00 - 31.25	1.0000	1.0000
L32	18	6.0 x 1.0 Flat Plate	30.00 - 31.25	1.0000	1.0000
L32	21	6.5 x 1.25 Flat Plate	28.00 - 31.25	1.0000	1.0000
L32	22	6.5 x 1.25 Flat Plate	28.00 - 31.25	1.0000	1.0000
L32	23	6.5 x 1.25 Flat Plate	28.00 - 31.25	1.0000	1.0000
L33	14	6.5 x 1.25 Flat Plate	21.25 - 26.25	1.0000	1.0000
L33	15	6.5 x 1.25 Flat Plate	21.25 - 26.25	1.0000	1.0000
L33	16	6.5 x 1.25 Flat Plate	21.25 - 26.25	1.0000	1.0000
L34	14	6.5 x 1.25 Flat Plate	16.25 - 21.25	1.0000	1.0000
L34	15	6.5 x 1.25 Flat Plate	16.25 - 21.25	1.0000	1.0000
L34	16	6.5 x 1.25 Flat Plate	16.25 - 21.25	1.0000	1.0000
L35	14	6.5 x 1.25 Flat Plate	11.25 - 16.25	1.0000	1.0000
L35	15	6.5 x 1.25 Flat Plate	11.25 - 16.25	1.0000	1.0000
L35	16	6.5 x 1.25 Flat Plate	11.25 - 16.25	1.0000	1.0000
L36	14	6.5 x 1.25 Flat Plate	6.25 - 11.25	1.0000	1.0000
L36	15	6.5 x 1.25 Flat Plate	6.25 - 11.25	1.0000	1.0000
L36	16	6.5 x 1.25 Flat Plate	6.25 - 11.25	1.0000	1.0000
L37	14	6.5 x 1.25 Flat Plate	1.25 - 6.25	1.0000	1.0000
L37	15	6.5 x 1.25 Flat Plate	1.25 - 6.25	1.0000	1.0000
L37	16	6.5 x 1.25 Flat Plate	1.25 - 6.25	1.0000	1.0000
L38	14	6.5 x 1.25 Flat Plate	0.00 - 1.25	1.0000	1.0000
L38	15	6.5 x 1.25 Flat Plate	0.00 - 1.25	1.0000	1.0000
L38	16	6.5 x 1.25 Flat Plate	0.00 - 1.25	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C_{AA} Front ft ²	C_{AA} Side ft ²	Weight K
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.0000 0.00 2.00	0.0000	128.0000	No Ice	6.3292	5.6424	0.11
						1/2"	6.7751	6.4259	0.17
						Ice	7.2137	7.1313	0.23
						1" Ice	8.1168	8.5907	0.38
						2" Ice			
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.0000	128.0000	No Ice	6.3292	5.6424	0.11
						1/2"	6.7751	6.4259	0.17
						Ice	7.2137	7.1313	0.23
						1" Ice	8.1168	8.5907	0.38
						2" Ice			
ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.0000 0.00 2.00	0.0000	128.0000	No Ice	6.3292	5.6424	0.11
						1/2"	6.7751	6.4259	0.17
						Ice	7.2137	7.1313	0.23
						1" Ice	8.1168	8.5907	0.38
						2" Ice			
KRY 112 144/1	A	From Leg	4.0000 0.00 2.00	0.0000	128.0000	No Ice	0.3500	0.1750	0.01
						1/2"	0.4259	0.2343	0.01
						Ice	0.5093	0.3009	0.02
						1" Ice	0.6981	0.4565	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
KRY 112 144/1	B	From Leg	4.0000 0.00 2.00	0.0000	128.0000	2" Ice			
						No Ice	0.3500	0.1750	0.01
						1/2"	0.4259	0.2343	0.01
						Ice	0.5093	0.3009	0.02
KRY 112 144/1	C	From Leg	4.0000 0.00 2.00	0.0000	128.0000	1" Ice	0.6981	0.4565	0.03
						2" Ice			
						No Ice	0.3500	0.1750	0.01
						1/2"	0.4259	0.2343	0.01
AIR -32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.0000 0.00 2.00	0.0000	128.0000	Ice	0.5093	0.3009	0.02
						1" Ice	0.6981	0.4565	0.03
						2" Ice			
						No Ice	6.7474	6.0700	0.15
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.0000	128.0000	1/2"	7.2017	6.8671	0.21
						Ice	7.6475	7.5828	0.28
						1" Ice	8.5651	9.0629	0.44
						2" Ice			
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.0000	128.0000	No Ice	6.7474	6.0700	0.15
						1/2"	7.2017	6.8671	0.21
						Ice	7.6475	7.5828	0.28
						1" Ice	8.5651	9.0629	0.44
AIR -32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.0000 0.00 2.00	0.0000	128.0000	2" Ice			
						No Ice	6.7474	6.0700	0.15
						1/2"	7.2017	6.8671	0.21
						Ice	7.6475	7.5828	0.28
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.0000 0.00 2.00	0.0000	128.0000	1" Ice	8.5651	9.0629	0.44
						2" Ice			
						No Ice	20.4801	11.0240	0.16
						1/2"	21.2306	12.5496	0.30
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.0000	128.0000	Ice	21.9900	14.0992	0.44
						1" Ice	23.4441	16.4509	0.78
						2" Ice			
						No Ice	20.4801	11.0240	0.16
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.0000	128.0000	1/2"	21.2306	12.5496	0.30
						Ice	21.9900	14.0992	0.44
						1" Ice	23.4441	16.4509	0.78
						2" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.0000 0.00 2.00	0.0000	128.0000	No Ice	20.4801	11.0240	0.16
						1/2"	21.2306	12.5496	0.30
						Ice	21.9900	14.0992	0.44
						1" Ice	23.4441	16.4509	0.78
RADIO 4449 B12/B71	A	From Leg	4.0000 0.00 2.00	0.0000	128.0000	2" Ice			
						No Ice	1.6500	1.1625	0.07
						1/2"	1.8104	1.3012	0.09
						Ice	1.9781	1.4473	0.11
RADIO 4449 B12/B71	B	From Leg	4.0000 0.00 2.00	0.0000	128.0000	1" Ice	2.3359	1.7618	0.16
						2" Ice			
						No Ice	1.6500	1.1625	0.07
						1/2"	1.8104	1.3012	0.09
RADIO 4449 B12/B71	B	From Leg	4.0000 0.00 2.00	0.0000	128.0000	Ice	1.9781	1.4473	0.11
						1" Ice	2.3359	1.7618	0.16
						2" Ice			
						No Ice	1.6500	1.1625	0.07
RADIO 4449 B12/B71	C	From Leg	4.0000 0.00 2.00	0.0000	128.0000	1/2"	1.8104	1.3012	0.09
						Ice	1.9781	1.4473	0.11
						1" Ice	2.3359	1.7618	0.16
						2" Ice			
Platform Mount [LP 305-1]	C	None		0.0000	128.0000	No Ice	18.0100	18.0100	1.12
						1/2"	23.3300	23.3300	1.35
						Ice	28.6500	28.6500	1.58
						1" Ice	39.2900	39.2900	2.05
Miscellaneous [NA 507-1]	C	None		0.0000	128.0000	2" Ice			
						No Ice	4.8000	4.8000	0.25
						1/2"	6.7000	6.7000	0.29
						Ice	8.6000	8.6000	0.34
						1" Ice	12.4000	12.4000	0.44

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

TME-800MHZ RRH	A	From Leg	2.0000 0.00 0.00	0.0000	122.0000	No Ice	2.1342	1.7730	0.05
						1/2"	2.3195	1.9461	0.07
						Ice	2.5123	2.1267	0.10
						1" Ice	2.9201	2.5100	0.16
						2" Ice			
TME-800MHZ RRH	B	From Leg	2.0000 0.00 0.00	0.0000	122.0000	No Ice	2.1342	1.7730	0.05
						1/2"	2.3195	1.9461	0.07
						Ice	2.5123	2.1267	0.10
						1" Ice	2.9201	2.5100	0.16
						2" Ice			
TME-800MHZ RRH	C	From Leg	2.0000 0.00 0.00	0.0000	122.0000	No Ice	2.1342	1.7730	0.05
						1/2"	2.3195	1.9461	0.07
						Ice	2.5123	2.1267	0.10
						1" Ice	2.9201	2.5100	0.16
						2" Ice			
TME-1900MHz RRH (65 MHz)	A	From Leg	2.0000 0.00 0.00	0.0000	122.0000	No Ice	2.3125	2.3750	0.06
						1/2"	2.5168	2.5809	0.08
						Ice	2.7284	2.7943	0.11
						1" Ice	3.1740	3.2431	0.18
						2" Ice			
TME-1900MHz RRH (65 MHz)	B	From Leg	2.0000 0.00 0.00	0.0000	122.0000	No Ice	2.3125	2.3750	0.06
						1/2"	2.5168	2.5809	0.08
						Ice	2.7284	2.7943	0.11
						1" Ice	3.1740	3.2431	0.18
						2" Ice			
TME-1900MHz RRH (65 MHz)	C	From Leg	2.0000 0.00 0.00	0.0000	122.0000	No Ice	2.3125	2.3750	0.06
						1/2"	2.5168	2.5809	0.08
						Ice	2.7284	2.7943	0.11
						1" Ice	3.1740	3.2431	0.18
						2" Ice			
Side Arm Mount [SO 102-3]	A	None		0.0000	122.0000	No Ice	3.0000	3.0000	0.08
						1/2"	3.4800	3.4800	0.11
						Ice	3.9600	3.9600	0.14
						1" Ice	4.9200	4.9200	0.20
						2" Ice			

APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice	6.5799	4.9591	0.08
						1/2"	7.0306	5.7544	0.13
						Ice	7.4733	6.4723	0.19
						1" Ice	8.3846	7.9407	0.34
						2" Ice			
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice	6.5799	4.9591	0.08
						1/2"	7.0306	5.7544	0.13
						Ice	7.4733	6.4723	0.19
						1" Ice	8.3846	7.9407	0.34
						2" Ice			
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice	6.5799	4.9591	0.08
						1/2"	7.0306	5.7544	0.13
						Ice	7.4733	6.4723	0.19
						1" Ice	8.3846	7.9407	0.34
						2" Ice			
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice	8.2619	6.9458	0.08
						1/2"	8.8215	8.1266	0.15
						Ice	9.3462	9.0212	0.23
						1" Ice	10.4181	10.8440	0.41
						2" Ice			
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice	8.2619	6.9458	0.08
						1/2"	8.8215	8.1266	0.15
						Ice	9.3462	9.0212	0.23
						1" Ice	10.4181	10.8440	0.41
						2" Ice			
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.0000 0.00	0.0000	118.0000	No Ice	8.2619	6.9458	0.08
							8.8215	8.1266	0.15

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			2.00			1/2" Ice 9.3462 10.4181	9.0212 10.8440	0.23 0.41
TD-RRH8X20-25	A	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 4.0455 1/2" 4.2975 Ice 4.5570 1" Ice 5.0981 2" Ice	1.5345 1.7142 1.9008 2.2951	0.07 0.10 0.13 0.20
TD-RRH8X20-25	B	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 4.0455 1/2" 4.2975 Ice 4.5570 1" Ice 5.0981 2" Ice	1.5345 1.7142 1.9008 2.2951	0.07 0.10 0.13 0.20
TD-RRH8X20-25	C	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 4.0455 1/2" 4.2975 Ice 4.5570 1" Ice 5.0981 2" Ice	1.5345 1.7142 1.9008 2.2951	0.07 0.10 0.13 0.20
(3) ACU-A20-N	A	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 0.0667 1/2" 0.1037 Ice 0.1481 1" Ice 0.2593 2" Ice	0.1167 0.1620 0.2148 0.3426	0.00 0.00 0.00 0.01
(3) ACU-A20-N	B	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 0.0667 1/2" 0.1037 Ice 0.1481 1" Ice 0.2593 2" Ice	0.1167 0.1620 0.2148 0.3426	0.00 0.00 0.00 0.01
(3) ACU-A20-N	C	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 0.0667 1/2" 0.1037 Ice 0.1481 1" Ice 0.2593 2" Ice	0.1167 0.1620 0.2148 0.3426	0.00 0.00 0.00 0.01
800 EXTERNAL NOTCH FILTER	A	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 0.6601 1/2" 0.7627 Ice 0.8727 1" Ice 1.1149 2" Ice	0.3211 0.3983 0.4830 0.6744	0.01 0.02 0.02 0.04
800 EXTERNAL NOTCH FILTER	B	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 0.6601 1/2" 0.7627 Ice 0.8727 1" Ice 1.1149 2" Ice	0.3211 0.3983 0.4830 0.6744	0.01 0.02 0.02 0.04
800 EXTERNAL NOTCH FILTER	C	From Leg	4.0000 0.00 2.00	0.0000	118.0000	No Ice 0.6601 1/2" 0.7627 Ice 0.8727 1" Ice 1.1149 2" Ice	0.3211 0.3983 0.4830 0.6744	0.01 0.02 0.02 0.04
*								
Platform Mount [LP 1201-1]	A	None		0.0000	118.0000	No Ice 23.1000 1/2" 26.8000 Ice 30.5000 1" Ice 37.9000 2" Ice	23.1000 26.8000 30.5000 37.9000	2.10 2.50 2.90 3.70

(2) APL868013-42T0 w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	0.0000	110.0000	No Ice 2.8667 1/2" 3.1769 Ice 3.4868 1" Ice 4.1128 2" Ice	3.6148 3.9204 4.2329 4.8790	0.02 0.05 0.07 0.15
(2) APL868013-42T0 w/ Mount Pipe	B	From Leg	4.0000 0.00 1.00	0.0000	110.0000	No Ice 2.8667 1/2" 3.1769 Ice 3.4868 1" Ice 4.1128	3.6148 3.9204 4.2329 4.8790	0.02 0.05 0.07 0.15

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
(2) APL868013-42T0 w/ Mount Pipe	C	From Leg	4.0000 0.00 1.00	0.0000	110.0000	2" Ice			
						No Ice	2.8667	3.6148	0.02
						1/2"	3.1769	3.9204	0.05
						Ice	3.4868	4.2329	0.07
DB-T1-6Z-8AB-0Z	B	From Leg	4.0000 0.00 1.00	0.0000	110.0000	1" Ice	4.1128	4.8790	0.15
						2" Ice			
						No Ice	4.8000	2.0000	0.04
						1/2"	5.0704	2.1926	0.08
DB-T1-6Z-8AB-0Z	A	From Leg	4.0000 0.00 1.00	0.0000	110.0000	Ice	5.3481	2.3926	0.12
						1" Ice	5.9259	2.8148	0.21
						2" Ice			
						No Ice	4.8000	2.0000	0.04
(2) JAHH-65B-R3B w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	0.0000	110.0000	1/2"	5.0704	2.1926	0.08
						Ice	5.3481	2.3926	0.12
						1" Ice	5.9259	2.8148	0.21
						2" Ice			
(2) JAHH-65B-R3B w/ Mount Pipe	A	From Leg	4.0000 0.00 1.00	0.0000	110.0000	No Ice	9.4696	7.7646	0.09
						1/2"	10.0909	9.0018	0.17
						Ice	10.6731	10.0164	0.25
						1" Ice	11.8270	11.9015	0.46
(2) JAHH-65B-R3B w/ Mount Pipe	B	From Leg	4.0000 0.00 1.00	0.0000	110.0000	2" Ice			
						No Ice	9.4696	7.7646	0.09
						1/2"	10.0909	9.0018	0.17
						Ice	10.6731	10.0164	0.25
(2) JAHH-65B-R3B w/ Mount Pipe	C	From Leg	4.0000 0.00 1.00	0.0000	110.0000	1" Ice	11.8270	11.9015	0.46
						2" Ice			
						No Ice	9.4696	7.7646	0.09
						1/2"	10.0909	9.0018	0.17
(2) RFV01U-D1A	A	From Leg	4.0000 0.00 1.00	0.0000	110.0000	Ice	10.6731	10.0164	0.25
						1" Ice	11.8270	11.9015	0.46
						2" Ice			
						No Ice	1.8750	1.2500	0.08
RFV01U-D1A	B	From Leg	4.0000 0.00 1.00	0.0000	110.0000	1/2"	2.0454	1.3926	0.10
						Ice	2.2231	1.5426	0.12
						1" Ice	2.6009	1.8648	0.18
						2" Ice			
RFV01U-D2A	B	From Leg	4.0000 0.00 1.00	0.0000	110.0000	No Ice	1.8750	1.2500	0.08
						1/2"	2.0454	1.3926	0.10
						Ice	2.2231	1.5426	0.12
						1" Ice	2.6009	1.8648	0.18
(2) RFV01U-D2A	C	From Leg	4.0000 0.00 1.00	0.0000	110.0000	2" Ice			
						No Ice	1.8750	1.0125	0.07
						1/2"	2.0454	1.1445	0.09
						Ice	2.2231	1.2840	0.11
CBC1923T-DS-43	A	From Leg	4.0000 0.00 1.00	0.0000	110.0000	1" Ice	2.6009	1.5851	0.15
						2" Ice			
						No Ice	0.3162	0.2300	0.01
						1/2"	0.3888	0.2943	0.01
CBC1923T-DS-43	B	From Leg	4.0000 0.00 1.00	0.0000	110.0000	Ice	0.4688	0.3659	0.02
						1" Ice	0.6511	0.5315	0.03
						2" Ice			
						No Ice	0.3162	0.2300	0.01
CBC1923T-DS-43	C	From Leg	4.0000 0.00 1.00	0.0000	110.0000	1/2"	0.3888	0.2943	0.01
						Ice	0.4688	0.3659	0.02
						1" Ice	0.6511	0.5315	0.03
						2" Ice			
CBC1923T-DS-43	C	From Leg	4.0000 0.00 1.00	0.0000	110.0000	No Ice	0.3162	0.2300	0.01
						1/2"	0.3888	0.2943	0.01
						Ice	0.4688	0.3659	0.02
						1" Ice	0.6511	0.5315	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
Platform Mount [LP 1201-1]	A	None		0.0000	110.0000	2" Ice			
						No Ice	23.1000	23.1000	2.10
						1/2" Ice	26.8000	26.8000	2.50
						Ice	30.5000	30.5000	2.90
						1" Ice	37.9000	37.9000	3.70
2" Ice									

OG-860/1920/GPS-A	A	From Leg	2.0000 0.00 2.00	0.0000	50.0000	No Ice	0.3077	0.3667	0.00
						1/2" Ice	0.3952	0.4572	0.01
						Ice	0.4897	0.5548	0.01
						1" Ice	0.6997	0.7708	0.02
						2" Ice			
Side Arm Mount [SO 701-1]	A	From Leg	2.0000 0.00 0.00	0.0000	50.0000	No Ice	0.8500	1.6700	0.07
						1/2" Ice	1.1400	2.3400	0.08
						Ice	1.4300	3.0100	0.09
						1" Ice	2.0100	4.3500	0.12
						2" Ice			

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K	
VHLP2-11	A	Paraboloid w/o Radome	From Leg	4.0000 0.00 6.00	30.0000		118.0000	2.1750	No Ice	3.7200	0.03
									1/2" Ice	4.0100	0.05
									1" Ice	4.3000	0.07
									2" Ice	4.8800	0.11
VHLP2-18	C	Paraboloid w/o Radome	From Leg	4.0000 0.00 6.00	77.0000		118.0000	2.1750	No Ice	3.7200	0.03
									1/2" Ice	4.0100	0.05
									1" Ice	4.3000	0.07
									2" Ice	4.8800	0.11

Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation ft	z ft	K _Z	q _Z ksf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
L1 130.0000-125.0000	127.5000	1.332	0.05	7.500	A	0.000	7.500	7.500	100.00	0.000	0.000
					B	0.000	7.500	7.500	100.00	0.000	0.000
					C	0.000	7.500	7.500	100.00	0.000	0.000
L2 125.0000-120.5000	122.7500	1.321	0.05	6.750	A	0.000	6.750	6.750	100.00	0.000	0.000
					B	0.000	6.750	6.750	100.00	0.000	0.000
					C	0.000	6.750	6.750	100.00	0.000	0.000
L3 120.5000-120.0000	120.2417	1.316	0.05	0.833	A	0.000	0.833	0.833	100.00	0.000	0.000
					B	0.000	0.833	0.833	100.00	0.000	0.000
					C	0.000	0.833	0.833	100.00	0.000	0.000
L4 120.0000-115.0000	117.4833	1.309	0.05	9.647	A	0.000	9.647	9.647	100.00	0.000	0.000
					B	0.000	9.647	9.647	100.00	0.000	0.000
					C	0.000	9.647	9.647	100.00	0.000	0.000
L5 115.0000-110.0000	112.4839	1.297	0.05	10.036	A	0.000	10.036	10.036	100.00	0.000	0.000
					B	0.000	10.036	10.036	100.00	0.000	0.000
					C	0.000	10.036	10.036	100.00	0.000	0.000
L6 110.0000-105.0000	107.4845	1.285	0.05	10.424	A	0.000	10.424	10.424	100.00	0.000	0.000
					B	0.000	10.424	10.424	100.00	0.000	0.000
					C	0.000	10.424	10.424	100.00	0.000	0.000
L7 105.0000-100.0000	102.4851	1.272	0.05	10.812	A	0.000	10.812	10.812	100.00	0.000	0.000
					B	0.000	10.812	10.812	100.00	0.000	0.000
					C	0.000	10.812	10.812	100.00	0.000	0.000

Section Elevation ft	z ft	K _Z	q _z ksf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L8 100.0000- 95.0000	97.4856	1.259	0.05	11.201	C	0.000	10.812	11.201	100.00	0.000	0.000
					A	0.000	11.201		100.00	0.000	0.000
					B	0.000	11.201		100.00	0.000	0.000
L9 95.0000- 91.5000	93.2431	1.247	0.05	8.072	C	0.000	11.201	8.072	100.00	0.000	0.000
					A	0.000	8.072		100.00	0.417	0.000
					B	0.000	8.072		100.00	0.417	0.000
L10 91.5000- 91.2500	91.3750	1.242	0.05	0.582	C	0.000	0.582	0.582	100.00	0.042	0.000
					A	0.000	0.582		100.00	0.042	0.000
					B	0.000	0.582		100.00	0.042	0.000
L11 91.2500- 86.2500	88.7364	1.234	0.05	11.847	C	0.000	11.847	11.847	100.00	0.833	0.000
					A	0.000	11.847		100.00	0.833	0.000
					B	0.000	11.847		100.00	0.833	0.000
L12 86.2500- 81.2500	83.7369	1.219	0.05	12.236	C	0.000	11.847	12.236	100.00	0.833	0.000
					A	0.000	12.236		100.00	0.833	0.000
					B	0.000	12.236		100.00	0.833	0.000
L13 81.2500- 77.0000	79.1158	1.205	0.05	10.706	C	0.000	10.706	10.706	100.00	0.708	0.000
					A	0.000	10.706		100.00	0.708	0.000
					B	0.000	10.706		100.00	0.708	0.000
L14 77.0000- 75.7500	76.3742	1.196	0.05	3.146	C	0.000	10.706	3.146	100.00	0.208	0.000
					A	0.000	3.146		100.00	0.208	0.000
					B	0.000	3.146		100.00	0.208	0.000
L15 75.7500- 70.7500	73.2375	1.185	0.05	12.828	C	0.000	3.146	12.828	100.00	0.208	0.000
					A	0.000	12.828		100.00	0.833	0.000
					B	0.000	12.828		100.00	0.833	0.000
L16 70.7500- 65.7500	68.2378	1.168	0.05	13.218	C	0.000	12.828	13.218	100.00	0.833	0.000
					A	0.000	13.218		100.00	0.833	0.000
					B	0.000	13.218		100.00	0.833	0.000
L17 65.7500- 63.0000	64.3714	1.154	0.04	7.435	C	0.000	13.218	7.435	100.00	0.833	0.000
					A	0.000	7.435		100.00	0.792	0.000
					B	0.000	7.435		100.00	0.792	0.000
L18 63.0000- 62.7300	62.8650	1.148	0.04	0.735	C	0.000	7.435	0.735	100.00	0.792	0.000
					A	0.000	0.735		100.00	0.090	0.000
					B	0.000	0.735		100.00	0.090	0.000
L19 62.7300- 62.5800	62.6550	1.147	0.04	0.409	C	0.000	0.735	0.409	100.00	0.090	0.000
					A	0.000	0.409		100.00	0.050	0.000
					B	0.000	0.409		100.00	0.050	0.000
L20 62.5800- 61.5000	62.0395	1.145	0.04	2.953	C	0.000	0.409	2.953	100.00	0.050	0.000
					A	0.000	2.953		100.00	0.360	0.000
					B	0.000	2.953		100.00	0.360	0.000
L21 61.5000- 61.2500	61.3750	1.142	0.04	0.688	C	0.000	2.953	0.688	100.00	0.360	0.000
					A	0.000	0.688		100.00	0.083	0.000
					B	0.000	0.688		100.00	0.083	0.000
L22 61.2500- 56.2500	58.7385	1.132	0.04	13.958	C	0.000	0.688	13.958	100.00	0.083	0.000
					A	0.000	13.958		100.00	1.208	0.000
					B	0.000	13.958		100.00	1.208	0.000
L23 56.2500- 51.2500	53.7388	1.111	0.04	14.346	C	0.000	13.958	14.346	100.00	1.208	0.000
					A	0.000	14.346		100.00	0.833	0.000
					B	0.000	14.346		100.00	0.833	0.000
L24 51.2500- 46.2500	48.7391	1.088	0.04	14.735	C	0.000	14.346	14.735	100.00	0.833	0.000
					A	0.000	14.735		100.00	0.833	0.000
					B	0.000	14.735		100.00	0.833	0.000
L25 46.2500- 37.7500	41.9695	1.054	0.04	25.943	C	0.000	14.735	25.943	100.00	0.833	0.000
					A	0.000	25.943		100.00	2.510	0.000
					B	0.000	25.943		100.00	2.510	0.000
L26 37.7500- 36.7500	37.2496	1.028	0.04	3.066	C	0.000	25.943	3.066	100.00	2.510	0.000
					A	0.000	3.066		100.00	0.375	0.000
					B	0.000	3.066		100.00	0.375	0.000
L27 36.7500- 32.2500	34.4916	1.012	0.04	13.991	C	0.000	3.066	13.991	100.00	0.375	0.000
					A	0.000	13.991		100.00	2.260	0.000
					B	0.000	13.991		100.00	1.802	0.000
L28 32.2500- 32.0000	32.1250	0.997	0.04	0.785	C	0.000	13.991	0.785	100.00	2.260	0.000
					A	0.000	0.785		100.00	0.146	0.000
					B	0.000	0.785		100.00	0.104	0.000
L29 32.0000- 31.8300	31.9150	0.995	0.04	0.534	C	0.000	0.785	0.534	100.00	0.146	0.000
					A	0.000	0.534		100.00	0.099	0.000
					B	0.000	0.534		100.00	0.071	0.000
					C	0.000	0.534		100.00	0.099	0.000

Section Elevation ft	z ft	K _Z	q _z ksf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L30 31.8300-31.4800	31.6550	0.993	0.04	1.105	A	0.000	1.105	1.105	100.00	0.204	0.000
					B	0.000	1.105	100.00	0.146	0.000	
					C	0.000	1.105	100.00	0.204	0.000	
L31 31.4800-31.2500	31.3650	0.991	0.04	0.727	A	0.000	0.727	0.727	100.00	0.134	0.000
					B	0.000	0.727	100.00	0.096	0.000	
					C	0.000	0.727	100.00	0.134	0.000	
L32 31.2500-26.2500	28.7399	0.973	0.04	16.012	A	0.000	16.012	16.012	100.00	1.927	0.000
					B	0.000	16.012	100.00	1.719	0.000	
					C	0.000	16.012	100.00	1.927	0.000	
L33 26.2500-21.2500	23.7402	0.935	0.04	16.401	A	0.000	16.401	16.401	100.00	1.042	0.000
					B	0.000	16.401	100.00	1.042	0.000	
					C	0.000	16.401	100.00	1.042	0.000	
L34 21.2500-16.2500	18.7404	0.89	0.03	16.790	A	0.000	16.790	16.790	100.00	1.042	0.000
					B	0.000	16.790	100.00	1.042	0.000	
					C	0.000	16.790	100.00	1.042	0.000	
L35 16.2500-11.2500	13.7406	0.85	0.03	17.179	A	0.000	17.179	17.179	100.00	1.042	0.000
					B	0.000	17.179	100.00	1.042	0.000	
					C	0.000	17.179	100.00	1.042	0.000	
L36 11.2500-6.2500	8.7408	0.85	0.03	17.568	A	0.000	17.568	17.568	100.00	1.042	0.000
					B	0.000	17.568	100.00	1.042	0.000	
					C	0.000	17.568	100.00	1.042	0.000	
L37 6.2500-1.2500	3.7410	0.85	0.03	17.957	A	0.000	17.957	17.957	100.00	1.042	0.000
					B	0.000	17.957	100.00	1.042	0.000	
					C	0.000	17.957	100.00	1.042	0.000	
L38 1.2500-0.0000	0.6244	0.85	0.03	4.550	A	0.000	4.550	4.550	100.00	0.260	0.000
					B	0.000	4.550	100.00	0.260	0.000	
					C	0.000	4.550	100.00	0.260	0.000	

Tower Pressure - With Ice

G_H = 1.100

Section Elevation ft	z ft	K _Z	q _z ksf	t _z in	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L1 130.0000-125.0000	127.5000	1.332	0.01	1.4595	8.716	A	0.000	8.716	8.716	100.00	0.000	0.000
						B	0.000	8.716	100.00	0.000	0.000	
						C	0.000	8.716	100.00	0.000	0.000	
L2 125.0000-120.5000	122.7500	1.321	0.01	1.4540	7.840	A	0.000	7.840	7.840	100.00	0.000	0.000
						B	0.000	7.840	100.00	0.000	0.000	
						C	0.000	7.840	100.00	0.000	0.000	
L3 120.5000-120.0000	120.2417	1.316	0.01	1.4510	0.954	A	0.000	0.954	0.954	100.00	0.000	0.000
						B	0.000	0.954	100.00	0.000	0.000	
						C	0.000	0.954	100.00	0.000	0.000	
L4 120.0000-115.0000	117.4833	1.309	0.01	1.4476	10.854	A	0.000	10.854	10.854	100.00	0.000	0.000
						B	0.000	10.854	100.00	0.000	0.000	
						C	0.000	10.854	100.00	0.000	0.000	
L5 115.0000-110.0000	112.4839	1.297	0.01	1.4413	11.237	A	0.000	11.237	11.237	100.00	0.000	0.000
						B	0.000	11.237	100.00	0.000	0.000	
						C	0.000	11.237	100.00	0.000	0.000	
L6 110.0000-105.0000	107.4845	1.285	0.01	1.4348	11.620	A	0.000	11.620	11.620	100.00	0.000	0.000
						B	0.000	11.620	100.00	0.000	0.000	
						C	0.000	11.620	100.00	0.000	0.000	
L7 105.0000-100.0000	102.4851	1.272	0.01	1.4280	12.002	A	0.000	12.002	12.002	100.00	0.000	0.000
						B	0.000	12.002	100.00	0.000	0.000	
						C	0.000	12.002	100.00	0.000	0.000	
L8 100.0000-95.0000	97.4856	1.259	0.01	1.4209	12.385	A	0.000	12.385	12.385	100.00	0.000	0.000
						B	0.000	12.385	100.00	0.000	0.000	
						C	0.000	12.385	100.00	0.000	0.000	
L9 95.0000-91.5000	93.2431	1.247	0.01	1.4146	8.897	A	0.000	8.897	8.897	100.00	1.124	0.000
						B	0.000	8.897	100.00	1.124	0.000	
						C	0.000	8.897	100.00	1.124	0.000	
L10 91.5000-91.2500	91.3750	1.242	0.01	1.4117	0.641	A	0.000	0.641	0.641	100.00	0.112	0.000
						B	0.000	0.641	100.00	0.112	0.000	
						C	0.000	0.641	100.00	0.112	0.000	

Section Elevation ft	z ft	K _Z	q _z ksf	t _z in	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L11 91.2500- 86.2500	88.7364	1.234	0.01	1.4076	13.020	A	0.000	13.020	13.020	100.00	2.241	0.000
						B	0.000	13.020	13.020	100.00	2.241	0.000
						C	0.000	13.020	13.020	100.00	2.241	0.000
L12 86.2500- 81.2500	83.7369	1.219	0.01	1.3994	13.402	A	0.000	13.402	13.402	100.00	2.233	0.000
						B	0.000	13.402	13.402	100.00	2.233	0.000
						C	0.000	13.402	13.402	100.00	2.233	0.000
L13 81.2500- 77.0000	79.1158	1.205	0.01	1.3915	11.692	A	0.000	11.692	11.692	100.00	1.891	0.000
						B	0.000	11.692	11.692	100.00	1.891	0.000
						C	0.000	11.692	11.692	100.00	1.891	0.000
L14 77.0000- 75.7500	76.3742	1.196	0.01	1.3866	3.436	A	0.000	3.436	3.436	100.00	0.556	0.000
						B	0.000	3.436	3.436	100.00	0.556	0.000
						C	0.000	3.436	3.436	100.00	0.556	0.000
L15 75.7500- 70.7500	73.2375	1.185	0.01	1.3808	13.979	A	0.000	13.979	13.979	100.00	2.214	0.000
						B	0.000	13.979	13.979	100.00	2.214	0.000
						C	0.000	13.979	13.979	100.00	2.214	0.000
L16 70.7500- 65.7500	68.2378	1.168	0.01	1.3711	14.361	A	0.000	14.361	14.361	100.00	2.204	0.000
						B	0.000	14.361	14.361	100.00	2.204	0.000
						C	0.000	14.361	14.361	100.00	2.204	0.000
L17 65.7500- 63.0000	64.3714	1.154	0.01	1.3631	8.060	A	0.000	8.060	8.060	100.00	2.087	0.000
						B	0.000	8.060	8.060	100.00	2.087	0.000
						C	0.000	8.060	8.060	100.00	2.087	0.000
L18 63.0000- 62.7300	62.8650	1.148	0.01	1.3599	0.796	A	0.000	0.796	0.796	100.00	0.237	0.000
						B	0.000	0.796	0.796	100.00	0.237	0.000
						C	0.000	0.796	0.796	100.00	0.237	0.000
L19 62.7300- 62.5800	62.6550	1.147	0.01	1.3594	0.443	A	0.000	0.443	0.443	100.00	0.132	0.000
						B	0.000	0.443	0.443	100.00	0.132	0.000
						C	0.000	0.443	0.443	100.00	0.132	0.000
L20 62.5800- 61.5000	62.0395	1.145	0.01	1.3581	3.197	A	0.000	3.197	3.197	100.00	0.947	0.000
						B	0.000	3.197	3.197	100.00	0.947	0.000
						C	0.000	3.197	3.197	100.00	0.947	0.000
L21 61.5000- 61.2500	61.3750	1.142	0.01	1.3566	0.744	A	0.000	0.744	0.744	100.00	0.219	0.000
						B	0.000	0.744	0.744	100.00	0.219	0.000
						C	0.000	0.744	0.744	100.00	0.219	0.000
L22 61.2500- 56.2500	58.7385	1.132	0.01	1.3507	15.083	A	0.000	15.083	15.083	100.00	3.167	0.000
						B	0.000	15.083	15.083	100.00	3.167	0.000
						C	0.000	15.083	15.083	100.00	3.167	0.000
L23 56.2500- 51.2500	53.7388	1.111	0.01	1.3387	15.462	A	0.000	15.462	15.462	100.00	2.172	0.000
						B	0.000	15.462	15.462	100.00	2.172	0.000
						C	0.000	15.462	15.462	100.00	2.172	0.000
L24 51.2500- 46.2500	48.7391	1.088	0.01	1.3257	15.840	A	0.000	15.840	15.840	100.00	2.159	0.000
						B	0.000	15.840	15.840	100.00	2.159	0.000
						C	0.000	15.840	15.840	100.00	2.159	0.000
L25 46.2500- 37.7500	41.9695	1.054	0.01	1.3060	27.793	A	0.000	27.793	27.793	100.00	5.910	0.000
						B	0.000	27.793	27.793	100.00	5.910	0.000
						C	0.000	27.793	27.793	100.00	5.910	0.000
L26 37.7500- 36.7500	37.2496	1.028	0.01	1.2905	3.284	A	0.000	3.284	3.284	100.00	0.861	0.000
						B	0.000	3.284	3.284	100.00	0.861	0.000
						C	0.000	3.284	3.284	100.00	0.861	0.000
L27 36.7500- 32.2500	34.4916	1.012	0.01	1.2806	14.952	A	0.000	14.952	14.952	100.00	5.111	0.000
						B	0.000	14.952	14.952	100.00	3.948	0.000
						C	0.000	14.952	14.952	100.00	5.111	0.000
L28 32.2500- 32.0000	32.1250	0.997	0.01	1.2716	0.838	A	0.000	0.838	0.838	100.00	0.328	0.000
						B	0.000	0.838	0.838	100.00	0.223	0.000
						C	0.000	0.838	0.838	100.00	0.328	0.000
L29 32.0000- 31.8300	31.9150	0.995	0.01	1.2707	0.570	A	0.000	0.570	0.570	100.00	0.223	0.000
						B	0.000	0.570	0.570	100.00	0.151	0.000
						C	0.000	0.570	0.570	100.00	0.223	0.000
L30 31.8300- 31.4800	31.6550	0.993	0.01	1.2697	1.179	A	0.000	1.179	1.179	100.00	0.459	0.000
						B	0.000	1.179	1.179	100.00	0.311	0.000
						C	0.000	1.179	1.179	100.00	0.459	0.000
L31 31.4800- 31.2500	31.3650	0.991	0.01	1.2685	0.776	A	0.000	0.776	0.776	100.00	0.301	0.000
						B	0.000	0.776	0.776	100.00	0.205	0.000
						C	0.000	0.776	0.776	100.00	0.301	0.000
L32 31.2500- 26.2500	28.7399	0.973	0.01	1.2575	17.060	A	0.000	17.060	17.060	100.00	4.205	0.000
						B	0.000	17.060	17.060	100.00	3.683	0.000
						C	0.000	17.060	17.060	100.00	4.205	0.000
L33 26.2500- 21.2500	23.7402	0.935	0.01	1.2337	17.429	A	0.000	17.429	17.429	100.00	2.275	0.000
						B	0.000	17.429	17.429	100.00	2.275	0.000
						B	0.000	17.429	17.429	100.00	2.275	0.000

Section Elevation ft	z ft	K _Z	q _z ksf	t _z in	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L34 21.2500-16.2500	18.7404	0.89	0.01	1.2049	17.794	C	0.000	17.429	17.794	100.00	2.275	0.000
						A	0.000	17.794		100.00	2.247	0.000
						B	0.000	17.794		100.00	2.247	0.000
						C	0.000	17.794		100.00	2.247	0.000
L35 16.2500-11.2500	13.7406	0.85	0.00	1.1680	18.153	A	0.000	18.153	18.153	100.00	2.210	0.000
						B	0.000	18.153		100.00	2.210	0.000
						C	0.000	18.153		100.00	2.210	0.000
L36 11.2500-6.2500	8.7408	0.85	0.00	1.1164	18.498	A	0.000	18.498	18.498	100.00	2.158	0.000
						B	0.000	18.498		100.00	2.158	0.000
						C	0.000	18.498		100.00	2.158	0.000
L37 6.2500-1.2500	3.7410	0.85	0.00	1.0256	18.812	A	0.000	18.812	18.812	100.00	2.067	0.000
						B	0.000	18.812		100.00	2.067	0.000
						C	0.000	18.812		100.00	2.067	0.000
L38 1.2500-0.0000	0.6244	0.85	0.00	0.8574	4.729	A	0.000	4.729	4.729	100.00	0.475	0.000
						B	0.000	4.729		100.00	0.475	0.000
						C	0.000	4.729		100.00	0.475	0.000
						C	0.000	4.729		100.00	0.475	0.000

