



June 7, 2022

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

Re: Notice of Exempt Modification – Antenna and RRU Add
Property Address: 723 Farmington Ave, New Britain, CT 06503
Applicant: AT&T Mobility, LLC

Dear Ms. Bachman:

On behalf of AT&T, please accept this application as notification pursuant to R.C.S.A. §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16- 50j-72(b) (2).

AT&T currently maintains a wireless telecommunications facility consisting of nine (9) wireless telecommunication antennas at an antenna center line height of 98-feet on an existing 110-foot Monopole owned by SBA Communications Corporation at 8051 Congress Avenue, Boca Raton, FL 33487. AT&T now intends to remove three (3) 4.5' Powerwave 7770 Panel Antennas, each currently installed in position [1], remove three (3) 6' QS66512-2 Quintel Panel Antennas, each currently installed in position [2], and three (3) 6' OPA-65R-BU6DA-K CCI Panel Antennas, each currently installed in position [4], all sectors, for a total of nine (9) panel antennas. AT&T then will install three (3) 6' CCI TPA-65R-BU6DA-K Panel Antennas, each to be installed in position [2], install three (3) 2.5' AIR6449 B77D Ericsson Antennas and three (3) AIR6419 B77G Ericsson Antennas, each to be installed in position [3], and three (3) 6' DMP65R-BU6DA CCI Antennas, in position [4] all sectors. In addition, AT&T intends to disconnect three (3) Remote Radio Heads RRUs 4478 B5 Decom UMTS, currently installed in position [2], remove three (3) Remote Radio Units RRU-11 B12, currently installed in position [4] all sectors. AT&T intends to install three (3) Remote Radio Head RRUs 4478 B14, each to be installed in position [2], all sectors, install three (3) Remote Radio Heads RRU 4449 B5/B12, each to be installed in position [4], all sectors, for a total of six (6) new RRUs. AT&T is also to remove all diplexers and all TMAs. AT&T is proposing to install one (1) DC6 Squid with one (1) 18 Pair Fiber and two (2) 4 AWG DC Cables. In addition, AT&T plans to add six (6) Y cables while proposing to remove six (6) Coax cables and leaving the remaining six (6) coax cables to their equipment configuration. All of the changes will take place on a new antenna mount. This modification/proposal includes B2, B5, and B12 hardware that is both 4G(LTE) and 5GNR capable through remote software configuration and either or both services may be turned on or off at various times

Attached is a summary of the planned modifications including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

Please accept this letter pursuant to Regulation of Connecticut State Agencies §16-50j-73, for construction that constitutes and David Zajac – Zoning Enforcement Officer/Building Inspector, Town of New Britain, CT and the honorable, Erin E. Stewart, – Mayor, New Britain, CT both at 27 West Main Street, New Britain, CT 06501. A copy of this letter is being sent to FALCONS ACADEMIC + ATHLETIC ASSOC INC at PO Box 897, Essex, CT 06426, owner of the property where the tower is located and the tower owner, SBA Communications Corp. at 8051 Congress Ave. Boca Raton, FL 33487

The following is a list of subsequent decisions by the Connecticut Siting Council:

- **EM-CING-089-060404** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut.
- **EM-AT&T-089-120727** – AT&T Mobility notice of intent to modify an existing telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut.
- **EM-AT&T-089-140709** – AT&T notice of intent to modify an existing telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut.
- **EM-CING-089-150921** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing



telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut.

- **EM-AT&T-089-181127** - AT&T notice of intent to modify an existing telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut.

The planned modifications to AT&T's facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72(b) (2).

1. The proposed modifications will not result in an increase in the height of the existing tower. AT&T's replacement antennas will be installed at the 98-foot level of the 110-foot Monopole.
2. The proposed modifications will not involve any changes to ground-mounted equipment and, therefore, will not require an extension of the site boundary.
3. The proposed modifications will not increase the noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative worst-case RF emissions calculation for AT&T's modified facility is provided in the RF Emissions Compliance Report, included in Tab 2.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The tower and its foundation can support AT&T's proposed modifications. (See Structural Analysis Report included in Tab 3).

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

Sincerely,

Kristina Cottone

CC w/enclosures:

Mayor Erin E. Stewart – Mayor of New Britain, CT
David Zajac, Zoning Enforcement Officer/Building Inspector, Town of New Britain, CT
FALCONS ACADEMIC + ATHLETIC ASSOC INC - Property Owner
SBA Communications Corp – Tower Owner

8558



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.ct.gov/csc

July 5, 2005

Thomas J. Regan, Esq.
Brown Rudnick Berlack Israels LLP
CityPlace I, 38th Floor
185 Asylum Street
Hartford, CT 06103-3402

RE: **DOCKET NO. 303** - Sprint Spectrum, L.P. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut.

Dear Attorney Regan:

By its Decision and Order dated June 28, 2005, the Connecticut Siting Council (Council) granted a Certificate of Environmental Compatibility and Public Need (Certificate) to Sprint Spectrum, L.P. for the construction, maintenance and operation of a telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut.

Enclosed are the Council's Certificate, Findings of Fact, Opinion, and Decision and Order.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/cm

Enclosures (4)



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

www.ct.gov/csc

**CERTIFICATE
OF
ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED
DOCKET NO. 303**

Pursuant to General Statutes § 16-50k, as amended, the Connecticut Siting Council hereby issues a Certificate of Environmental Compatibility and Public Need to Sprint Spectrum, L.P. for the construction, maintenance and operation of a telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut. This Certificate is issued in accordance with and subject to the terms and conditions set forth in the Decision and Order of the Council on June 28, 2005.

By order of the Council,


Pamela B. Katz, P.E., Chairman

June 28, 2005

DOCKET NO. 303 – Sprint Spectrum, L.P. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut. }

Connecticut

Siting

Council

June 28, 2005

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Sprint Spectrum, L.P., hereinafter referred to as the Certificate Holder, for a telecommunications facility at 723 Farmington Avenue, New Britain, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Sprint Spectrum, L.P and other entities, both public and private, but such tower shall not exceed a height of 110 feet above ground level. The height at the top of the antennas shall not exceed a height of 110 feet above ground level, including antennas.
2. Panel antennas shall be installed on the monopole using a flush or T-arm mounting configuration. T-arm antenna mounts shall be designed to reduce the visual profile of the antenna configuration to the greatest extent possible without compromising coverage objectives.
3. Landscaping shall include the addition of deciduous tree plantings between the existing paved driveway and the compound site, preferably along the north edge of the existing driveway.
4. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the City of New Britain for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment building, access road, utility line, and landscaping; and
 - b) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

5. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
6. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
7. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
8. The Certificate Holder shall provide reasonable space on the tower for no compensation for any City of New Britain public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
9. If the facility does not initially provide wireless services within one year of completion of construction or within two years from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), whichever is earlier, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating these deadlines.
10. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
11. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.
12. Any request for extension of the period referred to in Condition 9 shall be filed with the Council not later than sixty days prior to the expiration date of this Certificate and shall be served on all parties and intervenors and the City of New Britain, as listed in the service list. Any proposed modifications to this Decision and Order shall likewise be so served.
13. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant and The New Britain Herald.

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

The parties and intervenors to this proceeding are:

Applicant

Sprint Spectrum, L.P.
d/b/a Sprint PCS

Its Representative

Thomas J. Regan, Esq.
Brown Rudnick Berlack Israels LLP
CityPlace I, 38th Floor
185 Asylum Street
Hartford, CT 06103-3402

Intervenor

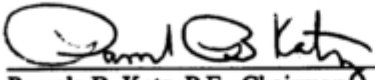
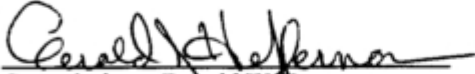

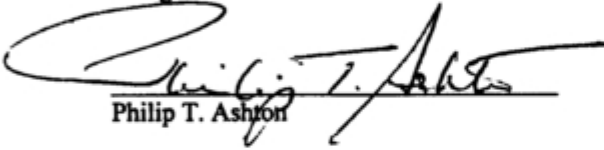
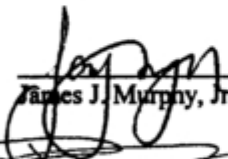
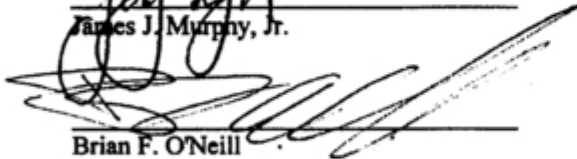

New Cingular Wireless, PCS, LLC

Its Representative

Wendell G. Davis
Blackwell, Davis & Spadaccini, LLC
158 East Center Street
Manchester, CT 06040

CERTIFICATION

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in **DOCKET NO. 303** – Sprint Spectrum, L.P. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 723 Farmington Avenue, New Britain, Connecticut., and voted as follows to approve the proposed site located at 723 Farmington Avenue, New Britain, Connecticut:

<u>Council Members</u>	<u>Vote Cast</u>
 Pamela B. Katz, P.E., Chairman	Yes
 Commissioner Donald W. Downes Designee: Gerald J. Heffernan	Yes
 Commissioner Gina McCarthy Designee: Brian J. Emerick	Yes
 Philip T. Ashton	Yes
_____ Daniel P. Lynch, Jr.	Absent
 James J. Murphy, Jr.	Yes
 Brian F. O'Neill	Yes
_____ Colin C. Tait	Absent
 Edward S. Wilensky	Yes

Dated at New Britain, Connecticut June 28, 2005.

STATE OF CONNECTICUT)

ss. New Britain, Connecticut :

COUNTY OF HARTFORD)

I hereby certify that the foregoing is a true and correct copy of the Findings of Fact, Opinion, and Decision and Order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:



S. Derek Phelps
Executive Director
Connecticut Siting Council

I certify that a copy of the Findings of Fact, Opinion, and Decision and Order in Docket No. 303 has been forwarded by Certified First Class Return Receipt Requested mail on July 5, 2005, to all parties and intervenors of record as listed on the attached service list, dated March 4, 2005.

ATTEST:



Carriann Mulcahy
Secretary
Connecticut Siting Council

LIST OF PARTIES AND INTERVENORS
SERVICE LIST

Status Granted	Status Holder (name, address & phone number)	Representative (name, address & phone number)
Applicant	Sprint Spectrum, L.P. d/b/a Sprint PCS	Thomas J. Regan, Esq. Brown Rudnick Berlack Israels LLP CityPlace I, 38 th Floor 185 Asylum Street Hartford, CT 06103-3402 (860) 509-6522 (860) 509-6501 tregan@brownrudknick.com
Intervenor (Approved 3/3/05)	New Cingular Wireless, PCS, LLC	Wendell G. Davis Blackwell, Davis & Spadaccini, LLC 158 East Center Street Manchester, CT 06040 (860) 432-0676 x13 (860) 432-2926 -f

723 FARMINGTON AVE

Location 723 FARMINGTON AVE

Mblu C3A/ 1///

Acct# 37500723

Owner FALCONS ACADEMIC +
ATHLETIC ASSOC INC

Assessment \$341,180

Appraisal \$487,400

PID 597

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$208,000	\$279,400	\$487,400

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$145,600	\$195,580	\$341,180

Owner of Record

Owner FALCONS ACADEMIC + ATHLETIC ASSOC INC

Sale Price \$0

Co-Owner

Certificate

Address PO BOX 897
ESSEX , CT 06426

Book & Page 2025/628

Sale Date 07/29/2019

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
FALCONS ACADEMIC + ATHLETIC ASSOC INC	\$0		2025/628	07/29/2019
NEST 88 POLISH FALCONS ALLIANCE	\$0		1412/0329	05/30/2002
NEST 88 POLISH FALCONS ALLIANC	\$0		0474/0342	12/22/1958
NEST 88 POLISH FALCONS	\$0		0327/0077	06/14/1948
EDWARD SZCZEPANIK	\$0		0324/0597	05/21/1948
SEBASTIANO & VINCENZA FORMICA	\$0		0305/0273	10/09/1945
JOSEPHINE BURGIO	\$0		0302/0276	10/11/1944
MARY FALLETTI &	\$0		0295/0251	09/01/1943
JOHN & SOPHIE CHUDZIK	\$0		0157/0194	01/01/1900

Building Information

Building 1 : Section 1

Year Built:
Living Area: 0
Replacement Cost: \$0
Building Percent Good:
Replacement Cost
Less Depreciation: \$0

Building Attributes	
Field	Description
Style	Outbuildings
Model	
Grade	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Central Heat Sys	
Heat Type	
AC Type	
Total Bedrooms	
Total Full Baths	
Total Half Baths	
Total Xtra Fixtrs	
Total Rooms	
Bath Style	
Kitchen Style	
Num Kitchens	
Whirlpool Tub	
Fireplaces_2	
Rec Room Finish	
Rec Room Qual	
Bsmt Garages	
Fireplaces	
Bldg Nbhd	
Fndtn Cndtn	

Building Photo



(<http://images.vgsi.com/photos/NewBritainCTPhotos/\00\01\94\92.jpg>)

Building Layout

Building Layout (ParcelSketch.ashx?pid=597&bid=858)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Basement	
----------	--

Extra Features

Extra Features	<u>Legend</u>
No Data for Extra Features	

Land

Land Use

Use Code 3531
Description Fratnl Org Lnd
Zone T
Neighborhood 103
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 25.69
Depth
Assessed Value \$195,580
Appraised Value \$279,400

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN3	Fence-6' Chain			300.00 L.F.	\$3,000	1
CB3	PreCastConcCel			100.00 S.F.	\$23,100	1
CB3	PreCastConcCel			360.00 S.F.	\$181,900	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2021	\$208,000	\$279,400	\$487,400
2020	\$208,000	\$279,400	\$487,400
2019	\$208,000	\$279,400	\$487,400

Assessment			
Valuation Year	Improvements	Land	Total
2021	\$145,600	\$195,580	\$341,180
2020	\$145,600	\$195,580	\$341,180
2019	\$145,600	\$195,580	\$341,180

Radio Frequency Safety Survey Report Predictive (RFSSRP) Prepared For AT&T



Site Name:	NEW BRITAIN FARMINGTON AVE
FA#	10065751
USID:	86941
Site ID:	CTL01028
Address:	723 FARMINGTON AVENUE NEW BRITAIN, CT 06503
County:	HARTFORD
Latitude:	41.6983250
Longitude:	-72.7861931
Structure Type:	MONOPOLE
Property Owner:	NA
Pace Job:	MRCTB052219
RFDS Technology:	5G NR 1SR CBAND

Report Information

Report Writer: Krishna Negi

Report Generated Date: 06-03-2022

Compliance Statement

AT&T Mobility Compliance Statement: Based on the information collected, AT&T Mobility will be Compliant when the remediation recommended in section 5 or appropriate remediation determined by AT&T is implemented

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1. Executive Summary

1.1 Site Summary

Max Predictive Spatial Average MPE% & Location on Site (General Public)	17499.90% on Antennas Centerline Level & at AT&T Sec-A antenna no. #A3-2
Max Predictive Spatial Average MPE% on Ground (General Public)	2.48%
AT&T Mobility Site Compliance	AT&T Mobility will be Compliant by implementing remediation recommended as per section 5 in this report.