Tower Pressure - Service

G_H = 1.100

Section Elevation ft	z ft	K _Z	q _z ksf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
L1 130.0000-125.0000	127.5000	1.332	0.01	7.500	A	0.000	7.500	7.500	100.00	0.000	0.000
					B	0.000	7.500		100.00	0.000	0.000
					C	0.000	7.500		100.00	0.000	0.000
L2 125.0000-120.5000	122.7500	1.321	0.01	6.750	A	0.000	6.750	6.750	100.00	0.000	0.000
					B	0.000	6.750		100.00	0.000	0.000
					C	0.000	6.750		100.00	0.000	0.000
L3 120.5000-120.0000	120.2417	1.316	0.01	0.833	A	0.000	0.833	0.833	100.00	0.000	0.000
					B	0.000	0.833		100.00	0.000	0.000
					C	0.000	0.833		100.00	0.000	0.000
L4 120.0000-115.0000	117.4833	1.309	0.01	9.647	A	0.000	9.647	9.647	100.00	0.000	0.000
					B	0.000	9.647		100.00	0.000	0.000
					C	0.000	9.647		100.00	0.000	0.000
L5 115.0000-110.0000	112.4839	1.297	0.01	10.036	A	0.000	10.036	10.036	100.00	0.000	0.000
					B	0.000	10.036		100.00	0.000	0.000
					C	0.000	10.036		100.00	0.000	0.000
L6 110.0000-105.0000	107.4845	1.285	0.01	10.424	A	0.000	10.424	10.424	100.00	0.000	0.000
					B	0.000	10.424		100.00	0.000	0.000
					C	0.000	10.424		100.00	0.000	0.000
L7 105.0000-100.0000	102.4851	1.272	0.01	10.812	A	0.000	10.812	10.812	100.00	0.000	0.000
					B	0.000	10.812		100.00	0.000	0.000
					C	0.000	10.812		100.00	0.000	0.000
L8 100.0000-95.0000	97.4856	1.259	0.01	11.201	A	0.000	11.201	11.201	100.00	0.000	0.000
					B	0.000	11.201		100.00	0.000	0.000
					C	0.000	11.201		100.00	0.000	0.000
L9 95.0000-91.5000	93.2431	1.247	0.01	8.072	A	0.000	8.072	8.072	100.00	0.417	0.000
					B	0.000	8.072		100.00	0.417	0.000
					C	0.000	8.072		100.00	0.417	0.000
L10 91.5000-91.2500	91.3750	1.242	0.01	0.582	A	0.000	0.582	0.582	100.00	0.042	0.000
					B	0.000	0.582		100.00	0.042	0.000
					C	0.000	0.582		100.00	0.042	0.000
L11 91.2500-86.2500	88.7364	1.234	0.01	11.847	A	0.000	11.847	11.847	100.00	0.833	0.000
					B	0.000	11.847		100.00	0.833	0.000
					C	0.000	11.847		100.00	0.833	0.000
L12 86.2500-81.2500	83.7369	1.219	0.01	12.236	A	0.000	12.236	12.236	100.00	0.833	0.000
					B	0.000	12.236		100.00	0.833	0.000
					C	0.000	12.236		100.00	0.833	0.000
L13 81.2500-77.0000	79.1158	1.205	0.01	10.706	A	0.000	10.706	10.706	100.00	0.708	0.000
					B	0.000	10.706		100.00	0.708	0.000
					C	0.000	10.706		100.00	0.708	0.000
L14 77.0000-75.7500	76.3742	1.196	0.01	3.146	A	0.000	3.146	3.146	100.00	0.208	0.000
					B	0.000	3.146		100.00	0.208	0.000
					C	0.000	3.146		100.00	0.208	0.000

Section Elevation ft	z ft	K_z	q_z ksf	A_G ft ²	F a c e	A_F ft ²	A_R ft ²	A_{leg} ft ²	Leg %	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²
L15 75.7500- 70.7500	73.2375	1.185	0.01	12.828	A	0.000	12.828	12.828	100.00	0.833	0.000
					B	0.000	12.828	100.00	0.833	0.000	
					C	0.000	12.828	100.00	0.833	0.000	
L16 70.7500- 65.7500	68.2378	1.168	0.01	13.218	A	0.000	13.218	13.218	100.00	0.833	0.000
					B	0.000	13.218	100.00	0.833	0.000	
					C	0.000	13.218	100.00	0.833	0.000	
L17 65.7500- 63.0000	64.3714	1.154	0.01	7.435	A	0.000	7.435	7.435	100.00	0.792	0.000
					B	0.000	7.435	100.00	0.792	0.000	
					C	0.000	7.435	100.00	0.792	0.000	
L18 63.0000- 62.7300	62.8650	1.148	0.01	0.735	A	0.000	0.735	0.735	100.00	0.090	0.000
					B	0.000	0.735	100.00	0.090	0.000	
					C	0.000	0.735	100.00	0.090	0.000	
L19 62.7300- 62.5800	62.6550	1.147	0.01	0.409	A	0.000	0.409	0.409	100.00	0.050	0.000
					B	0.000	0.409	100.00	0.050	0.000	
					C	0.000	0.409	100.00	0.050	0.000	
L20 62.5800- 61.5000	62.0395	1.145	0.01	2.953	A	0.000	2.953	2.953	100.00	0.360	0.000
					B	0.000	2.953	100.00	0.360	0.000	
					C	0.000	2.953	100.00	0.360	0.000	
L21 61.5000- 61.2500	61.3750	1.142	0.01	0.688	A	0.000	0.688	0.688	100.00	0.083	0.000
					B	0.000	0.688	100.00	0.083	0.000	
					C	0.000	0.688	100.00	0.083	0.000	
L22 61.2500- 56.2500	58.7385	1.132	0.01	13.958	A	0.000	13.958	13.958	100.00	1.208	0.000
					B	0.000	13.958	100.00	1.208	0.000	
					C	0.000	13.958	100.00	1.208	0.000	
L23 56.2500- 51.2500	53.7388	1.111	0.01	14.346	A	0.000	14.346	14.346	100.00	0.833	0.000
					B	0.000	14.346	100.00	0.833	0.000	
					C	0.000	14.346	100.00	0.833	0.000	
L24 51.2500- 46.2500	48.7391	1.088	0.01	14.735	A	0.000	14.735	14.735	100.00	0.833	0.000
					B	0.000	14.735	100.00	0.833	0.000	
					C	0.000	14.735	100.00	0.833	0.000	
L25 46.2500- 37.7500	41.9695	1.054	0.01	25.943	A	0.000	25.943	25.943	100.00	2.510	0.000
					B	0.000	25.943	100.00	2.510	0.000	
					C	0.000	25.943	100.00	2.510	0.000	
L26 37.7500- 36.7500	37.2496	1.028	0.01	3.066	A	0.000	3.066	3.066	100.00	0.375	0.000
					B	0.000	3.066	100.00	0.375	0.000	
					C	0.000	3.066	100.00	0.375	0.000	
L27 36.7500- 32.2500	34.4916	1.012	0.01	13.991	A	0.000	13.991	13.991	100.00	2.260	0.000
					B	0.000	13.991	100.00	1.802	0.000	
					C	0.000	13.991	100.00	2.260	0.000	
L28 32.2500- 32.0000	32.1250	0.997	0.01	0.785	A	0.000	0.785	0.785	100.00	0.146	0.000
					B	0.000	0.785	100.00	0.104	0.000	
					C	0.000	0.785	100.00	0.146	0.000	
L29 32.0000- 31.8300	31.9150	0.995	0.01	0.534	A	0.000	0.534	0.534	100.00	0.099	0.000
					B	0.000	0.534	100.00	0.071	0.000	
					C	0.000	0.534	100.00	0.099	0.000	
L30 31.8300- 31.4800	31.6550	0.993	0.01	1.105	A	0.000	1.105	1.105	100.00	0.204	0.000
					B	0.000	1.105	100.00	0.146	0.000	
					C	0.000	1.105	100.00	0.204	0.000	
L31 31.4800- 31.2500	31.3650	0.991	0.01	0.727	A	0.000	0.727	0.727	100.00	0.134	0.000
					B	0.000	0.727	100.00	0.096	0.000	
					C	0.000	0.727	100.00	0.134	0.000	
L32 31.2500- 26.2500	28.7399	0.973	0.01	16.012	A	0.000	16.012	16.012	100.00	1.927	0.000
					B	0.000	16.012	100.00	1.719	0.000	
					C	0.000	16.012	100.00	1.927	0.000	
L33 26.2500- 21.2500	23.7402	0.935	0.01	16.401	A	0.000	16.401	16.401	100.00	1.042	0.000
					B	0.000	16.401	100.00	1.042	0.000	
					C	0.000	16.401	100.00	1.042	0.000	
L34 21.2500- 16.2500	18.7404	0.89	0.01	16.790	A	0.000	16.790	16.790	100.00	1.042	0.000
					B	0.000	16.790	100.00	1.042	0.000	
					C	0.000	16.790	100.00	1.042	0.000	
L35 16.2500- 11.2500	13.7406	0.85	0.01	17.179	A	0.000	17.179	17.179	100.00	1.042	0.000
					B	0.000	17.179	100.00	1.042	0.000	
					C	0.000	17.179	100.00	1.042	0.000	
L36 11.2500- 6.2500	8.7408	0.85	0.01	17.568	A	0.000	17.568	17.568	100.00	1.042	0.000
					B	0.000	17.568	100.00	1.042	0.000	
					C	0.000	17.568	100.00	1.042	0.000	
L37 6.2500- 1.2500	3.7410	0.85	0.01	17.957	A	0.000	17.957	17.957	100.00	1.042	0.000
					B	0.000	17.957	100.00	1.042	0.000	

Section Elevation ft	z ft	K_z	q_z ksf	A_G ft ²	F a c e	A_F ft ²	A_R ft ²	A_{leg} ft ²	Leg %	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²
L38 1.2500- 0.0000	0.6244	0.85	0.01	4.550	C	0.000	17.957	4.550	100.00	1.042	0.000
					A	0.000	4.550		100.00	0.260	0.000
					B	0.000	4.550		100.00	0.260	0.000
					C	0.000	4.550		100.00	0.260	0.000

Load Combinations

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	130 - 125	Pole	Max Tension	2	0.00	-0.00	0.00
			Max. Compression	26	-7.63	-0.00	0.00
			Max. Mx	8	-3.14	-31.35	-0.02
			Max. My	14	-3.14	0.01	-31.36
			Max. Vy	8	7.08	-31.35	-0.02
			Max. Vx	14	7.08	0.01	-31.36
L2	125 - 120.5	Pole	Max. Torque	16			-0.01
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-9.47	0.39	0.23
			Max. Mx	20	-4.02	66.47	-0.94
			Max. My	14	-3.99	-0.31	-66.87
			Max. Vy	8	8.54	-66.24	-0.59
L3	120.5 - 120	Pole	Max. Vx	14	8.70	-0.31	-66.87
			Max. Torque	14			-2.38
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-9.55	0.39	0.23
			Max. Mx	20	-4.07	70.74	-1.07
			Max. My	14	-4.04	-0.33	-71.22
L4	120 - 115	Pole	Max. Vy	8	8.58	-70.52	-0.70
			Max. Vx	14	8.74	-0.33	-71.22
			Max. Torque	14			-2.38
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-16.40	0.38	0.24
			Max. Mx	20	-7.48	131.28	-2.43
L5	115 - 110	Pole	Max. My	14	-7.45	-0.62	-132.66
			Max. Vy	8	13.06	-131.15	-1.79
			Max. Vx	14	13.22	-0.62	-132.66
			Max. Torque	14			-2.39
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.10	0.38	0.25
L6	110 - 105	Pole	Max. Mx	20	-7.94	197.86	-3.80
			Max. My	14	-7.91	-0.91	-200.15
			Max. Vy	8	13.61	-197.82	-2.90
			Max. Vx	14	13.78	-0.91	-200.15
			Max. Torque	14			-2.38
			Max Tension	1	0.00	0.00	0.00
L7	105 - 100	Pole	Max. Compression	26	-25.67	-0.45	0.84
			Max. Mx	8	-11.89	-299.05	-4.14
			Max. My	14	-11.86	-1.72	-302.02
			Max. Vy	8	19.70	-299.05	-4.14
			Max. Vx	14	19.91	-1.72	-302.02
			Max. Torque	14			-2.38
L8	100 - 95	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-26.43	-0.45	0.84
			Max. Mx	8	-12.47	-398.87	-5.52
			Max. My	14	-12.44	-2.27	-402.90
			Max. Vy	8	20.24	-398.87	-5.52
			Max. Vx	14	20.45	-2.27	-402.90
L9	95 - 91.5	Pole	Max. Torque	15			-1.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.86	-0.45	0.84
			Max. Mx	8	-13.53	-574.84	-7.84
			Max. My	14	-13.50	-3.21	-580.67
			Max. Vy	8	21.21	-574.84	-7.84
L10	91.5 - 91.25	Pole	Max. Vx	14	21.42	-3.21	-580.67
			Max. Torque	15			-1.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-27.93	-0.45	0.84
			Max. Mx	8	-13.59	-580.15	-7.91

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L11	91.25 - 86.25	Pole	Max. My	14	-13.56	-3.24	-586.03
			Max. Vy	8	21.24	-580.15	-7.91
			Max. Vx	14	21.45	-3.24	-586.03
			Max. Torque	15			-1.93
			Max Tension	1	0.00	0.00	0.00
L12	86.25 - 81.25	Pole	Max. Compression	26	-29.27	-0.45	0.84
			Max. Mx	8	-14.54	-688.23	-9.27
			Max. My	14	-14.51	-3.79	-695.17
			Max. Vy	8	22.01	-688.23	-9.27
			Max. Vx	14	22.22	-3.79	-695.17
L13	81.25 - 77	Pole	Max. Torque	15			-1.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30.63	-0.45	0.84
			Max. Mx	8	-15.52	-800.13	-10.64
			Max. My	14	-15.49	-4.34	-808.13
L14	77 - 75.75	Pole	Max. Vy	8	22.77	-800.13	-10.64
			Max. Vx	14	22.98	-4.34	-808.13
			Max. Torque	15			-1.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30.77	-0.45	0.84
L15	75.75 - 70.75	Pole	Max. Mx	8	-15.62	-811.53	-10.77
			Max. My	14	-15.60	-4.40	-819.64
			Max. Vy	8	22.84	-811.53	-10.77
			Max. Vx	14	23.05	-4.40	-819.64
			Max. Torque	15			-1.93
L16	70.75 - 65.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-33.11	-0.45	0.84
			Max. Mx	8	-17.33	-927.84	-12.14
			Max. My	14	-17.30	-4.95	-937.01
			Max. Vy	8	23.68	-927.84	-12.14
L17	65.75 - 63	Pole	Max. Vx	14	23.89	-4.95	-937.01
			Max. Torque	15			-1.93
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34.62	-0.45	0.84
			Max. Mx	8	-18.47	-1048.05	-13.51
L18	63 - 62.73	Pole	Max. My	14	-18.44	-5.51	-1058.28
			Max. Vy	8	24.43	-1048.05	-13.51
			Max. Vx	14	24.64	-5.51	-1058.28
			Max. Torque	15			-1.93
			Max Tension	1	0.00	0.00	0.00
L19	62.73 - 62.58	Pole	Max. Compression	26	-36.16	-0.45	0.83
			Max. Mx	8	-19.64	-1171.97	-14.87
			Max. My	14	-19.62	-6.07	-1183.26
			Max. Vy	8	25.16	-1171.97	-14.87
			Max. Vx	14	25.37	-6.07	-1183.26
L18	63 - 62.73	Pole	Max. Torque	15			-1.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.07	-0.45	0.83
			Max. Mx	8	-20.29	-1241.93	-15.62
			Max. My	14	-20.26	-6.37	-1253.81
L19	62.73 - 62.58	Pole	Max. Vy	8	25.75	-1241.93	-15.62
			Max. Vx	14	25.96	-6.37	-1253.81
			Max. Torque	15			-1.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.19	-0.45	0.84
L19	62.73 - 62.58	Pole	Max. Mx	8	-20.38	-1248.89	-15.70
			Max. My	14	-20.36	-6.40	-1260.82
			Max. Vy	8	25.80	-1248.89	-15.70
			Max. Vx	14	26.01	-6.40	-1260.82
			Max. Torque	15			-1.92
L19	62.73 - 62.58	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.25	-0.45	0.84
			Max. Mx	8	-20.43	-1252.76	-15.74
			Max. My	14	-20.40	-6.42	-1264.73

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L20	62.58 - 61.5	Pole	Max. Vy	8	25.83	-1252.76	-15.74
			Max. Vx	14	26.04	-6.42	-1264.73
			Max. Torque	15			-1.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.70	-0.45	0.83
			Max. Mx	8	-20.75	-1280.79	-16.03
			Max. My	14	-20.72	-6.54	-1292.98
			Max. Vy	8	26.08	-1280.79	-16.03
			Max. Vx	14	26.29	-6.54	-1292.98
L21	61.5 - 61.25	Pole	Max. Torque	15			-1.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37.79	-0.45	0.83
			Max. Mx	8	-20.82	-1287.31	-16.10
			Max. My	14	-20.79	-6.57	-1299.56
			Max. Vy	8	26.13	-1287.31	-16.10
			Max. Vx	14	26.35	-6.57	-1299.56
			Max. Torque	15			-1.92
			Max Tension	1	0.00	0.00	0.00
L22	61.25 - 56.25	Pole	Max. Compression	26	-39.43	-0.45	0.83
			Max. Mx	8	-22.02	-1420.45	-17.46
			Max. My	14	-22.00	-7.12	-1433.75
			Max. Vy	8	27.14	-1420.45	-17.46
			Max. Vx	14	27.35	-7.12	-1433.75
			Max. Torque	15			-1.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41.03	-0.45	0.83
			Max. Mx	8	-23.28	-1557.81	-18.82
L23	56.25 - 51.25	Pole	Max. My	14	-23.26	-7.68	-1572.18
			Max. Vy	8	27.83	-1557.81	-18.82
			Max. Vx	14	28.04	-7.68	-1572.18
			Max. Torque	15			-1.92
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-42.79	-0.45	1.27
			Max. Mx	8	-24.64	-1699.00	-19.91
			Max. My	14	-24.63	-8.24	-1714.00
			Max. Vy	8	28.61	-1699.00	-19.91
L24	51.25 - 46.25	Pole	Max. Vx	14	28.78	-8.24	-1714.00
			Max. Torque	17			-1.98
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44.18	-0.44	1.27
			Max. Mx	8	-25.69	-1814.94	-20.99
			Max. My	14	-25.67	-8.68	-1830.62
			Max. Vy	8	29.39	-1814.94	-20.99
			Max. Vx	14	29.56	-8.68	-1830.62
			Max. Torque	17			-1.98
L25	46.25 - 37.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47.93	-0.44	1.27
			Max. Mx	8	-28.61	-1979.92	-22.47
			Max. My	14	-28.59	-9.29	-1996.53
			Max. Vy	8	30.62	-1979.92	-22.47
			Max. Vx	14	30.79	-9.29	-1996.53
			Max. Torque	17			-1.98
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.09	-0.40	1.25
L26	37.75 - 36.75	Pole	Max. Mx	8	-30.24	-2119.94	-23.68
			Max. My	14	-30.23	-9.79	-2137.14
			Max. Vy	8	31.64	-2119.94	-23.68
			Max. Vx	14	31.73	-9.79	-2137.14
			Max. Torque	17			-2.01
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.24	-0.40	1.26
			Max. Mx	8	-30.37	-2127.85	-23.75
			Max. My	14	-30.36	-9.82	-2145.07

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L29	32 - 31.83	Pole	Max. Vy	8	31.69	-2127.85	-23.75
			Max. Vx	14	31.78	-9.82	-2145.07
			Max. Torque	17			-2.01
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.34	-0.40	1.26
			Max. Mx	8	-30.45	-2133.24	-23.80
			Max. My	14	-30.44	-9.84	-2150.48
			Max. Vy	8	31.73	-2133.24	-23.80
L30	31.83 - 31.48	Pole	Max. Vx	14	31.81	-9.84	-2150.48
			Max. Torque	17			-2.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.49	-0.39	1.25
			Max. Mx	8	-30.56	-2144.36	-23.89
			Max. My	14	-30.55	-9.88	-2161.62
			Max. Vy	8	31.82	-2144.36	-23.89
			Max. Vx	14	31.89	-9.88	-2161.62
L31	31.48 - 31.25	Pole	Max. Torque	17			-2.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50.59	-0.38	1.25
			Max. Mx	8	-30.64	-2151.68	-23.95
			Max. My	14	-30.63	-9.90	-2168.96
			Max. Vy	8	31.87	-2151.68	-23.95
			Max. Vx	14	31.93	-9.90	-2168.96
			Max. Torque	17			-2.02
L32	31.25 - 26.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52.69	-0.38	1.21
			Max. Mx	8	-32.28	-2313.40	-25.29
			Max. My	14	-32.27	-10.46	-2330.91
			Max. Vy	8	32.84	-2313.40	-25.29
			Max. Vx	14	32.87	-10.46	-2330.91
			Max. Torque	17			-2.02
			Max Tension	1	0.00	0.00	0.00
L33	26.25 - 21.25	Pole	Max. Compression	26	-54.68	-0.40	1.18
			Max. Mx	8	-33.97	-2478.96	-26.63
			Max. My	14	-33.96	-11.01	-2496.62
			Max. Vy	8	33.42	-2478.96	-26.63
			Max. Vx	14	33.45	-11.01	-2496.62
			Max. Torque	17			-2.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-56.69	-0.42	1.14
L34	21.25 - 16.25	Pole	Max. Mx	8	-35.69	-2647.28	-27.95
			Max. My	14	-35.69	-11.56	-2665.09
			Max. Vy	8	33.95	-2647.28	-27.95
			Max. Vx	14	33.98	-11.56	-2665.09
			Max. Torque	15			-2.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-58.71	-0.43	1.11
			Max. Mx	8	-37.44	-2818.18	-29.27
L35	16.25 - 11.25	Pole	Max. My	14	-37.44	-12.10	-2836.12
			Max. Vy	8	34.45	-2818.18	-29.27
			Max. Vx	14	34.47	-12.10	-2836.12
			Max. Torque	15			-2.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-60.74	-0.45	1.08
			Max. Mx	8	-39.22	-2991.53	-30.58
			Max. My	14	-39.22	-12.65	-3009.60
L36	11.25 - 6.25	Pole	Max. Vy	8	34.93	-2991.53	-30.58
			Max. Vx	14	34.96	-12.65	-3009.60
			Max. Torque	15			-2.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.77	-0.47	1.05
			Max. Mx	8	-41.03	-3167.30	-31.88
			Max. My	14	-41.03	-13.19	-3185.50
			Max. Vy	8	34.93	-2991.53	-30.58
L37	6.25 - 1.25	Pole	Max. Vx	14	34.96	-12.65	-3009.60
			Max. Torque	15			-2.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-62.77	-0.47	1.05

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L38	1.25 - 0	Pole	Max. Vy	8	35.41	-3167.30	-31.88
			Max. Vx	14	35.44	-13.19	-3185.50
			Max. Torque	15			-2.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.26	-0.47	1.04
			Max. Mx	8	-41.48	-3211.62	-32.20
			Max. My	14	-41.48	-13.32	-3229.84
			Max. Vy	8	35.54	-3211.62	-32.20
			Max. Vx	14	35.56	-13.32	-3229.84
			Max. Torque	15			-2.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	63.26	0.00	-0.00
	Max. H _x	21	31.13	35.50	-0.22
	Max. H _z	3	31.13	0.05	35.33
	Max. M _x	2	3204.70	0.05	35.33
	Max. M _z	8	3211.62	-35.51	-0.26
	Max. Torsion	5	0.83	-18.64	32.46
	Min. Vert	21	31.13	35.50	-0.22
	Min. H _x	8	41.51	-35.51	-0.26
	Min. H _z	14	41.51	-0.11	-35.54
	Min. M _x	14	-3229.84	-0.11	-35.54
	Min. M _z	20	-3209.14	35.50	-0.22
	Min. Torsion	15	-2.00	-0.11	-35.54

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	34.59	0.00	-0.00	-0.47	-0.09	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	41.51	-0.05	-35.33	-3204.70	5.32	-0.32
0.9 Dead+1.0 Wind 0 deg - No Ice	31.13	-0.05	-35.33	-3171.36	5.29	-0.33
1.2 Dead+1.0 Wind 30 deg - No Ice	41.51	18.64	-32.46	-2805.44	-1604.93	-0.83
0.9 Dead+1.0 Wind 30 deg - No Ice	31.13	18.64	-32.46	-2776.43	-1588.41	-0.83
1.2 Dead+1.0 Wind 60 deg - No Ice	41.51	30.75	-17.54	-1580.14	-2781.59	-0.30
0.9 Dead+1.0 Wind 60 deg - No Ice	31.13	30.75	-17.54	-1563.66	-2752.75	-0.30
1.2 Dead+1.0 Wind 90 deg - No Ice	41.51	35.51	0.26	32.20	-3211.62	0.34
0.9 Dead+1.0 Wind 90 deg - No Ice	31.13	35.51	0.26	31.97	-3178.32	0.35
1.2 Dead+1.0 Wind 120 deg - No Ice	41.51	30.73	17.89	1623.44	-2777.86	0.49
0.9 Dead+1.0 Wind 120 deg - No Ice	31.13	30.73	17.89	1606.75	-2749.07	0.50
1.2 Dead+1.0 Wind 150 deg - No Ice	41.51	17.29	30.28	2798.73	-1589.13	1.43
0.9 Dead+1.0 Wind 150 deg - No Ice	31.13	17.29	30.28	2769.72	-1572.58	1.44
1.2 Dead+1.0 Wind 180 deg - No Ice	41.51	0.11	35.54	3229.84	-13.32	1.99
0.9 Dead+1.0 Wind 180 deg - No Ice	31.13	0.11	35.54	3196.47	-13.13	2.00

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 210 deg - No Ice	41.51	-18.59	32.67	2831.35	1598.12	1.77
0.9 Dead+1.0 Wind 210 deg - No Ice	31.13	-18.59	32.67	2802.34	1581.76	1.77
1.2 Dead+1.0 Wind 240 deg - No Ice	41.51	-30.68	17.81	1613.53	2772.02	0.78
0.9 Dead+1.0 Wind 240 deg - No Ice	31.13	-30.68	17.81	1596.95	2743.36	0.78
1.2 Dead+1.0 Wind 270 deg - No Ice	41.51	-35.50	0.22	28.10	3209.14	1.25
0.9 Dead+1.0 Wind 270 deg - No Ice	31.13	-35.50	0.22	27.91	3175.97	1.24
1.2 Dead+1.0 Wind 300 deg - No Ice	41.51	-30.68	-17.75	-1606.57	2771.10	0.23
0.9 Dead+1.0 Wind 300 deg - No Ice	31.13	-30.68	-17.75	-1589.78	2742.45	0.22
1.2 Dead+1.0 Wind 330 deg - No Ice	41.51	-17.33	-30.03	-2766.74	1594.01	-0.07
0.9 Dead+1.0 Wind 330 deg - No Ice	31.13	-17.33	-30.03	-2737.80	1577.47	-0.08
1.2 Dead+1.0 Ice+1.0 Temp	63.26	-0.00	0.00	-1.04	-0.47	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	63.26	-0.01	-7.03	-694.09	0.59	-0.03
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	63.26	3.64	-6.34	-605.63	-346.80	-0.16
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	63.26	6.12	-3.49	-343.31	-602.00	-0.09
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	63.26	7.07	0.05	5.10	-695.02	0.00
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	63.26	6.12	3.56	349.49	-601.36	0.02
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	63.26	3.49	6.10	604.98	-345.53	0.20
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	63.26	0.02	7.07	696.69	-3.12	0.33
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	63.26	-3.64	6.38	608.39	344.51	0.33
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	63.26	-6.11	3.54	347.47	599.18	0.18
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	63.26	-7.07	0.04	4.13	693.54	0.29
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	63.26	-6.11	-3.53	-348.45	599.06	0.11
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	63.26	-3.50	-6.06	-601.07	345.42	0.05
Dead+Wind 0 deg - Service	34.59	-0.01	-7.09	-639.87	0.99	-0.07
Dead+Wind 30 deg - Service	34.59	3.74	-6.51	-560.26	-320.37	-0.17
Dead+Wind 60 deg - Service	34.59	6.17	-3.52	-315.71	-555.17	-0.06
Dead+Wind 90 deg - Service	34.59	7.12	0.05	6.04	-640.94	0.07
Dead+Wind 120 deg - Service	34.59	6.17	3.59	323.60	-554.43	0.10
Dead+Wind 150 deg - Service	34.59	3.47	6.08	558.14	-317.21	0.30
Dead+Wind 180 deg - Service	34.59	0.02	7.13	644.17	-2.73	0.41
Dead+Wind 210 deg - Service	34.59	-3.73	6.55	564.68	318.87	0.36
Dead+Wind 240 deg - Service	34.59	-6.16	3.57	321.62	553.12	0.16
Dead+Wind 270 deg - Service	34.59	-7.12	0.04	5.22	640.31	0.25
Dead+Wind 300 deg - Service	34.59	-6.16	-3.56	-320.99	552.93	0.05
Dead+Wind 330 deg - Service	34.59	-3.48	-6.02	-552.50	318.02	-0.02

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-34.59	0.00	-0.00	34.59	0.00	0.000%
2	-0.05	-41.51	-35.33	0.05	41.51	35.33	0.001%
3	-0.05	-31.13	-35.33	0.05	31.13	35.33	0.001%
4	18.64	-41.51	-32.46	-18.64	41.51	32.46	0.000%
5	18.64	-31.13	-32.46	-18.64	31.13	32.46	0.000%
6	30.75	-41.51	-17.54	-30.75	41.51	17.54	0.000%
7	30.75	-31.13	-17.54	-30.75	31.13	17.54	0.000%
8	35.51	-41.51	0.26	-35.51	41.51	-0.26	0.000%
9	35.51	-31.13	0.26	-35.51	31.13	-0.26	0.000%
10	30.73	-41.51	17.89	-30.73	41.51	-17.89	0.000%
11	30.73	-31.13	17.89	-30.73	31.13	-17.89	0.000%
12	17.29	-41.51	30.28	-17.29	41.51	-30.28	0.000%
13	17.29	-31.13	30.28	-17.29	31.13	-30.28	0.000%
14	0.11	-41.51	35.54	-0.11	41.51	-35.54	0.000%
15	0.11	-31.13	35.54	-0.11	31.13	-35.54	0.000%
16	-18.59	-41.51	32.67	18.59	41.51	-32.67	0.000%
17	-18.59	-31.13	32.67	18.59	31.13	-32.67	0.000%
18	-30.68	-41.51	17.81	30.68	41.51	-17.81	0.000%
19	-30.68	-31.13	17.81	30.68	31.13	-17.81	0.000%
20	-35.50	-41.51	0.22	35.50	41.51	-0.22	0.001%
21	-35.50	-31.13	0.22	35.50	31.13	-0.22	0.001%
22	-30.68	-41.51	-17.75	30.68	41.51	17.75	0.000%
23	-30.68	-31.13	-17.75	30.68	31.13	17.75	0.000%
24	-17.33	-41.51	-30.03	17.33	41.51	30.03	0.000%
25	-17.33	-31.13	-30.03	17.33	31.13	30.03	0.000%
26	0.00	-63.26	0.00	0.00	63.26	-0.00	0.000%
27	-0.01	-63.26	-7.03	0.01	63.26	7.03	0.000%
28	3.64	-63.26	-6.34	-3.64	63.26	6.34	0.000%
29	6.12	-63.26	-3.49	-6.12	63.26	3.49	0.000%
30	7.07	-63.26	0.05	-7.07	63.26	-0.05	0.000%
31	6.12	-63.26	3.56	-6.12	63.26	-3.56	0.000%
32	3.49	-63.26	6.11	-3.49	63.26	-6.10	0.000%
33	0.02	-63.26	7.07	-0.02	63.26	-7.07	0.000%
34	-3.64	-63.26	6.38	3.64	63.26	-6.38	0.000%
35	-6.11	-63.26	3.54	6.11	63.26	-3.54	0.000%
36	-7.07	-63.26	0.04	7.07	63.26	-0.04	0.000%
37	-6.11	-63.26	-3.53	6.11	63.26	3.53	0.000%
38	-3.50	-63.26	-6.06	3.50	63.26	6.06	0.000%
39	-0.01	-34.59	-7.09	0.01	34.59	7.09	0.002%
40	3.74	-34.59	-6.51	-3.74	34.59	6.51	0.000%
41	6.17	-34.59	-3.52	-6.17	34.59	3.52	0.000%
42	7.12	-34.59	0.05	-7.12	34.59	-0.05	0.002%
43	6.17	-34.59	3.59	-6.17	34.59	-3.59	0.000%
44	3.47	-34.59	6.08	-3.47	34.59	-6.08	0.000%
45	0.02	-34.59	7.13	-0.02	34.59	-7.13	0.001%
46	-3.73	-34.59	6.55	3.73	34.59	-6.55	0.000%
47	-6.16	-34.59	3.57	6.16	34.59	-3.57	0.000%
48	-7.12	-34.59	0.04	7.12	34.59	-0.04	0.002%
49	-6.16	-34.59	-3.56	6.16	34.59	3.56	0.000%
50	-3.48	-34.59	-6.02	3.48	34.59	6.02	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	17	0.00000001	0.00014427
3	Yes	17	0.00000001	0.00010184
4	Yes	23	0.00000001	0.00007868
5	Yes	22	0.00000001	0.00012331
6	Yes	23	0.00000001	0.00007948
7	Yes	22	0.00000001	0.00012488
8	Yes	19	0.00000001	0.00008009
9	Yes	18	0.00000001	0.00012979
10	Yes	23	0.00000001	0.00008202
11	Yes	22	0.00000001	0.00012882
12	Yes	23	0.00000001	0.00008007
13	Yes	22	0.00000001	0.00012568
14	Yes	19	0.00000001	0.00008896
15	Yes	18	0.00000001	0.00014770
16	Yes	23	0.00000001	0.00008256
17	Yes	22	0.00000001	0.00012952
18	Yes	23	0.00000001	0.00007996
19	Yes	22	0.00000001	0.00012556
20	Yes	17	0.00000001	0.00012909
21	Yes	17	0.00000001	0.00008992
22	Yes	23	0.00000001	0.00008046
23	Yes	22	0.00000001	0.00012640
24	Yes	23	0.00000001	0.00008075
25	Yes	22	0.00000001	0.00012693
26	Yes	7	0.00000001	0.00004800
27	Yes	21	0.00000001	0.00007064
28	Yes	21	0.00000001	0.00008063
29	Yes	21	0.00000001	0.00008044
30	Yes	21	0.00000001	0.00007058
31	Yes	21	0.00000001	0.00008083
32	Yes	21	0.00000001	0.00008098
33	Yes	21	0.00000001	0.00007077
34	Yes	21	0.00000001	0.00008075
35	Yes	21	0.00000001	0.00008020
36	Yes	21	0.00000001	0.00007035
37	Yes	21	0.00000001	0.00008056
38	Yes	21	0.00000001	0.00008070
39	Yes	15	0.00000001	0.00008980
40	Yes	17	0.00000001	0.00012678
41	Yes	17	0.00000001	0.00013262
42	Yes	15	0.00000001	0.00009609
43	Yes	17	0.00000001	0.00013852
44	Yes	17	0.00000001	0.00012640
45	Yes	16	0.00000001	0.00007437
46	Yes	17	0.00000001	0.00014908
47	Yes	17	0.00000001	0.00012900
48	Yes	15	0.00000001	0.00011041
49	Yes	17	0.00000001	0.00013427
50	Yes	17	0.00000001	0.00013386

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	130 - 125	19.0430	44	1.2819	0.0055
L2	125 - 120.5	17.7020	44	1.2775	0.0055
L3	120.5 - 120	16.5045	44	1.2622	0.0047
L4	120 - 115	16.3724	44	1.2609	0.0047
L5	115 - 110	15.0641	44	1.2360	0.0039
L6	110 - 105	13.7884	44	1.1990	0.0032
L7	105 - 100	12.5580	44	1.1487	0.0027
L8	100 - 95	11.3871	44	1.0860	0.0023
L9	95 - 91.5	10.2874	44	1.0131	0.0019

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L10	91.5 - 91.25	9.5652	45	0.9571	0.0016
L11	91.25 - 86.25	9.5152	45	0.9550	0.0016
L12	86.25 - 81.25	8.5398	45	0.9085	0.0014
L13	81.25 - 77	7.6146	45	0.8591	0.0013
L14	80.75 - 75.75	7.5249	45	0.8540	0.0013
L15	75.75 - 70.75	6.6450	45	0.8227	0.0012
L16	70.75 - 65.75	5.8107	45	0.7711	0.0010
L17	65.75 - 63	5.0317	45	0.7169	0.0009
L18	63 - 62.73	4.6276	45	0.6867	0.0009
L19	62.73 - 62.58	4.5889	45	0.6845	0.0008
L20	62.58 - 61.5	4.5674	45	0.6833	0.0008
L21	61.5 - 61.25	4.4139	45	0.6746	0.0008
L22	61.25 - 56.25	4.3786	45	0.6718	0.0008
L23	56.25 - 51.25	3.7052	45	0.6145	0.0007
L24	51.25 - 46.25	3.0929	46	0.5564	0.0006
L25	46.25 - 37.75	2.5418	46	0.4972	0.0005
L26	42.25 - 36.75	2.1458	46	0.4491	0.0005
L27	36.75 - 32.25	1.6458	46	0.4160	0.0004
L28	32.25 - 32	1.2737	46	0.3739	0.0004
L29	32 - 31.83	1.2541	46	0.3722	0.0004
L30	31.83 - 31.48	1.2409	46	0.3710	0.0004
L31	31.48 - 31.25	1.2139	46	0.3670	0.0004
L32	31.25 - 26.25	1.1962	46	0.3644	0.0004
L33	26.25 - 21.25	0.8449	46	0.3066	0.0003
L34	21.25 - 16.25	0.5541	46	0.2488	0.0002
L35	16.25 - 11.25	0.3241	46	0.1905	0.0002
L36	11.25 - 6.25	0.1553	46	0.1318	0.0001
L37	6.25 - 1.25	0.0479	46	0.0734	0.0001
L38	1.25 - 0	0.0019	46	0.0145	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
128.0000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	44	18.5060	1.2815	0.0056	26008
124.0000	VHLP2-11	44	17.4348	1.2744	0.0054	21656
122.0000	TME-800MHZ RRH	44	16.9021	1.2671	0.0050	16688
118.0000	APXVTM14-C-120 w/ Mount Pipe	44	15.8461	1.2533	0.0044	11888
110.0000	(2) APL868013-42T0 w/ Mount Pipe	44	13.7884	1.1990	0.0032	6614
50.0000	OG-860/1920/GPS-A	46	2.9492	0.5421	0.0006	4794

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	130 - 125	95.4788	14	6.4373	0.0274
L2	125 - 120.5	88.7605	14	6.4153	0.0274
L3	120.5 - 120	82.7611	14	6.3386	0.0236
L4	120 - 115	82.0994	14	6.3320	0.0233
L5	115 - 110	75.5447	14	6.2065	0.0195
L6	110 - 105	69.1534	14	6.0205	0.0161
L7	105 - 100	62.9889	14	5.7680	0.0136
L8	100 - 95	57.1214	14	5.4524	0.0114
L9	95 - 91.5	51.6097	14	5.0862	0.0094
L10	91.5 - 91.25	47.9892	14	4.8051	0.0081
L11	91.25 - 86.25	47.7383	14	4.7942	0.0080
L12	86.25 - 81.25	42.8457	14	4.5610	0.0071
L13	81.25 - 77	38.2043	14	4.3129	0.0063
L14	80.75 - 75.75	37.7545	14	4.2870	0.0062
L15	75.75 - 70.75	33.3400	14	4.1300	0.0058