TABLE 1: Site Summary

1.2 Signage Summary (Proposed)

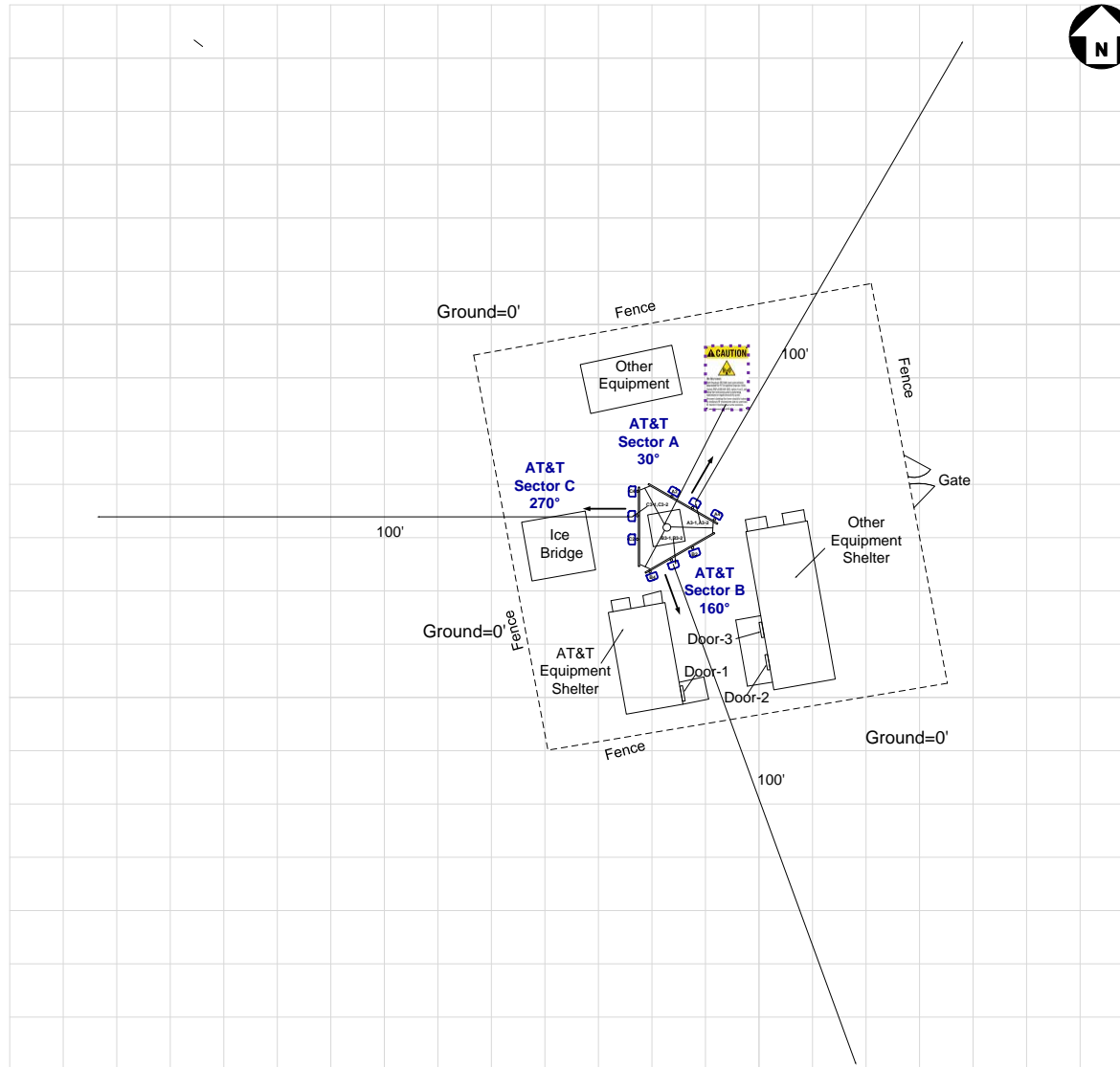
AT&T Signage Locations	Sign Type									
	Safety Instructions	Notice Sign 2	Caution Sign 2	Caution Sign 2B	Caution Sign 2C	Caution 7"x7"	Warning Sign 1B	RF Exposure Map	Lock	Barriers
Access Point(s)				1						
Alpha										
Beta										
Gamma										

TABLE 2: Signage Summary (Proposed)

1.3 List of Documents used to prepare this Report

- 10065751_AE201_220404_CTL01028_Rev4_S&S
- NEW-ENGLAND_CONNECTICUT_CTL01028_2021-5G-NR-Radio_5G-NR-1SR-CBAND_sp656b_2051A101X1_10065751_86941_03-01-2021_Final-Approved_v3.00

2. Site Scale Map



AT&T Antenna Panel OMNI		Proposed Barrier Posts		Proposed Signage								Lock Map Scale = 10 ft
		Safety Instructions	Notice 2	Caution 2	Caution 2B	Caution 2C	Caution 7"x7"	Warning 1B	RF Exposure Map			

3. Antenna Inventory

Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	Transmitter Power (Watts)	Total Loss (dB)	Total ERP (Watts)	Total EIRP (Watts)
A2	AT&T	CCI	TPA65R-BU6D	Panel	700	LTE	30	73	12.35	6	120.00	0.5	1837.30	3014.26
A2	AT&T	CCI	TPA65R-BU6D	Panel	1900	LTE/5G	30	66	15.95	6	120.00	0.5	4209.02	6905.28
A2	AT&T	CCI	TPA65R-BU6D	Panel	2100	LTE/5G	30	66	16.25	6	120.00	0.5	4510.05	7399.14
A3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	30	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
A3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	30	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
A4	AT&T	CCI	DMP65R-BU6D	Panel	700	LTE	30	74	11.85	6	120.00	0.5	1637.50	2686.47
A4	AT&T	CCI	DMP65R-BU6D	Panel	850	5G	30	63	12.45	6	120.00	0.5	1880.10	3084.47
A4	AT&T	CCI	DMP65R-BU6D	Panel	2300	LTE	30	54	16.25	6	75.00	0.5	2818.78	4624.46
B2	AT&T	CCI	TPA65R-BU6D	Panel	700	LTE	160	73	12.35	6	120.00	0.5	1837.30	3014.26
B2	AT&T	CCI	TPA65R-BU6D	Panel	1900	LTE/5G	160	66	15.95	6	120.00	0.5	4209.02	6905.28
B2	AT&T	CCI	TPA65R-BU6D	Panel	2100	LTE/5G	160	66	16.25	6	120.00	0.5	4510.05	7399.14
B3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	160	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
B3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	160	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
B4	AT&T	CCI	DMP65R-BU6D	Panel	700	LTE	160	74	11.85	6	120.00	0.5	1637.50	2686.47
B4	AT&T	CCI	DMP65R-BU6D	Panel	850	5G	160	63	12.45	6	120.00	0.5	1880.10	3084.47
B4	AT&T	CCI	DMP65R-BU6D	Panel	2300	LTE	160	54	16.25	6	75.00	0.5	2818.78	4624.46
C2	AT&T	CCI	TPA65R-BU6D	Panel	700	LTE	270	73	12.35	6	120.00	0.5	1837.30	3014.26
C2	AT&T	CCI	TPA65R-BU6D	Panel	1900	LTE/5G	270	66	15.95	6	120.00	0.5	4209.02	6905.28
C2	AT&T	CCI	TPA65R-BU6D	Panel	2100	LTE/5G	270	66	16.25	6	120.00	0.5	4510.05	7399.14
C3-1	AT&T	Ericsson	AIR 6419 B77G^	Panel	3450	5G	270	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
C3-2	AT&T	Ericsson	AIR 6449 B77D^	Panel	3840	5G	270	11	23.5	2.55	108.44*	0	24277.05*	39828.68*
C4	AT&T	CCI	DMP65R-BU6D	Panel	700	LTE	270	74	11.85	6	120.00	0.5	1637.50	2686.47
C4	AT&T	CCI	DMP65R-BU6D	Panel	850	5G	270	63	12.45	6	120.00	0.5	1880.10	3084.47
C4	AT&T	CCI	DMP65R-BU6D	Panel	2300	LTE	270	54	16.25	6	75.00	0.5	2818.78	4624.46

Table 3.1: Antenna Inventory Table

Note: ^ **Mechanical Tilt value of "0°" MUST be retained for C-BAND and/or DoD AAS antenna(s) at all times to ensure that "EME (Predictive) Study" shall remain valid.**

* 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor¹ are used to calculate Transmitter Power & ERP/EIRP

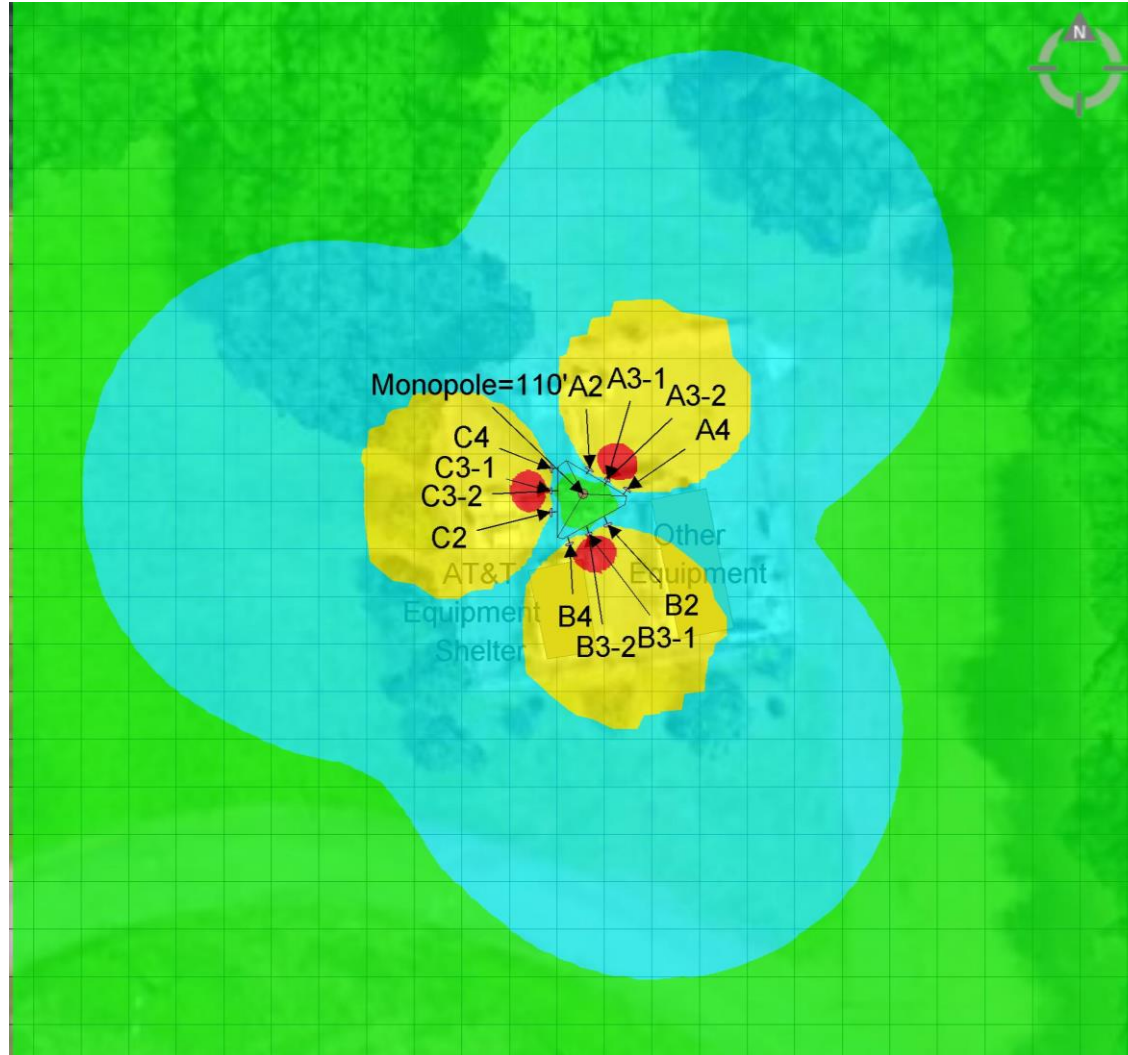
Antenna Heights (Z)

Ant ID	Operator	Antenna Radiation Centerline	Z-Height from Ground
A2	AT&T	98.00	95.00
A3-1	AT&T	99.78	98.50
A3-2	AT&T	96.23	94.95
A4	AT&T	98.00	95.00
B2	AT&T	98.00	95.00
B3-1	AT&T	99.78	98.50
B3-2	AT&T	96.23	94.95
B4	AT&T	98.00	95.00
C2	AT&T	98.00	95.00
C3-1	AT&T	99.78	98.50
C3-2	AT&T	96.23	94.95
C4	AT&T	98.00	95.00

Table 3.2: Antenna Height(s) Summary Table

4. Predicted Emission

4.1 Predictive Cumulative MPE Contribution from All Sources at Antennas Centerline Level (98 ft.)



Max. Predictive Spatial Average MPE% = **17499.90%**

% of FCC General Public Exposure Limit (Predictive Spatial Average)

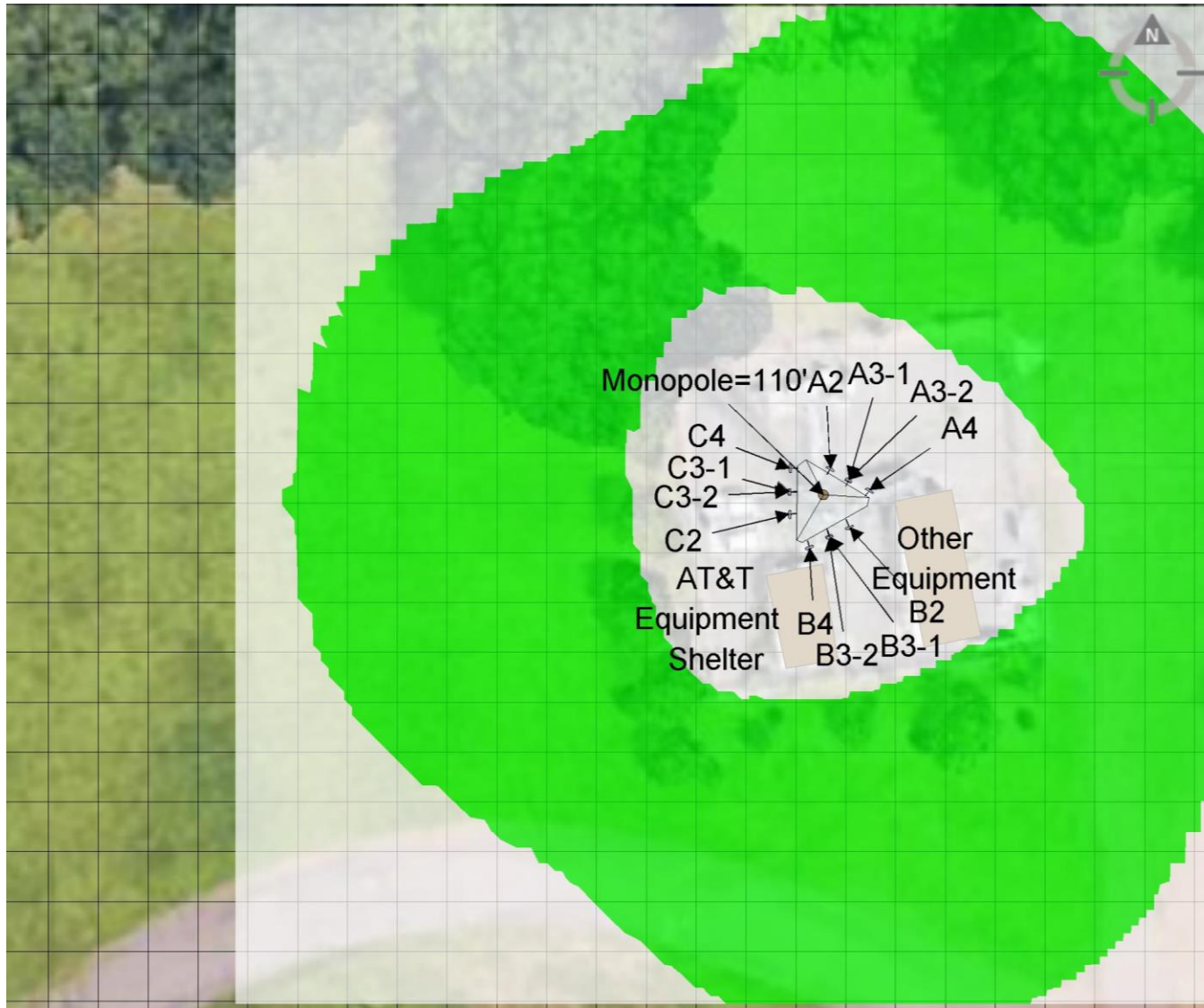
Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Proposed Barrier

Proposed Posts

Map Scale = 10 ft

4.2 Predictive Cumulative MPE Contribution from All Sources at Ground Level (0 ft.)



Max. Predictive Spatial Average MPE% = 2.48%

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Non-Simulated	0-1	1-100	100-500	500-5000	>5000

Proposed Barrier
 Proposed Posts

Map Scale = 10 ft

5. Statement of Compliance

5.1 *Statement of AT&T Mobility Compliance*

At the time of our Analysis, AT&T Mobility is required to take action to fulfill their Obligations to comply with the FCC's mandate as defined in OET-65

Recommendations

AT&T Alpha Sector:

- No Action Required

AT&T Beta Sector:

- No Action Required

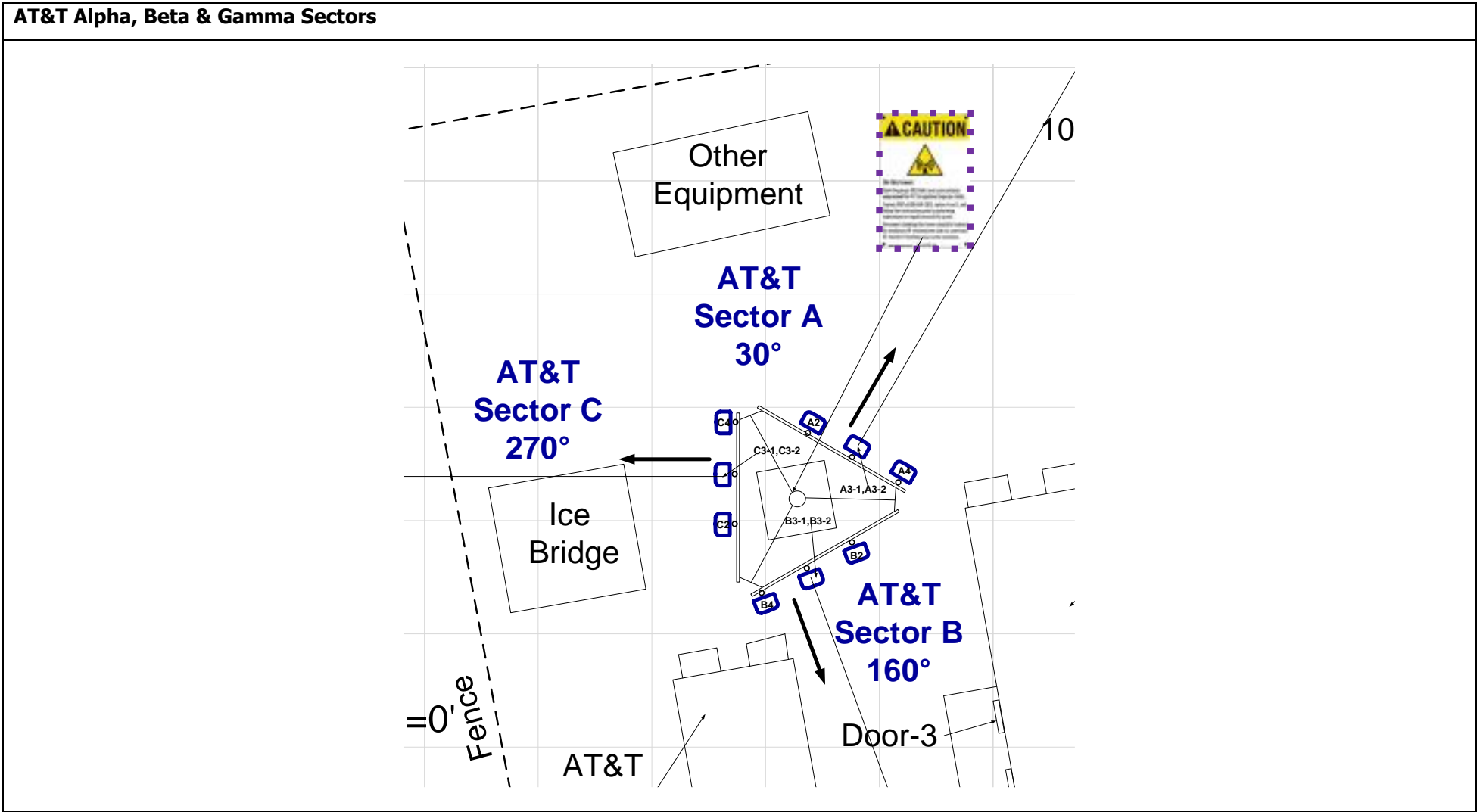
AT&T Gamma Sector:

- No Action Required

Monopole:

- One Caution 2B Sign to be posted on the Monopole at climbing access, facing outwards so approaching people can see as shown in "Recommendations Map – Detailed View" on page 10. (1 Total Sign)

Recommendations Map – Detailed View



AT&T Antenna Panel OMNI		Proposed Barrier Posts		Proposed Signage							Map Scale = 10 ft
		Safety Instructions	Notice 2	Caution 2	Caution 2B	Caution 2C	Caution 7"x7"	Warning 1B	RF Exposure Map	Lock	

Appendix A – Statement of Limiting Conditions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at full power at all times. AT&T has further recommended to assume a 75% duty cycle of maximum radiated power for all LTE & 5G carriers (& consider 100% duty cycle for all UMTS carriers).

In this site compliance report, it is assumed that Mechanical Tilt value of “0°” MUST be retained for C-BAND and/or DoD AAS[^] antenna(s) at all times to ensure that “EME (Predictive) Study” shall remain valid.

AT&T recommended to consider - For C-BAND and/or DoD AAS[^] antenna(s) 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor¹ are used to calculate Transmitter Power & ERP/EIRP.

AT&T recommended to use worst-case tilts for the simulations.

¹ **Power Reduction Factor:** IEC Standard 62232: 2017 allows for a statistically conservative power density model to more realistically define the RF exposure area. AT&T recommends a “0.32” factor to calculate the “Actual Maximum” (time averaged) power value, which accounts for “Beam Scanning,” “Scheduling,” and “RBS Utilization” This recommended value is a conservative figure modelled and supported by other vendors and through measurements published in scientific articles and white papers by IEEE and others. Those publication are listed below:

1. IEEE Access, *Time-Averaged Realistic Maximum Power Levels for the Assessment of RF Exposure for 5G Radio Base Stations Using Massive MIMO* (Published Sept. 18, 2017 / BJÖRN THORS, ANDERS FURUSKÅR, DAVIDE COLOMBI, AND CHRISTER TÖRNEVIK)
2. IEEE Explore, *A Statistical Approach for RF Exposure Compliance Boundary Assessment in Massive MIMO Systems* (Published Jan. 25, 2018 / Paolo Baracca, Andreas Weber, Thorsten Wild, Christophe Grangeat)
3. IEEE Access, *In-situ Measurement Methodology for the Assessment of 5G NR Massive MIMO Base Station Exposure at Sub-6 GHz Frequencies* (Published Dec. 20, 2019 / SAM AERTS, LEEN VERLOOCK, MATTHIAS VAN DEN BOSSCHE, DAVIDE COLOMBI, LUC MARTENS, CHRISTER TÖRNEVIK AND WOUT JOSEPH)
4. Applied Sciences, *Analysis of the Actual Power and EMF Exposure from Base Stations in a Commercial 5G Network* (Published July 30, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)
5. Ofcom Technical Report, *Electromagnetic Field (EMF) measurements near 5G mobile phone base stations* (Published Feb. 21, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)

MobileComm believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor). Thus, at any time, if power density measurements were made, we believe the real time measurements would indicate levels below those depicted in the RF emission diagram(s) in this report. By modelling in this way, MobileComm has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.

Use of Generic Antennas

For the purposes of this report, the use of “Generic” as an antenna model, or “Other Carrier” for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of equipment, antenna models, and transmit power to model the site. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer’s published data regarding the antenna’s physical characteristics makes more conservative assumptions.

Where the frequency is unknown, MobileComm uses the closest frequency in the antenna’s range that corresponds to the highest Maximum Exposure Limit (MPE), resulting in a conservative analysis.

Appendix B – FCC Guidelines and Emissions Threshold Limits

All power density values used in this report were 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 public 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 public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the 700 and 800 MHz Bands is approximately $467 \mu\text{W}/\text{cm}^2$ and $567 \mu\text{W}/\text{cm}^2$ respectively, and 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.

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, have been properly trained in RF safety 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, have been trained in RF safety and can exercise control over his or her exposure by leaving the area or by some other appropriate means. The Occupational/Controlled exposure limits all utilized frequency bands is five (5) times the FCC's General Public / Uncontrolled exposure limit.

Additional details can be found in FCC OET 65.

Table 1: Limits for Maximum Permissible Exposure (MPE)				
(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Public/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

Appendix C – Rules & Regulations

Explanation of Applicable Rules and Regulations

FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Currently, there are two different levels of MPE - General Public MPE and Occupational MPE. An individual classified as Occupational can be defined as an individual who has received appropriate RF training and meets the conditions outlined below. General Public is defined as anyone who does not meet the conditions of being Occupational. FCC Rules and Regulations define compliance in terms of total exposure to total RF energy, regardless of location of or proximity to the sources of energy.

It is the responsibility of all licensees to ensure these guidelines are maintained at all times. It is the ongoing responsibility of all licensees composing the site to maintain ongoing compliance with FCC rules and regulations.

A building owner or site manager can use this report as part of an overall RF Health and Safety Policy. It is important for building owners/site managers to identify areas in excess of the General Population MPE and ensure that only persons qualified as Occupational are granted access to those areas.

Occupational Environment Explained

The FCC definition of Occupational exposure limits apply to persons who:

- *are exposed to RF energy as a consequence of their employment;*
- *have been made aware of the possibility of exposure; and*
- *can exercise control over their exposure.*

FCC guidelines go further to state that persons must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment.

In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General Public. Compliance is also maintained when any non-occupational individuals (the General Public) are prevented from accessing areas indicated as Red or Yellow in the attached RF Emissions diagram. In addition, a person must be aware of the RF environment into which they are entering. This can be accomplished by an RF Safety Awareness class, and by appropriate written documentation such as this Site Compliance Report.

Appendix D – General Safety Recommendations

The following are general recommendations appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

1. All individuals needing access to the main site should be instructed to read and obey all posted placards and signs.
2. The site should be routinely inspected and this or similar report updated with the addition of any antennas or upon any changes to the RF environment including:
 - adding new antennas that may have been located on the site
 - removing of any existing antennas
 - changes in the radiating power or number of RF emitters
3. Post the appropriate SAFETY INSTRUCTIONS, NOTICE, CAUTION & WARNING sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure Diagrams in the report section above, to inform everyone who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC. The signs below are examples of signs meeting FCC guidelines.



4. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general public if deemed as policy by the building/site owner.
5. For a General Public environment the five color levels identified in measured RF emission diagram can be interpreted in the following manner:
 - White represents areas predicted to be greater than or equal to 0% and less than 1% of the MPE general public limits
 - Green represents areas predicted to be greater than or equal to 1% and less than 100% of the MPE general public limits
 - Blue represents areas predicted to be greater than or equal to 100% and lesser than 500% of the MPE general public limits.
 - Yellow represents areas predicted to be greater than or equal to 500% and lesser than 5000% of the MPE general public limits.
 - Red areas indicates safety predicted levels greater than or equal to 5000% of the MPE general public limits.