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L16	70.75 - 65.75	29.1544	14	3.8708	0.0051
L17	65.75 - 63	25.2462	14	3.5987	0.0045
L18	63 - 62.73	23.2186	14	3.4467	0.0042
L19	62.73 - 62.58	23.0241	14	3.4359	0.0042
L20	62.58 - 61.5	22.9163	14	3.4299	0.0042
L21	61.5 - 61.25	22.1459	14	3.3861	0.0041
L22	61.25 - 56.25	21.9691	14	3.3722	0.0041
L23	56.25 - 51.25	18.5900	14	3.0843	0.0036
L24	51.25 - 46.25	15.5148	16	2.7930	0.0031
L25	46.25 - 37.75	12.7506	16	2.4957	0.0026
L26	42.25 - 36.75	10.7638	16	2.2538	0.0023
L27	36.75 - 32.25	8.2555	16	2.0878	0.0021
L28	32.25 - 32	6.3886	16	1.8763	0.0018
L29	32 - 31.83	6.2906	16	1.8676	0.0018
L30	31.83 - 31.48	6.2242	16	1.8616	0.0018
L31	31.48 - 31.25	6.0886	16	1.8417	0.0018
L32	31.25 - 26.25	6.0002	16	1.8285	0.0018
L33	26.25 - 21.25	4.2379	16	1.5381	0.0014
L34	21.25 - 16.25	2.7792	16	1.2482	0.0011
L35	16.25 - 11.25	1.6254	16	0.9558	0.0008
L36	11.25 - 6.25	0.7789	16	0.6611	0.0006
L37	6.25 - 1.25	0.2402	16	0.3679	0.0003
L38	1.25 - 0	0.0096	16	0.0729	0.0001

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
128.0000	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	14	92.7884	6.4357	0.0278	5349
124.0000	VHLP2-11	14	87.4217	6.4001	0.0267	4453
122.0000	TME-800MHZ RRH	14	84.7530	6.3631	0.0248	3425
118.0000	APXVTM14-C-120 w/ Mount Pipe	14	79.4624	6.2935	0.0219	2424
110.0000	(2) APL868013-42T0 w/ Mount Pipe	14	69.1534	6.0205	0.0161	1344
50.0000	OG-860/1920/GPS-A	16	14.7941	2.7213	0.0030	959

Compression Checks Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K
L1	130 - 125 (1)	TP18x18x0.375	5.0000	0.0000	0.0	20.7640	-3.14
L2	125 - 120.5 (2)	TP18x18x0.375	4.5000	0.0000	0.0	20.7640	-3.99
L3	120.5 - 120 (3)	TP22x18x0.375	0.5000	0.0000	0.0	20.7640	-3.99
L4	120 - 115 (4)	TP22.9002x22x0.25	5.0000	0.0000	0.0	18.2334	-7.45
L5	115 - 110 (5)	TP23.8005x22.9002x0.25	5.0000	0.0000	0.0	18.9581	-7.91
L6	110 - 105 (6)	TP24.7007x23.8005x0.25	5.0000	0.0000	0.0	19.6828	-11.85
L7	105 - 100 (7)	TP25.6009x24.7007x0.25	5.0000	0.0000	0.0	20.4075	-12.43
L8	100 - 95 (8)	TP26.5012x25.6009x0.25	5.0000	0.0000	0.0	21.1322	-13.05
L9	95 - 91.5 (9)	TP27.1313x26.5012x0.25	3.5000	0.0000	0.0	21.6395	-13.50
L10	91.5 - 91.25 (10)	TP27.1763x27.1313x0.4875	0.2500	0.0000	0.0	41.8948	-13.56

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K
L11	91.25 - 86.25 (11)	TP28.0766x27.1763x0.475	5.0000	0.0000	0.0	42.2166	-14.51
L12	86.25 - 81.25 (12)	TP28.9768x28.0766x0.475	5.0000	0.0000	0.0	43.5935	-15.49
L13	81.25 - 77 (13)	TP29.742x28.9768x0.4688	4.2500	0.0000	0.0	43.1652	-15.59
L14	77 - 75.75 (14)	TP29.467x28.5668x0.5375	5.0000	0.0000	0.0	50.0697	-17.30
L15	75.75 - 70.75 (15)	TP30.3671x29.467x0.5255	5.0000	0.0000	0.0	50.4481	-18.44
L16	70.75 - 65.75 (16)	TP31.2672x30.3671x0.5125	5.0000	0.0000	0.0	50.7530	-19.62
L17	65.75 - 63 (17)	TP31.7623x31.2672x0.5125	2.7500	0.0000	0.0	51.5700	-20.26
L18	63 - 62.73 (18)	TP31.8109x31.7623x0.725	0.2700	0.0000	0.0	72.5701	-20.36
L19	62.73 - 62.58 (19)	TP31.8379x31.8109x0.725	0.1500	0.0000	0.0	72.6331	-20.40
L20	62.58 - 61.5 (20)	TP32.0324x31.8379x0.7125	1.0800	0.0000	0.0	71.8556	-20.72
L21	61.5 - 61.25 (21)	TP32.0774x32.0324x0.5125	0.2500	0.0000	0.0	52.0899	-20.79
L22	61.25 - 56.25 (22)	TP32.9775x32.0774x0.5	5.0000	0.0000	0.0	52.2888	-22.00
L23	56.25 - 51.25 (23)	TP33.8776x32.9775x0.5	5.0000	0.0000	0.0	53.7380	-23.26
L24	51.25 - 46.25 (24)	TP34.7778x33.8776x0.4938	5.0000	0.0000	0.0	54.5073	-24.63
L25	46.25 - 37.75 (25)	TP36.308x34.7778x0.4875	8.5000	0.0000	0.0	54.9575	-25.67
L26	37.75 - 36.75 (26)	TP35.8632x34.8729x0.675	5.5000	0.0000	0.0	76.4815	-28.59
L27	36.75 - 32.25 (27)	TP36.6734x35.8632x0.675	4.5000	0.0000	0.0	78.2425	-30.23
L28	32.25 - 32 (28)	TP36.7184x36.6734x0.925	0.2500	0.0000	0.0	106.6110	-30.36
L29	32 - 31.83 (29)	TP36.749x36.7184x0.925	0.1700	0.0000	0.0	106.7020	-30.44
L30	31.83 - 31.48 (30)	TP36.812x36.749x0.55	0.3500	0.0000	0.0	64.2200	-30.55
L31	31.48 - 31.25 (31)	TP36.8534x36.812x0.5438	0.2300	0.0000	0.0	63.5737	-30.63
L32	31.25 - 26.25 (32)	TP37.7537x36.8534x0.5375	5.0000	0.0000	0.0	64.4119	-32.28
L33	26.25 - 21.25 (33)	TP38.6539x37.7537x0.5375	5.0000	0.0000	0.0	65.9700	-33.96
L34	21.25 - 16.25 (34)	TP39.5542x38.6539x0.5313	5.0000	0.0000	0.0	66.7536	-35.69
L35	16.25 - 11.25 (35)	TP40.4544x39.5542x0.525	5.0000	0.0000	0.0	67.5007	-37.42
L36	11.25 - 6.25 (36)	TP41.3547x40.4544x0.525	5.0000	0.0000	0.0	69.0226	-39.21
L37	6.25 - 1.25 (37)	TP42.2549x41.3547x0.5188	5.0000	0.0000	0.0	69.7151	-41.03
L38	1.25 - 0 (38)	TP42.48x42.2549x0.5188	1.2500	0.0000	0.0	70.0910	-41.48

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft
L1	130 - 125 (1)	TP18x18x0.375	31.36
L2	125 - 120.5 (2)	TP18x18x0.375	66.87
L3	120.5 - 120 (3)	TP22x18x0.375	66.87
L4	120 - 115 (4)	TP22.9002x22x0.25	132.67
L5	115 - 110 (5)	TP23.8005x22.9002x0.25	200.15

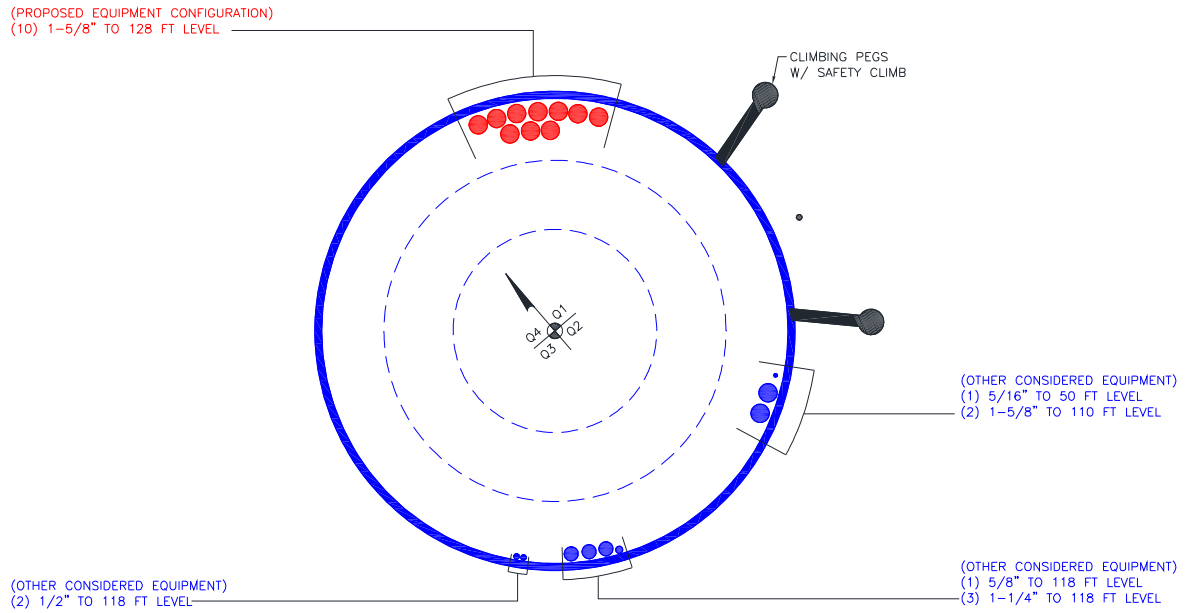
Section No.	Elevation ft	Size	M_{ux} kip-ft
L6	110 - 105 (6)	TP24.7007x23.8005x0.25	302.30
L7	105 - 100 (7)	TP25.6009x24.7007x0.25	403.33
L8	100 - 95 (8)	TP26.5012x25.6009x0.25	507.06
L9	95 - 91.5 (9)	TP27.1313x26.5012x0.25	581.36
L10	91.5 - 91.25 (10)	TP27.1763x27.1313x0.48 75	586.73
L11	91.25 - 86.25 (11)	TP28.0766x27.1763x0.47 5	696.02
L12	86.25 - 81.25 (12)	TP28.9768x28.0766x0.47 5	809.13
L13	81.25 - 77 (13)	TP29.742x28.9768x0.468 8	820.65
L14	77 - 75.75 (14)	TP29.467x28.5668x0.537 5	938.17
L15	75.75 - 70.75 (15)	TP30.3671x29.467x0.525	1059.60
L16	70.75 - 65.75 (16)	TP31.2672x30.3671x0.51 25	1184.73
L17	65.75 - 63 (17)	TP31.7623x31.2672x0.51 25	1255.36
L18	63 - 62.73 (18)	TP31.8109x31.7623x0.72 5	1262.38
L19	62.73 - 62.58 (19)	TP31.8379x31.8109x0.72 5	1266.29
L20	62.58 - 61.5 (20)	TP32.0324x31.8379x0.71 25	1294.58
L21	61.5 - 61.25 (21)	TP32.0774x32.0324x0.51 25	1301.17
L22	61.25 - 56.25 (22)	TP32.9775x32.0774x0.5	1435.51
L23	56.25 - 51.25 (23)	TP33.8776x32.9775x0.5	1574.08
L24	51.25 - 46.25 (24)	TP34.7778x33.8776x0.49 38	1716.11
L25	46.25 - 37.75 (25)	TP36.308x34.7778x0.487 5	1832.88
L26	37.75 - 36.75 (26)	TP35.8632x34.8729x0.67 5	1999.01
L27	36.75 - 32.25 (27)	TP36.6734x35.8632x0.67 5	2139.77
L28	32.25 - 32 (28)	TP36.7184x36.6734x0.92 5	2147.72
L29	32 - 31.83 (29)	TP36.749x36.7184x0.925	2153.13
L30	31.83 - 31.48 (30)	TP36.812x36.749x0.55	2164.28
L31	31.48 - 31.25 (31)	TP36.8534x36.812x0.543 8	2171.63
L32	31.25 - 26.25 (32)	TP37.7537x36.8534x0.53 75	2332.84
L33	26.25 - 21.25 (33)	TP38.6539x37.7537x0.53 75	2496.64
L34	21.25 - 16.25 (34)	TP39.5542x38.6539x0.53 13	2665.11
L35	16.25 - 11.25 (35)	TP40.4544x39.5542x0.52 5	2839.04
L36	11.25 - 6.25 (36)	TP41.3547x40.4544x0.52 5	3019.62
L37	6.25 - 1.25 (37)	TP42.2549x41.3547x0.51 88	3204.39
L38	1.25 - 0 (38)	TP42.48x42.2549x0.5188	3251.24

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	Actual T_u kip-ft
L1	130 - 125 (1)	TP18x18x0.375	7.09	0.01
L2	125 - 120.5 (2)	TP18x18x0.375	8.70	2.38
L3	120.5 - 120 (3)	TP22x18x0.375	8.74	2.38
L4	120 - 115 (4)	TP22.9002x22x0.25	13.22	2.38
L5	115 - 110 (5)	TP23.8005x22.9002x0.25	13.78	2.38
L6	110 - 105 (6)	TP24.7007x23.8005x0.25	19.94	1.56
L7	105 - 100 (7)	TP25.6009x24.7007x0.25	20.49	1.56
L8	100 - 95 (8)	TP26.5012x25.6009x0.25	21.03	1.55
L9	95 - 91.5 (9)	TP27.1313x26.5012x0.25	21.45	1.55
L10	91.5 - 91.25 (10)	TP27.1763x27.1313x0.48	21.49	1.55
L11	91.25 - 86.25 (11)	TP28.0766x27.1763x0.47	22.25	1.55
L12	86.25 - 81.25 (12)	TP28.9768x28.0766x0.47	23.01	1.55
L13	81.25 - 77 (13)	TP29.742x28.9768x0.468	23.08	1.55
L14	77 - 75.75 (14)	TP29.467x28.5668x0.537	23.92	1.55
L15	75.75 - 70.75 (15)	TP30.3671x29.467x0.525	24.67	1.55
L16	70.75 - 65.75 (16)	TP31.2672x30.3671x0.51	25.40	1.55
L17	65.75 - 63 (17)	TP31.7623x31.2672x0.51	25.99	1.55
L18	63 - 62.73 (18)	TP31.8109x31.7623x0.72	26.04	1.55
L19	62.73 - 62.58 (19)	TP31.8379x31.8109x0.72	26.09	1.55
L20	62.58 - 61.5 (20)	TP32.0324x31.8379x0.71	26.32	1.55
L21	61.5 - 61.25 (21)	TP32.0774x32.0324x0.51	26.38	1.55
L22	61.25 - 56.25 (22)	TP32.9775x32.0774x0.5	27.38	1.55
L23	56.25 - 51.25 (23)	TP33.8776x32.9775x0.5	28.07	1.55
L24	51.25 - 46.25 (24)	TP34.7778x33.8776x0.49	28.82	1.39
L25	46.25 - 37.75 (25)	TP36.308x34.7778x0.487	29.60	1.38
L26	37.75 - 36.75 (26)	TP35.8632x34.8729x0.67	30.82	1.38
L27	36.75 - 32.25 (27)	TP36.6734x35.8632x0.67	31.76	1.42
L28	32.25 - 32 (28)	TP36.7184x36.6734x0.92	31.81	1.42
L29	32 - 31.83 (29)	TP36.749x36.7184x0.925	31.85	1.43
L30	31.83 - 31.48 (30)	TP36.812x36.749x0.55	31.92	1.43
L31	31.48 - 31.25 (31)	TP36.8534x36.812x0.543	31.96	1.43
L32	31.25 - 26.25 (32)	TP37.7537x36.8534x0.53	32.55	1.43
L33	26.25 - 21.25 (33)	TP38.6539x37.7537x0.53	33.45	1.99
L34	21.25 - 16.25 (34)	TP39.5542x38.6539x0.53	33.98	1.99
L35	16.25 - 11.25 (35)	TP40.4544x39.5542x0.52	35.71	1.88
L36	11.25 - 6.25 (36)	TP41.3547x40.4544x0.52	36.56	1.84

Section No.	Elevation ft	Size	Actual V_u K	Actual T_u kip-ft
L37	6.25 - 1.25 (37)	TP42.2549x41.3547x0.5188	37.40	1.79
L38	1.25 - 0 (38)	TP42.48x42.2549x0.5188	37.61	1.78

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Site BU: 876322

Work Order:



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Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	130	9.5	0	0	18	18	0.375		A53-B-35
2	120.5	0.5	0	0	18.00	22	0.375		A53-B-35
3	120	43	3.75	12	22.00	29.742	0.25	Auto	A572-65
4	80.75	43	4.5	12	28.57	36.308	0.3125	Auto	A572-65
5	42.25	42.25	0	12	34.87	42.48	0.375	Auto	A572-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number													
						1	2	3	4	5	6	7	8	9	10	11	12	
1	0	32.25	plate	1-065125; (1) (1.1875)	3			o			o						o	
2	31.83	62.83	plate	1-060100; (1) (1.1875)	2		o										o	
3	37	63	plate	1-060100; (1) (1.1875)	1						o							
4	31.5	39.5	plate	1-065125; (1) (1.1875)	3	o				o				o				
5	61.5	91.5	plate	1-060100; (1) (1.1875)	3	o				o				o				
6																		
7																		
8																		
9																		
10																		

Reinforcement Details

	B (in)	H (in)	Gross Area (in ²)	Pole Face to Centroid (in)	Bottom Termination Length (in)	Top Termination Length (in)	L _u (in)	Net Area (in ²)	Bolt Hole Size (in)	Reinforcement Material
1	6.5	1.25	8.125	0.625	n/a	33.000	19.000	6.563	1.1875	A572-65
2	6	1	6	0.5	24.000	24.000	16.000	4.750	1.1875	A572-65
3	6	1	6	0.5	24.000	24.000	16.000	4.750	1.1875	A572-65
4	6.5	1.25	8.125	0.625	42.000	42.000	19.000	6.563	1.1875	A572-65
5	6	1	6	0.5	30.000	30.000	16.000	4.750	1.1875	A572-65

TNX Geometry Input

Increment (ft): 5

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	130 - 125	5		0	18.000	18.000	0.375	A53-B-35	1.000
2	125 - 120.5	4.5	0	0	18.000	18.000	0.375	A53-B-35	1.000
3	120.5 - 120	0.5	0	0	18.000	22.000	0.375	A53-B-35	1.000
4	120 - 115	5		12	22.000	22.900	0.25	A572-65	1.000
5	115 - 110	5		12	22.900	23.800	0.25	A572-65	1.000
6	110 - 105	5		12	23.800	24.701	0.25	A572-65	1.000
7	105 - 100	5		12	24.701	25.601	0.25	A572-65	1.000
8	100 - 95	5		12	25.601	26.501	0.25	A572-65	1.000
9	95 - 91.5	3.5		12	26.501	27.131	0.25	A572-65	1.000
10	91.5 - 91.25	0.25		12	27.131	27.176	0.4875	A572-65	0.948
11	91.25 - 86.25	5		12	27.176	28.077	0.475	A572-65	0.958
12	86.25 - 81.25	5		12	28.077	28.977	0.475	A572-65	0.944
13	81.25 - 80.75	4.25	3.75	12	28.977	29.742	0.46875	A572-65	0.955
14	80.75 - 75.75	5		12	28.567	29.467	0.5375	A572-65	0.946
15	75.75 - 70.75	5		12	29.467	30.367	0.525	A572-65	0.957
16	70.75 - 65.75	5		12	30.367	31.267	0.5125	A572-65	0.969
17	65.75 - 63	2.75		12	31.267	31.762	0.5125	A572-65	0.963
18	63 - 62.73	0.27		12	31.762	31.811	0.725	A572-65	0.934
19	62.73 - 62.58	0.15		12	31.811	31.838	0.725	A572-65	0.933
20	62.58 - 61.5	1.08		12	31.838	32.032	0.7125	A572-65	0.946
21	61.5 - 61.25	0.25		12	32.032	32.077	0.5125	A572-65	0.960
22	61.25 - 56.25	5		12	32.077	32.977	0.5	A572-65	0.973
23	56.25 - 51.25	5		12	32.977	33.878	0.5	A572-65	0.964
24	51.25 - 46.25	5		12	33.878	34.778	0.49375	A572-65	0.967
25	46.25 - 42.25	8.5	4.5	12	34.778	36.308	0.4875	A572-65	0.972
26	42.25 - 36.75	5.5		12	34.873	35.863	0.675	A572-65	1.037
27	36.75 - 32.25	4.5		12	35.863	36.673	0.675	A572-65	1.026
28	32.25 - 32	0.25		12	36.673	36.718	0.925	A572-65	0.982
29	32 - 31.83	0.17		12	36.718	36.749	0.925	A572-65	0.982
30	31.83 - 31.48	0.35		12	36.749	36.812	0.55	A572-65	1.065
31	31.48 - 31.25	0.23		12	36.812	36.853	0.54375	A572-65	1.077
32	31.25 - 26.25	5		12	36.853	37.754	0.5375	A572-65	1.080
33	26.25 - 21.25	5		12	37.754	38.654	0.5375	A572-65	1.071
34	21.25 - 16.25	5		12	38.654	39.554	0.53125	A572-65	1.074
35	16.25 - 11.25	5		12	39.554	40.454	0.525	A572-65	1.079
36	11.25 - 6.25	5		12	40.454	41.355	0.525	A572-65	1.071
37	6.25 - 1.25	5		12	41.355	42.255	0.51875	A572-65	1.076
38	1.25 - 0	1.25		12	42.255	42.480	0.51875	A572-65	1.074

TNX Section Forces

Increment (ft):		TNX Output			
	5	Section Height (ft)	P _u (K)	M _{ux} (kip-ft)	V _u (K)
1	130 - 125		3.14	31.36	7.09
2	125 - 120.5		3.99	66.87	8.70
3	120.5 - 120		4.04	71.23	8.74
4	120 - 115		7.45	132.67	13.22
5	115 - 110		7.91	200.15	13.78
6	110 - 105		11.85	302.30	19.94
7	105 - 100		12.43	403.33	20.49
8	100 - 95		13.05	507.06	21.03
9	95 - 91.5		13.50	581.36	21.45
10	91.5 - 91.25		13.56	586.73	21.49
11	91.25 - 86.25		14.51	696.02	22.25
12	86.25 - 81.25		15.49	809.13	23.01
13	81.25 - 80.75		15.59	820.65	23.08
14	80.75 - 75.75		17.30	938.18	23.92
15	75.75 - 70.75		18.44	1059.60	24.67
16	70.75 - 65.75		19.62	1184.73	25.40
17	65.75 - 63		20.26	1255.36	25.99
18	63 - 62.73		20.36	1262.38	26.04
19	62.73 - 62.58		20.40	1266.29	26.09
20	62.58 - 61.5		20.72	1294.58	26.32
21	61.5 - 61.25		20.79	1301.17	26.38
22	61.25 - 56.25		22.00	1435.51	27.38
23	56.25 - 51.25		23.26	1574.08	28.07
24	51.25 - 46.25		24.63	1716.11	28.82
25	46.25 - 42.25		25.67	1832.89	29.60
26	42.25 - 36.75		28.59	1999.01	30.82
27	36.75 - 32.25		30.23	2139.77	31.76
28	32.25 - 32		30.36	2147.71	31.81
29	32 - 31.83		30.44	2153.12	31.85
30	31.83 - 31.48		30.55	2164.28	31.92
31	31.48 - 31.25		30.63	2171.62	31.96
32	31.25 - 26.25		32.28	2332.84	32.55
33	26.25 - 21.25		33.97	2496.73	33.04
34	21.25 - 16.25		35.69	2665.11	33.98
35	16.25 - 11.25		37.42	2839.04	35.71
36	11.25 - 6.25		39.21	3019.61	36.56
37	6.25 - 1.25		41.03	3204.39	37.40
38	1.25 - 0		41.48	3251.24	37.61

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
130 - 125	Pole	TP18x18x0.375	Pole	10.3%	Pass
125 - 120.5	Pole	TP18x18x0.375	Pole	21.5%	Pass
120.5 - 120	Pole	TP22x18x0.375	Pole	15.3%	Pass
120 - 115	Pole	TP22.9x22x0.25	Pole	21.6%	Pass
115 - 110	Pole	TP23.8x22.9x0.25	Pole	30.3%	Pass
110 - 105	Pole	TP24.701x23.8x0.25	Pole	43.1%	Pass
105 - 100	Pole	TP25.601x24.701x0.25	Pole	54.0%	Pass
100 - 95	Pole	TP26.501x25.601x0.25	Pole	64.0%	Pass
95 - 91.5	Pole	TP27.131x26.501x0.25	Pole	70.6%	Pass
91.5 - 91.25	Pole + Reinf.	TP27.176x27.131x0.4875	Reinf. 5 Tension Rupture	52.6%	Pass
91.25 - 86.25	Pole + Reinf.	TP28.077x27.176x0.475	Reinf. 5 Tension Rupture	59.3%	Pass
86.25 - 81.25	Pole + Reinf.	TP28.977x28.077x0.475	Reinf. 5 Tension Rupture	65.7%	Pass
81.25 - 80.75	Pole + Reinf.	TP29.742x28.977x0.4688	Reinf. 5 Tension Rupture	66.3%	Pass
80.75 - 75.75	Pole + Reinf.	TP29.467x28.567x0.5375	Reinf. 5 Tension Rupture	65.4%	Pass
75.75 - 70.75	Pole + Reinf.	TP30.367x29.467x0.525	Reinf. 5 Tension Rupture	70.4%	Pass
70.75 - 65.75	Pole + Reinf.	TP31.267x30.367x0.5125	Reinf. 5 Tension Rupture	75.0%	Pass
65.75 - 63	Pole + Reinf.	TP31.762x31.267x0.5125	Reinf. 5 Tension Rupture	77.4%	Pass
63 - 62.73	Pole + Reinf.	TP31.811x31.762x0.725	Reinf. 2 Tension Rupture	56.4%	Pass
62.73 - 62.58	Pole + Reinf.	TP31.838x31.811x0.725	Reinf. 2 Tension Rupture	56.5%	Pass
62.58 - 61.5	Pole + Reinf.	TP32.032x31.838x0.7125	Reinf. 2 Tension Rupture	57.2%	Pass
61.5 - 61.25	Pole + Reinf.	TP32.077x32.032x0.5125	Reinf. 2 Tension Rupture	79.0%	Pass
61.25 - 56.25	Pole + Reinf.	TP32.977x32.077x0.5	Reinf. 2 Tension Rupture	83.3%	Pass
56.25 - 51.25	Pole + Reinf.	TP33.878x32.977x0.5	Reinf. 2 Tension Rupture	87.3%	Pass
51.25 - 46.25	Pole + Reinf.	TP34.778x33.878x0.4938	Reinf. 2 Tension Rupture	91.1%	Pass
46.25 - 42.25	Pole + Reinf.	TP36.308x34.778x0.4875	Reinf. 2 Tension Rupture	94.1%	Pass
42.25 - 36.75	Pole + Reinf.	TP35.863x34.873x0.675	Reinf. 4 Tension Rupture	75.7%	Pass
36.75 - 32.25	Pole + Reinf.	TP36.673x35.863x0.675	Reinf. 4 Tension Rupture	78.2%	Pass
32.25 - 32	Pole + Reinf.	TP36.718x36.673x0.925	Reinf. 1 Tension Rupture	57.2%	Pass
32 - 31.83	Pole + Reinf.	TP36.749x36.718x0.925	Reinf. 1 Tension Rupture	57.3%	Pass
31.83 - 31.48	Pole + Reinf.	TP36.812x36.749x0.55	Reinf. 1 Tension Rupture	84.8%	Pass
31.48 - 31.25	Pole + Reinf.	TP36.853x36.812x0.5438	Reinf. 1 Tension Rupture	84.9%	Pass
31.25 - 26.25	Pole + Reinf.	TP37.754x36.853x0.5375	Reinf. 1 Tension Rupture	87.6%	Pass
26.25 - 21.25	Pole + Reinf.	TP38.654x37.754x0.5375	Reinf. 1 Tension Rupture	90.1%	Pass
21.25 - 16.25	Pole + Reinf.	TP39.554x38.654x0.5313	Reinf. 1 Tension Rupture	92.5%	Pass
16.25 - 11.25	Pole + Reinf.	TP40.454x39.554x0.525	Reinf. 1 Tension Rupture	94.8%	Pass
11.25 - 6.25	Pole + Reinf.	TP41.355x40.454x0.525	Reinf. 1 Tension Rupture	97.1%	Pass
6.25 - 1.25	Pole + Reinf.	TP42.255x41.355x0.5188	Reinf. 1 Tension Rupture	99.3%	Pass
1.25 - 0	Pole + Reinf.	TP42.48x42.255x0.5188	Reinf. 1 Tension Rupture	99.9%	Pass
				Summary	
			Pole	83.1%	Pass
			Reinforcement	99.9%	Pass
			Overall	99.9%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in ⁴)			Area (in ²)			% Capacity*					
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5
130 - 125	807	n/a	807	20.76	n/a	20.76	10.3%					
125 - 120.5	807	n/a	807	20.76	n/a	20.76	21.5%					
120.5 - 120	1490	n/a	1490	25.48	n/a	25.48	15.3%					
120 - 115	1196	n/a	1196	18.21	n/a	18.21	21.6%					
115 - 110	1344	n/a	1344	18.93	n/a	18.93	30.3%					
110 - 105	1504	n/a	1504	19.65	n/a	19.65	43.1%					
105 - 100	1676	n/a	1676	20.38	n/a	20.38	54.0%					
100 - 95	1861	n/a	1861	21.10	n/a	21.10	64.0%					
95 - 91.5	1999	n/a	1999	21.61	n/a	21.61	70.6%					
91.5 - 91.25	2009	1814	3823	21.64	18.00	39.64	36.2%					52.6%
91.25 - 86.25	2217	1930	4147	22.37	18.00	40.37	41.4%					59.3%
86.25 - 81.25	2439	2050	4489	23.09	18.00	41.09	46.5%					65.7%
81.25 - 80.75	2462	2062	4524	23.16	18.00	41.16	47.0%					66.3%
80.75 - 75.75	3187	2116	5303	29.29	18.00	47.29	42.7%					65.4%
75.75 - 70.75	3492	2242	5733	30.20	18.00	48.20	46.4%					70.4%
70.75 - 65.75	3815	2370	6185	31.10	18.00	49.10	50.1%					75.0%
65.75 - 63	4001	2443	6444	31.60	18.00	49.60	52.0%					77.4%
63 - 62.73	4019	4900	8919	31.65	36.00	67.65	37.9%		56.4%	56.4%		56.4%
62.73 - 62.58	4030	4908	8938	31.68	36.00	67.68	38.0%		56.5%	56.5%		56.5%
62.58 - 61.5	4105	4966	9070	31.87	36.00	67.87	38.6%		57.2%	57.2%		57.2%
61.5 - 61.25	4122	2490	6612	31.92	18.00	49.92	53.3%		79.0%	79.0%		
61.25 - 56.25	4483	2625	7108	32.82	18.00	50.82	56.8%		83.3%	83.3%		
56.25 - 51.25	4863	2765	7628	33.73	18.00	51.73	60.3%		87.3%	87.3%		
51.25 - 46.25	5265	2908	8173	34.63	18.00	52.63	63.7%		91.1%	91.1%		
46.25 - 42.25	5602	3025	8627	35.35	18.00	53.35	66.4%		94.1%	94.1%		
42.25 - 36.75	6972	5314	12285	42.79	36.38	79.17	52.9%		63.2%		75.7%	
36.75 - 32.25	7458	5548	13006	43.77	36.38	80.14	55.1%		65.4%		78.2%	
32.25 - 32	7452	10136	17588	43.82	60.75	104.57	40.3%	57.2%	53.5%		54.9%	
32 - 31.83	7471	10152	17623	43.86	60.75	104.61	40.4%	57.3%	53.5%		54.9%	
31.83 - 31.48	7516	3215	10731	43.93	24.38	68.31	66.9%	84.8%				
31.48 - 31.25	7541	3222	10764	43.98	24.38	68.36	67.0%	84.9%				
31.25 - 26.25	8112	3375	11487	45.07	24.38	69.45	69.7%	87.6%				
26.25 - 21.25	8710	3532	12242	46.16	24.38	70.53	72.3%	90.1%				
21.25 - 16.25	9337	3693	13030	47.24	24.38	71.62	74.8%	92.5%				
16.25 - 11.25	9994	3857	13851	48.33	24.38	72.70	77.3%	94.8%				
11.25 - 6.25	10681	4024	14705	49.41	24.38	73.79	79.9%	97.1%				
6.25 - 1.25	11398	4196	15594	50.50	24.38	74.87	82.4%	99.3%				
1.25 - 0	11583	4239	15822	50.77	24.38	75.14	83.1%	99.9%				

Note: Section capacity checked in 5 degree increments.
Rating per TIA-222-H Section 15.5.

Monopole Flange Plate Connection

Elevation = 120 ft.

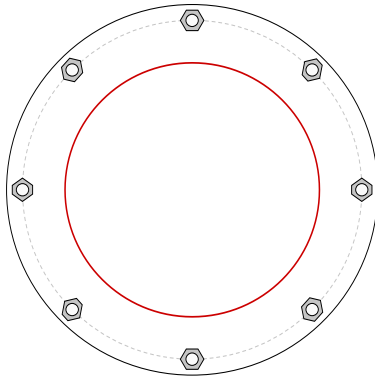


BU #	876322
Site Name	Tartaglia Property
Order #	
TIA-222 Revision	H

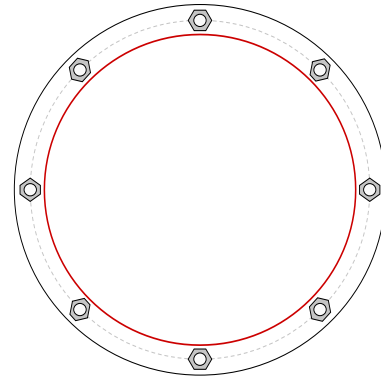
Applied Loads	
Moment (kip-ft)	71.23
Axial Force (kips)	4.04
Shear Force (kips)	8.74

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(8) 7/8" ϕ bolts (A325 X; Fy=92 ksi, Fu=120 ksi) on 24" BC

Top Plate Data

26.25" OD x 1.25" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Top Stiffener Data

N/A

Top Pole Data

18" x 0.375" round pole (A53-B-35; Fy=35 ksi, Fu=60 ksi)

Bottom Plate Data

26.25" OD x 1.25" Plate (A572-50; Fy=50 ksi, Fu=65 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

22" x 0.25" 12-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	17.29
Allowable (kips)	41.56
Stress Rating:	39.6% Pass

Top Plate Capacity

Max Stress (ksi):	11.41	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	24.1%	Pass
Tension Side Stress Rating:	14.0%	Pass

Bottom Plate Capacity

Max Stress (ksi):	4.88	(Flexural)
Allowable Stress (ksi):	45.00	
Stress Rating:	10.3%	Pass
Tension Side Stress Rating:	4.6%	Pass

Monopole Base Plate Connection

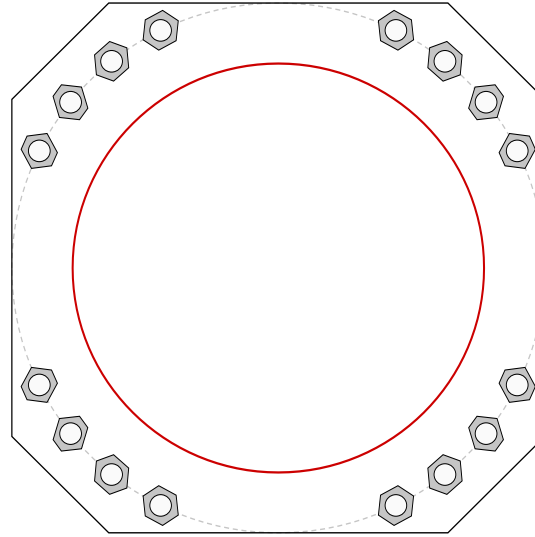


Site Info	
BU #	876322
Site Name	Tartaglia Property
Order #	

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.25

Applied Loads	
Moment (kip-ft)	3251.24
Axial Force (kips)	41.48
Shear Force (kips)	37.61

*TIA-222-H Section 15.5 Applied



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

Anchor Rod Data
 (16) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 55" BC
 Anchor Spacing: 6 in

Base Plate Data
 55" OD x 3.5" Plate (A572-50; $F_y=50$ ksi, $F_u=65$ ksi)

Stiffener Data
 N/A

Pole Data
 42.48" x 0.375" 12-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

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

$Pu_c = 179.81$	$\phi Pn_c = 243.75$	Stress Rating
$Vu = 2.35$	$\phi Vn = 73.13$	70.4%
$Mu = n/a$	$\phi Mn = n/a$	Pass

Base Plate Summary

Max Stress (ksi):	35.27	(Flexural)
Allowable Stress (ksi):	45	
Stress Rating:	74.6%	Pass

Drilled Pier Foundation

BU # :	876322
Site Name:	Tartaglia Property
Order Number:	

TIA-222 Revison:	H
Tower Type:	Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	3251.24	
Axial Force (kips)	41.48	
Shear Force (kips)	37.61	

Material Properties		
Concrete Strength, f _c :	3	ksi
Rebar Strength, F _y :	60	ksi

Pier Design Data		
Depth	24	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
<i>From 0.5' above grade to 24' below grade</i>		
Pier Diameter	7	ft
Rebar Quantity	32	
Rebar Size	11	
Clear Cover to Ties	4	in
Tie Size	5	

Analysis Results		
Soil Lateral Capacity	Compression	Uplift
D _{v=0} (ft from TOC)	7.50	-
Soil Safety Factor	2.91	-
Max Moment (kip-ft)	3502.19	-
Rating*	43.5%	-

Soil Vertical Capacity	Compression	Uplift
Skin Friction (kips)	435.78	-
End Bearing (kips)	230.91	-
Weight of Concrete (kips)	129.37	-
Total Capacity (kips)	666.68	-
Axial (kips)	170.85	-
Rating*	24.4%	-

Reinforced Concrete Capacity	Compression	Uplift
Critical Depth (ft from TOC)	7.46	-
Critical Moment (kip-ft)	3502.18	-
Critical Moment Capacity	7509.37	-
Rating*	44.4%	-

Soil Interaction Rating*	43.5%
Structural Foundation Rating*	44.4%

*Rating per TIA-222-H Section 15.5

Check Limitation	
Apply TIA-222-H Section 15.5:	
	N/A

Soil Profile			
Groundwater Depth	10	ft	# of Layers
			4

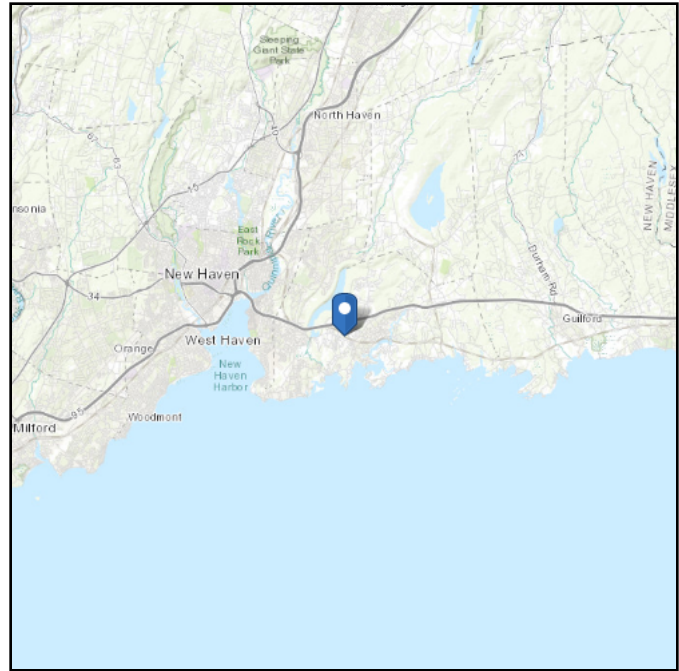
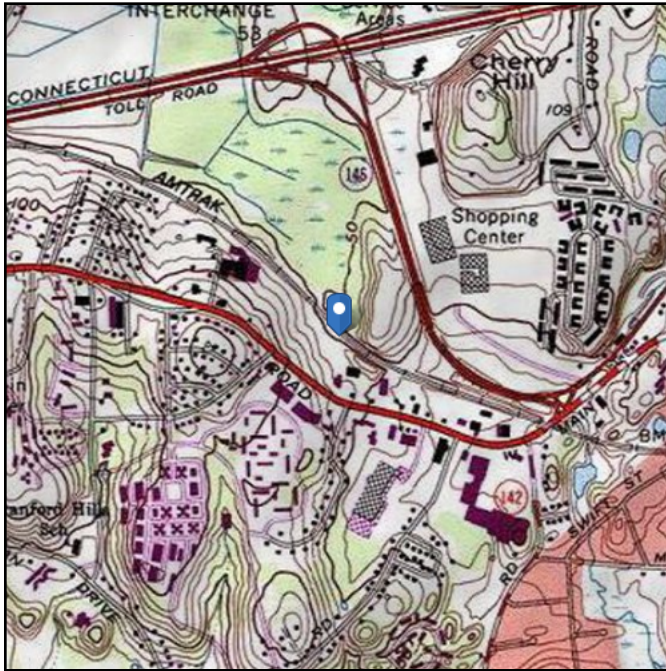
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	γ _{soil} (pcf)	γ _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	5	5	120	150	0	0	0.000	0.000					Cohesionless
2	5	10	5	120	150		35	1.017	1.017				23	Cohesionless
3	10	20	10	60	87.6		40	1.466	1.466				67	Cohesionless
4	20	24	4	63	87.6		43	1.669	1.669			8	46	Cohesionless