Appendix E – References

1 - FCC Definition

FCC defines an Occupational or Controlled environment as one where persons are exposed to RF fields as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Typical criteria for an Occupational or Controlled environment is restricted access (i.e. locked doors, gates, etc.) to areas where antennas are located coupled with proper RF warning signage.

FCC defines a site as a General Public or Uncontrolled environment when human exposure to RF fields occurs to the general public or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over the exposure. Typical criteria for a General Public or Uncontrolled environment are unrestricted access (i.e. unlocked or no restrictions) to areas where antennas are located without proper RF warning signage being posted.

2 - Physical Testing measurement procedure and Tools

The Narda Broadband Field Meter NBM-550 can make rapid conformance measurements with evaluation in the time domain when used in conjunction EA5091 probe. This probe is a so-called Shaped Probe, i.e. it is frequency weighted so that it automatically takes account of the FCC Occupational limit values. To collect data, the probe is pointed towards the potential source(s) of EME radiation and moved slowly from ground level up to slightly above head height (approx. 6 ft).

Spatial Average Measurement A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.

3 - Site Safety Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: *Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.*

Training and Qualification Verification: *All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a workers understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet based courses).*

Physical Access Control: *Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:*

- *Locked door or gate*
- *Alarmed door*
- *Locked ladder access*
- *Restrictive Barrier at antenna locations (e.g. Chain link with posted RF Sign)*

RF Signage: *Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.*

Assume all antennas are active: *Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.*

Maintain a 3 foot clearance from all antennas: *There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.*

Rooftop RF Emissions Diagram: *Section 4 of this report contains an RF Emissions Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas on the rooftop. This analysis is all theoretical and assumes a duty cycle of 75% for each transmitting antenna at full power. This analysis is a worst case scenario. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.*

4 - Definitions

Compliance- *The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation from transmitting antennas.*

Decibel (dB) – *A unit for measuring power or strength of a signal.*

Duty Cycle – *The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 75% corresponds to continuous operation.*

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – *The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna, this product is divided by the cable losses*

Effective Radiated Power (ERP) – *In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.*

Gain (of an antenna in dbd) – *The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from a reference dipole. Gain is a measure of the relative efficiency of a directional antennas as compared to a reference dipole.*

General Population/Uncontrolled Environment – *Defined by the FCC, as an area where RFR exposure may occur to persons who are unaware of the potential for exposure and who have no control of their exposure. General Population is also referenced as General Public.*

Generic Antenna – *For the purposes of this report, the use of “Generic” as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of antenna models to select a worst case scenario antenna to model the site.*

Isotropic Antenna – *An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.*

Maximum Measurement – *This measurement represents the single largest measurement recorded when performing a spatial average measurement.*

Maximum Exposure Limit (MPE) – *The RMS and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.*

Occupational/Controlled Environment – *Defined by the FCC, as an area where Radio Frequency Radiation (RFR) exposure may occur to persons who are aware of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.*

Radio Frequency Radiation – *Electromagnetic waves that are propagated from antennas through space.*

Spatial Average Measurement – *A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.*

Transmitter Power Output (TPO) – *The radio frequency output power of a transmitter's final radio frequency stage as measured at the output terminal while connected to a load.*

Appendix F – Proprietary Statement

This report was prepared for the use of AT&T Mobility, LLC to meet requirements specified in AT&T's corporate RF safety guidelines. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by MobileComm are based solely on the information provided by AT&T Mobility and all observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to MobileComm so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Post-Mod Structural Analysis Report

Existing 119 ft SABRE Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT08558-B

Customer Site Name: New Britain 3, CT

Carrier Name: AT&T (App#: 177939-4)

Carrier Site ID / Name: CTL01028 / New Britain Farmington Avenue

Site Location: 723 Farmington Ave

New Britain, Connecticut

Hartford County

Latitude: 41.698414

Longitude: -72.785944



Analysis Result:

Max Structural Usage: 96.7% [Pass]

Max Foundation Usage: 98.0% [Pass]

Report Prepared By : Changzhi Zang



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Max Foundation Usage: 98.0% [Pass]

Report Prepared By : Changzhi Zang

Introduction

The purpose of this report is to summarize the analysis results on the 119 ft SABRE Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any existing modification listed under Sources of Information was assumed completed and was included in this analysis.

The proposed modification by **TES** listed under Sources of Information was considered completed and was included in this analysis.

Sources of Information

Tower Drawings	Original Tower drawings by Sabre, Job# 06-08008, dated 08/1/2005
Foundation Drawing	Original Foundation drawings by Sabre, Job# 06-08008, dated 08/1/2005
Geotechnical Report	Geotechnical Report prepared by DR. Clarence Welti, dated 07/7/2005
Mount Analysis	TMO MA by TES, TES Project # 99612, dated 11/18/2020 AT&T MA by Infinigy, Job #1106-A0001-B, dated 03/22/2022
Existing Modification	N/A
Proposed Modification	TES Job # 128281

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 125.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 97.0$ mph (3-Sec. Gust)
Basic Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$SS = 0.192$, $S1 = 0.055$

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	118.0	6	Commscope NHH-65B-R2B – Panel	(3) Modified T-Arms W/ (3) Valmont Site Pro VZWSMART-SFK4 (T-Arm kit), (3) Commscope BASMNT-SBS-1-2 (side-by-side mounts), (1) Valmont Site Pro VZWSMART-PLK7 (Collar Mount), (12) Valmont Site Pro VZWSMART-MSK2 (Crossover Plates) (3) Site Pro P30150 (P3.0 STD pipe)	(11) 1 5/8" (2) 1 5/8" Hybrid	Verizon
2		3	Samsung MT6407-77A – Panel			
3		3	Amphenol BXA-70063-6BF- Panel			
4		3	Samsung B5/B13 RRH-BR04C (RFV01U-D2A)			
5		3	Samsung B2/B66A RRH-BR049 (RFV01U-D1A)			
6		1	Raycap RVZDC-6627-PF-48-OVP			
7	108.0	2	RFS APXVSP18-C-A20 Panels	(3) T-Arm	(4) 1-1/4" Hybrid (3) 1/2" (6) 5/16"	Clearwire
8		3	RFS APXVTM14-C-120 Panels			
9		1	Powerwave P40-16-XLPP-RR-A Panels			
10		3	Kathrein 840 10054 Panels			
11		4	RFS ACU-A20-N RET's			
12		3	ALU 1900MHz RRU's			
13		3	ALU 800 MHz Filters			
14		3	ALU 800 MHz RRU's			
15		2	DragonwaveHorizon ODU Radios			
16		3	ALU TD-RRH8x20-25 RRU's			
17	2	Andrew VHLP2.5 Dishes				
-	98.0	3	Cci OPA-65R-LCUU-H6 - Panel	(3) Commscope T-Arms	(12) 1 5/8" (4) 3/4" DC Power (2) 3/8" Fiber	AT&T
-		3	Powerwave 7770 w/Mount Pipe - Panel			
-		3	Quintel QS66512-2 - Panel			
-		3	Ericsson RRUS 11 RRU			
-		6	Powerwave LGP13519 Diplexer			
-		2	Raycap DC6-48-60-0-8F COVP			
-		3	Ericsson RRUS 8843 B25/B66A RRU			
-		3	Ericsson RRUS 32 RRU			
-	9	Powerwave LGP21402 TMA				
27	88.0	3	Ericsson AIR 21 B2A/B4P - Panel	(3) T-Arm	(11) 1 5/8" Coax (3) 1-1/4" Hybrid	T-Mobile
28		3	Ericsson AIR32 KRD901146-1_B66A-Panel			
29		3	RFS APXVAARR24_43-U-NA20 - Panel			
30		3	Ericsson KRY 112 144/2			
33		3	Ericsson Radio 4449 B71 + B12			

Existing Antennas, Mounts and Transmission Lines

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
34	78.0	3	JMA Wireless MX08FRO665-21 - Panel	Platform w/ Handrails [MC-PK8-DSH]	(1) 1.411" Hybrid	Dish Wireless
35		3	Fujitsu TA08025-B605 - RRU			
36		3	Fujitsu TA08025-B604 - RRU			
37		1	Raycap RDIDC-9181-PF-48 - COVP			

Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
18	98.0	3	Cci TPA-65R-BU6DA - Panel	Platform Mount [(1) Site Pro 1 F3P-12-WLL]	(6) 1 5/8" (4) 3/4" DC Power (3) 3/8" Fiber (2) 1 1/4" 4AWG6 DC Power	AT&T
19		3	Cci DMP65R-BU6DA - Panel			
20		3	Ericsson Air6449 - Panel			
21		3	Ericsson Air6419 N77G - Panel			
22		3	Ericsson RRUS 4478 B14 RRU			
23		3	Ericsson RRUS 4449 B5/B12 RRU			
24		3	Ericsson RRUS 8843 B25/B66A RRU			
25		3	Ericsson RRUS 32 RRU			
26		3	Raycap DC6-48-60-18-8F COVP			

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	96.7%	88.5%	74.0%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	3006.1	33.1	37.9

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.4105 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the structure and its foundation will be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222-G-2 Standard after the following proposed modification is successfully completed.

- Proposed modification design drawing by **TES** Job # 128281

Pre-Mod Installation Determination

We have also checked this tower to determine if the proposed AT&T equipment loading can be installed prior to the completion of the required modifications. We ran a reduced wind loading case as required by TIA-322 considering a construction period of no more than 6 months.

The tower and foundations passed, so the Carrier can proceed and install their proposed loading prior to the mods completion. Please be aware that this approval is being provided and is based on the method outlined in TIA-322. This approval is not a blanket approval and there is still a risk that the tower will experience a wind event that cannot be predicted by TIA-322 or our Engineers. In the event of an unforeseen wind event, Tower Engineering Solutions will not be liable nor responsible for damage to the tower or the Carriers equipment. Additionally, the tower cannot go beyond the 6 month construction period without the modifications being completed. If the modifications cannot be completed within 6 months from the completed installation of the Carrier's proposed equipment, TES must be notified immediately for further review.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the EIA/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 96.65% at 53.3ft

Structure: CT08558-B-SBA
Site Name: New Britain 3, CT
Height: 119.00 (ft)
Base Elev: 0.000 (ft)

Code: EIA/TIA-222-G
Exposure: C
Gh: 1.1

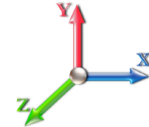
6/17/2022



Page: 1

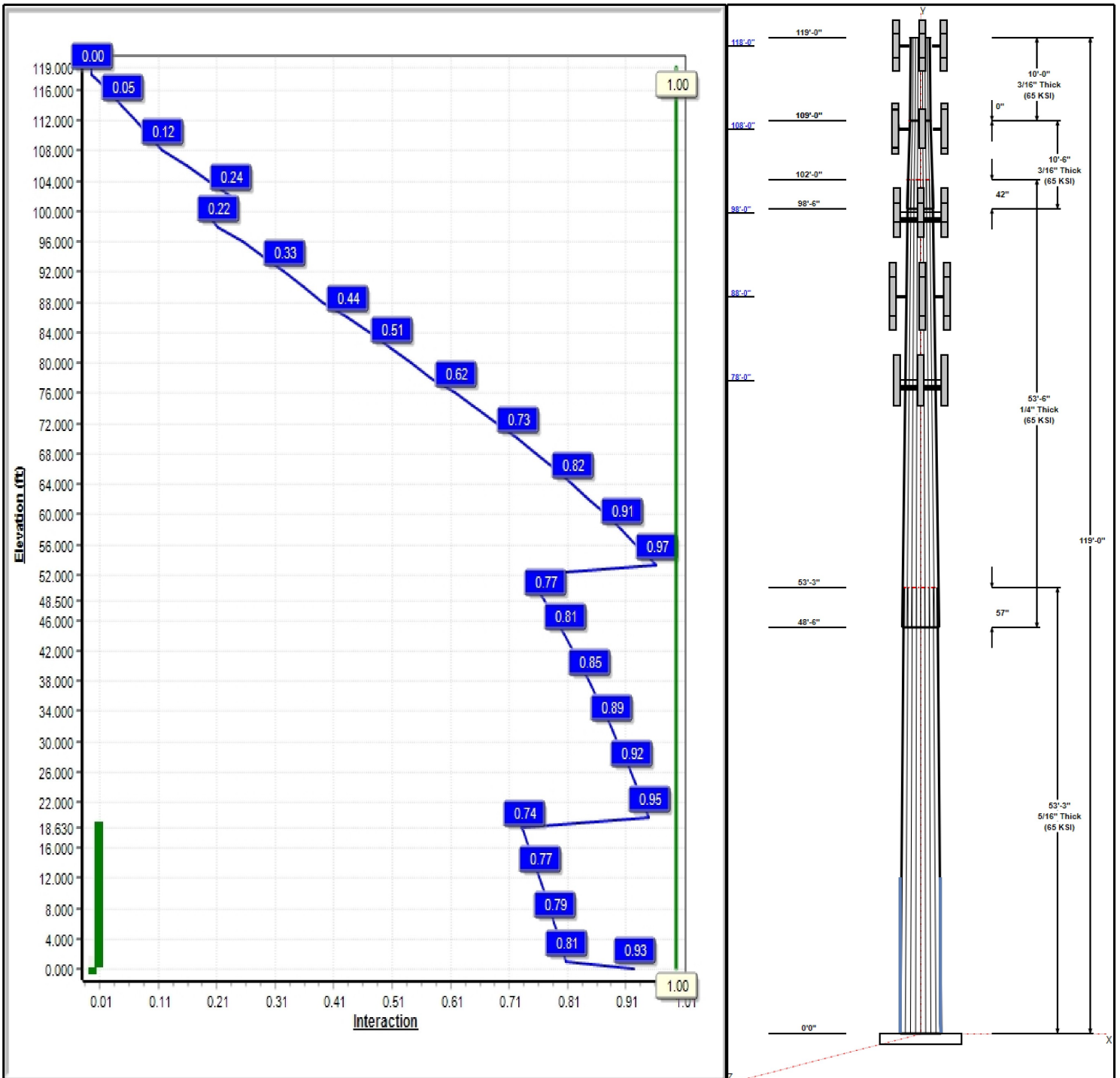
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 97 mph Wind



Iterations: 25

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Structure: CT08558-B-SBA

Type: Tapered
Site Name: New Britain 3, CT
Height: 119.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.22164

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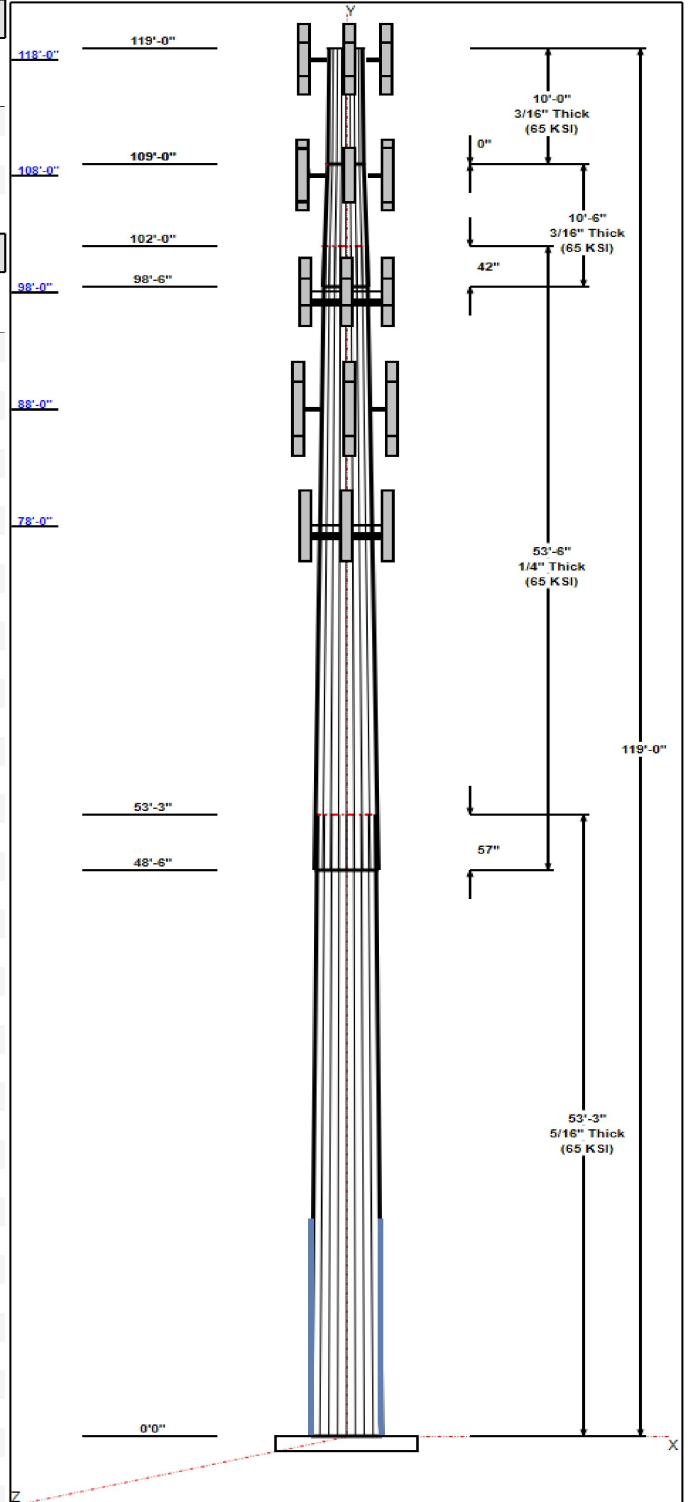
Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	53.25	35.70	47.50	0.313		0.22164	65
2	53.50	25.39	37.25	0.250	Slip	0.22164	65
3	10.50	24.22	26.54	0.188	Slip	0.22164	65
4	10.00	22.00	24.22	0.188	Butt	0.22164	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
118.00	118.00	3	BXA-70063-6BF	Verizon
118.00	118.00	3	T-Arm	Verizon
118.00	118.00	6	Commscope	Verizon
118.00	118.00	3	Samsung MT6407-77A	Verizon
118.00	118.00	1	(3) T-Arm Kit	Verizon
118.00	118.00	3	BSAMNT-SBS-1-2	Verizon
118.00	118.00	1	Collar	Verizon
118.00	118.00	3	Samsung B5/B13	Verizon
118.00	118.00	1	Raycap	Verizon
118.00	118.00	3	B2/B66A RRH-BR049	Verizon
108.00	108.00	3	1900MHz RRH	Clearwire
108.00	108.00	3	800 MHz Filters	Clearwire
108.00	108.00	3	800 MHz	Clearwire
108.00	108.00	3	840 10054	Clearwire
108.00	108.00	4	ACU-A20-N	Clearwire
108.00	108.00	2	APXVSP18-C-A20	Clearwire
108.00	108.00	3	APXVTM14-C-120	Clearwire
108.00	108.00	2	Horizon	Clearwire
108.00	108.00	1	P40-16-XLPP-RR-A	Clearwire
108.00	108.00	3	TD-RRH8x20-25	Clearwire
108.00	108.00	2	VHLP2.5	Clearwire
108.00	108.00	3	T-Arm	Clearwire
98.00	98.00	3	Raycap DC6-48-60-0-8F	AT&T
98.00	98.00	3	Cci TPA-65R-BU6DA	AT&T
98.00	98.00	3	Cci DMP65R-BU6DA	AT&T
98.00	98.00	3	AIR 6449 N77D	AT&T
98.00	98.00	3	Ericsson Air6419 N77G	AT&T
98.00	98.00	3	Ericsson RRUS 4478 B14	AT&T
98.00	98.00	3	Ericsson RRUS 4449	AT&T
98.00	98.00	3	Ericsson RRUS 8843	AT&T
98.00	98.00	3	Ericsson RRUS 32	AT&T
98.00	98.00	1	F3P-12-WLL	AT&T
88.00	88.00	3	Ericsson AIR 21 B2A/B4P	AT&T
88.00	88.00	3	AIR32	T-Mobile
88.00	88.00	3	APXVAARR24_43-U-NA20	T-Mobile
88.00	88.00	3	KRY 112 144/2	T-Mobile
88.00	88.00	3	4449 B71 + B85	T-Mobile
88.00	88.00	3	T-Arm w/ mod	T-Mobile
78.00	78.00	3	JMA Wireless	Dish Wireless
78.00	78.00	3	Fujitsu TA08025-B605	Dish Wireless
78.00	78.00	3	Fujitsu TA08025-B604	Dish Wireless
78.00	78.00	1	Raycap	Dish Wireless
78.00	78.00	1	MC-PK8-DSH	Dish Wireless

Linear Appurtenances



Structure: CT08558-B-SBA

Type: Tapered
Site Name: New Britain 3, CT
Height: 119.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.22164

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Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	118.00	Inside	1 5/8" Coax	Verizon
0.00	118.00	Outside	1 5/8" Hybrid	Verizon
0.00	108.00	Inside	1-1/4" Hybrid	Clearwire/Sprint
0.00	108.00	Inside	1/2" Coax	Clearwire/Sprint
0.00	108.00	Inside	5/16" Coax	Clearwire/Sprint
0.00	98.00	Inside	1 1/4" DC	AT&T
0.00	98.00	Inside	1 5/8" Coax	AT&T
0.00	98.00	Inside	3/4" DC Power	AT&T
0.00	98.00	Inside	3/8" Fiber	AT&T
0.00	88.00	Inside	1 5/8" Coax	T-Mobile
0.00	88.00	Inside	1-1/4" Hybrid	T-Mobile
0.00	78.00	Outside	1.411" Hybrid	Dish Wireless
0.00	20.00	Outside	1" Reinforcing plate	

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
12	2.25" 18J	75.0	Cluster

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.7500	52.0	60.0	Clipped

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 97 mph Wind	3006.1	33.1	37.9
0.9D + 1.6W 97 mph Wind	2972.4	33.1	28.4
1.2D + 1.0Di + 1.0Wi 50 mph Wind	924.0	9.8	73.6
1.2D + 1.0E	156.3	1.5	37.9
0.9D + 1.0E	154.4	1.5	28.5
1.0D + 1.0W 60 mph Wind	714.7	7.9	31.6

Structure: CT08558-B-SBA - Coax Line Placement

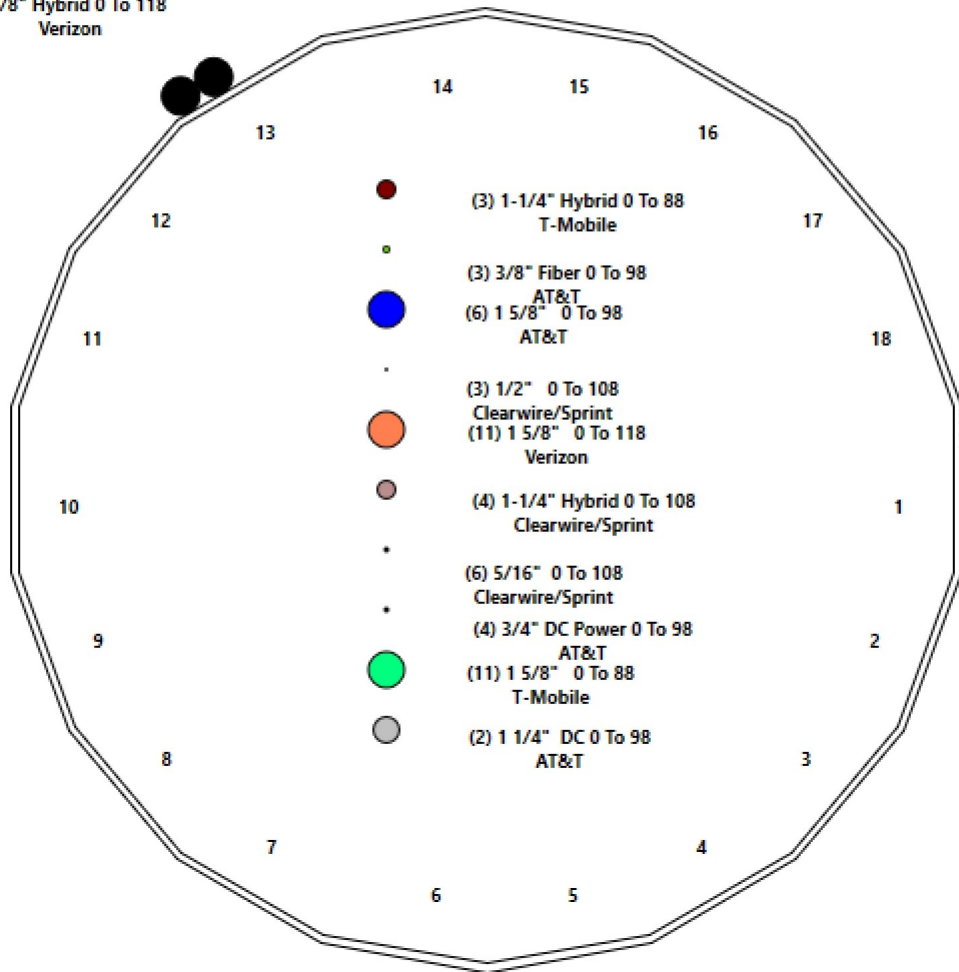
Type: Monopole
Site Name: New Britain 3, CT
Height: 119.00 (ft)

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1 5/8" Hybrid 0 To 118
Verizon



1.411" Hybrid 0 To 78
Dish Wireless

1" Reinforcing plate 0 To

Shaft Properties

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	53.250	0.3125	65		0.00	7,420
2	18	53.500	0.2500	65	Slip	57.00	4,488
3	18	10.500	0.1875	65	Slip	42.00	536
4	18	10.000	0.1875	65	Flange	0.00	464
Total Shaft Weight:							12,908

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	47.50	0.00	46.80	13166.65	25.39	152.00	35.70	53.25	35.10	5552.15	18.73	114.2	0.221639
2	37.25	48.50	29.36	5078.18	24.86	149.00	25.39	102.00	19.95	1593.41	16.50	101.5	0.221639
3	26.54	98.50	15.68	1376.54	23.55	141.57	24.22	109.00	14.30	1043.15	21.36	129.1	0.221639
4	24.22	109.0	14.30	1043.15	21.36	129.15	22.00	119.00	12.98	780.30	19.28	117.3	0.221639

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Intermediate Connectors			Termination Connectors		
							Spacing (in)	Description	Spacing (in)	Lower Qty	Upper Qty	
0.00	1.00	4	SOL 1 3/4" William R71	128	150	0.00	5/8" Hollo Bolt	12.00	5/8" Hollo Bolt	3.00		
1.00	18.63	4	LNP LP6X100-B-20T	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00		10