ASCE 7 Hazards Report

Address:
No Address at This
Location

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

Elevation: 49.82 ft (NAVD 88)
Latitude: 41.27783
Longitude: -72.83686



Wind

Results:

Wind Speed:	127 Vmph
10-year MRI	78 Vmph
25-year MRI	88 Vmph
50-year MRI	95 Vmph
100-year MRI	103 Vmph

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

Date Accessed: Thu May 02 2019

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

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

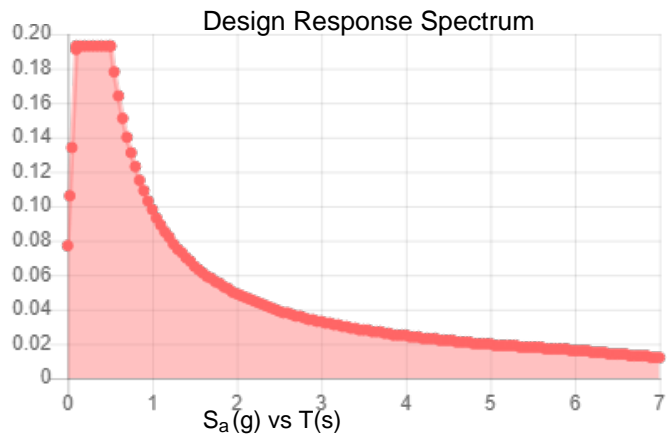
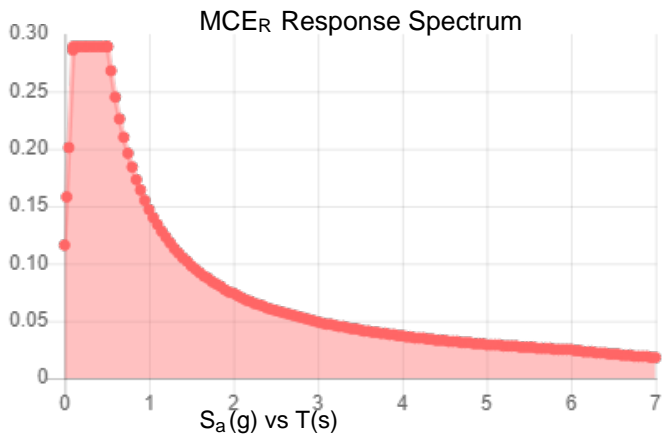
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.181	S_{DS} :	0.193
S_1 :	0.061	S_{D1} :	0.098
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.094
S_{MS} :	0.289	PGA _M :	0.15
S_{M1} :	0.147	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Thu May 02 2019

Date Source:

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

Ice

Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

Date Accessed: Thu May 02 2019

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

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

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

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

Exhibit E

Mount Analysis



Date: **April 29, 2019**

Charles McGuirt
Crown Castle
3530 Toringdon Way, Suite 300
Charlotte, NC 28277
(704) 406-6607

Subject: **Mount Analysis Report**

Carrier Designation: **T-Mobile Equipment Change-Out**
Carrier Site Number: CTNH101A
Carrier Site Name: NH101/GlobalSignal/Bran

Crown Castle Designation: **Crown Castle BU Number:** 876322
Crown Castle Site Name: TARTAGLIA PROPERTY
Crown Castle JDE Job Number: 559324
Crown Castle Order Number: 479851 Rev. 1

Engineering Firm Designation: **ETS, PLLC Report Designation:** 192562.14

Site Data: **850 West Main Street, Branford, New Haven County, CT 06405**
Latitude: 41° 16' 40.19" Longitude: -72° 50' 12.70"

Structure Information: **Tower Height & Type:** 130.0 ft Monopole
Mount Elevation: 128.0 ft
Mount Type: 12.5 ft Platform Mount

Dear Charles McGuirt,

Engineered Tower Solutions, PLLC is pleased to submit this "**Mount Analysis Report**" to determine the structural integrity of T-Mobile's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

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

Platform Mount	Sufficient*
*Sufficient upon completion of the changes listed in the "Recommendations" section of this report	

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

Mount structural analysis prepared by: Bach S. Tran, EI

Respectfully Submitted by:

Frederic G. Bost, PE, CWI, GC
President/Owner
(919) 332-4618
Geoff.Bost@ets-pllc.com

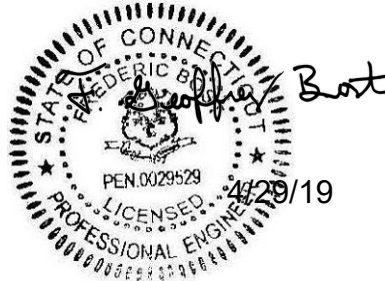


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Additional Calculations

1) INTRODUCTION

This mount is an existing 12.5 ft Platform mount mapped by Pier Structural Engineering Corp. This mount is installed at the 128.0 ft elevation of the 130.0 ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2015 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	130 mph
Exposure Category:	C
Topographic Factor at Base:	1.00
Topographic Factor at Mount:	1.00
Ice Thickness:	1.50 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.180
Seismic S₁:	0.061
Service Wind Speed:	30 mph
Man Live Load at Mid/End-Point:	250 lb
Man Live Load At Mount Pipes:	500 lb

Table 1 – Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details
128.0	130.0	3	Ericsson	AIR -32 B2A/B66AA	12.5 ft Platform Mount w/ Proposed Handrail
		3	Ericsson	AIR 21 B2A B4P	
		3	RFS/Celwave	APXVAARR24_43-U-NA20	
		3	Ericsson	KRY 112 144/1	
		3	Ericsson	RADIO 4449 B12/B71	

3) ANALYSIS PROCEDURE

Table 2 – Documents Provided

Document	Remarks	Reference	Source
Carrier Application	T-Mobile	04/18/2019	CCI Sites
Structural Level Drawings (Proposed)	T-Mobile Northeast LLC	04/23/2019	CCI Sites
4-Structural Analysis Report	Morrison Hershfield	7893330	CCI Sites
4-Mount Mapping Report	Pier Structural Engineering Corp	04/16/2019	CCI Sites

3.1) Analysis Method

RISA-3D (version 17.0.2), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases.

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

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

3.2) Assumptions

- 1) The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design and manufacturer's specification.
- 2) The configuration of antennas, mounts and other appurtenances are as specified in Table 1 and the referenced drawings.
- 3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 4) This Structural Analysis is not a condition assessment of the mount and is an evaluation of the theoretical structural capacity.
- 5) This analysis is based from the information supplied, and therefore, this report's results are as accurate as the supplied data.
- 6) Engineered Tower Solutions, PLLC makes no warranties, expressed and/or implied, in connection with this report, and disclaims any liability associated with material, fabrication, or erection of the mount. Engineered Tower Solutions, PLLC will not be held responsible from any consequential or incidental damages sustained by any person, firm, or organization as a result of the contents of this report. The maximum liability of Engineered Tower Solutions, PLLC pursuant to this report will be limited to the total fee received for compilation of this report.
- 7) It is the tower owner's responsibility to verify that the mount modeled and analyzed is the correct structure modeled.
- 8) The use of this report shall be limited to the purpose for which it was commissioned and may not be used for any other purposes without the written consent of Engineered Tower Solutions, PLLC.
- 9) Steel grades have been assumed as follows:

a) Channel, Solid Round, Angle, Plate	ASTM A36 (Gr 36)
b) HSS (Rectangular)	ASTM A500 (Gr B-46)
c) HSS (Round)	ASTM A500 (Gr B-42)
d) Pipe	ASTM A53 (Gr 35)
e) Connection Bolts	ASTM A325
f) U-Bolts	SAE 429 Gr.2

This analysis may be affected if any assumptions are not valid or have been made in error. Engineered Tower Solutions, PLLC should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 3 – Mount Component Stresses vs. Capacity (Platform Mount)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass/Fail
1	Face Mount – Horizontal	FM2	128.0	47.5	PASS
1	Handrail – Horizontal	HR2		42.7	PASS
1	Mount Pipe – Vertical	MP7		58.0	PASS
1	Sidearm – Horizontal	SA3		40.1	PASS
1	Brace – Horizontal	BRACE3		31.2	PASS
2	Mount to Tower Connection	-		74.6	PASS

Notes:

- 1) See additional documentation in “Appendix C – Software Analysis Output” for calculations supporting the % capacity consumed.
- 2) See additional documentation in “Appendix D – Additional Calculations” for calculations supporting the % capacity consumed.

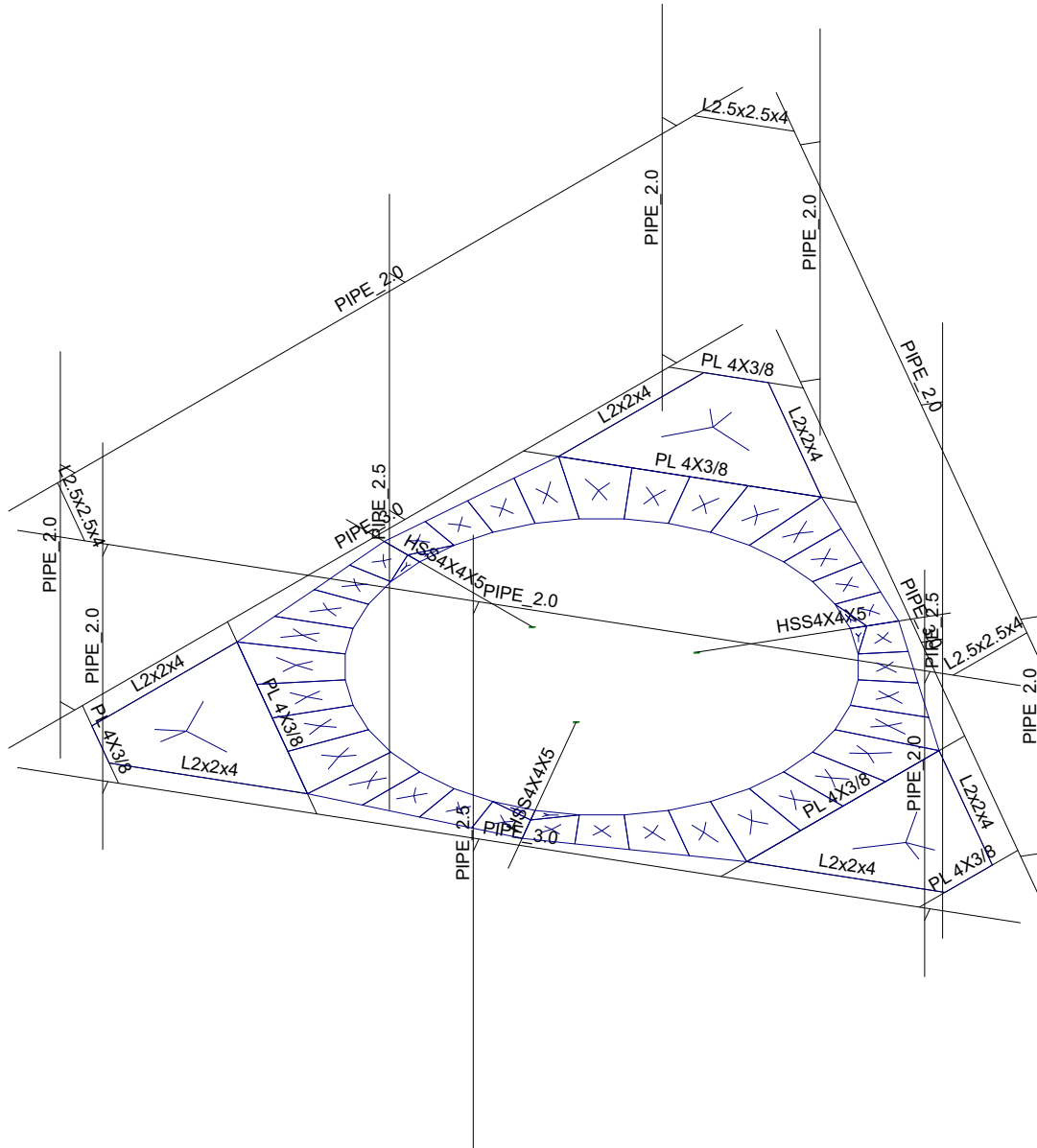
Tower Mount Rating (max from all components) =	74.6%
---	--------------

4.1) Recommendations

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

1. Install Handrail kit 42” +/- above main face mount member, Site Pro 1 part No. HRK12

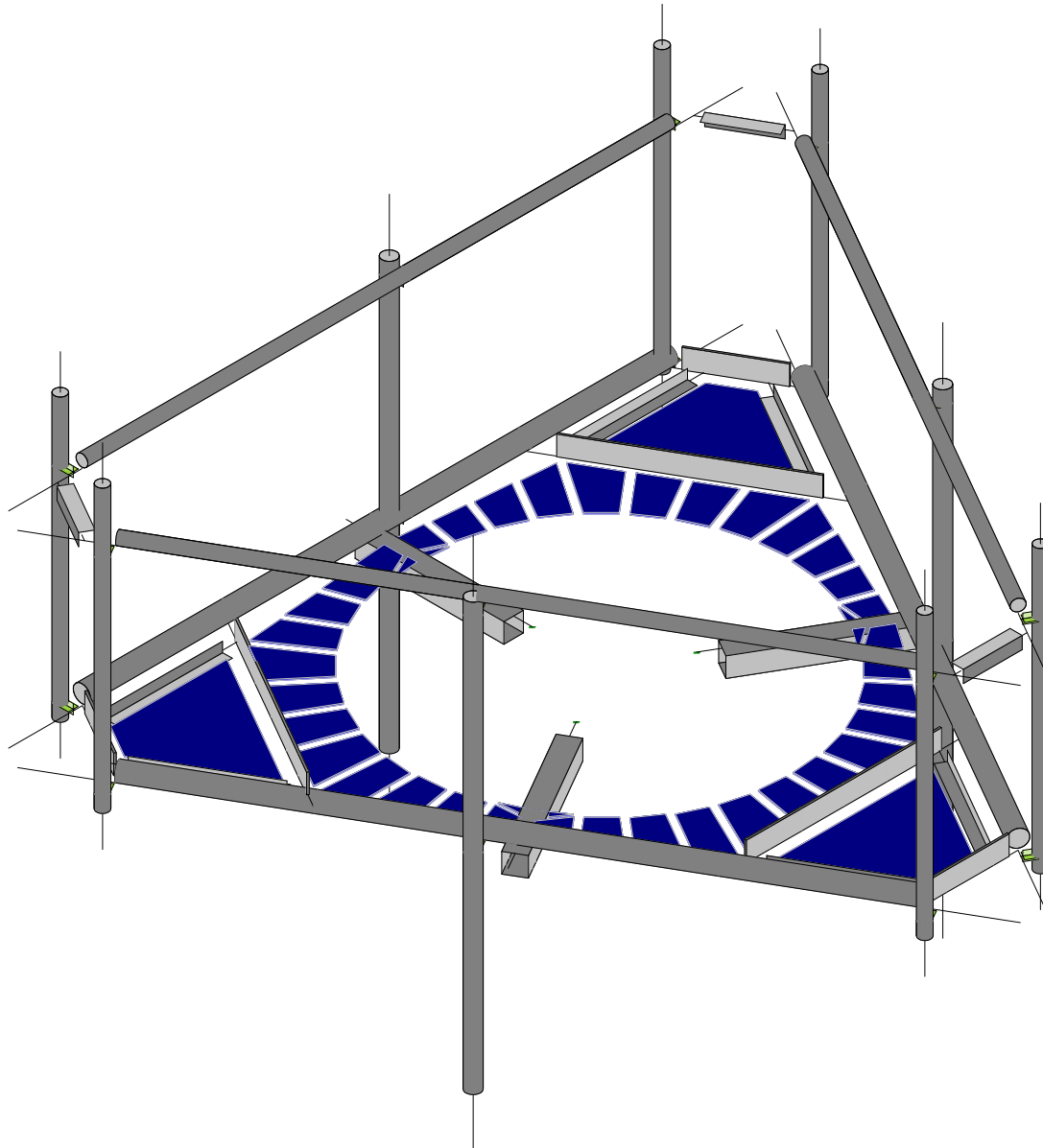
APPENDIX A
WIRE FRAME AND RENDERED MODELS



ETS
TSB
ETS JOB NO. 192562.14

876322 - TARTAGLIA PROPERTY_Mount Analysis

SK - 1
Apr 29, 2019 at 9:07 AM
876322 - TARTAGLIA PROPERTY...



ETS

TSB

ETS JOB NO. 192562.14

876322 - TARTAGLIA PROPERTY_Mount Analysis

SK - 2

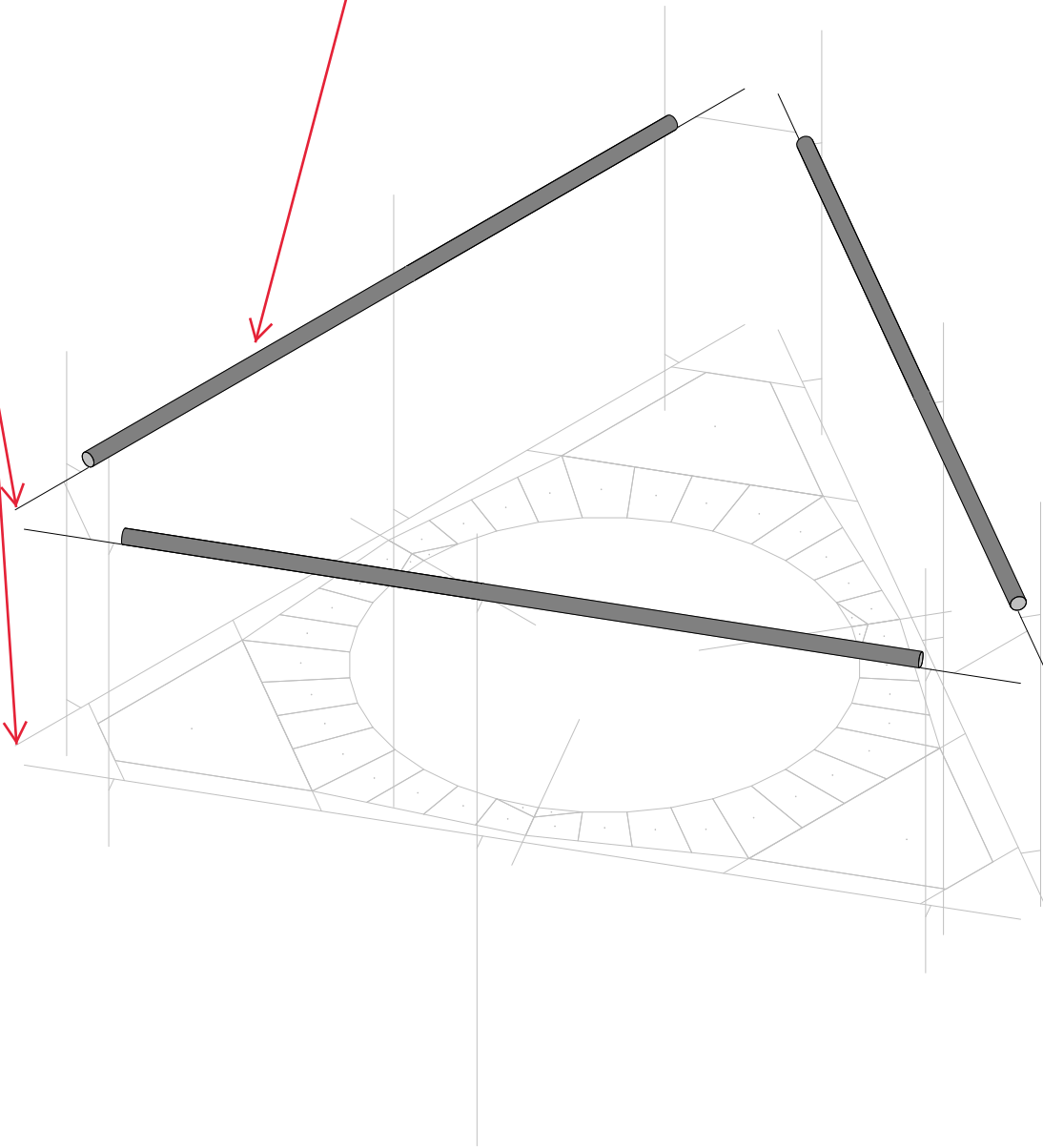
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876322 - TARTAGLIA PROPERTY...



Site Pro 1
HRK12

42" +/-



ETS

TSB

ETS JOB NO. 192562.14

876322 - TARTAGLIA PROPERTY_Mount Analysis

SK - 3

Apr 29, 2019 at 9:07 AM

876322 - TARTAGLIA PROPERTY...

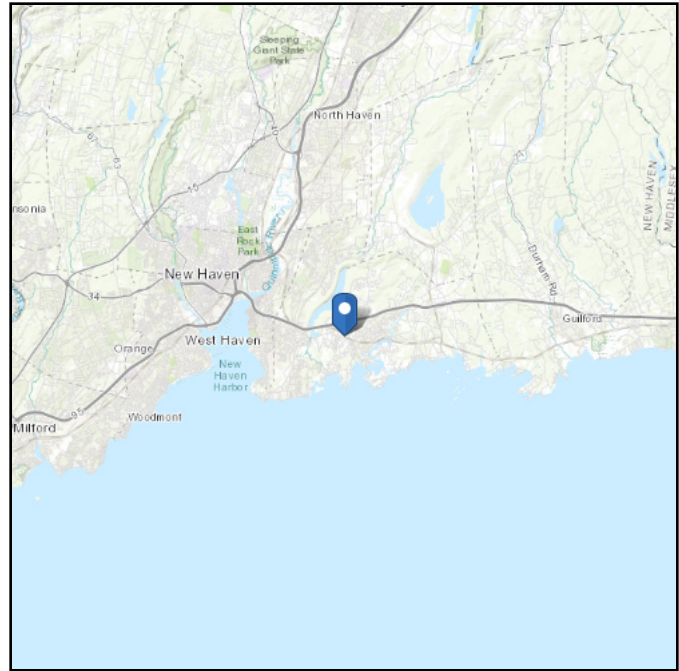
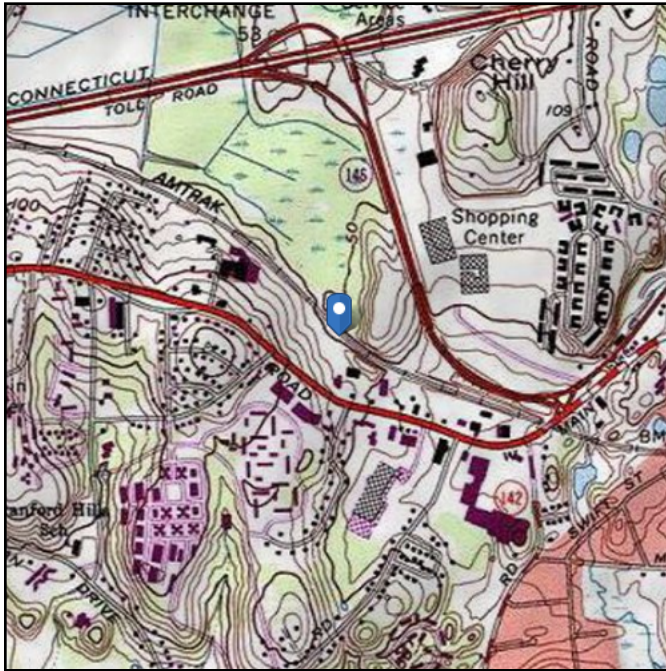
APPENDIX B
SOFTWARE INPUT CALCULATIONS

ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 49.82 ft (NAVD 88)
Latitude: 41.277831
Longitude: -72.836861



Wind

Results:

Wind Speed:	- Vmph
10-year MRI	78 Vmph
25-year MRI	88 Vmph
50-year MRI	95 Vmph
100-year MRI	103 Vmph

Branford City : 130 mph - Vmph

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

Date Accessed: Sun Apr 28 2019

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

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

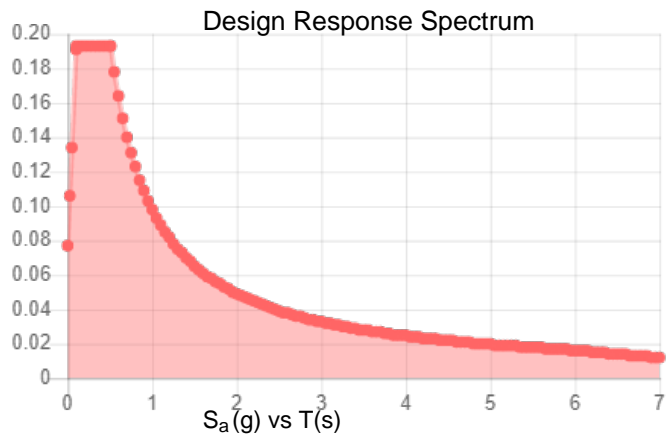
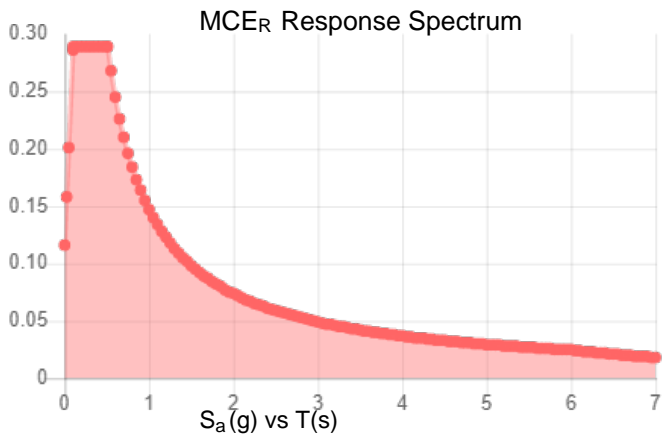
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.180	S_{DS} :	0.193
S_1 :	0.061	S_{D1} :	0.098
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.094
S_{MS} :	0.289	PGA _M :	0.15
S_{M1} :	0.147	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Sun Apr 28 2019

Date Source:

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

Ice

Results:

Ice Thickness: 0.75 in.

Concurrent Temperature: 15 F

Gust Speed: 50 mph

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

Date Accessed: Sun Apr 28 2019

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

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

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APPENDIX C
SOFTWARE ANALYSIS OUTPUT

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	BRACE2	N36	N35			PL 4X3/8	Beam	RECT	A36 Gr.36	Typical
2	BRACE3	N22	N23			PL 4X3/8	Beam	RECT	A36 Gr.36	Typical
3	BRACE1	N9	N10			PL 4X3/8	Beam	RECT	A36 Gr.36	Typical
4	CORNER-PL2	N33	N34			PL 4X3/8	Beam	RECT	A36 Gr.36	Typical
5	CORNER-PL3	N20	N21			PL 4X3/8	Beam	RECT	A36 Gr.36	Typical
6	CORNER-PL1	N7	N8			PL 4X3/8	Beam	RECT	A36 Gr.36	Typical
7	FM1	N1	N2			PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical
8	FM2	N3	N4			PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical
9	FM3	N5	N6			PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical
10	GRATE1	N41	N42		270	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
11	GRATE4	N30	N31			L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
12	GRATE2	N28	N29		270	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
13	GRATE5	N17	N18			L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
14	GRATE3	N15	N16		270	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
15	GRATE6	N43	N44			L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
16	M38	N126	N129			RIGID	None	None	RIGID	Typical
17	M40	N127	N130			RIGID	None	None	RIGID	Typical
18	MP1	N136	N133			PIPE 2.0	Column	Pipe	A53 Gr.B	Typical
19	MP3	N137	N134			PIPE 2.0	Column	Pipe	A53 Gr.B	Typical
20	M25	N124	N125			RIGID	None	None	RIGID	Typical
21	MP2	N127A	N126A			PIPE 2.5	Column	Pipe	A53 Gr.B	Typical
22	SA1	N126B	N125A			HSS4X4X5	Beam	Tube	A500 Gr.B...	Typical
23	M25B	N127B	N129A			RIGID	None	None	RIGID	Typical
24	M26	N128	N130A			RIGID	None	None	RIGID	Typical
25	MP7	N134A	N132			PIPE 2.0	Column	Pipe	A53 Gr.B	Typical
26	MP9	N135	N133A			PIPE 2.0	Column	Pipe	A53 Gr.B	Typical
27	M29	N136A	N137A			RIGID	None	None	RIGID	Typical
28	MP8	N139	N138			PIPE 2.5	Column	Pipe	A53 Gr.B	Typical
29	SA3	N141	N140			HSS4X4X5	Beam	Tube	A500 Gr.B...	Typical
30	M32	N142	N144			RIGID	None	None	RIGID	Typical
31	M33	N143	N145			RIGID	None	None	RIGID	Typical
32	MP4	N149	N147			PIPE 2.0	Column	Pipe	A53 Gr.B	Typical
33	MP6	N150	N148			PIPE 2.0	Column	Pipe	A53 Gr.B	Typical
34	M36	N151	N152			RIGID	None	None	RIGID	Typical
35	MP5	N154	N153			PIPE 2.5	Column	Pipe	A53 Gr.B	Typical
36	SA2	N156	N155			HSS4X4X5	Beam	Tube	A500 Gr.B...	Typical
37	HR1	N155A	N156A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
38	HR2	N157	N158			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
39	HR3	N159	N160			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
40	M40A	N161A	N163			RIGID	None	None	RIGID	Typical
41	M41	N162	N164			RIGID	None	None	RIGID	Typical
42	M42	N165	N166			RIGID	None	None	RIGID	Typical
43	M43	N167	N169			RIGID	None	None	RIGID	Typical
44	M44	N168	N170			RIGID	None	None	RIGID	Typical
45	M45	N171	N172			RIGID	None	None	RIGID	Typical
46	M46	N173	N175			RIGID	None	None	RIGID	Typical
47	M47	N174	N176			RIGID	None	None	RIGID	Typical
48	M48	N177	N178			RIGID	None	None	RIGID	Typical
49	CORN2	N176A	N174A		90	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
50	CORN3	N177A	N175A		90	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical
51	CORN1	N178A	N179		90	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		18	54.4	0
3	Total General		18	54.4	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x2.5x4	3	45.1	0
7	A36 Gr.36	L2x2x4	6	178	0
8	A36 Gr.36	PL 4X3/8	6	209.7	0
9	A500 Gr.B Rect	HSS4X4X5	3	114	.1
10	A53 Gr.B	PIPE 2.0	9	882	.3
11	A53 Gr.B	PIPE 2.5	3	327	.1
12	A53 Gr.B	PIPE 3.0	3	450	.3
13	Total HR Steel		33	2205.9	1
14					
15	Plate Elements	Thickness (in)		Volume (yds^3)	
16	gen_Steel	.3	42	0	.2
17	GRATE	.1	3	0	0
18	Total Plates		45	0	.3

Member Point Loads (BLC 1 : Dead Load)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP1	Y	-177.5	%47
2	MP2	Y	-132.2	%71
3	MP3	Y	-128	%47
4	MP4	Y	-177.5	%47
5	MP5	Y	-132.2	%71
6	MP6	Y	-128	%47
7	MP7	Y	-177.5	%47
8	MP8	Y	-132.2	%71
9	MP9	Y	-128	%47

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP1	X	94.2	%47
2	MP2	X	51.5	%71
3	MP3	X	0	%47
4	MP4	X	125.5	%47
5	MP5	X	109.3	%71
6	MP6	X	52.8	%47
7	MP7	X	125.5	%47
8	MP8	X	109.3	%71
9	MP9	X	52.8	%47
10	MP1	Z	0	%47
11	MP2	Z	0	%71
12	MP3	Z	0	%47
13	MP4	Z	0	%47
14	MP5	Z	0	%71
15	MP6	Z	0	%47
16	MP7	Z	0	%47
17	MP8	Z	0	%71
18	MP9	Z	0	%47

Member Point Loads (BLC 3 : Wind Load (30 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
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Member Point Loads (BLC 3 : Wind Load (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	90.6	%47
2	MP2	X	61.3	%71
3	MP3	X	15.2	%47
4	MP4	X	117.7	%47
5	MP5	X	111.3	%71
6	MP6	X	61	%47
7	MP7	X	90.6	%47
8	MP8	X	61.3	%71
9	MP9	X	15.2	%47
10	MP1	Z	52.3	%47
11	MP2	Z	35.4	%71
12	MP3	Z	8.8	%47
13	MP4	Z	68	%47
14	MP5	Z	64.3	%71
15	MP6	Z	35.2	%47
16	MP7	Z	52.3	%47
17	MP8	Z	35.4	%71
18	MP9	Z	8.8	%47

Member Point Loads (BLC 4 : Wind Load (60 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	62.8	%47
2	MP2	X	54.7	%71
3	MP3	X	26.4	%47
4	MP4	X	62.8	%47
5	MP5	X	54.7	%71
6	MP6	X	26.4	%47
7	MP7	X	47.1	%47
8	MP8	X	25.8	%71
9	MP9	X	0	%47
10	MP1	Z	108.7	%47
11	MP2	Z	94.7	%71
12	MP3	Z	45.7	%47
13	MP4	Z	108.7	%47
14	MP5	Z	94.7	%71
15	MP6	Z	45.7	%47
16	MP7	Z	81.6	%47
17	MP8	Z	44.6	%71
18	MP9	Z	0	%47

Member Point Loads (BLC 5 : Wind Load (90 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	0	%47
2	MP2	X	0	%71
3	MP3	X	0	%47
4	MP4	X	0	%47
5	MP5	X	0	%71
6	MP6	X	0	%47
7	MP7	X	0	%47
8	MP8	X	0	%71
9	MP9	X	0	%47
10	MP1	Z	135.9	%47
11	MP2	Z	128.6	%71
12	MP3	Z	70.4	%47
13	MP4	Z	104.6	%47
14	MP5	Z	70.8	%71

Member Point Loads (BLC 5 : Wind Load (90 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
15	MP6	Z	17.6	%47
16	MP7	Z	104.6	%47
17	MP8	Z	70.8	%71
18	MP9	Z	17.6	%47

Member Point Loads (BLC 6 : Wind Load (120 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP1	X	-62.8	%47
2	MP2	X	-54.7	%71
3	MP3	X	-26.4	%47
4	MP4	X	-47.1	%47
5	MP5	X	-25.8	%71
6	MP6	X	0	%47
7	MP7	X	-62.8	%47
8	MP8	X	-54.7	%71
9	MP9	X	-26.4	%47
10	MP1	Z	108.7	%47
11	MP2	Z	94.7	%71
12	MP3	Z	45.7	%47
13	MP4	Z	81.6	%47
14	MP5	Z	44.6	%71
15	MP6	Z	0	%47
16	MP7	Z	108.7	%47
17	MP8	Z	94.7	%71
18	MP9	Z	45.7	%47

Member Point Loads (BLC 7 : Wind Load (150 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP1	X	-90.6	%47
2	MP2	X	-61.3	%71
3	MP3	X	-15.2	%47
4	MP4	X	-90.6	%47
5	MP5	X	-61.3	%71
6	MP6	X	-15.2	%47
7	MP7	X	-117.7	%47
8	MP8	X	-111.3	%71
9	MP9	X	-61	%47
10	MP1	Z	52.3	%47
11	MP2	Z	35.4	%71
12	MP3	Z	8.8	%47
13	MP4	Z	52.3	%47
14	MP5	Z	35.4	%71
15	MP6	Z	8.8	%47
16	MP7	Z	68	%47
17	MP8	Z	64.3	%71
18	MP9	Z	35.2	%47

Member Point Loads (BLC 8 : Wind Load (180 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP1	X	-94.2	%47
2	MP2	X	-51.5	%71
3	MP3	X	0	%47
4	MP4	X	-125.5	%47
5	MP5	X	-109.3	%71
6	MP6	X	-52.8	%47

Member Point Loads (BLC 8 : Wind Load (180 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
7	MP7	X	-125.5	%47
8	MP8	X	-109.3	%71
9	MP9	X	-52.8	%47
10	MP1	Z	0	%47
11	MP2	Z	0	%71
12	MP3	Z	0	%47
13	MP4	Z	0	%47
14	MP5	Z	0	%71
15	MP6	Z	0	%47
16	MP7	Z	0	%47
17	MP8	Z	0	%71
18	MP9	Z	0	%47

Member Point Loads (BLC 9 : Wind Load (210 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-90.6	%47
2	MP2	X	-61.3	%71
3	MP3	X	-15.2	%47
4	MP4	X	-117.7	%47
5	MP5	X	-111.3	%71
6	MP6	X	-61	%47
7	MP7	X	-90.6	%47
8	MP8	X	-61.3	%71
9	MP9	X	-15.2	%47
10	MP1	Z	-52.3	%47
11	MP2	Z	-35.4	%71
12	MP3	Z	-8.8	%47
13	MP4	Z	-68	%47
14	MP5	Z	-64.3	%71
15	MP6	Z	-35.2	%47
16	MP7	Z	-52.3	%47
17	MP8	Z	-35.4	%71
18	MP9	Z	-8.8	%47

Member Point Loads (BLC 10 : Wind Load (240 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-62.8	%47
2	MP2	X	-54.7	%71
3	MP3	X	-26.4	%47
4	MP4	X	-62.8	%47
5	MP5	X	-54.7	%71
6	MP6	X	-26.4	%47
7	MP7	X	-47.1	%47
8	MP8	X	-25.8	%71
9	MP9	X	0	%47
10	MP1	Z	-108.7	%47
11	MP2	Z	-94.7	%71
12	MP3	Z	-45.7	%47
13	MP4	Z	-108.7	%47
14	MP5	Z	-94.7	%71
15	MP6	Z	-45.7	%47
16	MP7	Z	-81.6	%47
17	MP8	Z	-44.6	%71
18	MP9	Z	0	%47



Member Point Loads (BLC 11 : Wind Load (270 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	0	%47
2	MP2	X	0	%71
3	MP3	X	0	%47
4	MP4	X	0	%47
5	MP5	X	0	%71
6	MP6	X	0	%47
7	MP7	X	0	%47
8	MP8	X	0	%71
9	MP9	X	0	%47
10	MP1	Z	-135.9	%47
11	MP2	Z	-128.6	%71
12	MP3	Z	-70.4	%47
13	MP4	Z	-104.6	%47
14	MP5	Z	-70.8	%71
15	MP6	Z	-17.6	%47
16	MP7	Z	-104.6	%47
17	MP8	Z	-70.8	%71
18	MP9	Z	-17.6	%47

Member Point Loads (BLC 12 : Wind Load (300 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	62.8	%47
2	MP2	X	54.7	%71
3	MP3	X	26.4	%47
4	MP4	X	47.1	%47
5	MP5	X	25.8	%71
6	MP6	X	0	%47
7	MP7	X	62.8	%47
8	MP8	X	54.7	%71
9	MP9	X	26.4	%47
10	MP1	Z	-108.7	%47
11	MP2	Z	-94.7	%71
12	MP3	Z	-45.7	%47
13	MP4	Z	-81.6	%47
14	MP5	Z	-44.6	%71
15	MP6	Z	0	%47
16	MP7	Z	-108.7	%47
17	MP8	Z	-94.7	%71
18	MP9	Z	-45.7	%47