Load Summary

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	118.00	BXA-70063-6BF	3	17.00	7.57	0.70	201.47	11.168	0.70	0.00	0.00
2	118.00	T-Arm	3	350.00	10.00	0.75	668.05	21.359	0.75	0.00	0.00
3	118.00	Commscope NHH-65B-R2B	6	43.70	8.08	0.83	321.49	9.797	0.83	0.00	0.00
4	118.00	Samsung MT6407-77A	3	79.40	4.69	0.70	245.05	5.940	0.70	0.00	0.00
5	118.00	(3) T-Arm Kit VZWSMART-SFK4	1	500.00	16.50	1.00	1272.41	37.491	1.00	0.00	0.00
6	118.00	BSAMNT-SBS-1-2	3	25.35	0.00	1.00	48.39	0.000	1.00	0.00	0.00
7	118.00	Collar Mount-VZWSMART-PLK7	1	150.60	2.50	1.00	424.30	5.908	1.00	0.00	0.00
8	118.00	Samsung B5/B13 RRH-BR04C	3	70.30	1.88	0.67	133.61	2.598	0.67	0.00	0.00
9	118.00	Raycap RVZDC-6627-PF-48-OVP	1	32.00	3.79	1.00	206.22	4.867	1.00	0.00	0.00
10	118.00	B2/B66A RRH-BR049	3	84.40	1.87	0.67	191.50	2.638	0.67	0.00	0.00
11	108.00	1900MHz RRH	3	44.00	3.80	0.50	184.85	5.593	0.50	0.00	0.00
12	108.00	800 MHz Filters	3	64.00	2.40	0.67	163.61	3.844	0.67	0.00	0.00
13	108.00	800 MHz	3	53.00	2.49	0.67	148.43	3.966	0.67	0.00	0.00
14	108.00	840 10054	3	35.00	4.59	0.61	143.73	6.748	0.61	0.00	0.00
15	108.00	ACU-A20-N	4	1.00	0.14	0.67	6.54	0.523	0.67	0.00	0.00
16	108.00	APXVSP18-C-A20	2	57.00	8.02	0.83	280.02	11.625	0.83	0.00	0.00
17	108.00	APXVTM14-C-120	3	56.00	6.34	0.79	275.27	7.803	0.79	0.00	0.00
18	108.00	Horizon	2	10.60	0.43	1.00	39.67	1.090	1.00	0.00	0.00
19	108.00	P40-16-XLPP-RR-A	1	53.00	9.08	1.00	336.69	10.719	1.00	0.00	0.00
20	108.00	TD-RRH8x20-25	3	70.00	4.05	0.67	221.31	5.123	0.67	0.00	0.00
21	108.00	VHLP2.5	2	47.60	8.43	1.00	270.41	10.632	1.00	0.00	0.00
22	108.00	T-Arm	3	350.00	8.00	0.75	665.25	17.007	0.75	0.00	0.00
23	98.00	Raycap DC6-48-60-0-8F	3	31.80	0.92	1.00	110.80	1.480	1.00	0.00	0.00
24	98.00	Cci TPA-65R-BU6DA	3	52.60	12.87	0.72	349.88	14.753	0.72	0.00	0.00
25	98.00	Cci DMP65R-BU6DA	3	79.40	12.71	0.72	455.76	14.581	0.72	0.00	0.00
26	98.00	AIR 6449 N77D	3	88.00	4.13	0.85	272.95	5.246	0.85	0.00	0.00
27	98.00	Ericsson Air6419 N77G	3	55.40	3.80	0.76	158.43	4.817	0.76	0.00	0.00
28	98.00	Ericsson RRUS 4478 B14	3	59.40	1.65	0.50	112.38	2.312	0.50	0.00	0.00
29	98.00	Ericsson RRUS 4449 B5/B12	3	71.00	1.97	0.50	139.21	2.669	0.50	0.00	0.00
30	98.00	Ericsson RRUS 8843 B25/B66A	3	75.00	1.65	0.50	177.07	2.358	0.50	0.00	0.00
31	98.00	Ericsson RRUS 32	3	53.00	2.74	0.50	173.05	3.691	0.50	0.00	0.00
32	98.00	F3P-12-WLL	1	2786.00	56.18	1.00	6265.13	46.382	1.00	0.00	0.00
33	88.00	Ericsson AIR 21 B2A/B4P	3	91.00	6.09	0.86	315.55	7.501	0.86	0.00	0.00
34	88.00	AIR32 KRD901146-1_B66A	3	132.20	6.51	0.87	376.67	8.012	0.87	0.00	0.00
35	88.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	674.18	22.666	0.75	0.00	0.00
36	88.00	KRY 112 144/2	3	11.00	0.41	0.70	24.63	1.011	0.75	0.00	0.00
37	88.00	4449 B71 + B85	3	74.00	2.57	0.67	195.46	3.386	0.67	0.00	0.00
38	88.00	T-Arm w/ mod	3	350.00	14.00	0.75	658.86	29.443	0.75	0.00	0.00
39	78.00	JMA Wireless MX08FRO665-21	3	64.50	12.49	0.74	427.78	14.319	0.74	0.00	0.00
40	78.00	Fujitsu TA08025-B605	3	75.00	1.96	0.67	140.32	2.661	0.67	0.00	0.00
41	78.00	Fujitsu TA08025-B604	3	63.90	1.96	0.67	127.13	2.661	0.67	0.00	0.00
42	78.00	Raycap RDIDC-9181-PF-48	1	21.90	2.01	1.00	88.40	2.720	1.00	0.00	0.00
43	78.00	MC-PK8-DSH	1	1727.00	37.59	1.00	3834.99	96.582	1.00	0.00	0.00
Totals:			116	14,328.05			40,105.28				

Linear Appurtenances

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
Bottom	Top										
Elev.	Elev.	Description		Exposed	Exposed						
(ft)	(ft)			Width	Exposed						
0.00	118.00	(11) 1 5/8" Coax		0.00	Inside						
0.00	118.00	(2) 1 5/8" Hybrid		1.63	Outside						
0.00	108.00	(4) 1-1/4" Hybrid		0.00	Inside						
0.00	108.00	(3) 1/2" Coax		0.00	Inside						
0.00	108.00	(6) 5/16" Coax		0.00	Inside						
0.00	98.00	(2) 1 1/4" DC		0.00	Inside						
0.00	98.00	(6) 1 5/8" Coax		0.00	Inside						
0.00	98.00	(4) 3/4" DC Power		0.00	Inside						
0.00	98.00	(3) 3/8" Fiber		0.00	Inside						
0.00	88.00	(11) 1 5/8" Coax		0.00	Inside						
0.00	88.00	(3) 1-1/4" Hybrid		0.00	Inside						
0.00	78.00	(1) 1.411" Hybrid		1.41	Outside						
0.00	20.00	(4) 1" Reinforcing plate		0.00	Outside						

Shaft Section Properties

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
0.00	RB1	0.3125	47.500	46.802	13166.7	25.39	152.00	65	72	0.0	10.40	4731.7	1578.5	
1.00	RT1 RB2	0.3125	47.278	46.583	12982.0	25.27	151.29	65	72	158.9	24.00	10508.1	3550.7	81.7
2.00		0.3125	47.057	46.363	12799.1	25.14	150.58	65	72	158.1	24.00	10412.0	3518.7	81.7
4.00		0.3125	46.613	45.923	12438.4	24.89	149.16	65	72	314.0	24.00	10221.2	3455.1	163.3
6.00		0.3125	46.170	45.483	12084.5	24.64	147.74	65	72	311.0	24.00	10032.1	3392.0	163.3
8.00		0.3125	45.727	45.044	11737.5	24.39	146.33	65	73	308.0	24.00	9844.8	3329.6	163.3
10.00		0.3125	45.284	44.604	11397.1	24.14	144.91	65	73	305.1	24.00	9659.3	3267.8	163.3
12.00		0.3125	44.840	44.164	11063.4	23.89	143.49	65	73	302.1	24.00	9475.5	3206.5	163.3
14.00		0.3125	44.397	43.725	10736.3	23.64	142.07	65	74	299.1	24.00	9293.5	3145.8	163.3
16.00		0.3125	43.954	43.285	10415.7	23.39	140.65	65	74	296.1	24.00	9113.3	3085.8	163.3
18.00		0.3125	43.511	42.845	10101.5	23.14	139.23	65	74	293.1	24.00	8934.8	3026.3	163.3
18.63	RT2	0.3125	43.371	42.707	10003.9	23.06	138.79	65	74	91.7	24.00	8879.0	3007.7	51.4
20.00		0.3125	43.067	42.406	9793.7	22.89	137.82	65	74	198.4				
22.00		0.3125	42.624	41.966	9492.2	22.64	136.40	65	75	287.1				
24.00		0.3125	42.181	41.526	9197.0	22.39	134.98	65	75	284.1				
26.00		0.3125	41.737	41.087	8908.0	22.14	133.56	65	75	281.1				
28.00		0.3125	41.294	40.647	8625.1	21.89	132.14	65	76	278.1				
30.00		0.3125	40.851	40.208	8348.2	21.64	130.72	65	76	275.1				
32.00		0.3125	40.408	39.768	8077.3	21.39	129.30	65	76	272.1				
34.00		0.3125	39.964	39.328	7812.4	21.14	127.89	65	77	269.1				
36.00		0.3125	39.521	38.889	7553.3	20.89	126.47	65	77	266.2				
38.00		0.3125	39.078	38.449	7300.0	20.64	125.05	65	77	263.2				
40.00		0.3125	38.634	38.009	7052.4	20.39	123.63	65	77	260.2				
42.00		0.3125	38.191	37.570	6810.5	20.14	122.21	65	78	257.2				
44.00		0.3125	37.748	37.130	6574.2	19.89	120.79	65	78	254.2				
46.00		0.3125	37.305	36.690	6343.4	19.64	119.37	65	78	251.2				
48.00		0.3125	36.861	36.251	6118.1	19.39	117.96	65	79	248.2				
48.50	Bot - Section 2	0.3125	36.751	36.141	6062.6	19.33	117.60	65	79	61.6				
50.00		0.3125	36.418	35.811	5898.2	19.14	116.54	65	79	332.8				
52.00		0.3125	35.975	35.371	5683.6	18.89	115.12	65	79	439.0				
53.25	Top - Section 1	0.2500	36.198	28.524	4656.9	24.12	144.79	65	73	271.7				
54.00		0.2500	36.032	28.392	4592.6	24.00	144.13	65	73	72.6				
56.00		0.2500	35.588	28.040	4424.0	23.69	142.35	65	74	192.0				
58.00		0.2500	35.145	27.688	4259.6	23.38	140.58	65	74	189.6				
60.00		0.2500	34.702	27.336	4099.4	23.06	138.81	65	74	187.2				
62.00		0.2500	34.258	26.985	3943.1	22.75	137.03	65	75	184.8				
64.00		0.2500	33.815	26.633	3791.0	22.44	135.26	65	75	182.4				
66.00		0.2500	33.372	26.281	3642.7	22.13	133.49	65	75	180.1				
68.00		0.2500	32.929	25.930	3498.4	21.81	131.71	65	76	177.7				
70.00		0.2500	32.485	25.578	3358.0	21.50	129.94	65	76	175.3				
72.00		0.2500	32.042	25.226	3221.4	21.19	128.17	65	76	172.9				
74.00		0.2500	31.599	24.874	3088.5	20.88	126.39	65	77	170.5				
76.00		0.2500	31.155	24.523	2959.3	20.56	124.62	65	77	168.1				
78.00		0.2500	30.712	24.171	2833.8	20.25	122.85	65	78	165.7				
80.00		0.2500	30.269	23.819	2711.9	19.94	121.08	65	78	163.3				
82.00		0.2500	29.826	23.467	2593.5	19.63	119.30	65	78	160.9				
84.00		0.2500	29.382	23.116	2478.6	19.31	117.53	65	79	158.5				
86.00		0.2500	28.939	22.764	2367.2	19.00	115.76	65	79	156.1				
88.00		0.2500	28.496	22.412	2259.2	18.69	113.98	65	79	153.7				
90.00		0.2500	28.053	22.061	2154.5	18.38	112.21	65	80	151.3				

Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in ²)	Ixp (in ⁴)	Iyp (in ⁴)	Weight (lb)
92.00		0.2500	27.609	21.709	2053.0	18.06	110.44	65	80	148.9				
94.00		0.2500	27.166	21.357	1954.9	17.75	108.66	65	81	146.5				
96.00		0.2500	26.723	21.005	1859.9	17.44	106.89	65	81	144.1				
98.00		0.2500	26.279	20.654	1768.0	17.12	105.12	65	81	141.8				
98.50	Bot - Section 3	0.2500	26.169	20.566	1745.5	17.05	104.67	65	81	35.1				
100.00		0.2500	25.836	20.302	1679.2	16.81	103.34	65	82	183.8				
102.00	Top - Section 2	0.1875	25.768	15.223	1258.5	22.82	137.43	65	75	241.5				
104.00		0.1875	25.325	14.959	1194.2	22.40	135.06	65	75	102.7				
106.00		0.1875	24.881	14.695	1132.2	21.99	132.70	65	76	100.9				
108.00		0.1875	24.438	14.432	1072.3	21.57	130.34	65	76	99.1				
109.00	Top - Section 3	0.1875	24.216	14.300	1043.1	21.36	129.15	65	76	48.9				
109.00	Bot - Section 4	0.1875	24.216	14.300	1043.1	21.36	129.15	65	76					
110.00		0.1875	23.995	14.168	1014.5	21.15	127.97	65	77	48.4				
112.00		0.1875	23.551	13.904	958.9	20.74	125.61	65	77	95.5				
114.00		0.1875	23.108	13.640	905.4	20.32	123.24	65	78	93.7				
116.00		0.1875	22.665	13.376	853.9	19.90	120.88	65	78	91.9				
118.00		0.1875	22.222	13.113	804.3	19.49	118.52	65	78	90.1				
119.00		0.1875	22.000	12.981	780.3	19.28	117.33	65	79	44.4				
Total Weight										12908.1	1521.4			