Member Point Loads (BLC 13 : Wind Load (330 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	90.6	%47
2	MP2	X	61.3	%71
3	MP3	X	15.2	%47
4	MP4	X	90.6	%47
5	MP5	X	61.3	%71
6	MP6	X	15.2	%47
7	MP7	X	117.7	%47
8	MP8	X	111.3	%71
9	MP9	X	61	%47
10	MP1	Z	-52.3	%47
11	MP2	Z	-35.4	%71
12	MP3	Z	-8.8	%47
13	MP4	Z	-52.3	%47
14	MP5	Z	-35.4	%71

Member Point Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
15	MP6	Z	-8.8	%47
16	MP7	Z	-68	%47
17	MP8	Z	-64.3	%71
18	MP9	Z	-35.2	%47

Member Point Loads (BLC 14 : Ice Load)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	Y	-267.1	%47
2	MP2	Y	-258.9	%71
3	MP3	Y	-509.4	%47
4	MP4	Y	-267.1	%47
5	MP5	Y	-258.9	%71
6	MP6	Y	-509.4	%47
7	MP7	Y	-267.1	%47
8	MP8	Y	-258.9	%71
9	MP9	Y	-509.4	%47

Member Point Loads (BLC 15 : Wind on Ice (0 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	X	20	%47
2	MP2	X	17.8	%71
3	MP3	X	1	%47
4	MP4	X	31.6	%47
5	MP5	X	32.5	%71
6	MP6	X	15.8	%47
7	MP7	X	31.6	%47
8	MP8	X	32.5	%71
9	MP9	X	15.8	%47
10	MP1	Z	0	%47
11	MP2	Z	0	%71
12	MP3	Z	0	%47
13	MP4	Z	0	%47
14	MP5	Z	0	%71
15	MP6	Z	0	%47
16	MP7	Z	0	%47
17	MP8	Z	0	%71
18	MP9	Z	0	%47

Member Point Loads (BLC 16 : Wind on Ice (30 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP1	X	20.7	%47
2	MP2	X	19.7	%71
3	MP3	X	5.2	%47
4	MP4	X	30.7	%47
5	MP5	X	32.3	%71
6	MP6	X	18	%47
7	MP7	X	20.7	%47
8	MP8	X	19.7	%71
9	MP9	X	5.2	%47
10	MP1	Z	11.9	%47
11	MP2	Z	11.4	%71
12	MP3	Z	3	%47
13	MP4	Z	17.7	%47
14	MP5	Z	18.7	%71
15	MP6	Z	10.4	%47

Member Point Loads (BLC 16 : Wind on Ice (30 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
16	MP7	Z	11.9	%47
17	MP8	Z	11.4	%71
18	MP9	Z	3	%47

Member Point Loads (BLC 17 : Wind on Ice (60 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	15.8	%47
2	MP2	X	16.2	%71
3	MP3	X	7.9	%47
4	MP4	X	15.8	%47
5	MP5	X	16.2	%71
6	MP6	X	7.9	%47
7	MP7	X	10	%47
8	MP8	X	8.9	%71
9	MP9	X	.5	%47
10	MP1	Z	27.4	%47
11	MP2	Z	28.1	%71
12	MP3	Z	13.7	%47
13	MP4	Z	27.4	%47
14	MP5	Z	28.1	%71
15	MP6	Z	13.7	%47
16	MP7	Z	17.3	%47
17	MP8	Z	15.4	%71
18	MP9	Z	.9	%47

Member Point Loads (BLC 18 : Wind on Ice (90 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	0	%47
2	MP2	X	0	%71
3	MP3	X	0	%47
4	MP4	X	0	%47
5	MP5	X	0	%71
6	MP6	X	0	%47
7	MP7	X	0	%47
8	MP8	X	0	%71
9	MP9	X	0	%47
10	MP1	Z	35.5	%47
11	MP2	Z	37.3	%71
12	MP3	Z	20.8	%47
13	MP4	Z	23.9	%47
14	MP5	Z	22.7	%71
15	MP6	Z	6	%47
16	MP7	Z	23.9	%47
17	MP8	Z	22.7	%71
18	MP9	Z	6	%47

Member Point Loads (BLC 19 : Wind on Ice (120 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-15.8	%47
2	MP2	X	-16.2	%71
3	MP3	X	-7.9	%47
4	MP4	X	-10	%47
5	MP5	X	-8.9	%71
6	MP6	X	-.5	%47
7	MP7	X	-15.8	%47



Member Point Loads (BLC 19 : Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
8	MP8	X	-16.2	%71
9	MP9	X	-7.9	%47
10	MP1	Z	27.4	%47
11	MP2	Z	28.1	%71
12	MP3	Z	13.7	%47
13	MP4	Z	17.3	%47
14	MP5	Z	15.4	%71
15	MP6	Z	.9	%47
16	MP7	Z	27.4	%47
17	MP8	Z	28.1	%71
18	MP9	Z	13.7	%47

Member Point Loads (BLC 20 : Wind on Ice (150 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-20.7	%47
2	MP2	X	-19.7	%71
3	MP3	X	-5.2	%47
4	MP4	X	-20.7	%47
5	MP5	X	-19.7	%71
6	MP6	X	-5.2	%47
7	MP7	X	-30.7	%47
8	MP8	X	-32.3	%71
9	MP9	X	-18	%47
10	MP1	Z	11.9	%47
11	MP2	Z	11.4	%71
12	MP3	Z	3	%47
13	MP4	Z	11.9	%47
14	MP5	Z	11.4	%71
15	MP6	Z	3	%47
16	MP7	Z	17.7	%47
17	MP8	Z	18.7	%71
18	MP9	Z	10.4	%47

Member Point Loads (BLC 21 : Wind on Ice (180 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-20	%47
2	MP2	X	-17.8	%71
3	MP3	X	-1	%47
4	MP4	X	-31.6	%47
5	MP5	X	-32.5	%71
6	MP6	X	-15.8	%47
7	MP7	X	-31.6	%47
8	MP8	X	-32.5	%71
9	MP9	X	-15.8	%47
10	MP1	Z	0	%47
11	MP2	Z	0	%71
12	MP3	Z	0	%47
13	MP4	Z	0	%47
14	MP5	Z	0	%71
15	MP6	Z	0	%47
16	MP7	Z	0	%47
17	MP8	Z	0	%71
18	MP9	Z	0	%47

Member Point Loads (BLC 22 : Wind on Ice (210 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
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Member Point Loads (BLC 22 : Wind on Ice (210 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-20.7	%47
2	MP2	X	-19.7	%71
3	MP3	X	-5.2	%47
4	MP4	X	-30.7	%47
5	MP5	X	-32.3	%71
6	MP6	X	-18	%47
7	MP7	X	-20.7	%47
8	MP8	X	-19.7	%71
9	MP9	X	-5.2	%47
10	MP1	Z	-11.9	%47
11	MP2	Z	-11.4	%71
12	MP3	Z	-3	%47
13	MP4	Z	-17.7	%47
14	MP5	Z	-18.7	%71
15	MP6	Z	-10.4	%47
16	MP7	Z	-11.9	%47
17	MP8	Z	-11.4	%71
18	MP9	Z	-3	%47

Member Point Loads (BLC 23 : Wind on Ice (240 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-15.8	%47
2	MP2	X	-16.2	%71
3	MP3	X	-7.9	%47
4	MP4	X	-15.8	%47
5	MP5	X	-16.2	%71
6	MP6	X	-7.9	%47
7	MP7	X	-10	%47
8	MP8	X	-8.9	%71
9	MP9	X	-5	%47
10	MP1	Z	-27.4	%47
11	MP2	Z	-28.1	%71
12	MP3	Z	-13.7	%47
13	MP4	Z	-27.4	%47
14	MP5	Z	-28.1	%71
15	MP6	Z	-13.7	%47
16	MP7	Z	-17.3	%47
17	MP8	Z	-15.4	%71
18	MP9	Z	-9	%47

Member Point Loads (BLC 24 : Wind on Ice (270 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	0	%47
2	MP2	X	0	%71
3	MP3	X	0	%47
4	MP4	X	0	%47
5	MP5	X	0	%71
6	MP6	X	0	%47
7	MP7	X	0	%47
8	MP8	X	0	%71
9	MP9	X	0	%47
10	MP1	Z	-35.5	%47
11	MP2	Z	-37.3	%71
12	MP3	Z	-20.8	%47
13	MP4	Z	-23.9	%47
14	MP5	Z	-22.7	%71

Member Point Loads (BLC 24 : Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
15	MP6	Z	-6	%47
16	MP7	Z	-23.9	%47
17	MP8	Z	-22.7	%71
18	MP9	Z	-6	%47

Member Point Loads (BLC 25 : Wind on Ice (300 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	15.8	%47
2	MP2	X	16.2	%71
3	MP3	X	7.9	%47
4	MP4	X	10	%47
5	MP5	X	8.9	%71
6	MP6	X	.5	%47
7	MP7	X	15.8	%47
8	MP8	X	16.2	%71
9	MP9	X	7.9	%47
10	MP1	Z	-27.4	%47
11	MP2	Z	-28.1	%71
12	MP3	Z	-13.7	%47
13	MP4	Z	-17.3	%47
14	MP5	Z	-15.4	%71
15	MP6	Z	-9	%47
16	MP7	Z	-27.4	%47
17	MP8	Z	-28.1	%71
18	MP9	Z	-13.7	%47

Member Point Loads (BLC 26 : Wind on Ice (330 deg))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	20.7	%47
2	MP2	X	19.7	%71
3	MP3	X	5.2	%47
4	MP4	X	20.7	%47
5	MP5	X	19.7	%71
6	MP6	X	5.2	%47
7	MP7	X	30.7	%47
8	MP8	X	32.3	%71
9	MP9	X	18	%47
10	MP1	Z	-11.9	%47
11	MP2	Z	-11.4	%71
12	MP3	Z	-3	%47
13	MP4	Z	-11.9	%47
14	MP5	Z	-11.4	%71
15	MP6	Z	-3	%47
16	MP7	Z	-17.7	%47
17	MP8	Z	-18.7	%71
18	MP9	Z	-10.4	%47

Member Point Loads (BLC 27 : Horizontal Seismic, Eh (0))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	177.5	%47
2	MP2	X	132.2	%71
3	MP3	X	128	%47
4	MP4	X	177.5	%47
5	MP5	X	132.2	%71
6	MP6	X	128	%47

Member Point Loads (BLC 27 : Horizontal Seismic, Eh (0)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
7	MP7	X	177.5	%47
8	MP8	X	132.2	%71
9	MP9	X	128	%47
10	MP1	Z	0	%47
11	MP2	Z	0	%71
12	MP3	Z	0	%47
13	MP4	Z	0	%47
14	MP5	Z	0	%71
15	MP6	Z	0	%47
16	MP7	Z	0	%47
17	MP8	Z	0	%71
18	MP9	Z	0	%47

Member Point Loads (BLC 28 : Horizontal Seismic, Eh (30))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	153.7	%47
2	MP2	X	114.5	%71
3	MP3	X	110.9	%47
4	MP4	X	153.7	%47
5	MP5	X	114.5	%71
6	MP6	X	110.9	%47
7	MP7	X	153.7	%47
8	MP8	X	114.5	%71
9	MP9	X	110.9	%47
10	MP1	Z	88.7	%47
11	MP2	Z	66.1	%71
12	MP3	Z	64	%47
13	MP4	Z	88.7	%47
14	MP5	Z	66.1	%71
15	MP6	Z	64	%47
16	MP7	Z	88.7	%47
17	MP8	Z	66.1	%71
18	MP9	Z	64	%47

Member Point Loads (BLC 29 : Horizontal Seismic, Eh (60))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	88.8	%47
2	MP2	X	66.1	%71
3	MP3	X	64	%47
4	MP4	X	88.8	%47
5	MP5	X	66.1	%71
6	MP6	X	64	%47
7	MP7	X	88.8	%47
8	MP8	X	66.1	%71
9	MP9	X	64	%47
10	MP1	Z	153.7	%47
11	MP2	Z	114.5	%71
12	MP3	Z	110.9	%47
13	MP4	Z	153.7	%47
14	MP5	Z	114.5	%71
15	MP6	Z	110.9	%47
16	MP7	Z	153.7	%47
17	MP8	Z	114.5	%71
18	MP9	Z	110.9	%47

Member Point Loads (BLC 30 : Horizontal Seismic, Eh (90))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	0	%47
2	MP2	X	0	%71
3	MP3	X	0	%47
4	MP4	X	0	%47
5	MP5	X	0	%71
6	MP6	X	0	%47
7	MP7	X	0	%47
8	MP8	X	0	%71
9	MP9	X	0	%47
10	MP1	Z	177.5	%47
11	MP2	Z	132.2	%71
12	MP3	Z	128	%47
13	MP4	Z	177.5	%47
14	MP5	Z	132.2	%71
15	MP6	Z	128	%47
16	MP7	Z	177.5	%47
17	MP8	Z	132.2	%71
18	MP9	Z	128	%47

Member Point Loads (BLC 31 : Horizontal Seismic, Eh (120))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-88.7	%47
2	MP2	X	-66.1	%71
3	MP3	X	-64	%47
4	MP4	X	-88.7	%47
5	MP5	X	-66.1	%71
6	MP6	X	-64	%47
7	MP7	X	-88.7	%47
8	MP8	X	-66.1	%71
9	MP9	X	-64	%47
10	MP1	Z	153.7	%47
11	MP2	Z	114.5	%71
12	MP3	Z	110.9	%47
13	MP4	Z	153.7	%47
14	MP5	Z	114.5	%71
15	MP6	Z	110.9	%47
16	MP7	Z	153.7	%47
17	MP8	Z	114.5	%71
18	MP9	Z	110.9	%47

Member Point Loads (BLC 32 : Horizontal Seismic, Eh (150))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	-153.7	%47
2	MP2	X	-114.5	%71
3	MP3	X	-110.9	%47
4	MP4	X	-153.7	%47
5	MP5	X	-114.5	%71
6	MP6	X	-110.9	%47
7	MP7	X	-153.7	%47
8	MP8	X	-114.5	%71
9	MP9	X	-110.9	%47
10	MP1	Z	88.7	%47
11	MP2	Z	66.1	%71
12	MP3	Z	64	%47
13	MP4	Z	88.7	%47
14	MP5	Z	66.1	%71

Member Point Loads (BLC 32 : Horizontal Seismic, Eh (150)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
15	MP6	Z	64	%47
16	MP7	Z	88.7	%47
17	MP8	Z	66.1	%71
18	MP9	Z	64	%47

Member Point Loads (BLC 33 : Horizontal Seismic, Eh (180))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	-177.5	%47
2	MP2	X	-132.2	%71
3	MP3	X	-128	%47
4	MP4	X	-177.5	%47
5	MP5	X	-132.2	%71
6	MP6	X	-128	%47
7	MP7	X	-177.5	%47
8	MP8	X	-132.2	%71
9	MP9	X	-128	%47
10	MP1	Z	0	%47
11	MP2	Z	0	%71
12	MP3	Z	0	%47
13	MP4	Z	0	%47
14	MP5	Z	0	%71
15	MP6	Z	0	%47
16	MP7	Z	0	%47
17	MP8	Z	0	%71
18	MP9	Z	0	%47

Member Point Loads (BLC 34 : Horizontal Seismic, Eh (210))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	-153.7	%47
2	MP2	X	-114.5	%71
3	MP3	X	-110.9	%47
4	MP4	X	-153.7	%47
5	MP5	X	-114.5	%71
6	MP6	X	-110.9	%47
7	MP7	X	-153.7	%47
8	MP8	X	-114.5	%71
9	MP9	X	-110.9	%47
10	MP1	Z	-88.8	%47
11	MP2	Z	-66.1	%71
12	MP3	Z	-64	%47
13	MP4	Z	-88.8	%47
14	MP5	Z	-66.1	%71
15	MP6	Z	-64	%47
16	MP7	Z	-88.8	%47
17	MP8	Z	-66.1	%71
18	MP9	Z	-64	%47

Member Point Loads (BLC 35 : Horizontal Seismic, Eh (240))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	-88.8	%47
2	MP2	X	-66.1	%71
3	MP3	X	-64	%47
4	MP4	X	-88.8	%47
5	MP5	X	-66.1	%71
6	MP6	X	-64	%47

Member Point Loads (BLC 35 : Horizontal Seismic, Eh (240)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
7	MP7	X	-88.8	%47
8	MP8	X	-66.1	%71
9	MP9	X	-64	%47
10	MP1	Z	-153.7	%47
11	MP2	Z	-114.5	%71
12	MP3	Z	-110.9	%47
13	MP4	Z	-153.7	%47
14	MP5	Z	-114.5	%71
15	MP6	Z	-110.9	%47
16	MP7	Z	-153.7	%47
17	MP8	Z	-114.5	%71
18	MP9	Z	-110.9	%47

Member Point Loads (BLC 36 : Horizontal Seismic, Eh (270))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	0	%47
2	MP2	X	0	%71
3	MP3	X	0	%47
4	MP4	X	0	%47
5	MP5	X	0	%71
6	MP6	X	0	%47
7	MP7	X	0	%47
8	MP8	X	0	%71
9	MP9	X	0	%47
10	MP1	Z	-177.5	%47
11	MP2	Z	-132.2	%71
12	MP3	Z	-128	%47
13	MP4	Z	-177.5	%47
14	MP5	Z	-132.2	%71
15	MP6	Z	-128	%47
16	MP7	Z	-177.5	%47
17	MP8	Z	-132.2	%71
18	MP9	Z	-128	%47

Member Point Loads (BLC 37 : Horizontal Seismic, Eh (300))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP1	X	88.8	%47
2	MP2	X	66.1	%71
3	MP3	X	64	%47
4	MP4	X	88.8	%47
5	MP5	X	66.1	%71
6	MP6	X	64	%47
7	MP7	X	88.8	%47
8	MP8	X	66.1	%71
9	MP9	X	64	%47
10	MP1	Z	-153.7	%47
11	MP2	Z	-114.5	%71
12	MP3	Z	-110.9	%47
13	MP4	Z	-153.7	%47
14	MP5	Z	-114.5	%71
15	MP6	Z	-110.9	%47
16	MP7	Z	-153.7	%47
17	MP8	Z	-114.5	%71
18	MP9	Z	-110.9	%47

Member Point Loads (BLC 38 : Horizontal Seismic, Eh (330))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	X	153.7	%47
2	MP2	X	114.5	%71
3	MP3	X	110.9	%47
4	MP4	X	153.7	%47
5	MP5	X	114.5	%71
6	MP6	X	110.9	%47
7	MP7	X	153.7	%47
8	MP8	X	114.5	%71
9	MP9	X	110.9	%47
10	MP1	Z	-88.8	%47
11	MP2	Z	-66.1	%71
12	MP3	Z	-64	%47
13	MP4	Z	-88.8	%47
14	MP5	Z	-66.1	%71
15	MP6	Z	-64	%47
16	MP7	Z	-88.8	%47
17	MP8	Z	-66.1	%71
18	MP9	Z	-64	%47

Member Point Loads (BLC 39 : Maintenance Load, Lm (MP1))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP1	Y	-500	%50

Member Point Loads (BLC 40 : Maintenance Load, Lm (MP2))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP2	Y	-500	%50

Member Point Loads (BLC 41 : Maintenance Load, Lm (MP3))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP3	Y	-500	%50

Member Point Loads (BLC 42 : Maintenance Load, Lm (MP4))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP4	Y	-500	%50

Member Point Loads (BLC 43 : Maintenance Load, Lm (MP5))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP5	Y	-500	%50

Member Point Loads (BLC 44 : Maintenance Load, Lm (MP6))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP6	Y	-500	%50

Member Point Loads (BLC 45 : Maintenance Load, Lm (MP7))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP7	Y	-500	%50

Member Point Loads (BLC 46 : Maintenance Load, Lm (MP8))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP8	Y	-500	%50

Member Point Loads (BLC 47 : Maintenance Load, Lm (MP9))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP9	Y	-500	%50

Member Point Loads (BLC 47 : Maintenance Load, Lm (MP9)) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP9	Y	-500	%50

Member Point Loads (BLC 75 : Maintenance Load, Lv (Pos. 1))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM1	Y	-250	0

Member Point Loads (BLC 76 : Maintenance Load, Lv (Pos. 2))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM1	Y	-250	%50

Member Point Loads (BLC 77 : Maintenance Load, Lv (Pos. 3))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM1	Y	-250	%100

Member Point Loads (BLC 78 : Maintenance Load, Lv (Pos. 4))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM2	Y	-250	0

Member Point Loads (BLC 79 : Maintenance Load, Lv (Pos. 5))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM2	Y	-250	%50

Member Point Loads (BLC 80 : Maintenance Load, Lv (Pos. 6))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM2	Y	-250	%100

Member Point Loads (BLC 81 : Maintenance Load, Lv (Pos. 7))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM3	Y	-250	0

Member Point Loads (BLC 82 : Maintenance Load, Lv (Pos. 8))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM3	Y	-250	%50

Member Point Loads (BLC 83 : Maintenance Load, Lv (Pos. 9))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	FM3	Y	-250	%100

Member Point Loads (BLC 84 : Maintenance Load, Lv (Pos. 10))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	SA1	Y	-250	%100

Member Point Loads (BLC 85 : Maintenance Load, Lv (Pos. 11))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	SA2	Y	-250	%100

Member Point Loads (BLC 86 : Maintenance Load, Lv (Pos. 12))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	SA3	Y	-250	%100

Member Point Loads (BLC 87 : Maintenance Load, Lv (Pos. 13))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	BRACE1	Y	-250	%50

Member Point Loads (BLC 88 : Maintenance Load, Lv (Pos. 14))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	BRACE2	Y	-250	%50

Member Point Loads (BLC 89 : Maintenance Load, Lv (Pos. 15))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	BRACE3	Y	-250	%50

Member Point Loads (BLC 90 : Maintenance Load, Lv (Pos. 16))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR1	Y	-250	0

Member Point Loads (BLC 91 : Maintenance Load, Lv (Pos. 17))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR1	Y	-250	%50

Member Point Loads (BLC 92 : Maintenance Load, Lv (Pos. 18))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR1	Y	-250	%100

Member Point Loads (BLC 93 : Maintenance Load, Lv (Pos. 19))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR2	Y	-250	0

Member Point Loads (BLC 94 : Maintenance Load, Lv (Pos. 20))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR2	Y	-250	%50

Member Point Loads (BLC 95 : Maintenance Load, Lv (Pos. 21))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR2	Y	-250	%100

Member Point Loads (BLC 96 : Maintenance Load, Lv (Pos. 22))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR3	Y	-250	0

Member Point Loads (BLC 97 : Maintenance Load, Lv (Pos. 23))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR3	Y	-250	%50

Member Point Loads (BLC 98 : Maintenance Load, Lv (Pos. 24))

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	HR3	Y	-250	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,...]	Start Location[in,%]	End Location[in,%]
1	FM1	X	17.2	17.2	0	0
2	FM2	X	17.2	17.2	0	0



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
3	FM3	X	17.2	17.2	0 0
4	SA1	X	32.8	32.8	0 0
5	SA2	X	32.8	32.8	0 0
6	SA3	X	32.8	32.8	0 0
7	BRACE1	X	32.8	32.8	0 0
8	BRACE2	X	32.8	32.8	0 0
9	BRACE3	X	32.8	32.8	0 0
10	GRATE1	X	16.4	16.4	0 0
11	GRATE2	X	16.4	16.4	0 0
12	GRATE3	X	16.4	16.4	0 0
13	GRATE4	X	16.4	16.4	0 0
14	GRATE5	X	16.4	16.4	0 0
15	GRATE6	X	16.4	16.4	0 0
16	CORNER-PL1	X	32.8	32.8	0 0
17	CORNER-PL2	X	32.8	32.8	0 0
18	CORNER-PL3	X	32.8	32.8	0 0
19	HR1	X	11.7	11.7	0 0
20	HR2	X	11.7	11.7	0 0
21	HR3	X	11.7	11.7	0 0
22	FM1	Z	0	0	0 0
23	FM2	Z	0	0	0 0
24	FM3	Z	0	0	0 0
25	SA1	Z	0	0	0 0
26	SA2	Z	0	0	0 0
27	SA3	Z	0	0	0 0
28	BRACE1	Z	0	0	0 0
29	BRACE2	Z	0	0	0 0
30	BRACE3	Z	0	0	0 0
31	GRATE1	Z	0	0	0 0
32	GRATE2	Z	0	0	0 0
33	GRATE3	Z	0	0	0 0
34	GRATE4	Z	0	0	0 0
35	GRATE5	Z	0	0	0 0
36	GRATE6	Z	0	0	0 0
37	CORNER-PL1	Z	0	0	0 0
38	CORNER-PL2	Z	0	0	0 0
39	CORNER-PL3	Z	0	0	0 0
40	HR1	Z	0	0	0 0
41	HR2	Z	0	0	0 0
42	HR3	Z	0	0	0 0
43	MP1	X	64.5	64.5	%8.333 %86.111
44	MP2	X	68.2	68.2	%44.679 %96.606
45	MP3	X	166.6	166.6	0 %100
46	MP4	X	50.2	50.2	%8.333 %86.111
47	MP5	X	54	54	%44.679 %96.606
48	MP6	X	96.5	96.5	0 %100
49	MP7	X	50.2	50.2	%8.333 %86.111
50	MP8	X	54	54	%44.679 %96.606
51	MP9	X	96.5	96.5	0 %100
52	MP1	Z	0	0	0 0
53	MP2	Z	0	0	0 0
54	MP3	Z	0	0	0 0
55	MP4	Z	0	0	0 0
56	MP5	Z	0	0	0 0
57	MP6	Z	0	0	0 0
58	MP7	Z	0	0	0 0
59	MP8	Z	0	0	0 0



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
60	MP9	Z	0	0	0	0

Member Distributed Loads (BLC 3 : Wind Load (30 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	14.9	14.9	0	0
2	FM2	X	14.9	14.9	0	0
3	FM3	X	14.9	14.9	0	0
4	SA1	X	28.4	28.4	0	0
5	SA2	X	28.4	28.4	0	0
6	SA3	X	28.4	28.4	0	0
7	BRACE1	X	28.4	28.4	0	0
8	BRACE2	X	28.4	28.4	0	0
9	BRACE3	X	28.4	28.4	0	0
10	GRATE1	X	14.2	14.2	0	0
11	GRATE2	X	14.2	14.2	0	0
12	GRATE3	X	14.2	14.2	0	0
13	GRATE4	X	14.2	14.2	0	0
14	GRATE5	X	14.2	14.2	0	0
15	GRATE6	X	14.2	14.2	0	0
16	CORNER-PL1	X	28.4	28.4	0	0
17	CORNER-PL2	X	28.4	28.4	0	0
18	CORNER-PL3	X	28.4	28.4	0	0
19	HR1	X	10.1	10.1	0	0
20	HR2	X	10.1	10.1	0	0
21	HR3	X	10.1	10.1	0	0
22	FM1	Z	8.6	8.6	0	0
23	FM2	Z	8.6	8.6	0	0
24	FM3	Z	8.6	8.6	0	0
25	SA1	Z	16.4	16.4	0	0
26	SA2	Z	16.4	16.4	0	0
27	SA3	Z	16.4	16.4	0	0
28	BRACE1	Z	16.4	16.4	0	0
29	BRACE2	Z	16.4	16.4	0	0
30	BRACE3	Z	16.4	16.4	0	0
31	GRATE1	Z	8.2	8.2	0	0
32	GRATE2	Z	8.2	8.2	0	0
33	GRATE3	Z	8.2	8.2	0	0
34	GRATE4	Z	8.2	8.2	0	0
35	GRATE5	Z	8.2	8.2	0	0
36	GRATE6	Z	8.2	8.2	0	0
37	CORNER-PL1	Z	16.4	16.4	0	0
38	CORNER-PL2	Z	16.4	16.4	0	0
39	CORNER-PL3	Z	16.4	16.4	0	0
40	HR1	Z	5.8	5.8	0	0
41	HR2	Z	5.8	5.8	0	0
42	HR3	Z	5.8	5.8	0	0
43	MP1	X	51.7	51.7	%8.333	%86.111
44	MP2	X	55	55	%44.679	%96.606
45	MP3	X	124.1	124.1	0	%100
46	MP4	X	39.4	39.4	%8.333	%86.111
47	MP5	X	42.7	42.7	%44.679	%96.606
48	MP6	X	63.4	63.4	0	%100
49	MP7	X	51.7	51.7	%8.333	%86.111
50	MP8	X	55	55	%44.679	%96.606
51	MP9	X	124.1	124.1	0	%100
52	MP1	Z	29.9	29.9	%8.333	%86.111



Member Distributed Loads (BLC 3 : Wind Load (30 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
53	MP2	Z	31.7	31.7	%44.679 %96.606
54	MP3	Z	71.6	71.6	0 %100
55	MP4	Z	22.7	22.7	%8.333 %86.111
56	MP5	Z	24.7	24.7	%44.679 %96.606
57	MP6	Z	36.6	36.6	0 %100
58	MP7	Z	29.9	29.9	%8.333 %86.111
59	MP8	Z	31.7	31.7	%44.679 %96.606
60	MP9	Z	71.6	71.6	0 %100

Member Distributed Loads (BLC 4 : Wind Load (60 deg))

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	8.6	8.6	0 0
2	FM2	X	8.6	8.6	0 0
3	FM3	X	8.6	8.6	0 0
4	SA1	X	16.4	16.4	0 0
5	SA2	X	16.4	16.4	0 0
6	SA3	X	16.4	16.4	0 0
7	BRACE1	X	16.4	16.4	0 0
8	BRACE2	X	16.4	16.4	0 0
9	BRACE3	X	16.4	16.4	0 0
10	GRATE1	X	8.2	8.2	0 0
11	GRATE2	X	8.2	8.2	0 0
12	GRATE3	X	8.2	8.2	0 0
13	GRATE4	X	8.2	8.2	0 0
14	GRATE5	X	8.2	8.2	0 0
15	GRATE6	X	8.2	8.2	0 0
16	CORNER-PL1	X	16.4	16.4	0 0
17	CORNER-PL2	X	16.4	16.4	0 0
18	CORNER-PL3	X	16.4	16.4	0 0
19	HR1	X	5.8	5.8	0 0
20	HR2	X	5.8	5.8	0 0
21	HR3	X	5.8	5.8	0 0
22	FM1	Z	14.9	14.9	0 0
23	FM2	Z	14.9	14.9	0 0
24	FM3	Z	14.9	14.9	0 0
25	SA1	Z	28.4	28.4	0 0
26	SA2	Z	28.4	28.4	0 0
27	SA3	Z	28.4	28.4	0 0
28	BRACE1	Z	28.4	28.4	0 0
29	BRACE2	Z	28.4	28.4	0 0
30	BRACE3	Z	28.4	28.4	0 0
31	GRATE1	Z	14.2	14.2	0 0
32	GRATE2	Z	14.2	14.2	0 0
33	GRATE3	Z	14.2	14.2	0 0
34	GRATE4	Z	14.2	14.2	0 0
35	GRATE5	Z	14.2	14.2	0 0
36	GRATE6	Z	14.2	14.2	0 0
37	CORNER-PL1	Z	28.4	28.4	0 0
38	CORNER-PL2	Z	28.4	28.4	0 0
39	CORNER-PL3	Z	28.4	28.4	0 0
40	HR1	Z	10.1	10.1	0 0
41	HR2	Z	10.1	10.1	0 0
42	HR3	Z	10.1	10.1	0 0
43	MP1	X	25.1	25.1	%8.333 %86.111
44	MP2	X	27	27	%44.679 %96.606
45	MP3	X	48.3	48.3	0 %100



Member Distributed Loads (BLC 4 : Wind Load (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
46	MP4	X	25.1	25.1	%8.333	%86.111
47	MP5	X	27	27	%44.679	%96.606
48	MP6	X	48.3	48.3	0	%100
49	MP7	X	32.2	32.2	%8.333	%86.111
50	MP8	X	34.1	34.1	%44.679	%96.606
51	MP9	X	83.3	83.3	0	%100
52	MP1	Z	43.5	43.5	%8.333	%86.111
53	MP2	Z	46.8	46.8	%44.679	%96.606
54	MP3	Z	83.6	83.6	0	%100
55	MP4	Z	43.5	43.5	%8.333	%86.111
56	MP5	Z	46.8	46.8	%44.679	%96.606
57	MP6	Z	83.6	83.6	0	%100
58	MP7	Z	55.8	55.8	%8.333	%86.111
59	MP8	Z	59	59	%44.679	%96.606
60	MP9	Z	144.3	144.3	0	%100

Member Distributed Loads (BLC 5 : Wind Load (90 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
1	FM1	X	0	0	0	0
2	FM2	X	0	0	0	0
3	FM3	X	0	0	0	0
4	SA1	X	0	0	0	0
5	SA2	X	0	0	0	0
6	SA3	X	0	0	0	0
7	BRACE1	X	0	0	0	0
8	BRACE2	X	0	0	0	0
9	BRACE3	X	0	0	0	0
10	GRATE1	X	0	0	0	0
11	GRATE2	X	0	0	0	0
12	GRATE3	X	0	0	0	0
13	GRATE4	X	0	0	0	0
14	GRATE5	X	0	0	0	0
15	GRATE6	X	0	0	0	0
16	CORNER-PL1	X	0	0	0	0
17	CORNER-PL2	X	0	0	0	0
18	CORNER-PL3	X	0	0	0	0
19	HR1	X	0	0	0	0
20	HR2	X	0	0	0	0
21	HR3	X	0	0	0	0
22	FM1	Z	17.2	17.2	0	0
23	FM2	Z	17.2	17.2	0	0
24	FM3	Z	17.2	17.2	0	0
25	SA1	Z	32.8	32.8	0	0
26	SA2	Z	32.8	32.8	0	0
27	SA3	Z	32.8	32.8	0	0
28	BRACE1	Z	32.8	32.8	0	0
29	BRACE2	Z	32.8	32.8	0	0
30	BRACE3	Z	32.8	32.8	0	0
31	GRATE1	Z	16.4	16.4	0	0
32	GRATE2	Z	16.4	16.4	0	0
33	GRATE3	Z	16.4	16.4	0	0
34	GRATE4	Z	16.4	16.4	0	0
35	GRATE5	Z	16.4	16.4	0	0
36	GRATE6	Z	16.4	16.4	0	0
37	CORNER-PL1	Z	32.8	32.8	0	0
38	CORNER-PL2	Z	32.8	32.8	0	0



Member Distributed Loads (BLC 5 : Wind Load (90 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
39	CORNER-PL3	Z	32.8	32.8	0	0
40	HR1	Z	11.7	11.7	0	0
41	HR2	Z	11.7	11.7	0	0
42	HR3	Z	11.7	11.7	0	0
43	MP1	X	0	0	0	0
44	MP2	X	0	0	0	0
45	MP3	X	0	0	0	0
46	MP4	X	0	0	0	0
47	MP5	X	0	0	0	0
48	MP6	X	0	0	0	0
49	MP7	X	0	0	0	0
50	MP8	X	0	0	0	0
51	MP9	X	0	0	0	0
52	MP1	Z	45.5	45.5	%8.333	%86.111
53	MP2	Z	49.3	49.3	%44.679	%96.606
54	MP3	Z	73.2	73.2	0	%100
55	MP4	Z	59.7	59.7	%8.333	%86.111
56	MP5	Z	63.5	63.5	%44.679	%96.606
57	MP6	Z	143.3	143.3	0	%100
58	MP7	Z	59.7	59.7	%8.333	%86.111
59	MP8	Z	63.5	63.5	%44.679	%96.606
60	MP9	Z	143.3	143.3	0	%100

Member Distributed Loads (BLC 6 : Wind Load (120 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	-8.6	-8.6	0	0
2	FM2	X	-8.6	-8.6	0	0
3	FM3	X	-8.6	-8.6	0	0
4	SA1	X	-16.4	-16.4	0	0
5	SA2	X	-16.4	-16.4	0	0
6	SA3	X	-16.4	-16.4	0	0
7	BRACE1	X	-16.4	-16.4	0	0
8	BRACE2	X	-16.4	-16.4	0	0
9	BRACE3	X	-16.4	-16.4	0	0
10	GRATE1	X	-8.2	-8.2	0	0
11	GRATE2	X	-8.2	-8.2	0	0
12	GRATE3	X	-8.2	-8.2	0	0
13	GRATE4	X	-8.2	-8.2	0	0
14	GRATE5	X	-8.2	-8.2	0	0
15	GRATE6	X	-8.2	-8.2	0	0
16	CORNER-PL1	X	-16.4	-16.4	0	0
17	CORNER-PL2	X	-16.4	-16.4	0	0
18	CORNER-PL3	X	-16.4	-16.4	0	0
19	HR1	X	-5.8	-5.8	0	0
20	HR2	X	-5.8	-5.8	0	0
21	HR3	X	-5.8	-5.8	0	0
22	FM1	Z	14.9	14.9	0	0
23	FM2	Z	14.9	14.9	0	0
24	FM3	Z	14.9	14.9	0	0
25	SA1	Z	28.4	28.4	0	0
26	SA2	Z	28.4	28.4	0	0
27	SA3	Z	28.4	28.4	0	0
28	BRACE1	Z	28.4	28.4	0	0
29	BRACE2	Z	28.4	28.4	0	0
30	BRACE3	Z	28.4	28.4	0	0
31	GRATE1	Z	14.2	14.2	0	0



Member Distributed Loads (BLC 6 : Wind Load (120 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
32	GRATE2	Z	14.2	14.2	0	0
33	GRATE3	Z	14.2	14.2	0	0
34	GRATE4	Z	14.2	14.2	0	0
35	GRATE5	Z	14.2	14.2	0	0
36	GRATE6	Z	14.2	14.2	0	0
37	CORNER-PL1	Z	28.4	28.4	0	0
38	CORNER-PL2	Z	28.4	28.4	0	0
39	CORNER-PL3	Z	28.4	28.4	0	0
40	HR1	Z	10.1	10.1	0	0
41	HR2	Z	10.1	10.1	0	0
42	HR3	Z	10.1	10.1	0	0
43	MP1	X	-25.1	-25.1	%8.333	%86.111
44	MP2	X	-27	-27	%44.679	%96.606
45	MP3	X	-48.3	-48.3	0	%100
46	MP4	X	-32.2	-32.2	%8.333	%86.111
47	MP5	X	-34.1	-34.1	%44.679	%96.606
48	MP6	X	-83.3	-83.3	0	%100
49	MP7	X	-25.1	-25.1	%8.333	%86.111
50	MP8	X	-27	-27	%44.679	%96.606
51	MP9	X	-48.3	-48.3	0	%100
52	MP1	Z	43.5	43.5	%8.333	%86.111
53	MP2	Z	46.8	46.8	%44.679	%96.606
54	MP3	Z	83.6	83.6	0	%100
55	MP4	Z	55.8	55.8	%8.333	%86.111
56	MP5	Z	59	59	%44.679	%96.606
57	MP6	Z	144.3	144.3	0	%100
58	MP7	Z	43.5	43.5	%8.333	%86.111
59	MP8	Z	46.8	46.8	%44.679	%96.606
60	MP9	Z	83.6	83.6	0	%100

Member Distributed Loads (BLC 7 : Wind Load (150 deg))

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
1	FM1	X	-14.9	-14.9	0	0
2	FM2	X	-14.9	-14.9	0	0
3	FM3	X	-14.9	-14.9	0	0
4	SA1	X	-28.4	-28.4	0	0
5	SA2	X	-28.4	-28.4	0	0
6	SA3	X	-28.4	-28.4	0	0
7	BRACE1	X	-28.4	-28.4	0	0
8	BRACE2	X	-28.4	-28.4	0	0
9	BRACE3	X	-28.4	-28.4	0	0
10	GRATE1	X	-14.2	-14.2	0	0
11	GRATE2	X	-14.2	-14.2	0	0
12	GRATE3	X	-14.2	-14.2	0	0
13	GRATE4	X	-14.2	-14.2	0	0
14	GRATE5	X	-14.2	-14.2	0	0
15	GRATE6	X	-14.2	-14.2	0	0
16	CORNER-PL1	X	-28.4	-28.4	0	0
17	CORNER-PL2	X	-28.4	-28.4	0	0
18	CORNER-PL3	X	-28.4	-28.4	0	0
19	HR1	X	-10.1	-10.1	0	0
20	HR2	X	-10.1	-10.1	0	0
21	HR3	X	-10.1	-10.1	0	0
22	FM1	Z	8.6	8.6	0	0
23	FM2	Z	8.6	8.6	0	0
24	FM3	Z	8.6	8.6	0	0

Member Distributed Loads (BLC 7 : Wind Load (150 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
25	SA1	Z	16.4	16.4	0	0
26	SA2	Z	16.4	16.4	0	0
27	SA3	Z	16.4	16.4	0	0
28	BRACE1	Z	16.4	16.4	0	0
29	BRACE2	Z	16.4	16.4	0	0
30	BRACE3	Z	16.4	16.4	0	0
31	GRATE1	Z	8.2	8.2	0	0
32	GRATE2	Z	8.2	8.2	0	0
33	GRATE3	Z	8.2	8.2	0	0
34	GRATE4	Z	8.2	8.2	0	0
35	GRATE5	Z	8.2	8.2	0	0
36	GRATE6	Z	8.2	8.2	0	0
37	CORNER-PL1	Z	16.4	16.4	0	0
38	CORNER-PL2	Z	16.4	16.4	0	0
39	CORNER-PL3	Z	16.4	16.4	0	0
40	HR1	Z	5.8	5.8	0	0
41	HR2	Z	5.8	5.8	0	0
42	HR3	Z	5.8	5.8	0	0
43	MP1	X	-51.7	-51.7	%8.333	%86.111
44	MP2	X	-55	-55	%44.679	%96.606
45	MP3	X	-124.1	-124.1	0	%100
46	MP4	X	-51.7	-51.7	%8.333	%86.111
47	MP5	X	-55	-55	%44.679	%96.606
48	MP6	X	-124.1	-124.1	0	%100
49	MP7	X	-39.4	-39.4	%8.333	%86.111
50	MP8	X	-42.7	-42.7	%44.679	%96.606
51	MP9	X	-63.4	-63.4	0	%100
52	MP1	Z	29.9	29.9	%8.333	%86.111
53	MP2	Z	31.7	31.7	%44.679	%96.606
54	MP3	Z	71.6	71.6	0	%100
55	MP4	Z	29.9	29.9	%8.333	%86.111
56	MP5	Z	31.7	31.7	%44.679	%96.606
57	MP6	Z	71.6	71.6	0	%100
58	MP7	Z	22.7	22.7	%8.333	%86.111
59	MP8	Z	24.7	24.7	%44.679	%96.606
60	MP9	Z	36.6	36.6	0	%100

Member Distributed Loads (BLC 8 : Wind Load (180 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	-17.2	-17.2	0	0
2	FM2	X	-17.2	-17.2	0	0
3	FM3	X	-17.2	-17.2	0	0
4	SA1	X	-32.8	-32.8	0	0
5	SA2	X	-32.8	-32.8	0	0
6	SA3	X	-32.8	-32.8	0	0
7	BRACE1	X	-32.8	-32.8	0	0
8	BRACE2	X	-32.8	-32.8	0	0
9	BRACE3	X	-32.8	-32.8	0	0
10	GRATE1	X	-16.4	-16.4	0	0
11	GRATE2	X	-16.4	-16.4	0	0
12	GRATE3	X	-16.4	-16.4	0	0
13	GRATE4	X	-16.4	-16.4	0	0
14	GRATE5	X	-16.4	-16.4	0	0
15	GRATE6	X	-16.4	-16.4	0	0
16	CORNER-PL1	X	-32.8	-32.8	0	0
17	CORNER-PL2	X	-32.8	-32.8	0	0



Member Distributed Loads (BLC 8 : Wind Load (180 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
18	CORNER-PL3	X	-32.8	-32.8	0	0
19	HR1	X	-11.7	-11.7	0	0
20	HR2	X	-11.7	-11.7	0	0
21	HR3	X	-11.7	-11.7	0	0
22	FM1	Z	0	0	0	0
23	FM2	Z	0	0	0	0
24	FM3	Z	0	0	0	0
25	SA1	Z	0	0	0	0
26	SA2	Z	0	0	0	0
27	SA3	Z	0	0	0	0
28	BRACE1	Z	0	0	0	0
29	BRACE2	Z	0	0	0	0
30	BRACE3	Z	0	0	0	0
31	GRATE1	Z	0	0	0	0
32	GRATE2	Z	0	0	0	0
33	GRATE3	Z	0	0	0	0
34	GRATE4	Z	0	0	0	0
35	GRATE5	Z	0	0	0	0
36	GRATE6	Z	0	0	0	0
37	CORNER-PL1	Z	0	0	0	0
38	CORNER-PL2	Z	0	0	0	0
39	CORNER-PL3	Z	0	0	0	0
40	HR1	Z	0	0	0	0
41	HR2	Z	0	0	0	0
42	HR3	Z	0	0	0	0
43	MP1	X	-64.5	-64.5	%8.333	%86.111
44	MP2	X	-68.2	-68.2	%44.679	%96.606
45	MP3	X	-166.6	-166.6	0	%100
46	MP4	X	-50.2	-50.2	%8.333	%86.111
47	MP5	X	-54	-54	%44.679	%96.606
48	MP6	X	-96.5	-96.5	0	%100
49	MP7	X	-50.2	-50.2	%8.333	%86.111
50	MP8	X	-54	-54	%44.679	%96.606
51	MP9	X	-96.5	-96.5	0	%100
52	MP1	Z	0	0	0	0
53	MP2	Z	0	0	0	0
54	MP3	Z	0	0	0	0
55	MP4	Z	0	0	0	0
56	MP5	Z	0	0	0	0
57	MP6	Z	0	0	0	0
58	MP7	Z	0	0	0	0
59	MP8	Z	0	0	0	0
60	MP9	Z	0	0	0	0

Member Distributed Loads (BLC 9 : Wind Load (210 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	-14.9	-14.9	0	0
2	FM2	X	-14.9	-14.9	0	0
3	FM3	X	-14.9	-14.9	0	0
4	SA1	X	-28.4	-28.4	0	0
5	SA2	X	-28.4	-28.4	0	0
6	SA3	X	-28.4	-28.4	0	0
7	BRACE1	X	-28.4	-28.4	0	0
8	BRACE2	X	-28.4	-28.4	0	0
9	BRACE3	X	-28.4	-28.4	0	0
10	GRATE1	X	-14.2	-14.2	0	0



Member Distributed Loads (BLC 9 : Wind Load (210 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]	
11	GRATE2	X	-14.2	-14.2	0	0
12	GRATE3	X	-14.2	-14.2	0	0
13	GRATE4	X	-14.2	-14.2	0	0
14	GRATE5	X	-14.2	-14.2	0	0
15	GRATE6	X	-14.2	-14.2	0	0
16	CORNER-PL1	X	-28.4	-28.4	0	0
17	CORNER-PL2	X	-28.4	-28.4	0	0
18	CORNER-PL3	X	-28.4	-28.4	0	0
19	HR1	X	-10.1	-10.1	0	0
20	HR2	X	-10.1	-10.1	0	0
21	HR3	X	-10.1	-10.1	0	0
22	FM1	Z	-8.6	-8.6	0	0
23	FM2	Z	-8.6	-8.6	0	0
24	FM3	Z	-8.6	-8.6	0	0
25	SA1	Z	-16.4	-16.4	0	0
26	SA2	Z	-16.4	-16.4	0	0
27	SA3	Z	-16.4	-16.4	0	0
28	BRACE1	Z	-16.4	-16.4	0	0
29	BRACE2	Z	-16.4	-16.4	0	0
30	BRACE3	Z	-16.4	-16.4	0	0
31	GRATE1	Z	-8.2	-8.2	0	0
32	GRATE2	Z	-8.2	-8.2	0	0
33	GRATE3	Z	-8.2	-8.2	0	0
34	GRATE4	Z	-8.2	-8.2	0	0
35	GRATE5	Z	-8.2	-8.2	0	0
36	GRATE6	Z	-8.2	-8.2	0	0
37	CORNER-PL1	Z	-16.4	-16.4	0	0
38	CORNER-PL2	Z	-16.4	-16.4	0	0
39	CORNER-PL3	Z	-16.4	-16.4	0	0
40	HR1	Z	-5.8	-5.8	0	0
41	HR2	Z	-5.8	-5.8	0	0
42	HR3	Z	-5.8	-5.8	0	0
43	MP1	X	-51.7	-51.7	%8.333	%86.111
44	MP2	X	-55	-55	%44.679	%96.606
45	MP3	X	-124.1	-124.1	0	%100
46	MP4	X	-39.4	-39.4	%8.333	%86.111
47	MP5	X	-42.7	-42.7	%44.679	%96.606
48	MP6	X	-63.4	-63.4	0	%100
49	MP7	X	-51.7	-51.7	%8.333	%86.111
50	MP8	X	-55	-55	%44.679	%96.606
51	MP9	X	-124.1	-124.1	0	%100
52	MP1	Z	-29.9	-29.9	%8.333	%86.111
53	MP2	Z	-31.7	-31.7	%44.679	%96.606
54	MP3	Z	-71.6	-71.6	0	%100
55	MP4	Z	-22.7	-22.7	%8.333	%86.111
56	MP5	Z	-24.7	-24.7	%44.679	%96.606
57	MP6	Z	-36.6	-36.6	0	%100
58	MP7	Z	-29.9	-29.9	%8.333	%86.111
59	MP8	Z	-31.7	-31.7	%44.679	%96.606
60	MP9	Z	-71.6	-71.6	0	%100

Member Distributed Loads (BLC 10 : Wind Load (240 deg))

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]	
1	FM1	X	-8.6	-8.6	0	0
2	FM2	X	-8.6	-8.6	0	0
3	FM3	X	-8.6	-8.6	0	0



Member Distributed Loads (BLC 10 : Wind Load (240 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
4	SA1	X	-16.4	-16.4	0 0
5	SA2	X	-16.4	-16.4	0 0
6	SA3	X	-16.4	-16.4	0 0
7	BRACE1	X	-16.4	-16.4	0 0
8	BRACE2	X	-16.4	-16.4	0 0
9	BRACE3	X	-16.4	-16.4	0 0
10	GRATE1	X	-8.2	-8.2	0 0
11	GRATE2	X	-8.2	-8.2	0 0
12	GRATE3	X	-8.2	-8.2	0 0
13	GRATE4	X	-8.2	-8.2	0 0
14	GRATE5	X	-8.2	-8.2	0 0
15	GRATE6	X	-8.2	-8.2	0 0
16	CORNER-PL1	X	-16.4	-16.4	0 0
17	CORNER-PL2	X	-16.4	-16.4	0 0
18	CORNER-PL3	X	-16.4	-16.4	0 0
19	HR1	X	-5.8	-5.8	0 0
20	HR2	X	-5.8	-5.8	0 0
21	HR3	X	-5.8	-5.8	0 0
22	FM1	Z	-14.9	-14.9	0 0
23	FM2	Z	-14.9	-14.9	0 0
24	FM3	Z	-14.9	-14.9	0 0
25	SA1	Z	-28.4	-28.4	0 0
26	SA2	Z	-28.4	-28.4	0 0
27	SA3	Z	-28.4	-28.4	0 0
28	BRACE1	Z	-28.4	-28.4	0 0
29	BRACE2	Z	-28.4	-28.4	0 0
30	BRACE3	Z	-28.4	-28.4	0 0
31	GRATE1	Z	-14.2	-14.2	0 0
32	GRATE2	Z	-14.2	-14.2	0 0
33	GRATE3	Z	-14.2	-14.2	0 0
34	GRATE4	Z	-14.2	-14.2	0 0
35	GRATE5	Z	-14.2	-14.2	0 0
36	GRATE6	Z	-14.2	-14.2	0 0
37	CORNER-PL1	Z	-28.4	-28.4	0 0
38	CORNER-PL2	Z	-28.4	-28.4	0 0
39	CORNER-PL3	Z	-28.4	-28.4	0 0
40	HR1	Z	-10.1	-10.1	0 0
41	HR2	Z	-10.1	-10.1	0 0
42	HR3	Z	-10.1	-10.1	0 0
43	MP1	X	-25.1	-25.1	%8.333 %86.111
44	MP2	X	-27	-27	%44.679 %96.606
45	MP3	X	-48.3	-48.3	0 %100
46	MP4	X	-25.1	-25.1	%8.333 %86.111
47	MP5	X	-27	-27	%44.679 %96.606
48	MP6	X	-48.3	-48.3	0 %100
49	MP7	X	-32.2	-32.2	%8.333 %86.111
50	MP8	X	-34.1	-34.1	%44.679 %96.606
51	MP9	X	-83.3	-83.3	0 %100
52	MP1	Z	-43.5	-43.5	%8.333 %86.111
53	MP2	Z	-46.8	-46.8	%44.679 %96.606
54	MP3	Z	-83.6	-83.6	0 %100
55	MP4	Z	-43.5	-43.5	%8.333 %86.111
56	MP5	Z	-46.8	-46.8	%44.679 %96.606
57	MP6	Z	-83.6	-83.6	0 %100
58	MP7	Z	-55.8	-55.8	%8.333 %86.111
59	MP8	Z	-59	-59	%44.679 %96.606
60	MP9	Z	-144.3	-144.3	0 %100



Member Distributed Loads (BLC 11 : Wind Load (270 deg))

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	0	0	0
2	FM2	X	0	0	0
3	FM3	X	0	0	0
4	SA1	X	0	0	0
5	SA2	X	0	0	0
6	SA3	X	0	0	0
7	BRACE1	X	0	0	0
8	BRACE2	X	0	0	0
9	BRACE3	X	0	0	0
10	GRATE1	X	0	0	0
11	GRATE2	X	0	0	0
12	GRATE3	X	0	0	0
13	GRATE4	X	0	0	0
14	GRATE5	X	0	0	0
15	GRATE6	X	0	0	0
16	CORNER-PL1	X	0	0	0
17	CORNER-PL2	X	0	0	0
18	CORNER-PL3	X	0	0	0
19	HR1	X	0	0	0
20	HR2	X	0	0	0
21	HR3	X	0	0	0
22	FM1	Z	-17.2	-17.2	0
23	FM2	Z	-17.2	-17.2	0
24	FM3	Z	-17.2	-17.2	0
25	SA1	Z	-32.8	-32.8	0
26	SA2	Z	-32.8	-32.8	0
27	SA3	Z	-32.8	-32.8	0
28	BRACE1	Z	-32.8	-32.8	0
29	BRACE2	Z	-32.8	-32.8	0
30	BRACE3	Z	-32.8	-32.8	0
31	GRATE1	Z	-16.4	-16.4	0
32	GRATE2	Z	-16.4	-16.4	0
33	GRATE3	Z	-16.4	-16.4	0
34	GRATE4	Z	-16.4	-16.4	0
35	GRATE5	Z	-16.4	-16.4	0
36	GRATE6	Z	-16.4	-16.4	0
37	CORNER-PL1	Z	-32.8	-32.8	0
38	CORNER-PL2	Z	-32.8	-32.8	0
39	CORNER-PL3	Z	-32.8	-32.8	0
40	HR1	Z	-11.7	-11.7	0
41	HR2	Z	-11.7	-11.7	0
42	HR3	Z	-11.7	-11.7	0
43	MP1	X	0	0	0
44	MP2	X	0	0	0
45	MP3	X	0	0	0
46	MP4	X	0	0	0
47	MP5	X	0	0	0
48	MP6	X	0	0	0
49	MP7	X	0	0	0
50	MP8	X	0	0	0
51	MP9	X	0	0	0
52	MP1	Z	-45.5	-45.5	%8.333
53	MP2	Z	-49.3	-49.3	%44.679
54	MP3	Z	-73.2	-73.2	0
55	MP4	Z	-59.7	-59.7	%8.333
56	MP5	Z	-63.5	-63.5	%44.679
57	MP6	Z	-143.3	-143.3	0



Member Distributed Loads (BLC 11 : Wind Load (270 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
58	MP7	Z	-59.7	-59.7	%8.333	%86.111
59	MP8	Z	-63.5	-63.5	%44.679	%96.606
60	MP9	Z	-143.3	-143.3	0	%100

Member Distributed Loads (BLC 12 : Wind Load (300 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	8.6	8.6	0	0
2	FM2	X	8.6	8.6	0	0
3	FM3	X	8.6	8.6	0	0
4	SA1	X	16.4	16.4	0	0
5	SA2	X	16.4	16.4	0	0
6	SA3	X	16.4	16.4	0	0
7	BRACE1	X	16.4	16.4	0	0
8	BRACE2	X	16.4	16.4	0	0
9	BRACE3	X	16.4	16.4	0	0
10	GRATE1	X	8.2	8.2	0	0
11	GRATE2	X	8.2	8.2	0	0
12	GRATE3	X	8.2	8.2	0	0
13	GRATE4	X	8.2	8.2	0	0
14	GRATE5	X	8.2	8.2	0	0
15	GRATE6	X	8.2	8.2	0	0
16	CORNER-PL1	X	16.4	16.4	0	0
17	CORNER-PL2	X	16.4	16.4	0	0
18	CORNER-PL3	X	16.4	16.4	0	0
19	HR1	X	5.8	5.8	0	0
20	HR2	X	5.8	5.8	0	0
21	HR3	X	5.8	5.8	0	0
22	FM1	Z	-14.9	-14.9	0	0
23	FM2	Z	-14.9	-14.9	0	0
24	FM3	Z	-14.9	-14.9	0	0
25	SA1	Z	-28.4	-28.4	0	0
26	SA2	Z	-28.4	-28.4	0	0
27	SA3	Z	-28.4	-28.4	0	0
28	BRACE1	Z	-28.4	-28.4	0	0
29	BRACE2	Z	-28.4	-28.4	0	0
30	BRACE3	Z	-28.4	-28.4	0	0
31	GRATE1	Z	-14.2	-14.2	0	0
32	GRATE2	Z	-14.2	-14.2	0	0
33	GRATE3	Z	-14.2	-14.2	0	0
34	GRATE4	Z	-14.2	-14.2	0	0
35	GRATE5	Z	-14.2	-14.2	0	0
36	GRATE6	Z	-14.2	-14.2	0	0
37	CORNER-PL1	Z	-28.4	-28.4	0	0
38	CORNER-PL2	Z	-28.4	-28.4	0	0
39	CORNER-PL3	Z	-28.4	-28.4	0	0
40	HR1	Z	-10.1	-10.1	0	0
41	HR2	Z	-10.1	-10.1	0	0
42	HR3	Z	-10.1	-10.1	0	0
43	MP1	X	25.1	25.1	%8.333	%86.111
44	MP2	X	27	27	%44.679	%96.606
45	MP3	X	48.3	48.3	0	%100
46	MP4	X	32.2	32.2	%8.333	%86.111
47	MP5	X	34.1	34.1	%44.679	%96.606
48	MP6	X	83.3	83.3	0	%100
49	MP7	X	25.1	25.1	%8.333	%86.111
50	MP8	X	27	27	%44.679	%96.606



Member Distributed Loads (BLC 12 : Wind Load (300 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
51	MP9	X	48.3	48.3	0	%100
52	MP1	Z	-43.5	-43.5	%8.333	%86.111
53	MP2	Z	-46.8	-46.8	%44.679	%96.606
54	MP3	Z	-83.6	-83.6	0	%100
55	MP4	Z	-55.8	-55.8	%8.333	%86.111
56	MP5	Z	-59	-59	%44.679	%96.606
57	MP6	Z	-144.3	-144.3	0	%100
58	MP7	Z	-43.5	-43.5	%8.333	%86.111
59	MP8	Z	-46.8	-46.8	%44.679	%96.606
60	MP9	Z	-83.6	-83.6	0	%100

Member Distributed Loads (BLC 13 : Wind Load (330 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	14.9	14.9	0	0
2	FM2	X	14.9	14.9	0	0
3	FM3	X	14.9	14.9	0	0
4	SA1	X	28.4	28.4	0	0
5	SA2	X	28.4	28.4	0	0
6	SA3	X	28.4	28.4	0	0
7	BRACE1	X	28.4	28.4	0	0
8	BRACE2	X	28.4	28.4	0	0
9	BRACE3	X	28.4	28.4	0	0
10	GRATE1	X	14.2	14.2	0	0
11	GRATE2	X	14.2	14.2	0	0
12	GRATE3	X	14.2	14.2	0	0
13	GRATE4	X	14.2	14.2	0	0
14	GRATE5	X	14.2	14.2	0	0
15	GRATE6	X	14.2	14.2	0	0
16	CORNER-PL1	X	28.4	28.4	0	0
17	CORNER-PL2	X	28.4	28.4	0	0
18	CORNER-PL3	X	28.4	28.4	0	0
19	HR1	X	10.1	10.1	0	0
20	HR2	X	10.1	10.1	0	0
21	HR3	X	10.1	10.1	0	0
22	FM1	Z	-8.6	-8.6	0	0
23	FM2	Z	-8.6	-8.6	0	0
24	FM3	Z	-8.6	-8.6	0	0
25	SA1	Z	-16.4	-16.4	0	0
26	SA2	Z	-16.4	-16.4	0	0
27	SA3	Z	-16.4	-16.4	0	0
28	BRACE1	Z	-16.4	-16.4	0	0
29	BRACE2	Z	-16.4	-16.4	0	0
30	BRACE3	Z	-16.4	-16.4	0	0
31	GRATE1	Z	-8.2	-8.2	0	0
32	GRATE2	Z	-8.2	-8.2	0	0
33	GRATE3	Z	-8.2	-8.2	0	0
34	GRATE4	Z	-8.2	-8.2	0	0
35	GRATE5	Z	-8.2	-8.2	0	0
36	GRATE6	Z	-8.2	-8.2	0	0
37	CORNER-PL1	Z	-16.4	-16.4	0	0
38	CORNER-PL2	Z	-16.4	-16.4	0	0
39	CORNER-PL3	Z	-16.4	-16.4	0	0
40	HR1	Z	-5.8	-5.8	0	0
41	HR2	Z	-5.8	-5.8	0	0
42	HR3	Z	-5.8	-5.8	0	0
43	MP1	X	51.7	51.7	%8.333	%86.111

Member Distributed Loads (BLC 13 : Wind Load (330 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
44	MP2	X	55	55	%44.679	%96.606
45	MP3	X	124.1	124.1	0	%100
46	MP4	X	51.7	51.7	%8.333	%86.111
47	MP5	X	55	55	%44.679	%96.606
48	MP6	X	124.1	124.1	0	%100
49	MP7	X	39.4	39.4	%8.333	%86.111
50	MP8	X	42.7	42.7	%44.679	%96.606
51	MP9	X	63.4	63.4	0	%100
52	MP1	Z	-29.9	-29.9	%8.333	%86.111
53	MP2	Z	-31.7	-31.7	%44.679	%96.606
54	MP3	Z	-71.6	-71.6	0	%100
55	MP4	Z	-29.9	-29.9	%8.333	%86.111
56	MP5	Z	-31.7	-31.7	%44.679	%96.606
57	MP6	Z	-71.6	-71.6	0	%100
58	MP7	Z	-22.7	-22.7	%8.333	%86.111
59	MP8	Z	-24.7	-24.7	%44.679	%96.606
60	MP9	Z	-36.6	-36.6	0	%100

Member Distributed Loads (BLC 14 : Ice Load)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	Y	-11	-11	0	0
2	FM2	Y	-11	-11	0	0
3	FM3	Y	-11	-11	0	0
4	SA1	Y	-15.5	-15.5	0	0
5	SA2	Y	-15.5	-15.5	0	0
6	SA3	Y	-15.5	-15.5	0	0
7	BRACE1	Y	-12	-12	0	0
8	BRACE2	Y	-12	-12	0	0
9	BRACE3	Y	-12	-12	0	0
10	GRATE1	Y	-9.5	-9.5	0	0
11	GRATE2	Y	-9.5	-9.5	0	0
12	GRATE3	Y	-9.5	-9.5	0	0
13	GRATE4	Y	-9.5	-9.5	0	0
14	GRATE5	Y	-9.5	-9.5	0	0
15	GRATE6	Y	-9.5	-9.5	0	0
16	CORNER-PL1	Y	-12	-12	0	0
17	CORNER-PL2	Y	-12	-12	0	0
18	CORNER-PL3	Y	-12	-12	0	0
19	HR1	Y	-8.6	-8.6	0	0
20	HR2	Y	-8.6	-8.6	0	0
21	HR3	Y	-8.6	-8.6	0	0

Member Distributed Loads (BLC 15 : Wind on Ice (0 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	5.1	5.1	0	0
2	FM2	X	5.1	5.1	0	0
3	FM3	X	5.1	5.1	0	0
4	SA1	X	7.4	7.4	0	0
5	SA2	X	7.4	7.4	0	0
6	SA3	X	7.4	7.4	0	0
7	BRACE1	X	7.4	7.4	0	0
8	BRACE2	X	7.4	7.4	0	0
9	BRACE3	X	7.4	7.4	0	0
10	GRATE1	X	4.9	4.9	0	0
11	GRATE2	X	4.9	4.9	0	0
12	GRATE3	X	4.9	4.9	0	0

Member Distributed Loads (BLC 15 : Wind on Ice (0 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
13	GRATE4	X	4.9	4.9	0	0
14	GRATE5	X	4.9	4.9	0	0
15	GRATE6	X	4.9	4.9	0	0
16	CORNER-PL1	X	7.4	7.4	0	0
17	CORNER-PL2	X	7.4	7.4	0	0
18	CORNER-PL3	X	7.4	7.4	0	0
19	HR1	X	4.2	4.2	0	0
20	HR2	X	4.2	4.2	0	0
21	HR3	X	4.2	4.2	0	0
22	FM1	Z	0	0	0	0
23	FM2	Z	0	0	0	0
24	FM3	Z	0	0	0	0
25	SA1	Z	0	0	0	0
26	SA2	Z	0	0	0	0
27	SA3	Z	0	0	0	0
28	BRACE1	Z	0	0	0	0
29	BRACE2	Z	0	0	0	0
30	BRACE3	Z	0	0	0	0
31	GRATE1	Z	0	0	0	0
32	GRATE2	Z	0	0	0	0
33	GRATE3	Z	0	0	0	0
34	GRATE4	Z	0	0	0	0
35	GRATE5	Z	0	0	0	0
36	GRATE6	Z	0	0	0	0
37	CORNER-PL1	Z	0	0	0	0
38	CORNER-PL2	Z	0	0	0	0
39	CORNER-PL3	Z	0	0	0	0
40	HR1	Z	0	0	0	0
41	HR2	Z	0	0	0	0
42	HR3	Z	0	0	0	0
43	MP1	X	10.9	10.9	%8.333	%86.111
44	MP2	X	11.4	11.4	%44.679	%96.606
45	MP3	X	26.4	26.4	0	%100
46	MP4	X	8.9	8.9	%8.333	%86.111
47	MP5	X	9.5	9.5	%44.679	%96.606
48	MP6	X	16.2	16.2	0	%100
49	MP7	X	8.9	8.9	%8.333	%86.111
50	MP8	X	9.5	9.5	%44.679	%96.606
51	MP9	X	16.2	16.2	0	%100
52	MP1	Z	0	0	0	0
53	MP2	Z	0	0	0	0
54	MP3	Z	0	0	0	0
55	MP4	Z	0	0	0	0
56	MP5	Z	0	0	0	0
57	MP6	Z	0	0	0	0
58	MP7	Z	0	0	0	0
59	MP8	Z	0	0	0	0
60	MP9	Z	0	0	0	0

Member Distributed Loads (BLC 16 : Wind on Ice (30 deg))

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
1	FM1	X	4.4	4.4	0	0
2	FM2	X	4.4	4.4	0	0
3	FM3	X	4.4	4.4	0	0
4	SA1	X	6.4	6.4	0	0
5	SA2	X	6.4	6.4	0	0



Member Distributed Loads (BLC 16 : Wind on Ice (30 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
6	SA3	X	6.4	6.4	0 0
7	BRACE1	X	6.4	6.4	0 0
8	BRACE2	X	6.4	6.4	0 0
9	BRACE3	X	6.4	6.4	0 0
10	GRATE1	X	4.3	4.3	0 0
11	GRATE2	X	4.3	4.3	0 0
12	GRATE3	X	4.3	4.3	0 0
13	GRATE4	X	4.3	4.3	0 0
14	GRATE5	X	4.3	4.3	0 0
15	GRATE6	X	4.3	4.3	0 0
16	CORNER-PL1	X	6.4	6.4	0 0
17	CORNER-PL2	X	6.4	6.4	0 0
18	CORNER-PL3	X	6.4	6.4	0 0
19	HR1	X	3.7	3.7	0 0
20	HR2	X	3.7	3.7	0 0
21	HR3	X	3.7	3.7	0 0
22	FM1	Z	2.5	2.5	0 0
23	FM2	Z	2.5	2.5	0 0
24	FM3	Z	2.5	2.5	0 0
25	SA1	Z	3.7	3.7	0 0
26	SA2	Z	3.7	3.7	0 0
27	SA3	Z	3.7	3.7	0 0
28	BRACE1	Z	3.7	3.7	0 0
29	BRACE2	Z	3.7	3.7	0 0
30	BRACE3	Z	3.7	3.7	0 0
31	GRATE1	Z	2.5	2.5	0 0
32	GRATE2	Z	2.5	2.5	0 0
33	GRATE3	Z	2.5	2.5	0 0
34	GRATE4	Z	2.5	2.5	0 0
35	GRATE5	Z	2.5	2.5	0 0
36	GRATE6	Z	2.5	2.5	0 0
37	CORNER-PL1	Z	3.7	3.7	0 0
38	CORNER-PL2	Z	3.7	3.7	0 0
39	CORNER-PL3	Z	3.7	3.7	0 0
40	HR1	Z	2.1	2.1	0 0
41	HR2	Z	2.1	2.1	0 0
42	HR3	Z	2.1	2.1	0 0
43	MP1	X	8.9	8.9	%8.333 %86.111
44	MP2	X	9.4	9.4	%44.679 %96.606
45	MP3	X	19.9	19.9	0 %100
46	MP4	X	7.1	7.1	%8.333 %86.111
47	MP5	X	7.7	7.7	%44.679 %96.606
48	MP6	X	11	11	0 %100
49	MP7	X	8.9	8.9	%8.333 %86.111
50	MP8	X	9.4	9.4	%44.679 %96.606
51	MP9	X	19.9	19.9	0 %100
52	MP1	Z	5.1	5.1	%8.333 %86.111
53	MP2	Z	5.4	5.4	%44.679 %96.606
54	MP3	Z	11.5	11.5	0 %100
55	MP4	Z	4.1	4.1	%8.333 %86.111
56	MP5	Z	4.4	4.4	%44.679 %96.606
57	MP6	Z	6.4	6.4	0 %100
58	MP7	Z	5.1	5.1	%8.333 %86.111
59	MP8	Z	5.4	5.4	%44.679 %96.606
60	MP9	Z	11.5	11.5	0 %100



Member Distributed Loads (BLC 17 : Wind on Ice (60 deg))

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	2.5	2.5	0 0
2	FM2	X	2.5	2.5	0 0
3	FM3	X	2.5	2.5	0 0
4	SA1	X	3.7	3.7	0 0
5	SA2	X	3.7	3.7	0 0
6	SA3	X	3.7	3.7	0 0
7	BRACE1	X	3.7	3.7	0 0
8	BRACE2	X	3.7	3.7	0 0
9	BRACE3	X	3.7	3.7	0 0
10	GRATE1	X	2.5	2.5	0 0
11	GRATE2	X	2.5	2.5	0 0
12	GRATE3	X	2.5	2.5	0 0
13	GRATE4	X	2.5	2.5	0 0
14	GRATE5	X	2.5	2.5	0 0
15	GRATE6	X	2.5	2.5	0 0
16	CORNER-PL1	X	3.7	3.7	0 0
17	CORNER-PL2	X	3.7	3.7	0 0
18	CORNER-PL3	X	3.7	3.7	0 0
19	HR1	X	2.1	2.1	0 0
20	HR2	X	2.1	2.1	0 0
21	HR3	X	2.1	2.1	0 0
22	FM1	Z	4.4	4.4	0 0
23	FM2	Z	4.4	4.4	0 0
24	FM3	Z	4.4	4.4	0 0
25	SA1	Z	6.4	6.4	0 0
26	SA2	Z	6.4	6.4	0 0
27	SA3	Z	6.4	6.4	0 0
28	BRACE1	Z	6.4	6.4	0 0
29	BRACE2	Z	6.4	6.4	0 0
30	BRACE3	Z	6.4	6.4	0 0
31	GRATE1	Z	4.3	4.3	0 0
32	GRATE2	Z	4.3	4.3	0 0
33	GRATE3	Z	4.3	4.3	0 0
34	GRATE4	Z	4.3	4.3	0 0
35	GRATE5	Z	4.3	4.3	0 0
36	GRATE6	Z	4.3	4.3	0 0
37	CORNER-PL1	Z	6.4	6.4	0 0
38	CORNER-PL2	Z	6.4	6.4	0 0
39	CORNER-PL3	Z	6.4	6.4	0 0
40	HR1	Z	3.7	3.7	0 0
41	HR2	Z	3.7	3.7	0 0
42	HR3	Z	3.7	3.7	0 0
43	MP1	X	4.5	4.5	%8.333 %86.111
44	MP2	X	4.7	4.7	%44.679 %96.606
45	MP3	X	8.1	8.1	0 %100
46	MP4	X	4.5	4.5	%8.333 %86.111
47	MP5	X	4.7	4.7	%44.679 %96.606
48	MP6	X	8.1	8.1	0 %100
49	MP7	X	5.4	5.4	%8.333 %86.111
50	MP8	X	5.7	5.7	%44.679 %96.606
51	MP9	X	13.2	13.2	0 %100
52	MP1	Z	7.7	7.7	%8.333 %86.111
53	MP2	Z	8.2	8.2	%44.679 %96.606
54	MP3	Z	14	14	0 %100
55	MP4	Z	7.7	7.7	%8.333 %86.111
56	MP5	Z	8.2	8.2	%44.679 %96.606
57	MP6	Z	14	14	0 %100



Member Distributed Loads (BLC 17 : Wind on Ice (60 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
58	MP7	Z	9.4	9.4	%8.333	%86.111
59	MP8	Z	9.9	9.9	%44.679	%96.606
60	MP9	Z	22.9	22.9	0	%100

Member Distributed Loads (BLC 18 : Wind on Ice (90 deg))

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
1	FM1	X	0	0	0	0
2	FM2	X	0	0	0	0
3	FM3	X	0	0	0	0
4	SA1	X	0	0	0	0
5	SA2	X	0	0	0	0
6	SA3	X	0	0	0	0
7	BRACE1	X	0	0	0	0
8	BRACE2	X	0	0	0	0
9	BRACE3	X	0	0	0	0
10	GRATE1	X	0	0	0	0
11	GRATE2	X	0	0	0	0
12	GRATE3	X	0	0	0	0
13	GRATE4	X	0	0	0	0
14	GRATE5	X	0	0	0	0
15	GRATE6	X	0	0	0	0
16	CORNER-PL1	X	0	0	0	0
17	CORNER-PL2	X	0	0	0	0
18	CORNER-PL3	X	0	0	0	0
19	HR1	X	0	0	0	0
20	HR2	X	0	0	0	0
21	HR3	X	0	0	0	0
22	FM1	Z	5.1	5.1	0	0
23	FM2	Z	5.1	5.1	0	0
24	FM3	Z	5.1	5.1	0	0
25	SA1	Z	7.4	7.4	0	0
26	SA2	Z	7.4	7.4	0	0
27	SA3	Z	7.4	7.4	0	0
28	BRACE1	Z	7.4	7.4	0	0
29	BRACE2	Z	7.4	7.4	0	0
30	BRACE3	Z	7.4	7.4	0	0
31	GRATE1	Z	4.9	4.9	0	0
32	GRATE2	Z	4.9	4.9	0	0
33	GRATE3	Z	4.9	4.9	0	0
34	GRATE4	Z	4.9	4.9	0	0
35	GRATE5	Z	4.9	4.9	0	0
36	GRATE6	Z	4.9	4.9	0	0
37	CORNER-PL1	Z	7.4	7.4	0	0
38	CORNER-PL2	Z	7.4	7.4	0	0
39	CORNER-PL3	Z	7.4	7.4	0	0
40	HR1	Z	4.2	4.2	0	0
41	HR2	Z	4.2	4.2	0	0
42	HR3	Z	4.2	4.2	0	0
43	MP1	X	0	0	0	0
44	MP2	X	0	0	0	0
45	MP3	X	0	0	0	0
46	MP4	X	0	0	0	0
47	MP5	X	0	0	0	0
48	MP6	X	0	0	0	0
49	MP7	X	0	0	0	0
50	MP8	X	0	0	0	0



Member Distributed Loads (BLC 18 : Wind on Ice (90 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
51	MP9	X	0	0	0	0
52	MP1	Z	8.3	8.3	%8.333	%86.111
53	MP2	Z	8.9	8.9	%44.679	%96.606
54	MP3	Z	12.8	12.8	0	%100
55	MP4	Z	10.2	10.2	%8.333	%86.111
56	MP5	Z	10.8	10.8	%44.679	%96.606
57	MP6	Z	23	23	0	%100
58	MP7	Z	10.2	10.2	%8.333	%86.111
59	MP8	Z	10.8	10.8	%44.679	%96.606
60	MP9	Z	23	23	0	%100

Member Distributed Loads (BLC 19 : Wind on Ice (120 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	-2.5	-2.5	0	0
2	FM2	X	-2.5	-2.5	0	0
3	FM3	X	-2.5	-2.5	0	0
4	SA1	X	-3.7	-3.7	0	0
5	SA2	X	-3.7	-3.7	0	0
6	SA3	X	-3.7	-3.7	0	0
7	BRACE1	X	-3.7	-3.7	0	0
8	BRACE2	X	-3.7	-3.7	0	0
9	BRACE3	X	-3.7	-3.7	0	0
10	GRATE1	X	-2.5	-2.5	0	0
11	GRATE2	X	-2.5	-2.5	0	0
12	GRATE3	X	-2.5	-2.5	0	0
13	GRATE4	X	-2.5	-2.5	0	0
14	GRATE5	X	-2.5	-2.5	0	0
15	GRATE6	X	-2.5	-2.5	0	0
16	CORNER-PL1	X	-3.7	-3.7	0	0
17	CORNER-PL2	X	-3.7	-3.7	0	0
18	CORNER-PL3	X	-3.7	-3.7	0	0
19	HR1	X	-2.1	-2.1	0	0
20	HR2	X	-2.1	-2.1	0	0
21	HR3	X	-2.1	-2.1	0	0
22	FM1	Z	4.4	4.4	0	0
23	FM2	Z	4.4	4.4	0	0
24	FM3	Z	4.4	4.4	0	0
25	SA1	Z	6.4	6.4	0	0
26	SA2	Z	6.4	6.4	0	0
27	SA3	Z	6.4	6.4	0	0
28	BRACE1	Z	6.4	6.4	0	0
29	BRACE2	Z	6.4	6.4	0	0
30	BRACE3	Z	6.4	6.4	0	0
31	GRATE1	Z	4.3	4.3	0	0
32	GRATE2	Z	4.3	4.3	0	0
33	GRATE3	Z	4.3	4.3	0	0
34	GRATE4	Z	4.3	4.3	0	0
35	GRATE5	Z	4.3	4.3	0	0
36	GRATE6	Z	4.3	4.3	0	0
37	CORNER-PL1	Z	6.4	6.4	0	0
38	CORNER-PL2	Z	6.4	6.4	0	0
39	CORNER-PL3	Z	6.4	6.4	0	0
40	HR1	Z	3.7	3.7	0	0
41	HR2	Z	3.7	3.7	0	0
42	HR3	Z	3.7	3.7	0	0
43	MP1	X	-4.5	-4.5	%8.333	%86.111



Member Distributed Loads (BLC 19 : Wind on Ice (120 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
44	MP2	X	-4.7	-4.7	%44.679	%96.606
45	MP3	X	-8.1	-8.1	0	%100
46	MP4	X	-5.4	-5.4	%8.333	%86.111
47	MP5	X	-5.7	-5.7	%44.679	%96.606
48	MP6	X	-13.2	-13.2	0	%100
49	MP7	X	-4.5	-4.5	%8.333	%86.111
50	MP8	X	-4.7	-4.7	%44.679	%96.606
51	MP9	X	-8.1	-8.1	0	%100
52	MP1	Z	7.7	7.7	%8.333	%86.111
53	MP2	Z	8.2	8.2	%44.679	%96.606
54	MP3	Z	14	14	0	%100
55	MP4	Z	9.4	9.4	%8.333	%86.111
56	MP5	Z	9.9	9.9	%44.679	%96.606
57	MP6	Z	22.9	22.9	0	%100
58	MP7	Z	7.7	7.7	%8.333	%86.111
59	MP8	Z	8.2	8.2	%44.679	%96.606
60	MP9	Z	14	14	0	%100