Wind Loading - Shaft

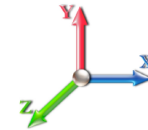
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1	1.00	0.85	19.450	21.40	359.45	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT1 RB2	1.00	0.85	19.450	21.40	357.78	0.650	0.000	1.00	4.010	2.61	89.2	0.0	190.7
2.00		1.00	0.85	19.450	21.40	356.10	0.650	0.000	1.00	3.991	2.59	88.8	0.0	189.8
4.00		1.00	0.85	19.450	21.40	352.74	0.650	0.000	2.00	7.926	5.15	176.4	0.0	376.8
6.00		1.00	0.85	19.450	21.40	349.39	0.650	0.000	2.00	7.851	5.10	174.7	0.0	373.2
8.00		1.00	0.85	19.450	21.40	346.04	0.650	0.000	2.00	7.776	5.05	173.0	0.0	369.7
10.00		1.00	0.85	19.450	21.40	342.68	0.650	0.000	2.00	7.701	5.01	171.4	0.0	366.1
12.00		1.00	0.85	19.450	21.40	339.33	0.650	0.000	2.00	7.626	4.96	169.7	0.0	362.5
14.00		1.00	0.85	19.450	21.40	335.97	0.650	0.000	2.00	7.551	4.91	168.0	0.0	358.9
16.00		1.00	0.86	19.690	21.66	334.66	0.650	0.000	2.00	7.476	4.86	168.4	0.0	355.3
18.00		1.00	0.88	20.185	22.20	335.42	0.650	0.000	2.00	7.401	4.81	170.9	0.0	351.7
18.63	RT2	1.00	0.89	20.332	22.36	335.56	0.650	0.000	0.63	2.316	1.51	53.9	0.0	110.0
20.00		1.00	0.90	20.638	22.70	335.71	0.650	0.000	1.37	5.010	3.26	118.3	0.0	238.1
22.00		1.00	0.92	21.056	23.16	335.60	0.650	0.000	2.00	7.251	4.71	174.7	0.0	344.5
24.00		1.00	0.94	21.445	23.59	335.17	0.650	0.000	2.00	7.176	4.66	176.1	0.0	340.9
26.00		1.00	0.95	21.810	23.99	334.45	0.650	0.000	2.00	7.101	4.62	177.2	0.0	337.3
28.00		1.00	0.97	22.152	24.37	333.49	0.650	0.000	2.00	7.026	4.57	178.1	0.0	333.7
30.00		1.00	0.98	22.477	24.72	332.32	0.650	0.000	2.00	6.951	4.52	178.7	0.0	330.2
32.00		1.00	1.00	22.784	25.06	330.95	0.650	0.000	2.00	6.876	4.47	179.2	0.0	326.6
34.00		1.00	1.01	23.077	25.38	329.42	0.650	0.000	2.00	6.801	4.42	179.5	0.0	323.0
36.00		1.00	1.02	23.356	25.69	327.73	0.650	0.000	2.00	6.726	4.37	179.7	0.0	319.4
38.00		1.00	1.03	23.623	25.99	325.90	0.650	0.000	2.00	6.651	4.32	179.7	0.0	315.8
40.00		1.00	1.04	23.880	26.27	323.95	0.650	0.000	2.00	6.576	4.27	179.6	0.0	312.2
42.00		1.00	1.05	24.126	26.54	321.88	0.650	0.000	2.00	6.501	4.23	179.4	0.0	308.6
44.00		1.00	1.06	24.364	26.80	319.71	0.650	0.000	2.00	6.426	4.18	179.1	0.0	305.0
46.00		1.00	1.07	24.593	27.05	317.43	0.650	0.000	2.00	6.351	4.13	178.7	0.0	301.4
48.00		1.00	1.08	24.814	27.30	315.07	0.650	0.000	2.00	6.276	4.08	178.2	0.0	297.8
48.50	Bot - Section 2	1.00	1.09	24.869	27.36	314.47	0.650	0.000	0.50	1.557	1.01	44.3	0.0	73.9
50.00		1.00	1.09	25.029	27.53	312.62	0.650	0.000	1.50	4.707	3.06	134.8	0.0	399.4
52.00		1.00	1.10	25.236	27.76	310.09	0.650	0.000	2.00	6.210	4.04	179.3	0.0	526.8
53.25	Top - Section 1	1.00	1.11	25.363	27.90	308.48	0.650	0.000	1.25	3.843	2.50	111.5	0.0	326.0
54.00		1.00	1.11	25.437	27.98	311.82	0.650	0.000	0.75	2.292	1.49	66.7	0.0	87.2
56.00		1.00	1.12	25.633	28.20	309.17	0.650	0.000	2.00	6.060	3.94	177.7	0.0	230.4
58.00		1.00	1.13	25.823	28.41	306.44	0.650	0.000	2.00	5.985	3.89	176.8	0.0	227.6
60.00		1.00	1.14	26.008	28.61	303.66	0.650	0.000	2.00	5.910	3.84	175.9	0.0	224.7
62.00		1.00	1.14	26.188	28.81	300.82	0.650	0.000	2.00	5.835	3.79	174.8	0.0	221.8
64.00		1.00	1.15	26.364	29.00	297.92	0.650	0.000	2.00	5.760	3.74	173.7	0.0	218.9
66.00		1.00	1.16	26.535	29.19	294.97	0.650	0.000	2.00	5.685	3.70	172.6	0.0	216.1
68.00		1.00	1.17	26.702	29.37	291.97	0.650	0.000	2.00	5.610	3.65	171.4	0.0	213.2
70.00		1.00	1.17	26.866	29.55	288.92	0.650	0.000	2.00	5.535	3.60	170.1	0.0	210.3
72.00		1.00	1.18	27.026	29.73	285.82	0.650	0.000	2.00	5.460	3.55	168.8	0.0	207.4
74.00		1.00	1.19	27.182	29.90	282.68	0.650	0.000	2.00	5.385	3.50	167.5	0.0	204.6
76.00		1.00	1.19	27.335	30.07	279.50	0.650	0.000	2.00	5.310	3.45	166.1	0.0	201.7
78.00	Appurtenance(s)	1.00	1.20	27.485	30.23	276.28	0.650	0.000	2.00	5.235	3.40	164.6	0.0	198.8
80.00		1.00	1.21	27.632	30.39	273.01	0.650	0.000	2.00	5.160	3.35	163.1	0.0	196.0
82.00		1.00	1.21	27.776	30.55	269.72	0.650	0.000	2.00	5.085	3.31	161.6	0.0	193.1
84.00		1.00	1.22	27.917	30.71	266.38	0.650	0.000	2.00	5.010	3.26	160.0	0.0	190.2

Wind Loading - Shaft

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 11



86.00	1.00	1.23	28.056	30.86	263.01	0.650	0.000	2.00	4.935	3.21	158.4	0.0	187.3		
88.00 Appurtenance(s)	1.00	1.23	28.192	31.01	259.61	0.650	0.000	2.00	4.860	3.16	156.7	0.0	184.5		
90.00	1.00	1.24	28.325	31.16	256.18	0.650	0.000	2.00	4.785	3.11	155.1	0.0	181.6		
92.00	1.00	1.24	28.457	31.30	252.72	0.650	0.000	2.00	4.710	3.06	153.3	0.0	178.7		
94.00	1.00	1.25	28.586	31.44	249.22	0.650	0.000	2.00	4.635	3.01	151.6	0.0	175.9		
96.00	1.00	1.25	28.713	31.58	245.70	0.650	0.000	2.00	4.560	2.96	149.8	0.0	173.0		
98.00 Appurtenance(s)	1.00	1.26	28.838	31.72	242.15	0.650	0.000	2.00	4.485	2.92	148.0	0.0	170.1		
98.50 Bot - Section 3	1.00	1.26	28.869	31.76	241.26	0.650	0.000	0.50	1.110	0.72	36.6	0.0	42.1		
100.00	1.00	1.27	28.961	31.86	238.57	0.650	0.000	1.50	3.348	2.18	110.9	0.0	220.6		
102.00 Top - Section 2	1.00	1.27	29.082	31.99	234.97	0.650	0.000	2.00	4.398	2.86	146.3	0.0	289.8		
104.00	1.00	1.28	29.201	32.12	234.81	0.650	0.000	2.00	4.323	2.81	144.4	0.0	123.2		
106.00	1.00	1.28	29.318	32.25	231.17	0.650	0.000	2.00	4.248	2.76	142.5	0.0	121.1		
108.00 Appurtenance(s)	1.00	1.29	29.434	32.38	227.50	0.650	0.000	2.00	4.173	2.71	140.5	0.0	118.9		
109.00 Top - Section 3	1.00	1.29	29.491	32.44	225.65	0.650	0.000	1.00	2.059	1.34	69.5	0.0	58.7		
110.00	1.00	1.29	29.548	32.50	223.80	0.650	0.000	1.00	2.040	1.33	69.0	0.0	58.1		
112.00	1.00	1.30	29.660	32.63	220.08	0.650	0.000	2.00	4.023	2.62	136.5	0.0	114.6		
114.00	1.00	1.30	29.771	32.75	216.34	0.650	0.000	2.00	3.948	2.57	134.5	0.0	112.5		
116.00	1.00	1.31	29.880	32.87	212.58	0.650	0.000	2.00	3.873	2.52	132.4	0.0	110.3		
118.00 Appurtenance(s)	1.00	1.31	29.988	32.99	208.80	0.650	0.000	2.00	3.798	2.47	130.3	0.0	108.2		
119.00	1.00	1.31	30.041	33.05	206.90	0.650	0.000	1.00	1.871	1.22	64.3	0.0	53.3		
Totals:								119.00				9,832.4			15,489.7

Discrete Appurtenance Forces

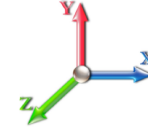
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	118.00	(3) T-Arm Kit	1	29.988	32.986	0.75	0.75	12.38	600.00	0.000	0.000	653.13	0.00	0.00
2	118.00	BXA-70063-6BF	3	29.988	32.986	0.56	0.80	12.72	61.20	0.000	0.000	671.21	0.00	0.00
3	118.00	T-Arm	3	29.988	32.986	0.56	0.75	16.88	1260.00	0.000	0.000	890.63	0.00	0.00
4	118.00	Commscope	6	29.988	32.986	0.66	0.80	32.19	314.64	0.000	0.000	1698.97	0.00	0.00
5	118.00	Samsung MT6407-77A	3	29.988	32.986	0.56	0.80	7.88	285.84	0.000	0.000	415.85	0.00	0.00
6	118.00	B2/B66A RRH-BR049	3	29.988	32.986	0.54	0.80	3.01	303.84	0.000	0.000	158.70	0.00	0.00
7	118.00	BSAMNT-SBS-1-2	3	29.988	32.986	0.75	0.75	0.00	91.26	0.000	0.000	0.00	0.00	0.00
8	118.00	Collar	1	29.988	32.986	0.75	0.75	1.88	180.72	0.000	0.000	98.96	0.00	0.00
9	118.00	Samsung B5/B13	3	29.988	32.986	0.54	0.80	3.02	253.08	0.000	0.000	159.55	0.00	0.00
10	118.00	Raycap	1	29.988	32.986	0.80	0.80	3.03	38.40	0.000	0.000	160.02	0.00	0.00
11	108.00	ACU-A20-N	4	29.434	32.377	0.54	0.80	0.30	4.80	0.000	0.000	15.55	0.00	0.00
12	108.00	840 10054	3	29.434	32.377	0.49	0.80	6.72	126.00	0.000	0.000	348.11	0.00	0.00
13	108.00	APXVSP18-C-A20	2	29.434	32.377	0.66	0.80	10.65	136.80	0.000	0.000	551.74	0.00	0.00
14	108.00	800 MHz	3	29.434	32.377	0.54	0.80	4.00	190.80	0.000	0.000	207.42	0.00	0.00
15	108.00	800 MHz Filters	3	29.434	32.377	0.54	0.80	3.86	230.40	0.000	0.000	199.92	0.00	0.00
16	108.00	T-Arm	3	29.434	32.377	0.56	0.75	13.50	1260.00	0.000	0.000	699.35	0.00	0.00
17	108.00	APXVTM14-C-120	3	29.434	32.377	0.63	0.80	12.02	201.60	0.000	0.000	622.71	0.00	0.00
18	108.00	Horizon	2	29.434	32.377	0.80	0.80	0.69	25.44	0.000	0.000	35.64	0.00	0.00
19	108.00	P40-16-XLPP-RR-A	1	29.434	32.377	0.80	0.80	7.26	63.60	0.000	0.000	376.30	0.00	0.00
20	108.00	TD-RRH8x20-25	3	29.434	32.377	0.54	0.80	6.51	252.00	0.000	0.000	337.37	0.00	0.00
21	108.00	VHLP2.5	2	29.434	32.377	1.00	1.00	16.86	114.24	0.000	0.000	873.41	0.00	0.00
22	108.00	1900MHz RRH	3	29.434	32.377	0.40	0.80	4.56	158.40	0.000	0.000	236.22	0.00	0.00
23	98.00	Ericsson Air6419 N77G	3	28.838	31.722	0.57	0.75	6.50	199.44	0.000	0.000	329.80	0.00	0.00
24	98.00	Raycap DC6-48-60-0-8F	3	28.838	31.722	0.75	0.75	2.07	114.48	0.000	0.000	105.06	0.00	0.00
25	98.00	Cci TPA-65R-BU6DA	3	28.838	31.722	0.54	0.75	20.85	189.36	0.000	0.000	1058.20	0.00	0.00
26	98.00	Cci DMP65R-BU6DA	3	28.838	31.722	0.54	0.75	20.59	285.84	0.000	0.000	1045.05	0.00	0.00
27	98.00	AIR 6449 N77D	3	28.838	31.722	0.64	0.75	7.90	316.80	0.000	0.000	400.89	0.00	0.00
28	98.00	F3P-12-WLL	1	28.838	31.722	1.00	1.00	56.18	3343.20	0.000	0.000	2851.39	0.00	0.00
29	98.00	Ericsson RRUS 4478 B14	3	28.838	31.722	0.38	0.75	1.86	213.84	0.000	0.000	94.21	0.00	0.00
30	98.00	Ericsson RRUS 4449	3	28.838	31.722	0.38	0.75	2.22	255.60	0.000	0.000	112.48	0.00	0.00
31	98.00	Ericsson RRUS 8843	3	28.838	31.722	0.38	0.75	1.86	270.00	0.000	0.000	94.21	0.00	0.00
32	98.00	Ericsson RRUS 32	3	28.838	31.722	0.38	0.75	3.08	190.80	0.000	0.000	156.45	0.00	0.00
33	88.00	AIR32	3	28.192	31.011	0.70	0.80	13.59	475.92	0.000	0.000	674.44	0.00	0.00
34	88.00	APXVAARR24_43-U-NA2	3	28.192	31.011	0.56	0.80	34.00	460.80	0.000	0.000	1687.15	0.00	0.00
35	88.00	Ericsson AIR 21 B2A/B4P	3	28.192	31.011	0.69	0.80	12.57	327.60	0.000	0.000	623.68	0.00	0.00
36	88.00	T-Arm w/ mod	3	28.192	31.011	0.56	0.75	23.63	1260.00	0.000	0.000	1172.21	0.00	0.00
37	88.00	KRY 112 144/2	3	28.192	31.011	0.56	0.80	0.69	39.60	0.000	0.000	34.18	0.00	0.00
38	88.00	4449 B71 + B85	3	28.192	31.011	0.54	0.80	4.13	266.40	0.000	0.000	205.05	0.00	0.00
39	78.00	MC-PK8-DSH	1	27.485	30.233	1.00	1.00	37.59	2072.40	0.000	0.000	1818.35	0.00	0.00
40	78.00	Raycap	1	27.485	30.233	0.75	0.75	1.51	26.28	0.000	0.000	72.92	0.00	0.00
41	78.00	Fujitsu TA08025-B604	3	27.485	30.233	0.50	0.75	2.95	230.04	0.000	0.000	142.93	0.00	0.00
42	78.00	Fujitsu TA08025-B605	3	27.485	30.233	0.50	0.75	2.95	270.00	0.000	0.000	142.93	0.00	0.00
43	78.00	JMA Wireless	3	27.485	30.233	0.55	0.75	20.80	232.20	0.000	0.000	1005.96	0.00	0.00