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	-4.4	-4.4	0	0
2	FM2	X	-4.4	-4.4	0	0
3	FM3	X	-4.4	-4.4	0	0
4	SA1	X	-6.4	-6.4	0	0
5	SA2	X	-6.4	-6.4	0	0
6	SA3	X	-6.4	-6.4	0	0
7	BRACE1	X	-6.4	-6.4	0	0
8	BRACE2	X	-6.4	-6.4	0	0
9	BRACE3	X	-6.4	-6.4	0	0
10	GRATE1	X	-4.3	-4.3	0	0
11	GRATE2	X	-4.3	-4.3	0	0
12	GRATE3	X	-4.3	-4.3	0	0
13	GRATE4	X	-4.3	-4.3	0	0
14	GRATE5	X	-4.3	-4.3	0	0
15	GRATE6	X	-4.3	-4.3	0	0
16	CORNER-PL1	X	-6.4	-6.4	0	0
17	CORNER-PL2	X	-6.4	-6.4	0	0
18	CORNER-PL3	X	-6.4	-6.4	0	0
19	HR1	X	-3.7	-3.7	0	0
20	HR2	X	-3.7	-3.7	0	0
21	HR3	X	-3.7	-3.7	0	0
22	FM1	Z	2.5	2.5	0	0
23	FM2	Z	2.5	2.5	0	0
24	FM3	Z	2.5	2.5	0	0
25	SA1	Z	3.7	3.7	0	0
26	SA2	Z	3.7	3.7	0	0
27	SA3	Z	3.7	3.7	0	0
28	BRACE1	Z	3.7	3.7	0	0
29	BRACE2	Z	3.7	3.7	0	0
30	BRACE3	Z	3.7	3.7	0	0
31	GRATE1	Z	2.5	2.5	0	0
32	GRATE2	Z	2.5	2.5	0	0
33	GRATE3	Z	2.5	2.5	0	0
34	GRATE4	Z	2.5	2.5	0	0
35	GRATE5	Z	2.5	2.5	0	0
36	GRATE6	Z	2.5	2.5	0	0

Member Distributed Loads (BLC 20 : Wind on Ice (150 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
37	CORNER-PL1	Z	3.7	3.7	0	0
38	CORNER-PL2	Z	3.7	3.7	0	0
39	CORNER-PL3	Z	3.7	3.7	0	0
40	HR1	Z	2.1	2.1	0	0
41	HR2	Z	2.1	2.1	0	0
42	HR3	Z	2.1	2.1	0	0
43	MP1	X	-8.9	-8.9	%8.333	%86.111
44	MP2	X	-9.4	-9.4	%44.679	%96.606
45	MP3	X	-19.9	-19.9	0	%100
46	MP4	X	-8.9	-8.9	%8.333	%86.111
47	MP5	X	-9.4	-9.4	%44.679	%96.606
48	MP6	X	-19.9	-19.9	0	%100
49	MP7	X	-7.1	-7.1	%8.333	%86.111
50	MP8	X	-7.7	-7.7	%44.679	%96.606
51	MP9	X	-11	-11	0	%100
52	MP1	Z	5.1	5.1	%8.333	%86.111
53	MP2	Z	5.4	5.4	%44.679	%96.606
54	MP3	Z	11.5	11.5	0	%100
55	MP4	Z	5.1	5.1	%8.333	%86.111
56	MP5	Z	5.4	5.4	%44.679	%96.606
57	MP6	Z	11.5	11.5	0	%100
58	MP7	Z	4.1	4.1	%8.333	%86.111
59	MP8	Z	4.4	4.4	%44.679	%96.606
60	MP9	Z	6.4	6.4	0	%100

Member Distributed Loads (BLC 21 : Wind on Ice (180 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	-5.1	-5.1	0	0
2	FM2	X	-5.1	-5.1	0	0
3	FM3	X	-5.1	-5.1	0	0
4	SA1	X	-7.4	-7.4	0	0
5	SA2	X	-7.4	-7.4	0	0
6	SA3	X	-7.4	-7.4	0	0
7	BRACE1	X	-7.4	-7.4	0	0
8	BRACE2	X	-7.4	-7.4	0	0
9	BRACE3	X	-7.4	-7.4	0	0
10	GRATE1	X	-4.9	-4.9	0	0
11	GRATE2	X	-4.9	-4.9	0	0
12	GRATE3	X	-4.9	-4.9	0	0
13	GRATE4	X	-4.9	-4.9	0	0
14	GRATE5	X	-4.9	-4.9	0	0
15	GRATE6	X	-4.9	-4.9	0	0
16	CORNER-PL1	X	-7.4	-7.4	0	0
17	CORNER-PL2	X	-7.4	-7.4	0	0
18	CORNER-PL3	X	-7.4	-7.4	0	0
19	HR1	X	-4.2	-4.2	0	0
20	HR2	X	-4.2	-4.2	0	0
21	HR3	X	-4.2	-4.2	0	0
22	FM1	Z	0	0	0	0
23	FM2	Z	0	0	0	0
24	FM3	Z	0	0	0	0
25	SA1	Z	0	0	0	0
26	SA2	Z	0	0	0	0
27	SA3	Z	0	0	0	0
28	BRACE1	Z	0	0	0	0
29	BRACE2	Z	0	0	0	0

Member Distributed Loads (BLC 21 : Wind on Ice (180 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
30	BRACE3	Z	0	0	0
31	GRATE1	Z	0	0	0
32	GRATE2	Z	0	0	0
33	GRATE3	Z	0	0	0
34	GRATE4	Z	0	0	0
35	GRATE5	Z	0	0	0
36	GRATE6	Z	0	0	0
37	CORNER-PL1	Z	0	0	0
38	CORNER-PL2	Z	0	0	0
39	CORNER-PL3	Z	0	0	0
40	HR1	Z	0	0	0
41	HR2	Z	0	0	0
42	HR3	Z	0	0	0
43	MP1	X	-10.9	-10.9	%8.333
44	MP2	X	-11.4	-11.4	%44.679
45	MP3	X	-26.4	-26.4	0
46	MP4	X	-8.9	-8.9	%8.333
47	MP5	X	-9.5	-9.5	%44.679
48	MP6	X	-16.2	-16.2	0
49	MP7	X	-8.9	-8.9	%8.333
50	MP8	X	-9.5	-9.5	%44.679
51	MP9	X	-16.2	-16.2	0
52	MP1	Z	0	0	0
53	MP2	Z	0	0	0
54	MP3	Z	0	0	0
55	MP4	Z	0	0	0
56	MP5	Z	0	0	0
57	MP6	Z	0	0	0
58	MP7	Z	0	0	0
59	MP8	Z	0	0	0
60	MP9	Z	0	0	0

Member Distributed Loads (BLC 22 : Wind on Ice (210 deg))

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	-4.4	-4.4	0
2	FM2	X	-4.4	-4.4	0
3	FM3	X	-4.4	-4.4	0
4	SA1	X	-6.4	-6.4	0
5	SA2	X	-6.4	-6.4	0
6	SA3	X	-6.4	-6.4	0
7	BRACE1	X	-6.4	-6.4	0
8	BRACE2	X	-6.4	-6.4	0
9	BRACE3	X	-6.4	-6.4	0
10	GRATE1	X	-4.3	-4.3	0
11	GRATE2	X	-4.3	-4.3	0
12	GRATE3	X	-4.3	-4.3	0
13	GRATE4	X	-4.3	-4.3	0
14	GRATE5	X	-4.3	-4.3	0
15	GRATE6	X	-4.3	-4.3	0
16	CORNER-PL1	X	-6.4	-6.4	0
17	CORNER-PL2	X	-6.4	-6.4	0
18	CORNER-PL3	X	-6.4	-6.4	0
19	HR1	X	-3.7	-3.7	0
20	HR2	X	-3.7	-3.7	0
21	HR3	X	-3.7	-3.7	0
22	FM1	Z	-2.5	-2.5	0

Member Distributed Loads (BLC 22 : Wind on Ice (210 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
23	FM2	Z	-2.5	-2.5	0	0
24	FM3	Z	-2.5	-2.5	0	0
25	SA1	Z	-3.7	-3.7	0	0
26	SA2	Z	-3.7	-3.7	0	0
27	SA3	Z	-3.7	-3.7	0	0
28	BRACE1	Z	-3.7	-3.7	0	0
29	BRACE2	Z	-3.7	-3.7	0	0
30	BRACE3	Z	-3.7	-3.7	0	0
31	GRATE1	Z	-2.5	-2.5	0	0
32	GRATE2	Z	-2.5	-2.5	0	0
33	GRATE3	Z	-2.5	-2.5	0	0
34	GRATE4	Z	-2.5	-2.5	0	0
35	GRATE5	Z	-2.5	-2.5	0	0
36	GRATE6	Z	-2.5	-2.5	0	0
37	CORNER-PL1	Z	-3.7	-3.7	0	0
38	CORNER-PL2	Z	-3.7	-3.7	0	0
39	CORNER-PL3	Z	-3.7	-3.7	0	0
40	HR1	Z	-2.1	-2.1	0	0
41	HR2	Z	-2.1	-2.1	0	0
42	HR3	Z	-2.1	-2.1	0	0
43	MP1	X	-8.9	-8.9	%8.333	%86.111
44	MP2	X	-9.4	-9.4	%44.679	%96.606
45	MP3	X	-19.9	-19.9	0	%100
46	MP4	X	-7.1	-7.1	%8.333	%86.111
47	MP5	X	-7.7	-7.7	%44.679	%96.606
48	MP6	X	-11	-11	0	%100
49	MP7	X	-8.9	-8.9	%8.333	%86.111
50	MP8	X	-9.4	-9.4	%44.679	%96.606
51	MP9	X	-19.9	-19.9	0	%100
52	MP1	Z	-5.1	-5.1	%8.333	%86.111
53	MP2	Z	-5.4	-5.4	%44.679	%96.606
54	MP3	Z	-11.5	-11.5	0	%100
55	MP4	Z	-4.1	-4.1	%8.333	%86.111
56	MP5	Z	-4.4	-4.4	%44.679	%96.606
57	MP6	Z	-6.4	-6.4	0	%100
58	MP7	Z	-5.1	-5.1	%8.333	%86.111
59	MP8	Z	-5.4	-5.4	%44.679	%96.606
60	MP9	Z	-11.5	-11.5	0	%100

Member Distributed Loads (BLC 23 : Wind on Ice (240 deg))

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
1	FM1	X	-2.5	-2.5	0	0
2	FM2	X	-2.5	-2.5	0	0
3	FM3	X	-2.5	-2.5	0	0
4	SA1	X	-3.7	-3.7	0	0
5	SA2	X	-3.7	-3.7	0	0
6	SA3	X	-3.7	-3.7	0	0
7	BRACE1	X	-3.7	-3.7	0	0
8	BRACE2	X	-3.7	-3.7	0	0
9	BRACE3	X	-3.7	-3.7	0	0
10	GRATE1	X	-2.5	-2.5	0	0
11	GRATE2	X	-2.5	-2.5	0	0
12	GRATE3	X	-2.5	-2.5	0	0
13	GRATE4	X	-2.5	-2.5	0	0
14	GRATE5	X	-2.5	-2.5	0	0
15	GRATE6	X	-2.5	-2.5	0	0



Member Distributed Loads (BLC 23 : Wind on Ice (240 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
16	CORNER-PL1	X	-3.7	-3.7	0	0
17	CORNER-PL2	X	-3.7	-3.7	0	0
18	CORNER-PL3	X	-3.7	-3.7	0	0
19	HR1	X	-2.1	-2.1	0	0
20	HR2	X	-2.1	-2.1	0	0
21	HR3	X	-2.1	-2.1	0	0
22	FM1	Z	-4.4	-4.4	0	0
23	FM2	Z	-4.4	-4.4	0	0
24	FM3	Z	-4.4	-4.4	0	0
25	SA1	Z	-6.4	-6.4	0	0
26	SA2	Z	-6.4	-6.4	0	0
27	SA3	Z	-6.4	-6.4	0	0
28	BRACE1	Z	-6.4	-6.4	0	0
29	BRACE2	Z	-6.4	-6.4	0	0
30	BRACE3	Z	-6.4	-6.4	0	0
31	GRATE1	Z	-4.3	-4.3	0	0
32	GRATE2	Z	-4.3	-4.3	0	0
33	GRATE3	Z	-4.3	-4.3	0	0
34	GRATE4	Z	-4.3	-4.3	0	0
35	GRATE5	Z	-4.3	-4.3	0	0
36	GRATE6	Z	-4.3	-4.3	0	0
37	CORNER-PL1	Z	-6.4	-6.4	0	0
38	CORNER-PL2	Z	-6.4	-6.4	0	0
39	CORNER-PL3	Z	-6.4	-6.4	0	0
40	HR1	Z	-3.7	-3.7	0	0
41	HR2	Z	-3.7	-3.7	0	0
42	HR3	Z	-3.7	-3.7	0	0
43	MP1	X	-4.5	-4.5	%8.333	%86.111
44	MP2	X	-4.7	-4.7	%44.679	%96.606
45	MP3	X	-8.1	-8.1	0	%100
46	MP4	X	-4.5	-4.5	%8.333	%86.111
47	MP5	X	-4.7	-4.7	%44.679	%96.606
48	MP6	X	-8.1	-8.1	0	%100
49	MP7	X	-5.4	-5.4	%8.333	%86.111
50	MP8	X	-5.7	-5.7	%44.679	%96.606
51	MP9	X	-13.2	-13.2	0	%100
52	MP1	Z	-7.7	-7.7	%8.333	%86.111
53	MP2	Z	-8.2	-8.2	%44.679	%96.606
54	MP3	Z	-14	-14	0	%100
55	MP4	Z	-7.7	-7.7	%8.333	%86.111
56	MP5	Z	-8.2	-8.2	%44.679	%96.606
57	MP6	Z	-14	-14	0	%100
58	MP7	Z	-9.4	-9.4	%8.333	%86.111
59	MP8	Z	-9.9	-9.9	%44.679	%96.606
60	MP9	Z	-22.9	-22.9	0	%100

Member Distributed Loads (BLC 24 : Wind on Ice (270 deg))

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
1	FM1	X	0	0	0	0
2	FM2	X	0	0	0	0
3	FM3	X	0	0	0	0
4	SA1	X	0	0	0	0
5	SA2	X	0	0	0	0
6	SA3	X	0	0	0	0
7	BRACE1	X	0	0	0	0
8	BRACE2	X	0	0	0	0



Member Distributed Loads (BLC 24 : Wind on Ice (270 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
9	BRACE3	X	0	0	0	0
10	GRATE1	X	0	0	0	0
11	GRATE2	X	0	0	0	0
12	GRATE3	X	0	0	0	0
13	GRATE4	X	0	0	0	0
14	GRATE5	X	0	0	0	0
15	GRATE6	X	0	0	0	0
16	CORNER-PL1	X	0	0	0	0
17	CORNER-PL2	X	0	0	0	0
18	CORNER-PL3	X	0	0	0	0
19	HR1	X	0	0	0	0
20	HR2	X	0	0	0	0
21	HR3	X	0	0	0	0
22	FM1	Z	-5.1	-5.1	0	0
23	FM2	Z	-5.1	-5.1	0	0
24	FM3	Z	-5.1	-5.1	0	0
25	SA1	Z	-7.4	-7.4	0	0
26	SA2	Z	-7.4	-7.4	0	0
27	SA3	Z	-7.4	-7.4	0	0
28	BRACE1	Z	-7.4	-7.4	0	0
29	BRACE2	Z	-7.4	-7.4	0	0
30	BRACE3	Z	-7.4	-7.4	0	0
31	GRATE1	Z	-4.9	-4.9	0	0
32	GRATE2	Z	-4.9	-4.9	0	0
33	GRATE3	Z	-4.9	-4.9	0	0
34	GRATE4	Z	-4.9	-4.9	0	0
35	GRATE5	Z	-4.9	-4.9	0	0
36	GRATE6	Z	-4.9	-4.9	0	0
37	CORNER-PL1	Z	-7.4	-7.4	0	0
38	CORNER-PL2	Z	-7.4	-7.4	0	0
39	CORNER-PL3	Z	-7.4	-7.4	0	0
40	HR1	Z	-4.2	-4.2	0	0
41	HR2	Z	-4.2	-4.2	0	0
42	HR3	Z	-4.2	-4.2	0	0
43	MP1	X	0	0	0	0
44	MP2	X	0	0	0	0
45	MP3	X	0	0	0	0
46	MP4	X	0	0	0	0
47	MP5	X	0	0	0	0
48	MP6	X	0	0	0	0
49	MP7	X	0	0	0	0
50	MP8	X	0	0	0	0
51	MP9	X	0	0	0	0
52	MP1	Z	-8.3	-8.3	%8.333	%86.111
53	MP2	Z	-8.9	-8.9	%44.679	%96.606
54	MP3	Z	-12.8	-12.8	0	%100
55	MP4	Z	-10.2	-10.2	%8.333	%86.111
56	MP5	Z	-10.8	-10.8	%44.679	%96.606
57	MP6	Z	-23	-23	0	%100
58	MP7	Z	-10.2	-10.2	%8.333	%86.111
59	MP8	Z	-10.8	-10.8	%44.679	%96.606
60	MP9	Z	-23	-23	0	%100

Member Distributed Loads (BLC 25 : Wind on Ice (300 deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
1	FM1	X	2.5	2.5	0	0



Member Distributed Loads (BLC 25 : Wind on Ice (300 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]	
2	FM2	X	2.5	2.5	0	0
3	FM3	X	2.5	2.5	0	0
4	SA1	X	3.7	3.7	0	0
5	SA2	X	3.7	3.7	0	0
6	SA3	X	3.7	3.7	0	0
7	BRACE1	X	3.7	3.7	0	0
8	BRACE2	X	3.7	3.7	0	0
9	BRACE3	X	3.7	3.7	0	0
10	GRATE1	X	2.5	2.5	0	0
11	GRATE2	X	2.5	2.5	0	0
12	GRATE3	X	2.5	2.5	0	0
13	GRATE4	X	2.5	2.5	0	0
14	GRATE5	X	2.5	2.5	0	0
15	GRATE6	X	2.5	2.5	0	0
16	CORNER-PL1	X	3.7	3.7	0	0
17	CORNER-PL2	X	3.7	3.7	0	0
18	CORNER-PL3	X	3.7	3.7	0	0
19	HR1	X	2.1	2.1	0	0
20	HR2	X	2.1	2.1	0	0
21	HR3	X	2.1	2.1	0	0
22	FM1	Z	-4.4	-4.4	0	0
23	FM2	Z	-4.4	-4.4	0	0
24	FM3	Z	-4.4	-4.4	0	0
25	SA1	Z	-6.4	-6.4	0	0
26	SA2	Z	-6.4	-6.4	0	0
27	SA3	Z	-6.4	-6.4	0	0
28	BRACE1	Z	-6.4	-6.4	0	0
29	BRACE2	Z	-6.4	-6.4	0	0
30	BRACE3	Z	-6.4	-6.4	0	0
31	GRATE1	Z	-4.3	-4.3	0	0
32	GRATE2	Z	-4.3	-4.3	0	0
33	GRATE3	Z	-4.3	-4.3	0	0
34	GRATE4	Z	-4.3	-4.3	0	0
35	GRATE5	Z	-4.3	-4.3	0	0
36	GRATE6	Z	-4.3	-4.3	0	0
37	CORNER-PL1	Z	-6.4	-6.4	0	0
38	CORNER-PL2	Z	-6.4	-6.4	0	0
39	CORNER-PL3	Z	-6.4	-6.4	0	0
40	HR1	Z	-3.7	-3.7	0	0
41	HR2	Z	-3.7	-3.7	0	0
42	HR3	Z	-3.7	-3.7	0	0
43	MP1	X	4.5	4.5	%8.333	%86.111
44	MP2	X	4.7	4.7	%44.679	%96.606
45	MP3	X	8.1	8.1	0	%100
46	MP4	X	5.4	5.4	%8.333	%86.111
47	MP5	X	5.7	5.7	%44.679	%96.606
48	MP6	X	13.2	13.2	0	%100
49	MP7	X	4.5	4.5	%8.333	%86.111
50	MP8	X	4.7	4.7	%44.679	%96.606
51	MP9	X	8.1	8.1	0	%100
52	MP1	Z	-7.7	-7.7	%8.333	%86.111
53	MP2	Z	-8.2	-8.2	%44.679	%96.606
54	MP3	Z	-14	-14	0	%100
55	MP4	Z	-9.4	-9.4	%8.333	%86.111
56	MP5	Z	-9.9	-9.9	%44.679	%96.606
57	MP6	Z	-22.9	-22.9	0	%100
58	MP7	Z	-7.7	-7.7	%8.333	%86.111



Member Distributed Loads (BLC 25 : Wind on Ice (300 deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
59	MP8	Z	-8.2	-8.2	%44.679	%96.606
60	MP9	Z	-14	-14	0	%100

Member Distributed Loads (BLC 26 : Wind on Ice (330 deg))

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	FM1	X	4.4	4.4	0	0
2	FM2	X	4.4	4.4	0	0
3	FM3	X	4.4	4.4	0	0
4	SA1	X	6.4	6.4	0	0
5	SA2	X	6.4	6.4	0	0
6	SA3	X	6.4	6.4	0	0
7	BRACE1	X	6.4	6.4	0	0
8	BRACE2	X	6.4	6.4	0	0
9	BRACE3	X	6.4	6.4	0	0
10	GRATE1	X	4.3	4.3	0	0
11	GRATE2	X	4.3	4.3	0	0
12	GRATE3	X	4.3	4.3	0	0
13	GRATE4	X	4.3	4.3	0	0
14	GRATE5	X	4.3	4.3	0	0
15	GRATE6	X	4.3	4.3	0	0
16	CORNER-PL1	X	6.4	6.4	0	0
17	CORNER-PL2	X	6.4	6.4	0	0
18	CORNER-PL3	X	6.4	6.4	0	0
19	HR1	X	3.7	3.7	0	0
20	HR2	X	3.7	3.7	0	0
21	HR3	X	3.7	3.7	0	0
22	FM1	Z	-2.5	-2.5	0	0
23	FM2	Z	-2.5	-2.5	0	0
24	FM3	Z	-2.5	-2.5	0	0
25	SA1	Z	-3.7	-3.7	0	0
26	SA2	Z	-3.7	-3.7	0	0
27	SA3	Z	-3.7	-3.7	0	0
28	BRACE1	Z	-3.7	-3.7	0	0
29	BRACE2	Z	-3.7	-3.7	0	0
30	BRACE3	Z	-3.7	-3.7	0	0
31	GRATE1	Z	-2.5	-2.5	0	0
32	GRATE2	Z	-2.5	-2.5	0	0
33	GRATE3	Z	-2.5	-2.5	0	0
34	GRATE4	Z	-2.5	-2.5	0	0
35	GRATE5	Z	-2.5	-2.5	0	0
36	GRATE6	Z	-2.5	-2.5	0	0
37	CORNER-PL1	Z	-3.7	-3.7	0	0
38	CORNER-PL2	Z	-3.7	-3.7	0	0
39	CORNER-PL3	Z	-3.7	-3.7	0	0
40	HR1	Z	-2.1	-2.1	0	0
41	HR2	Z	-2.1	-2.1	0	0
42	HR3	Z	-2.1	-2.1	0	0
43	MP1	X	8.9	8.9	%8.333	%86.111
44	MP2	X	9.4	9.4	%44.679	%96.606
45	MP3	X	19.9	19.9	0	%100
46	MP4	X	8.9	8.9	%8.333	%86.111
47	MP5	X	9.4	9.4	%44.679	%96.606
48	MP6	X	19.9	19.9	0	%100
49	MP7	X	7.1	7.1	%8.333	%86.111
50	MP8	X	7.7	7.7	%44.679	%96.606
51	MP9	X	11	11	0	%100



Member Distributed Loads (BLC 26 : Wind on Ice (330 deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
52	MP1	Z	-5.1	-5.1	%8.333 %86.111
53	MP2	Z	-5.4	-5.4	%44.679 %96.606
54	MP3	Z	-11.5	-11.5	0 %100
55	MP4	Z	-5.1	-5.1	%8.333 %86.111
56	MP5	Z	-5.4	-5.4	%44.679 %96.606
57	MP6	Z	-11.5	-11.5	0 %100
58	MP7	Z	-4.1	-4.1	%8.333 %86.111
59	MP8	Z	-4.4	-4.4	%44.679 %96.606
60	MP9	Z	-6.4	-6.4	0 %100

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.	BLC Fact.
1	1.4D	Yes	Y	1	1.4									
2	1.2D + 1.0...	Yes	Y	1	1.2	2	1							
3	1.2D + 1.0...	Yes	Y	1	1.2	3	1							
4	1.2D + 1.0...	Yes	Y	1	1.2	4	1							
5	1.2D + 1.0...	Yes	Y	1	1.2	5	1							
6	1.2D + 1.0...	Yes	Y	1	1.2	6	1							
7	1.2D + 1.0...	Yes	Y	1	1.2	7	1							
8	1.2D + 1.0...	Yes	Y	1	1.2	8	1							
9	1.2D + 1.0...	Yes	Y	1	1.2	9	1							
10	1.2D + 1.0...	Yes	Y	1	1.2	10	1							
11	1.2D + 1.0...	Yes	Y	1	1.2	11	1							
12	1.2D + 1.0...	Yes	Y	1	1.2	12	1							
13	1.2D + 1.0...	Yes	Y	1	1.2	13	1							
14	1.2D + Di ...	Yes	Y	1	1.2	14	1	15	1					
15	1.2D + Di ...	Yes	Y	1	1.2	14	1	16	1					
16	1.2D + Di ...	Yes	Y	1	1.2	14	1	17	1					
17	1.2D + Di ...	Yes	Y	1	1.2	14	1	18	1					
18	1.2D + Di ...	Yes	Y	1	1.2	14	1	19	1					
19	1.2D + Di ...	Yes	Y	1	1.2	14	1	20	1					
20	1.2D + Di ...	Yes	Y	1	1.2	14	1	21	1					
21	1.2D + Di ...	Yes	Y	1	1.2	14	1	22	1					
22	1.2D + Di ...	Yes	Y	1	1.2	14	1	23	1					
23	1.2D + Di ...	Yes	Y	1	1.2	14	1	24	1					
24	1.2D + Di ...	Yes	Y	1	1.2	14	1	25	1					
25	1.2D + Di ...	Yes	Y	1	1.2	14	1	26	1					
26	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	27	.096					
27	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	28	.096					
28	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	29	.096					
29	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	30	.096					
30	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	31	.096					
31	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	32	.096					
32	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	33	.096					
33	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	34	.096					
34	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	35	.096					
35	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	36	.096					
36	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	37	.096					
37	1.2D + 1.0...	Yes	Y	1	1.2	1	.038	38	.096					
38	1.2D + 1.5...	Yes	Y	1	1.2	39	1.5	2	.053					
39	1.2D + 1.5...	Yes	Y	1	1.2	39	1.5	3	.053					
40	1.2D + 1.5...	Yes	Y	1	1.2	39	1.5	4	.053					
41	1.2D + 1.5...	Yes	Y	1	1.2	39	1.5	5	.053					
42	1.2D + 1.5...	Yes	Y	1	1.2	39	1.5	6	.053					
43	1.2D + 1.5...	Yes	Y	1	1.2	39	1.5	7	.053					



Company : ETS
 Designer : TSB
 Job Number : ETS JOB NO. 192562.14
 Model Name : 876322 - TARTAGLIA PROPERTY_Mount Analysis

Apr 29, 2019
 2:53 PM
 Checked By: JAA

Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
44	1.2D + 1.5..	Yes	Y		1	1.2	39	1.5	8	.053			
45	1.2D + 1.5..	Yes	Y		1	1.2	39	1.5	9	.053			
46	1.2D + 1.5..	Yes	Y		1	1.2	39	1.5	10	.053			
47	1.2D + 1.5..	Yes	Y		1	1.2	39	1.5	11	.053			
48	1.2D + 1.5..	Yes	Y		1	1.2	39	1.5	12	.053			
49	1.2D + 1.5..	Yes	Y		1	1.2	39	1.5	13	.053			
50	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	2	.053			
51	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	3	.053			
52	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	4	.053			
53	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	5	.053			
54	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	6	.053			
55	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	7	.053			
56	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	8	.053			
57	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	9	.053			
58	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	10	.053			
59	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	11	.053			
60	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	12	.053			
61	1.2D + 1.5..	Yes	Y		1	1.2	40	1.5	13	.053			
62	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	2	.053			
63	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	3	.053			
64	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	4	.053			
65	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	5	.053			
66	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	6	.053			
67	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	7	.053			
68	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	8	.053			
69	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	9	.053			
70	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	10	.053			
71	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	11	.053			
72	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	12	.053			
73	1.2D + 1.5..	Yes	Y		1	1.2	41	1.5	13	.053			
74	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	2	.053			
75	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	3	.053			
76	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	4	.053			
77	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	5	.053			
78	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	6	.053			
79	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	7	.053			
80	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	8	.053			
81	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	9	.053			
82	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	10	.053			
83	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	11	.053			
84	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	12	.053			
85	1.2D + 1.5..	Yes	Y		1	1.2	42	1.5	13	.053			
86	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	2	.053			
87	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	3	.053			
88	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	4	.053			
89	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	5	.053			
90	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	6	.053			
91	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	7	.053			
92	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	8	.053			
93	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	9	.053			
94	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	10	.053			
95	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	11	.053			
96	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	12	.053			
97	1.2D + 1.5..	Yes	Y		1	1.2	43	1.5	13	.053			
98	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	2	.053			
99	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	3	.053			
100	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	4	.053			



Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
101	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	5	.053			
102	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	6	.053			
103	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	7	.053			
104	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	8	.053			
105	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	9	.053			
106	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	10	.053			
107	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	11	.053			
108	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	12	.053			
109	1.2D + 1.5..	Yes	Y		1	1.2	44	1.5	13	.053			
110	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	2	.053			
111	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	3	.053			
112	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	4	.053			
113	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	5	.053			
114	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	6	.053			
115	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	7	.053			
116	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	8	.053			
117	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	9	.053			
118	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	10	.053			
119	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	11	.053			
120	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	12	.053			
121	1.2D + 1.5..	Yes	Y		1	1.2	45	1.5	13	.053			
122	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	2	.053			
123	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	3	.053			
124	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	4	.053			
125	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	5	.053			
126	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	6	.053			
127	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	7	.053			
128	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	8	.053			
129	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	9	.053			
130	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	10	.053			
131	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	11	.053			
132	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	12	.053			
133	1.2D + 1.5..	Yes	Y		1	1.2	46	1.5	13	.053			
134	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	2	.053			
135	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	3	.053			
136	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	4	.053			
137	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	5	.053			
138	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	6	.053			
139	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	7	.053			
140	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	8	.053			
141	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	9	.053			
142	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	10	.053			
143	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	11	.053			
144	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	12	.053			
145	1.2D + 1.5..	Yes	Y		1	1.2	47	1.5	13	.053			
146	1.2D + 1.5..		Y		1	1.2	48	1.5	2	.053			
147	1.2D + 1.5..		Y		1	1.2	48	1.5	3	.053			
148	1.2D + 1.5..		Y		1	1.2	48	1.5	4	.053			
149	1.2D + 1.5..		Y		1	1.2	48	1.5	5	.053			
150	1.2D + 1.5..		Y		1	1.2	48	1.5	6	.053			
151	1.2D + 1.5..		Y		1	1.2	48	1.5	7	.053			
152	1.2D + 1.5..		Y		1	1.2	48	1.5	8	.053			
153	1.2D + 1.5..		Y		1	1.2	48	1.5	9	.053			
154	1.2D + 1.5..		Y		1	1.2	48	1.5	10	.053			
155	1.2D + 1.5..		Y		1	1.2	48	1.5	11	.053			
156	1.2D + 1.5..		Y		1	1.2	48	1.5	12	.053			
157	1.2D + 1.5..		Y		1	1.2	48	1.5	13	.053			



Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
158	1.2D + 1.5...		Y		1	1.2	49	1.5	2	.053			
159	1.2D + 1.5...		Y		1	1.2	49	1.5	3	.053			
160	1.2D + 1.5...		Y		1	1.2	49	1.5	4	.053			
161	1.2D + 1.5...		Y		1	1.2	49	1.5	5	.053			
162	1.2D + 1.5...		Y		1	1.2	49	1.5	6	.053			
163	1.2D + 1.5...		Y		1	1.2	49	1.5	7	.053			
164	1.2D + 1.5...		Y		1	1.2	49	1.5	8	.053			
165	1.2D + 1.5...		Y		1	1.2	49	1.5	9	.053			
166	1.2D + 1.5...		Y		1	1.2	49	1.5	10	.053			
167	1.2D + 1.5...		Y		1	1.2	49	1.5	11	.053			
168	1.2D + 1.5...		Y		1	1.2	49	1.5	12	.053			
169	1.2D + 1.5...		Y		1	1.2	49	1.5	13	.053			
170	1.2D + 1.5...		Y		1	1.2	50	1.5	2	.053			
171	1.2D + 1.5...		Y		1	1.2	50	1.5	3	.053			
172	1.2D + 1.5...		Y		1	1.2	50	1.5	4	.053			
173	1.2D + 1.5...		Y		1	1.2	50	1.5	5	.053			
174	1.2D + 1.5...		Y		1	1.2	50	1.5	6	.053			
175	1.2D + 1.5...		Y		1	1.2	50	1.5	7	.053			
176	1.2D + 1.5...		Y		1	1.2	50	1.5	8	.053			
177	1.2D + 1.5...		Y		1	1.2	50	1.5	9	.053			
178	1.2D + 1.5...		Y		1	1.2	50	1.5	10	.053			
179	1.2D + 1.5...		Y		1	1.2	50	1.5	11	.053			
180	1.2D + 1.5...		Y		1	1.2	50	1.5	12	.053			
181	1.2D + 1.5...		Y		1	1.2	50	1.5	13	.053			
182	1.2D + 1.5...		Y		1	1.2	51	1.5	2	.053			
183	1.2D + 1.5...		Y		1	1.2	51	1.5	3	.053			
184	1.2D + 1.5...		Y		1	1.2	51	1.5	4	.053			
185	1.2D + 1.5...		Y		1	1.2	51	1.5	5	.053			
186	1.2D + 1.5...		Y		1	1.2	51	1.5	6	.053			
187	1.2D + 1.5...		Y		1	1.2	51	1.5	7	.053			
188	1.2D + 1.5...		Y		1	1.2	51	1.5	8	.053			
189	1.2D + 1.5...		Y		1	1.2	51	1.5	9	.053			
190	1.2D + 1.5...		Y		1	1.2	51	1.5	10	.053			
191	1.2D + 1.5...		Y		1	1.2	51	1.5	11	.053			
192	1.2D + 1.5...		Y		1	1.2	51	1.5	12	.053			
193	1.2D + 1.5...		Y		1	1.2	51	1.5	13	.053			
194	1.2D + 1.5...		Y		1	1.2	52	1.5	2	.053			
195	1.2D + 1.5...		Y		1	1.2	52	1.5	3	.053			
196	1.2D + 1.5...		Y		1	1.2	52	1.5	4	.053			
197	1.2D + 1.5...		Y		1	1.2	52	1.5	5	.053			
198	1.2D + 1.5...		Y		1	1.2	52	1.5	6	.053			
199	1.2D + 1.5...		Y		1	1.2	52	1.5	7	.053			
200	1.2D + 1.5...		Y		1	1.2	52	1.5	8	.053			
201	1.2D + 1.5...		Y		1	1.2	52	1.5	9	.053			
202	1.2D + 1.5...		Y		1	1.2	52	1.5	10	.053			
203	1.2D + 1.5...		Y		1	1.2	52	1.5	11	.053			
204	1.2D + 1.5...		Y		1	1.2	52	1.5	12	.053			
205	1.2D + 1.5...		Y		1	1.2	52	1.5	13	.053			
206	1.2D + 1.5...		Y		1	1.2	53	1.5	2	.053			
207	1.2D + 1.5...		Y		1	1.2	53	1.5	3	.053			
208	1.2D + 1.5...		Y		1	1.2	53	1.5	4	.053			
209	1.2D + 1.5...		Y		1	1.2	53	1.5	5	.053			
210	1.2D + 1.5...		Y		1	1.2	53	1.5	6	.053			
211	1.2D + 1.5...		Y		1	1.2	53	1.5	7	.053			
212	1.2D + 1.5...		Y		1	1.2	53	1.5	8	.053			
213	1.2D + 1.5...		Y		1	1.2	53	1.5	9	.053			
214	1.2D + 1.5...		Y		1	1.2	53	1.5	10	.053			



Company : ETS
 Designer : TSB
 Job Number : ETS JOB NO. 192562.14
 Model Name : 876322 - TARTAGLIA PROPERTY_Mount Analysis

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Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
215	1.2D + 1.5...		Y		1	1.2	53	1.5	11	.053				
216	1.2D + 1.5...		Y		1	1.2	53	1.5	12	.053				
217	1.2D + 1.5...		Y		1	1.2	53	1.5	13	.053				
218	1.2D + 1.5...		Y		1	1.2	54	1.5	2	.053				
219	1.2D + 1.5...		Y		1	1.2	54	1.5	3	.053				
220	1.2D + 1.5...		Y		1	1.2	54	1.5	4	.053				
221	1.2D + 1.5...		Y		1	1.2	54	1.5	5	.053				
222	1.2D + 1.5...		Y		1	1.2	54	1.5	6	.053				
223	1.2D + 1.5...		Y		1	1.2	54	1.5	7	.053				
224	1.2D + 1.5...		Y		1	1.2	54	1.5	8	.053				
225	1.2D + 1.5...		Y		1	1.2	54	1.5	9	.053				
226	1.2D + 1.5...		Y		1	1.2	54	1.5	10	.053				
227	1.2D + 1.5...		Y		1	1.2	54	1.5	11	.053				
228	1.2D + 1.5...		Y		1	1.2	54	1.5	12	.053				
229	1.2D + 1.5...		Y		1	1.2	54	1.5	13	.053				
230	1.2D + 1.5...		Y		1	1.2	55	1.5	2	.053				
231	1.2D + 1.5...		Y		1	1.2	55	1.5	3	.053				
232	1.2D + 1.5...		Y		1	1.2	55	1.5	4	.053				
233	1.2D + 1.5...		Y		1	1.2	55	1.5	5	.053				
234	1.2D + 1.5...		Y		1	1.2	55	1.5	6	.053				
235	1.2D + 1.5...		Y		1	1.2	55	1.5	7	.053				
236	1.2D + 1.5...		Y		1	1.2	55	1.5	8	.053				
237	1.2D + 1.5...		Y		1	1.2	55	1.5	9	.053				
238	1.2D + 1.5...		Y		1	1.2	55	1.5	10	.053				
239	1.2D + 1.5...		Y		1	1.2	55	1.5	11	.053				
240	1.2D + 1.5...		Y		1	1.2	55	1.5	12	.053				
241	1.2D + 1.5...		Y		1	1.2	55	1.5	13	.053				
242	1.2D + 1.5...		Y		1	1.2	56	1.5	2	.053				
243	1.2D + 1.5...		Y		1	1.2	56	1.5	3	.053				
244	1.2D + 1.5...		Y		1	1.2	56	1.5	4	.053				
245	1.2D + 1.5...		Y		1	1.2	56	1.5	5	.053				
246	1.2D + 1.5...		Y		1	1.2	56	1.5	6	.053				
247	1.2D + 1.5...		Y		1	1.2	56	1.5	7	.053				
248	1.2D + 1.5...		Y		1	1.2	56	1.5	8	.053				
249	1.2D + 1.5...		Y		1	1.2	56	1.5	9	.053				
250	1.2D + 1.5...		Y		1	1.2	56	1.5	10	.053				
251	1.2D + 1.5...		Y		1	1.2	56	1.5	11	.053				
252	1.2D + 1.5...		Y		1	1.2	56	1.5	12	.053				
253	1.2D + 1.5...		Y		1	1.2	56	1.5	13	.053				
254	1.2D + 1.5...		Y		1	1.2	57	1.5	2	.053				
255	1.2D + 1.5...		Y		1	1.2	57	1.5	3	.053				
256	1.2D + 1.5...		Y		1	1.2	57	1.5	4	.053				
257	1.2D + 1.5...		Y		1	1.2	57	1.5	5	.053				
258	1.2D + 1.5...		Y		1	1.2	57	1.5	6	.053				
259	1.2D + 1.5...		Y		1	1.2	57	1.5	7	.053				
260	1.2D + 1.5...		Y		1	1.2	57	1.5	8	.053				
261	1.2D + 1.5...		Y		1	1.2	57	1.5	9	.053				
262	1.2D + 1.5...		Y		1	1.2	57	1.5	10	.053				
263	1.2D + 1.5...		Y		1	1.2	57	1.5	11	.053				
264	1.2D + 1.5...		Y		1	1.2	57	1.5	12	.053				
265	1.2D + 1.5...		Y		1	1.2	57	1.5	13	.053				
266	1.2D + 1.5...		Y		1	1.2	58	1.5	2	.053				
267	1.2D + 1.5...		Y		1	1.2	58	1.5	3	.053				
268	1.2D + 1.5...		Y		1	1.2	58	1.5	4	.053				
269	1.2D + 1.5...		Y		1	1.2	58	1.5	5	.053				
270	1.2D + 1.5...		Y		1	1.2	58	1.5	6	.053				
271	1.2D + 1.5...		Y		1	1.2	58	1.5	7	.053				



Company : ETS
 Designer : TSB
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Load Combinations (Continued)

	Description	Sol.	PD.	SR.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
272	1.2D + 1.5...		Y		1	1.2	58	1.5	8	.053			
273	1.2D + 1.5...		Y		1	1.2	58	1.5	9	.053			
274	1.2D + 1.5...		Y		1	1.2	58	1.5	10	.053			
275	1.2D + 1.5...		Y		1	1.2	58	1.5	11	.053			
276	1.2D + 1.5...		Y		1	1.2	58	1.5	12	.053			
277	1.2D + 1.5...		Y		1	1.2	58	1.5	13	.053			
278	1.2D + 1.5...		Y		1	1.2	59	1.5	2	.053			
279	1.2D + 1.5...		Y		1	1.2	59	1.5	3	.053			
280	1.2D + 1.5...		Y		1	1.2	59	1.5	4	.053			
281	1.2D + 1.5...		Y		1	1.2	59	1.5	5	.053			
282	1.2D + 1.5...		Y		1	1.2	59	1.5	6	.053			
283	1.2D + 1.5...		Y		1	1.2	59	1.5	7	.053			
284	1.2D + 1.5...		Y		1	1.2	59	1.5	8	.053			
285	1.2D + 1.5...		Y		1	1.2	59	1.5	9	.053			
286	1.2D + 1.5...		Y		1	1.2	59	1.5	10	.053			
287	1.2D + 1.5...		Y		1	1.2	59	1.5	11	.053			
288	1.2D + 1.5...		Y		1	1.2	59	1.5	12	.053			
289	1.2D + 1.5...		Y		1	1.2	59	1.5	13	.053			
290	1.2D + 1.5...		Y		1	1.2	60	1.5	2	.053			
291	1.2D + 1.5...		Y		1	1.2	60	1.5	3	.053			
292	1.2D + 1.5...		Y		1	1.2	60	1.5	4	.053			
293	1.2D + 1.5...		Y		1	1.2	60	1.5	5	.053			
294	1.2D + 1.5...		Y		1	1.2	60	1.5	6	.053			
295	1.2D + 1.5...		Y		1	1.2	60	1.5	7	.053			
296	1.2D + 1.5...		Y		1	1.2	60	1.5	8	.053			
297	1.2D + 1.5...		Y		1	1.2	60	1.5	9	.053			
298	1.2D + 1.5...		Y		1	1.2	60	1.5	10	.053			
299	1.2D + 1.5...		Y		1	1.2	60	1.5	11	.053			
300	1.2D + 1.5...		Y		1	1.2	60	1.5	12	.053			
301	1.2D + 1.5...		Y		1	1.2	60	1.5	13	.053			
302	1.2D + 1.5...		Y		1	1.2	61	1.5	2	.053			
303	1.2D + 1.5...		Y		1	1.2	61	1.5	3	.053			
304	1.2D + 1.5...		Y		1	1.2	61	1.5	4	.053			
305	1.2D + 1.5...		Y		1	1.2	61	1.5	5	.053			
306	1.2D + 1.5...		Y		1	1.2	61	1.5	6	.053			
307	1.2D + 1.5...		Y		1	1.2	61	1.5	7	.053			
308	1.2D + 1.5...		Y		1	1.2	61	1.5	8	.053			
309	1.2D + 1.5...		Y		1	1.2	61	1.5	9	.053			
310	1.2D + 1.5...		Y		1	1.2	61	1.5	10	.053			
311	1.2D + 1.5...		Y		1	1.2	61	1.5	11	.053			
312	1.2D + 1.5...		Y		1	1.2	61	1.5	12	.053			
313	1.2D + 1.5...		Y		1	1.2	61	1.5	13	.053			
314	1.2D + 1.5...		Y		1	1.2	62	1.5	2	.053			
315	1.2D + 1.5...		Y		1	1.2	62	1.5	3	.053			
316	1.2D + 1.5...		Y		1	1.2	62	1.5	4	.053			
317	1.2D + 1.5...		Y		1	1.2	62	1.5	5	.053			
318	1.2D + 1.5...		Y		1	1.2	62	1.5	6	.053			
319	1.2D + 1.5...		Y		1	1.2	62	1.5	7	.053			
320	1.2D + 1.5...		Y		1	1.2	62	1.5	8	.053			
321	1.2D + 1.5...		Y		1	1.2	62	1.5	9	.053			
322	1.2D + 1.5...		Y		1	1.2	62	1.5	10	.053			
323	1.2D + 1.5...		Y		1	1.2	62	1.5	11	.053			
324	1.2D + 1.5...		Y		1	1.2	62	1.5	12	.053			
325	1.2D + 1.5...		Y		1	1.2	62	1.5	13	.053			
326	1.2D + 1.5...		Y		1	1.2	63	1.5	2	.053			
327	1.2D + 1.5...		Y		1	1.2	63	1.5	3	.053			
328	1.2D + 1.5...		Y		1	1.2	63	1.5	4	.053			



Company : ETS
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 Job Number : ETS JOB NO. 192562.14
 Model Name : 876322 - TARTAGLIA PROPERTY_Mount Analysis

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Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
329	1.2D + 1.5...	Y		1	1.2	63	1.5	5	.053				
330	1.2D + 1.5...	Y		1	1.2	63	1.5	6	.053				
331	1.2D + 1.5...	Y		1	1.2	63	1.5	7	.053				
332	1.2D + 1.5...	Y		1	1.2	63	1.5	8	.053				
333	1.2D + 1.5...	Y		1	1.2	63	1.5	9	.053				
334	1.2D + 1.5...	Y		1	1.2	63	1.5	10	.053				
335	1.2D + 1.5...	Y		1	1.2	63	1.5	11	.053				
336	1.2D + 1.5...	Y		1	1.2	63	1.5	12	.053				
337	1.2D + 1.5...	Y		1	1.2	63	1.5	13	.053				
338	1.2D + 1.5...	Y		1	1.2	64	1.5	2	.053				
339	1.2D + 1.5...	Y		1	1.2	64	1.5	3	.053				
340	1.2D + 1.5...	Y		1	1.2	64	1.5	4	.053				
341	1.2D + 1.5...	Y		1	1.2	64	1.5	5	.053				
342	1.2D + 1.5...	Y		1	1.2	64	1.5	6	.053				
343	1.2D + 1.5...	Y		1	1.2	64	1.5	7	.053				
344	1.2D + 1.5...	Y		1	1.2	64	1.5	8	.053				
345	1.2D + 1.5...	Y		1	1.2	64	1.5	9	.053				
346	1.2D + 1.5...	Y		1	1.2	64	1.5	10	.053				
347	1.2D + 1.5...	Y		1	1.2	64	1.5	11	.053				
348	1.2D + 1.5...	Y		1	1.2	64	1.5	12	.053				
349	1.2D + 1.5...	Y		1	1.2	64	1.5	13	.053				
350	1.2D + 1.5...	Y		1	1.2	65	1.5	2	.053				
351	1.2D + 1.5...	Y		1	1.2	65	1.5	3	.053				
352	1.2D + 1.5...	Y		1	1.2	65	1.5	4	.053				
353	1.2D + 1.5...	Y		1	1.2	65	1.5	5	.053				
354	1.2D + 1.5...	Y		1	1.2	65	1.5	6	.053				
355	1.2D + 1.5...	Y		1	1.2	65	1.5	7	.053				
356	1.2D + 1.5...	Y		1	1.2	65	1.5	8	.053				
357	1.2D + 1.5...	Y		1	1.2	65	1.5	9	.053				
358	1.2D + 1.5...	Y		1	1.2	65	1.5	10	.053				
359	1.2D + 1.5...	Y		1	1.2	65	1.5	11	.053				
360	1.2D + 1.5...	Y		1	1.2	65	1.5	12	.053				
361	1.2D + 1.5...	Y		1	1.2	65	1.5	13	.053				
362	1.2D + 1.5...	Y		1	1.2	66	1.5	2	.053				
363	1.2D + 1.5...	Y		1	1.2	66	1.5	3	.053				
364	1.2D + 1.5...	Y		1	1.2	66	1.5	4	.053				
365	1.2D + 1.5...	Y		1	1.2	66	1.5	5	.053				
366	1.2D + 1.5...	Y		1	1.2	66	1.5	6	.053				
367	1.2D + 1.5...	Y		1	1.2	66	1.5	7	.053				
368	1.2D + 1.5...	Y		1	1.2	66	1.5	8	.053				
369	1.2D + 1.5...	Y		1	1.2	66	1.5	9	.053				
370	1.2D + 1.5...	Y		1	1.2	66	1.5	10	.053				
371	1.2D + 1.5...	Y		1	1.2	66	1.5	11	.053				
372	1.2D + 1.5...	Y		1	1.2	66	1.5	12	.053				
373	1.2D + 1.5...	Y		1	1.2	66	1.5	13	.053				
374	1.2D + 1.5...	Y		1	1.2	67	1.5	2	.053				
375	1.2D + 1.5...	Y		1	1.2	67	1.5	3	.053				
376	1.2D + 1.5...	Y		1	1.2	67	1.5	4	.053				
377	1.2D + 1.5...	Y		1	1.2	67	1.5	5	.053				
378	1.2D + 1.5...	Y		1	1.2	67	1.5	6	.053				
379	1.2D + 1.5...	Y		1	1.2	67	1.5	7	.053				
380	1.2D + 1.5...	Y		1	1.2	67	1.5	8	.053				
381	1.2D + 1.5...	Y		1	1.2	67	1.5	9	.053				
382	1.2D + 1.5...	Y		1	1.2	67	1.5	10	.053				
383	1.2D + 1.5...	Y		1	1.2	67	1.5	11	.053				
384	1.2D + 1.5...	Y		1	1.2	67	1.5	12	.053				
385	1.2D + 1.5...	Y		1	1.2	67	1.5	13	.053				



Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
386	1.2D + 1.5...	Y		1	1.2	68	1.5	2	.053				
387	1.2D + 1.5...	Y		1	1.2	68	1.5	3	.053				
388	1.2D + 1.5...	Y		1	1.2	68	1.5	4	.053				
389	1.2D + 1.5...	Y		1	1.2	68	1.5	5	.053				
390	1.2D + 1.5...	Y		1	1.2	68	1.5	6	.053				
391	1.2D + 1.5...	Y		1	1.2	68	1.5	7	.053				
392	1.2D + 1.5...	Y		1	1.2	68	1.5	8	.053				
393	1.2D + 1.5...	Y		1	1.2	68	1.5	9	.053				
394	1.2D + 1.5...	Y		1	1.2	68	1.5	10	.053				
395	1.2D + 1.5...	Y		1	1.2	68	1.5	11	.053				
396	1.2D + 1.5...	Y		1	1.2	68	1.5	12	.053				
397	1.2D + 1.5...	Y		1	1.2	68	1.5	13	.053				
398	1.2D + 1.5...	Y		1	1.2	69	1.5	2	.053				
399	1.2D + 1.5...	Y		1	1.2	69	1.5	3	.053				
400	1.2D + 1.5...	Y		1	1.2	69	1.5	4	.053				
401	1.2D + 1.5...	Y		1	1.2	69	1.5	5	.053				
402	1.2D + 1.5...	Y		1	1.2	69	1.5	6	.053				
403	1.2D + 1.5...	Y		1	1.2	69	1.5	7	.053				
404	1.2D + 1.5...	Y		1	1.2	69	1.5	8	.053				
405	1.2D + 1.5...	Y		1	1.2	69	1.5	9	.053				
406	1.2D + 1.5...	Y		1	1.2	69	1.5	10	.053				
407	1.2D + 1.5...	Y		1	1.2	69	1.5	11	.053				
408	1.2D + 1.5...	Y		1	1.2	69	1.5	12	.053				
409	1.2D + 1.5...	Y		1	1.2	69	1.5	13	.053				
410	1.2D + 1.5...	Y		1	1.2	70	1.5	2	.053				
411	1.2D + 1.5...	Y		1	1.2	70	1.5	3	.053				
412	1.2D + 1.5...	Y		1	1.2	70	1.5	4	.053				
413	1.2D + 1.5...	Y		1	1.2	70	1.5	5	.053				
414	1.2D + 1.5...	Y		1	1.2	70	1.5	6	.053				
415	1.2D + 1.5...	Y		1	1.2	70	1.5	7	.053				
416	1.2D + 1.5...	Y		1	1.2	70	1.5	8	.053				
417	1.2D + 1.5...	Y		1	1.2	70	1.5	9	.053				
418	1.2D + 1.5...	Y		1	1.2	70	1.5	10	.053				
419	1.2D + 1.5...	Y		1	1.2	70	1.5	11	.053				
420	1.2D + 1.5...	Y		1	1.2	70	1.5	12	.053				
421	1.2D + 1.5...	Y		1	1.2	70	1.5	13	.053				
422	1.2D + 1.5...	Y		1	1.2	71	1.5	2	.053				
423	1.2D + 1.5...	Y		1	1.2	71	1.5	3	.053				
424	1.2D + 1.5...	Y		1	1.2	71	1.5	4	.053				
425	1.2D + 1.5...	Y		1	1.2	71	1.5	5	.053				
426	1.2D + 1.5...	Y		1	1.2	71	1.5	6	.053				
427	1.2D + 1.5...	Y		1	1.2	71	1.5	7	.053				
428	1.2D + 1.5...	Y		1	1.2	71	1.5	8	.053				
429	1.2D + 1.5...	Y		1	1.2	71	1.5	9	.053				
430	1.2D + 1.5...	Y		1	1.2	71	1.5	10	.053				
431	1.2D + 1.5...	Y		1	1.2	71	1.5	11	.053				
432	1.2D + 1.5...	Y		1	1.2	71	1.5	12	.053				
433	1.2D + 1.5...	Y		1	1.2	71	1.5	13	.053				
434	1.2D + 1.5...	Y		1	1.2	72	1.5	2	.053				
435	1.2D + 1.5...	Y		1	1.2	72	1.5	3	.053				
436	1.2D + 1.5...	Y		1	1.2	72	1.5	4	.053				
437	1.2D + 1.5...	Y		1	1.2	72	1.5	5	.053				
438	1.2D + 1.5...	Y		1	1.2	72	1.5	6	.053				
439	1.2D + 1.5...	Y		1	1.2	72	1.5	7	.053				
440	1.2D + 1.5...	Y		1	1.2	72	1.5	8	.053				
441	1.2D + 1.5...	Y		1	1.2	72	1.5	9	.053				
442	1.2D + 1.5...	Y		1	1.2	72	1.5	10	.053				



Load Combinations (Continued)

Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
443	1.2D + 1.5...		Y	1	1.2	72	1.5	11	.053				
444	1.2D + 1.5...		Y	1	1.2	72	1.5	12	.053				
445	1.2D + 1.5...		Y	1	1.2	72	1.5	13	.053				
446	1.2D + 1.5...		Y	1	1.2	73	1.5	2	.053				
447	1.2D + 1.5...		Y	1	1.2	73	1.5	3	.053				
448	1.2D + 1.5...		Y	1	1.2	73	1.5	4	.053				
449	1.2D + 1.5...		Y	1	1.2	73	1.5	5	.053				
450	1.2D + 1.5...		Y	1	1.2	73	1.5	6	.053				
451	1.2D + 1.5...		Y	1	1.2	73	1.5	7	.053				
452	1.2D + 1.5...		Y	1	1.2	73	1.5	8	.053				
453	1.2D + 1.5...		Y	1	1.2	73	1.5	9	.053				
454	1.2D + 1.5...		Y	1	1.2	73	1.5	10	.053				
455	1.2D + 1.5...		Y	1	1.2	73	1.5	11	.053				
456	1.2D + 1.5...		Y	1	1.2	73	1.5	12	.053				
457	1.2D + 1.5...		Y	1	1.2	73	1.5	13	.053				
458	1.2D + 1.5...		Y	1	1.2	74	1.5	2	.053				
459	1.2D + 1.5...		Y	1	1.2	74	1.5	3	.053				
460	1.2D + 1.5...		Y	1	1.2	74	1.5	4	.053				
461	1.2D + 1.5...		Y	1	1.2	74	1.5	5	.053				
462	1.2D + 1.5...		Y	1	1.2	74	1.5	6	.053				
463	1.2D + 1.5...		Y	1	1.2	74	1.5	7	.053				
464	1.2D + 1.5...		Y	1	1.2	74	1.5	8	.053				
465	1.2D + 1.5...		Y	1	1.2	74	1.5	9	.053				
466	1.2D + 1.5...		Y	1	1.2	74	1.5	10	.053				
467	1.2D + 1.5...		Y	1	1.2	74	1.5	11	.053				
468	1.2D + 1.5...		Y	1	1.2	74	1.5	12	.053				
469	1.2D + 1.5...		Y	1	1.2	74	1.5	13	.053				
470	1.2D + 1.5...	Yes	Y	1	1.2	75	1.5						
471	1.2D + 1.5...	Yes	Y	1	1.2	76	1.5						
472	1.2D + 1.5...	Yes	Y	1	1.2	77	1.5						
473	1.2D + 1.5...	Yes	Y	1	1.2	78	1.5						
474	1.2D + 1.5...	Yes	Y	1	1.2	79	1.5						
475	1.2D + 1.5...	Yes	Y	1	1.2	80	1.5						
476	1.2D + 1.5...	Yes	Y	1	1.2	81	1.5						
477	1.2D + 1.5...	Yes	Y	1	1.2	82	1.5						
478	1.2D + 1.5...	Yes	Y	1	1.2	83	1.5						
479	1.2D + 1.5...	Yes	Y	1	1.2	84	1.5						
480	1.2D + 1.5...	Yes	Y	1	1.2	85	1.5						
481	1.2D + 1.5...	Yes	Y	1	1.2	86	1.5						
482	1.2D + 1.5...	Yes	Y	1	1.2	87	1.5						
483	1.2D + 1.5...	Yes	Y	1	1.2	88	1.5						
484	1.2D + 1.5...	Yes	Y	1	1.2	89	1.5						
485	1.2D + 1.5...	Yes	Y	1	1.2	90	1.5						
486	1.2D + 1.5...	Yes	Y	1	1.2	91	1.5						
487	1.2D + 1.5...	Yes	Y	1	1.2	92	1.5						
488	1.2D + 1.5...	Yes	Y	1	1.2	93	1.5						
489	1.2D + 1.5...	Yes	Y	1	1.2	94	1.5						
490	1.2D + 1.5...	Yes	Y	1	1.2	95	1.5						
491	1.2D + 1.5...	Yes	Y	1	1.2	96	1.5						
492	1.2D + 1.5...	Yes	Y	1	1.2	97	1.5						
493	1.2D + 1.5...	Yes	Y	1	1.2	98	1.5						
494	1.2D + 1.5...		Y	1	1.2	99	1.5						
495	1.2D + 1.5...		Y	1	1.2	100	1.5						
496	1.2D + 1.5...		Y	1	1.2	101	1.5						
497	1.2D + 1.5...		Y	1	1.2	102	1.5						
498	1.2D + 1.5...		Y	1	1.2	103	1.5						
499	1.2D + 1.5...		Y	1	1.2	104	1.5						



Load Combinations (Continued)

	Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
500	1.2D + 1.5...		Y		1	1.2	105	1.5					
501	1.2D + 1.5...		Y		1	1.2	106	1.5					
502	1.2D + 1.5...		Y		1	1.2	107	1.5					
503	1.2D + 1.5...		Y		1	1.2	108	1.5					
504	1.2D + 1.5...		Y		1	1.2	109	1.5					
505	1.2D + 1.5...		Y		1	1.2	110	1.5					
506	1.2D + 1.5...		Y		1	1.2	111	1.5					
507	1.2D + 1.5...		Y		1	1.2	112	1.5					
508	1.2D + 1.5...		Y		1	1.2	113	1.5					
509	1.2D + 1.5...		Y		1	1.2	114	1.5					
510	1.2D + 1.5...		Y		1	1.2	115	1.5					
511	1.2D + 1.5...		Y		1	1.2	116	1.5					
512	1.2D + 1.5...		Y		1	1.2	117	1.5					
513	1.2D + 1.5...		Y		1	1.2	118	1.5					
514	1.2D + 1.5...		Y		1	1.2	119	1.5					
515	1.2D + 1.5...		Y		1	1.2	120	1.5					
516	1.2D + 1.5...		Y		1	1.2	121	1.5					
517	1.2D + 1.5...		Y		1	1.2	122	1.5					
518	1.2D + 1.5...		Y		1	1.2	123	1.5					
519	1.2D + 1.5...		Y		1	1.2	124	1.5					
520	1.2D + 1.5...		Y		1	1.2	125	1.5					
521	1.2D + 1.5...		Y		1	1.2	126	1.5					
522	1.2D + 1.5...		Y		1	1.2	127	1.5					
523	1.2D + 1.5...		Y		1	1.2	128	1.5					
524	1.2D + 1.5...		Y		1	1.2	129	1.5					
525	1.2D + 1.5...		Y		1	1.2	130	1.5					
526	1.2D + 1.5...		Y		1	1.2	131	1.5					
527	1.2D + 1.5...		Y		1	1.2	132	1.5					
528	1.2D + 1.5...		Y		1	1.2	133	1.5					
529	1.2D + 1.5...		Y		1	1.2	134	1.5					
530	1.2D + 1.5...		Y		1	1.2	135	1.5					
531	1.2D + 1.5...		Y		1	1.2	136	1.5					
532	1.2D + 1.5...		Y		1	1.2	137	1.5					
533	1.2D + 1.5...		Y		1	1.2	138	1.5					
534	1.2D + 1.5...		Y		1	1.2	139	1.5					
535	1.2D + 1.5...		Y		1	1.2	140	1.5					
536	1.2D + 1.5...		Y		1	1.2	141	1.5					
537	1.2D + 1.5...		Y		1	1.2	142	1.5					
538	1.2D + 1.5...		Y		1	1.2	143	1.5					
539	1.2D + 1.5...		Y		1	1.2	144	1.5					
540	1.2D + 1.5...		Y		1	1.2	145	1.5					
541	1.2D + 1.5...		Y		1	1.2	146	1.5					
542	1.2D + 1.5...		Y		1	1.2	147	1.5					
543	1.2D + 1.5...		Y		1	1.2	148	1.5					
544	1.2D + 1.5...		Y		1	1.2	149	1.5					
545	1.2D + 1.5...		Y		1	1.2	150	1.5					
546	1.2D + 1.5...		Y		1	1.2	151	1.5					
547	1.2D + 1.5...		Y		1	1.2	152	1.5					
548	1.2D + 1.5...		Y		1	1.2	153	1.5					
549	1.2D + 1.5...		Y		1	1.2	154	1.5					
550	1.2D + 1.5...		Y		1	1.2	155	1.5					
551	1.2D + 1.5...		Y		1	1.2	156	1.5					
552	1.2D + 1.5...		Y		1	1.2	157	1.5					
553	1.2D + 1.5...		Y		1	1.2	158	1.5					
554	1.2D + 1.5...		Y		1	1.2	159	1.5					
555	1.2D + 1.5...		Y		1	1.2	160	1.5					
556	1.2D + 1.5...		Y		1	1.2	161	1.5					



Load Combinations (Continued)

Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.
557	1.2D + 1.5...	Y		1	1.2	162	1.5						
558	1.2D + 1.5...	Y		1	1.2	163	1.5						
559	1.2D + 1.5...	Y		1	1.2	164	1.5						
560	1.2D + 1.5...	Y		1	1.2	165	1.5						
561	1.2D + 1.5...	Y		1	1.2	166	1.5						
562	1.2D + 1.5...	Y		1	1.2	167	1.5						
563	1.2D + 1.5...	Y		1	1.2	168	1.5						
564	1.2D + 1.5...	Y		1	1.2	169	1.5						
565	1.2D + 1.5...	Y		1	1.2	170	1.5						
566	1.2D + 1.5...	Y		1	1.2	171	1.5						
567	1.2D + 1.5...	Y		1	1.2	172	1.5						
568	1.2D + 1.5...	Y		1	1.2	173	1.5						
569	1.2D + 1.5...	Y		1	1.2	174	1.5						

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
1	N126B	max	1024.219	8	2788.838	20	1844.651	10	1754.111	11	2055.318	10	1831.187	2
2		min	-4670.751	14	-85.526	2	-1843.784	4	-1730.796	5	-2056.236	4	-7283.633	20
3	N141	max	2849.907	9	2789.441	16	4096.655	23	1534.421	10	2055.198	6	3926.59	3
4		min	-1260.076	3	-85.036	10	-1205.198	5	-6320.021	16	-2056.271	12	-1466.937	9
5	N156	max	3076.343	8	2789.495	24	1103.315	11	6300.968	24	2055.484	2	3771.121	13
6		min	-1485.497	2	-85.077	6	-4078.983	17	-1633.767	6	-2056.513	8	-1270.986	7
7	Totals:	max	6690.98	8	7672.043	25	6692.747	11						
8		min	-6690.976	2	3062.327	7	-6692.748	5						

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

Member	Shape	Code C...	Loc[in]	LC	Shear ...	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
1	MP7	PIPE 2.0	.580	10.5	5	.120	10.5	6	20866.733	32130	1871.625	1871.625	2...	H1-1b	
2	MP4	PIPE 2.0	.580	10.5	13	.120	10.5	2	20866.733	32130	1871.625	1871.625	2...	H1-1b	
3	MP1	PIPE 2.0	.580	10.5	9	.120	10.5	10	20866.733	32130	1871.625	1871.625	2...	H1-1b	
4	MP6	PIPE 2.0	.524	10.5	11	.114	10.5	11	20866.733	32130	1871.625	1871.625	2...	H1-1b	
5	MP9	PIPE 2.0	.524	10.5	3	.114	10.5	3	20866.733	32130	1871.625	1871.625	2...	H1-1b	
6	MP3	PIPE 2.0	.524	10.5	7	.114	10.5	7	20866.733	32130	1871.625	1871.625	2...	H1-1b	
7	MP2	PIPE 2.5	.482	53.365	5	.060	53.365	5	25816.847	50715	3596.25	3596.25	1...	H1-1b	
8	MP5	PIPE 2.5	.481	53.365	9	.060	53.365	9	25816.847	50715	3596.25	3596.25	1...	H1-1b	
9	MP8	PIPE 2.5	.481	53.365	13	.060	53.365	13	25816.847	50715	3596.25	3596.25	1...	H1-1b	
10	FM2	PIPE 3.0	.475	75	2	.285	75	12	28250.554	65205	5748.75	5748.75	1...	H1-1b	
11	FM3	PIPE 3.0	.475	75	6	.285	75	4	28250.554	65205	5748.75	5748.75	1...	H1-1b	
12	FM1	PIPE 3.0	.474	75	10	.285	75	8	28250.554	65205	5748.75	5748.75	1...	H1-1b	
13	HR2	PIPE 2.0	.427	81.25	22	.178	139.0...	5	6295.422	32130	1871.625	1871.625	2...	H1-1b	
14	HR1	PIPE 2.0	.427	81.25	18	.177	139.0...	13	6295.422	32130	1871.625	1871.625	2...	H1-1b	
15	HR3	PIPE 2.0	.427	68.75	14	.177	10.937	9	6295.422	32130	1871.625	1871.625	2...	H1-1b	
16	SA3	HSS4X4X5	.401	0	5	.186	30.479	z	13	162502.8...	169740	19285.5	19285.5	1...	H1-1b
17	SA2	HSS4X4X5	.401	0	13	.186	30.479	z	9	162502.8...	169740	19285.5	19285.5	1...	H1-1b
18	SA1	HSS4X4X5	.401	0	9	.186	30.479	z	5	162502.8...	169740	19285.5	19285.5	1...	H1-1b
19	CORN3	L2.5x2.5x4	.327	0	2	.088	0	z	7	36629.022	38556	1113.554	2537.388	1...	H2-1
20	CORN1	L2.5x2.5x4	.327	0	6	.088	0	z	11	36629.022	38556	1113.554	2537.388	1...	H2-1
21	CORN2	L2.5x2.5x4	.327	0	10	.088	0	z	3	36629.022	38556	1113.554	2537.388	1...	H2-1
22	BRACE3	PL 4X3/8	.312	49.79	8	.102	0	y	2	42978.246	48600	379.688	4050	4...	H1-1b
23	BRACE1	PL 4X3/8	.312	49.79	12	.102	0	y	6	42978.246	48600	379.688	4050	4...	H1-1b
24	BRACE2	PL 4X3/8	.312	0	4	.102	49.79	y	10	42978.246	48600	379.688	4050	4...	H1-1b
25	CORNER-PL1	PL 4X3/8	.285	20.117	110	.139	5.239	y	5	9812.592	48600	379.688	4050	2...	H1-1b
26	CORNER-PL3	PL 4X3/8	.285	20.117	82	.139	5.239	y	13	9812.592	48600	379.688	4050	2...	H1-1b
27	CORNER-PL2	PL 4X3/8	.285	20.117	42	.139	5.239	y	9	9812.592	48600	379.688	4050	2...	H1-1b



Company : ETS
 Designer : TSB
 Job Number : ETS JOB NO. 192562.14
 Model Name : 876322 - TARTAGLIA PROPERTY_Mount Analysis

Apr 29, 2019
 2:53 PM
 Checked By: JAA

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

Member	Shape	Code C...	Loc[in]	LC Shear ...	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
28	GRATE3	L2x2x4	.109	29.673 15	.023	29.673	y	5	22444.313	30585.6	690.934	1576.849	2... H2-1
29	GRATE1	L2x2x4	.109	29.673 19	.023	29.673	y	9	22444.313	30585.6	690.934	1576.849	2... H2-1
30	GRATE2	L2x2x4	.109	29.673 23	.023	29.673	y	13	22444.313	30585.6	690.934	1576.849	2... H2-1
31	GRATE6	L2x2x4	.104	29.673 19	.024	0	z	9	22444.313	30585.6	690.934	1576.849	2... H2-1
32	GRATE5	L2x2x4	.104	29.673 15	.024	0	z	5	22444.313	30585.6	690.934	1576.849	2... H2-1
33	GRATE4	L2x2x4	.104	29.673 23	.024	0	z	13	22444.313	30585.6	690.934	1576.849	2... H2-1

APPENDIX D
ADDITIONAL CALCULATIONS

Connection Check

Max Reactions	
$F_x =$	-3,529.9 lb
$F_y =$	2,788.8 lb
$F_z =$	-15.7 lb
$M_x =$	19.4 lb-ft
$M_y =$	-35.9 lb-ft
$M_z =$	-7,283.6 lb-ft

Connection Details		
$\phi_{bolt} =$	0.63 in	Nominal Bolt Diameter
# of Bolts =	4	Bolt Quantity
# of Threads/Inch, n =	11	Number of threads per inch (per AISC Table 7-17)
$F_{ub} =$	120 ksi	Specified Minimum Tensile Strength of the Bolt (A325 Assumed)
$F_y =$	36 ksi	Yield Strength of the Plate (A36 Assumed)
Plate Width =	10.00 in	Connection Plate Width
Plate Thickness =	0.625 in	Connection Plate Thickness
HSS Member Width =	4.00 in	HSS Supporting Member Width
Bolt Spacing, $y_i =$	7.00 in	Horizontal Distance of Bolts along Vertical Flange

CONNECTION RESISTANCE		
$\phi =$	0.75	Connection Resistance Factor
$\phi_b =$	0.90	Plate Bending Resistance Factor
$A_n =$	0.226 in ²	Net Area, A_n , through the threaded portion of the bolt
$A_b =$	0.307 in ²	Nominal untreated area of bolt or threaded part
$\phi R_{nt} =$	20.34 kip	Design Tensile Strength of a Single Bolt or threaded part
$\phi R_{nv} =$	13.81 kip	Design Shear Strength of a Single Bolt. Theads assumed included in the shear plane

4.9.6.4 "COMBINED SHEAR AND TENSION"		
$V_{ub} =$	0.71 kip	Total Shear Force
$T_{ub} =$	7.13 kip	Total Tension Force
% Capacity =	35.0% OK	$\sqrt{\left(\frac{V_{ub}}{\phi R_{nv}}\right)^2 + \left(\frac{T_{ub}}{\phi R_{nt}}\right)^2}$

CONNECTION PLATE CAPACITY		
$M_{MAX} =$	21,376.91 lb-in	Moment across the plate
Yield Line =	9.0554 in	Yield Line across the plate
Plate Stress, $f_b =$	24,173.4 psi	Bending Plate Stress across the yield line
Plate Capacity, $F_b =$	32,400. psi	Bending Capacity of the Plate
% Capacity =	74.6% OK	

Exhibit F

Power Density/RF Emissions Report

Transcom Engineering, Inc.

Wireless Network Design and Deployment

Radio Frequency Emissions Analysis Report

T-MOBILE Existing Facility

Site ID: CTNH101A

NH101/GlobalSignal/Bran
850 West Main Street
Branford, CT 06405

May 27, 2019

Transcom Engineering Project Number: 737001-0042

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	10.81 %

Transcom Engineering, Inc.

Wireless Network Design and Deployment

May 27, 2019

T-MOBILE

Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 6009

Emissions Analysis for Site: **CTNH101A – NH101/GlobalSignal/Bran**

Transcom Engineering, Inc (“Transcom”) was directed to analyze the proposed upgrades to the T-MOBILE facility located at **850 West Main Street, Branford, CT**, 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 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 & 700 MHz bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS) and 2100 MHz (AWS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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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.

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Wireless Network Design and Deployment

CALCULATIONS

Calculations were performed for the proposed upgrades to the T-MOBILE antenna facility located at **850 West Main Street, Branford, CT**, 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 manufactures supplied specifications, minus 10 dB for directional panel antennas, 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.

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. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

All emissions values for additional carriers were taken from the Connecticut Siting Council (CSC) active MPE database. Values in this database are provided by the individual carriers themselves

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
LTE	1900 MHz (PCS)	4	40
LTE	2100 MHz (AWS)	2	60
UMTS	1900 MHz (PCS)	1	40
GSM	1900 MHz (PCS)	1	15
UMTS	2100 MHz (AWS)	1	40
LTE / 5G NR	600 MHz	2	40
LTE	700 MHz	2	20

Table 1: Channel Data Table

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The following antennas listed in *Table 2* were used in the modeling for transmission in the 600, 700 MHz, 1900 MHz (PCS) and 2100 MHz (AWS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas, 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.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Ericsson AIR32 B66A / B2A	130
A	2	Ericsson AIR21 B2A/B4P	130
A	3	RFS APXVAARR24_43-U-NA20	128
B	1	Ericsson AIR32 B66A / B2A	130
B	2	Ericsson AIR21 B2A/B4P	130
B	3	RFS APXVAARR24_43-U-NA20	128
C	1	Ericsson AIR32 B66A / B2A	130
C	2	Ericsson AIR21 B2A/B4P	130
C	3	RFS APXVAARR24_43-U-NA20	128

Table 2: Antenna Data

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

Cable losses were factored in the calculations for this site. Since all **2100 MHz (AWS) UMTS** radios are ground mounted the following cable loss values were used. For each ground mounted **2100 MHz (AWS) UMTS** radio there was **1.77 dB** of cable loss calculated into the system gains / losses for this site. These values were calculated based upon the manufacturers specifications for **167 feet of 1-5/8” coax**.

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RESULTS

Per the calculations completed for the proposed T-MOBILE configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Ericsson AIR32 B66A / B2A	1900 MHz (PCS) / 2100 MHz (AWS)	15.85	6	280	10,768.57	2.52
Antenna A2	Ericsson AIR21 B2A/B4P	1900 MHz (PCS) / 2100 MHz (AWS)	15.9	3	95	3,175.03	0.74
Antenna A3	RFS APXVAARR24_43-U-NA20	1900 MHz (PCS) / 2100 MHz (AWS)	12.95 / 13.35	4	120	2,443.03	1.40
Sector A Composite MPE%							4.66
Antenna B1	Ericsson AIR32 B66A / B2A	1900 MHz (PCS) / 2100 MHz (AWS)	15.85	6	280	10,768.57	2.52
Antenna B2	Ericsson AIR21 B2A/B4P	1900 MHz (PCS) / 2100 MHz (AWS)	15.9	3	95	3,175.03	0.74
Antenna B3	RFS APXVAARR24_43-U-NA20	1900 MHz (PCS) / 2100 MHz (AWS)	12.95 / 13.35	4	120	2,443.03	1.40
Sector B Composite MPE%							4.66
Antenna C1	Ericsson AIR32 B66A / B2A	1900 MHz (PCS) / 2100 MHz (AWS)	15.85	6	280	10,768.57	2.52
Antenna C2	Ericsson AIR21 B2A/B4P	1900 MHz (PCS) / 2100 MHz (AWS)	15.9	3	95	3,175.03	0.74
Antenna C3	RFS APXVAARR24_43-U-NA20	1900 MHz (PCS) / 2100 MHz (AWS)	12.95 / 13.35	4	120	2,443.03	1.40
Sector C Composite MPE%							4.66

Table 3: T-MOBILE Emissions Levels

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The Following table (*table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum T-MOBILE MPE contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three sectors have the same configuration yielding the same results on all three sectors. *Table 5* below shows a summary for each T-MOBILE Sector as well as the composite MPE value for the s

Site Composite MPE%	
Carrier	MPE%
T-MOBILE – Max Per Sector Value	4.66 %
Sprint	0.98 %
Clearwire	0.14 %
Verizon Wireless	5.03 %
Site Total MPE %:	10.81 %

Table 4: All Carrier MPE Contributions

T-MOBILE Sector A Total:	4.66 %
T-MOBILE Sector B Total:	4.66 %
T-MOBILE Sector C Total:	4.66 %
Site Total:	10.81 %

Table 5: Site MPE Summary

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Wireless Network Design and Deployment

FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated T-MOBILE sector(s). For this site, all three sectors have the same configuration yielding the same results on all three sectors.

T-MOBILE _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 1900 MHz (PCS) LTE	4	1,538.37	130	14.39	1900 MHz (PCS)	1000	1.44%
T-Mobile 2100 MHz (AWS) LTE	2	2,307.55	130	10.79	2100 MHz (AWS)	1000	1.08%
T-Mobile 1900 MHz (PCS) UMTS	1	1,556.18	130	3.64	1900 MHz (PCS)	1000	0.36%
T-Mobile 1900 MHz (PCS) GSM	1	583.57	130	1.36	1900 MHz (PCS)	1000	0.14%
T-Mobile 2100 MHz (AWS) UMTS	1	1,035.29	130	2.42	2100 MHz (AWS)	1000	0.24%
T-Mobile 600 MHz LTE / 5G NR	2	788.97	128	3.81	600 MHz	400	0.95%
T-Mobile 700 MHz LTE	2	432.54	128	2.09	700 MHz	467	0.45%
						Total:	4.66%

Table 6: T-MOBILE Maximum Sector MPE Power Values

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Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-MOBILE facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-MOBILE Sector	Power Density Value (%)
Sector A:	4.66 %
Sector B:	4.66 %
Sector C:	4.66 %
T-MOBILE Maximum Total (per sector):	4.66 %
Site Total:	10.81 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **10.81 %** 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.



Scott Heffernan
RF Engineering Director
Transcom Engineering, Inc
PO Box 1048
Sterling, MA 01564