Totals: 17,193.66

23,238.34

Total Applied Force Summary

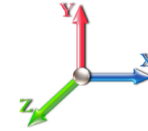
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		89.23	242.51	0.00	0.00
2.00		88.81	241.61	0.00	0.00
4.00		176.37	480.53	0.00	0.00
6.00		174.70	476.94	0.00	0.00
8.00		173.03	473.35	0.00	0.00
10.00		171.36	469.76	0.00	0.00
12.00		169.69	466.17	0.00	0.00
14.00		168.02	462.58	0.00	0.00
16.00		168.41	458.99	0.00	0.00
18.00		170.90	455.40	0.00	0.00
18.63		53.86	142.71	0.00	0.00
20.00		118.29	309.10	0.00	0.00
22.00		174.66	448.22	0.00	0.00
24.00		176.05	444.63	0.00	0.00
26.00		177.17	441.04	0.00	0.00
28.00		178.06	437.45	0.00	0.00
30.00		178.73	433.86	0.00	0.00
32.00		179.22	430.27	0.00	0.00
34.00		179.54	426.67	0.00	0.00
36.00		179.71	423.08	0.00	0.00
38.00		179.74	419.49	0.00	0.00
40.00		179.65	415.90	0.00	0.00
42.00		179.43	412.31	0.00	0.00
44.00		179.10	408.72	0.00	0.00
46.00		178.68	405.13	0.00	0.00
48.00		178.16	401.54	0.00	0.00
48.50		44.30	99.82	0.00	0.00
50.00		134.78	477.14	0.00	0.00
52.00		179.30	630.53	0.00	0.00
53.25		111.52	390.80	0.00	0.00
54.00		66.70	126.04	0.00	0.00
56.00		177.71	334.13	0.00	0.00
58.00		176.82	331.26	0.00	0.00
60.00		175.85	328.38	0.00	0.00
62.00		174.82	325.51	0.00	0.00
64.00		173.73	322.64	0.00	0.00
66.00		172.58	319.77	0.00	0.00
68.00		171.38	316.89	0.00	0.00
70.00		170.12	314.02	0.00	0.00
72.00		168.82	311.15	0.00	0.00
74.00		167.46	308.28	0.00	0.00
76.00		166.06	305.40	0.00	0.00
78.00	(11) attachments	3347.70	3133.45	0.00	0.00
80.00		163.12	296.90	0.00	0.00
82.00		161.58	294.03	0.00	0.00
84.00		160.01	291.15	0.00	0.00

Total Applied Force Summary

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 14
	Struct Class: II	



86.00		158.40	288.28	0.00	0.00
88.00	(18) attachments	4553.46	3115.73	0.00	0.00
90.00		155.06	248.21	0.00	0.00
92.00		153.33	245.34	0.00	0.00
94.00		151.58	242.47	0.00	0.00
96.00		149.78	239.59	0.00	0.00
98.00	(28) attachments	6395.73	5616.08	0.00	0.00
98.50		36.64	53.13	0.00	0.00
100.00		110.92	253.77	0.00	0.00
102.00		146.33	333.96	0.00	0.00
104.00		144.43	167.44	0.00	0.00
106.00		142.49	165.29	0.00	0.00
108.00	(32) attachments	4644.25	2927.21	0.00	0.00
109.00		69.45	75.03	0.00	0.00
110.00		68.95	74.49	0.00	0.00
112.00		136.52	147.36	0.00	0.00
114.00		134.47	145.21	0.00	0.00
116.00		132.40	143.05	0.00	0.00
118.00	(27) attachments	5037.34	3529.88	0.00	0.00
119.00		64.30	53.27	0.00	0.00
	Totals:	33,070.76	37,950.06	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



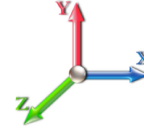
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Load Case: 1.2D + 1.6W 97 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.063	0.000	19.450	0.00	2.64
1.00	1.411" Hybrid	Yes	1.00	0.000	1.41	0.12	0.00	0.063	0.000	19.450	0.00	1.38
1.00	1" Reinforcing plate	Yes	1.00	0.000	0.00	0.00	0.00	0.063	0.000	19.450	0.00	0.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.063	0.000	19.450	0.00	2.64
2.00	1.411" Hybrid	Yes	1.00	0.000	1.41	0.12	0.00	0.063	0.000	19.450	0.00	1.38
2.00	1" Reinforcing plate	Yes	1.00	0.000	0.00	0.00	0.00	0.063	0.000	19.450	0.00	0.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.064	0.000	19.450	0.00	5.28
4.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.064	0.000	19.450	0.00	2.76
4.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	19.450	0.00	0.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	19.450	0.00	5.28
6.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.065	0.000	19.450	0.00	2.76
6.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	19.450	0.00	0.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	19.450	0.00	5.28
8.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.065	0.000	19.450	0.00	2.76
8.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	19.450	0.00	0.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.066	0.000	19.450	0.00	5.28
10.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.066	0.000	19.450	0.00	2.76
10.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	19.450	0.00	0.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.066	0.000	19.450	0.00	5.28
12.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.066	0.000	19.450	0.00	2.76
12.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	19.450	0.00	0.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.067	0.000	19.450	0.00	5.28
14.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.067	0.000	19.450	0.00	2.76
14.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	19.450	0.00	0.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	19.690	0.00	5.28
16.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.068	0.000	19.690	0.00	2.76
16.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	19.690	0.00	0.00
18.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	20.185	0.00	5.28
18.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.068	0.000	20.185	0.00	2.76
18.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	20.185	0.00	0.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	1.63	0.09	0.00	0.069	0.000	20.332	0.00	1.66
18.63	1.411" Hybrid	Yes	0.63	0.000	1.41	0.07	0.00	0.069	0.000	20.332	0.00	0.87
18.63	1" Reinforcing plate	Yes	0.63	0.000	0.00	0.00	0.00	0.069	0.000	20.332	0.00	0.00
20.00	1 5/8" Hybrid	Yes	1.37	0.000	1.63	0.19	0.00	0.069	0.000	20.638	0.00	3.62
20.00	1.411" Hybrid	Yes	1.37	0.000	1.41	0.16	0.00	0.069	0.000	20.638	0.00	1.89
20.00	1" Reinforcing plate	Yes	1.37	0.000	0.00	0.00	0.00	0.069	0.000	20.638	0.00	0.00
22.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.070	0.000	21.056	0.00	5.28
22.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.070	0.000	21.056	0.00	2.76
24.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.071	0.000	21.445	0.00	5.28
24.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.071	0.000	21.445	0.00	2.76
26.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.071	0.000	21.810	0.00	5.28
26.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.071	0.000	21.810	0.00	2.76
28.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.072	0.000	22.152	0.00	5.28
28.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.072	0.000	22.152	0.00	2.76
30.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.073	0.000	22.477	0.00	5.28
30.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.073	0.000	22.477	0.00	2.76
32.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.074	0.000	22.784	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



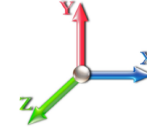
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Load Case: 1.2D + 1.6W 97 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
32.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.074	0.000	22.784	0.00	2.76
34.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.074	0.000	23.077	0.00	5.28
34.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.074	0.000	23.077	0.00	2.76
36.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.075	0.000	23.356	0.00	5.28
36.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.075	0.000	23.356	0.00	2.76
38.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.076	0.000	23.623	0.00	5.28
38.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.076	0.000	23.623	0.00	2.76
40.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.077	0.000	23.880	0.00	5.28
40.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.077	0.000	23.880	0.00	2.76
42.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.078	0.000	24.126	0.00	5.28
42.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.078	0.000	24.126	0.00	2.76
44.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.079	0.000	24.364	0.00	5.28
44.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.079	0.000	24.364	0.00	2.76
46.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.080	0.000	24.593	0.00	5.28
46.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.080	0.000	24.593	0.00	2.76
48.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.081	0.000	24.814	0.00	5.28
48.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.081	0.000	24.814	0.00	2.76
48.50	1 5/8" Hybrid	Yes	0.50	0.000	1.63	0.07	0.00	0.081	0.000	24.869	0.00	1.32
48.50	1.411" Hybrid	Yes	0.50	0.000	1.41	0.06	0.00	0.081	0.000	24.869	0.00	0.69
50.00	1 5/8" Hybrid	Yes	1.50	0.000	1.63	0.20	0.00	0.082	0.000	25.029	0.00	3.96
50.00	1.411" Hybrid	Yes	1.50	0.000	1.41	0.18	0.00	0.082	0.000	25.029	0.00	2.07
52.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.083	0.000	25.236	0.00	5.28
52.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.083	0.000	25.236	0.00	2.76
53.25	1 5/8" Hybrid	Yes	1.25	0.000	1.63	0.17	0.00	0.084	0.000	25.363	0.00	3.30
53.25	1.411" Hybrid	Yes	1.25	0.000	1.41	0.15	0.00	0.084	0.000	25.363	0.00	1.72
54.00	1 5/8" Hybrid	Yes	0.75	0.000	1.63	0.10	0.00	0.083	0.000	25.437	0.00	1.98
54.00	1.411" Hybrid	Yes	0.75	0.000	1.41	0.09	0.00	0.083	0.000	25.437	0.00	1.03
56.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.084	0.000	25.633	0.00	5.28
56.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.084	0.000	25.633	0.00	2.76
58.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.085	0.000	25.823	0.00	5.28
58.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.085	0.000	25.823	0.00	2.76
60.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.086	0.000	26.008	0.00	5.28
60.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.086	0.000	26.008	0.00	2.76
62.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.087	0.000	26.188	0.00	5.28
62.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.087	0.000	26.188	0.00	2.76
64.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.088	0.000	26.364	0.00	5.28
64.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.088	0.000	26.364	0.00	2.76
66.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.089	0.000	26.535	0.00	5.28
66.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.089	0.000	26.535	0.00	2.76
68.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.090	0.000	26.702	0.00	5.28
68.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.090	0.000	26.702	0.00	2.76
70.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.092	0.000	26.866	0.00	5.28
70.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.092	0.000	26.866	0.00	2.76
72.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.093	0.000	27.026	0.00	5.28
72.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.093	0.000	27.026	0.00	2.76
74.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.094	0.000	27.182	0.00	5.28
74.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.094	0.000	27.182	0.00	2.76

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 97 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
76.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.095	0.000	27.335	0.00	5.28
76.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.095	0.000	27.335	0.00	2.76
78.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.097	0.000	27.485	0.00	5.28
78.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.097	0.000	27.485	0.00	2.76
80.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.053	0.000	27.632	0.00	5.28
82.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.053	0.000	27.776	0.00	5.28
84.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.054	0.000	27.917	0.00	5.28
86.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.055	0.000	28.056	0.00	5.28
88.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.056	0.000	28.192	0.00	5.28
90.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.057	0.000	28.325	0.00	5.28
92.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.058	0.000	28.457	0.00	5.28
94.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.059	0.000	28.586	0.00	5.28
96.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.060	0.000	28.713	0.00	5.28
98.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.061	0.000	28.838	0.00	5.28
98.50	1 5/8" Hybrid	Yes	0.50	0.000	1.63	0.07	0.00	0.061	0.000	28.869	0.00	1.32
100.00	1 5/8" Hybrid	Yes	1.50	0.000	1.63	0.20	0.00	0.062	0.000	28.961	0.00	3.96
102.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.063	0.000	29.082	0.00	5.28
104.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.063	0.000	29.201	0.00	5.28
106.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.064	0.000	29.318	0.00	5.28
108.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	29.434	0.00	5.28
109.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.066	0.000	29.491	0.00	2.64
110.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.067	0.000	29.548	0.00	2.64
112.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	29.660	0.00	5.28
114.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.069	0.000	29.771	0.00	5.28
116.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.070	0.000	29.880	0.00	5.28
118.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.072	0.000	29.988	0.00	5.28
Totals:											0.0	419.2

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 97 mph Wind	Iterations 25
Dead Load Factor 1.20	
Wind Load Factor 1.60	

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-37.93	-33.09	0.00	-3006.0	0.00	3006.08	3013.27	1506.63	5849.73	2929.21	0.00	0.000	0.000	0.927
1.00	-37.66	-33.04	0.00	-2972.9	0.00	2972.99	3005.28	1502.64	5806.64	2907.64	0.01	-0.058	0.000	0.812
2.00	-37.37	-33.00	0.00	-2939.9	0.00	2939.96	2997.23	1498.62	5763.59	2886.08	0.02	-0.109	0.000	0.808
4.00	-36.83	-32.88	0.00	-2873.9	0.00	2873.96	2980.97	1490.49	5677.59	2843.02	0.09	-0.210	0.000	0.800
6.00	-36.30	-32.77	0.00	-2808.2	0.00	2808.20	2964.47	1482.24	5591.76	2800.03	0.20	-0.312	0.000	0.792
8.00	-35.77	-32.66	0.00	-2742.6	0.00	2742.65	2947.74	1473.87	5506.09	2757.14	0.35	-0.414	0.000	0.783
10.00	-35.24	-32.55	0.00	-2677.3	0.00	2677.33	2930.78	1465.39	5420.60	2714.33	0.55	-0.516	0.000	0.775
12.00	-34.72	-32.44	0.00	-2612.2	0.00	2612.24	2913.58	1456.79	5335.32	2671.62	0.79	-0.619	0.000	0.766
14.00	-34.20	-32.32	0.00	-2547.3	0.00	2547.37	2896.16	1448.08	5250.24	2629.02	1.07	-0.722	0.000	0.757
16.00	-33.69	-32.21	0.00	-2482.7	0.00	2482.72	2878.49	1439.25	5165.38	2586.53	1.40	-0.825	0.000	0.749
18.00	-33.20	-32.07	0.00	-2418.3	0.00	2418.30	2860.60	1430.30	5080.76	2544.16	1.76	-0.928	0.000	0.739
18.63	-33.03	-32.05	0.00	-2398.1	0.00	2398.10	2854.92	1427.46	5054.16	2530.83	1.89	-0.961	0.000	0.736
18.63	-33.03	-32.05	0.00	-2398.1	0.00	2398.10	2854.92	1427.46	5054.16	2530.83	1.89	-0.961	0.000	0.736
20.00	-32.66	-31.98	0.00	-2354.1	0.00	2354.19	2842.47	1421.24	4996.39	2501.91	2.17	-1.032	0.000	0.953
22.00	-32.14	-31.87	0.00	-2290.2	0.00	2290.23	2824.11	1412.06	4912.27	2459.79	2.64	-1.167	0.000	0.943
24.00	-31.63	-31.76	0.00	-2226.4	0.00	2226.49	2805.52	1402.76	4828.43	2417.81	3.15	-1.302	0.000	0.933
26.00	-31.11	-31.65	0.00	-2162.9	0.00	2162.96	2786.70	1393.35	4744.88	2375.97	3.73	-1.438	0.000	0.922
28.00	-30.61	-31.53	0.00	-2099.6	0.00	2099.66	2767.64	1383.82	4661.63	2334.28	4.36	-1.574	0.000	0.911
30.00	-30.10	-31.41	0.00	-2036.6	0.00	2036.60	2748.35	1374.17	4578.69	2292.75	5.05	-1.711	0.000	0.900
32.00	-29.60	-31.29	0.00	-1973.7	0.00	1973.77	2728.82	1364.41	4496.07	2251.38	5.80	-1.847	0.000	0.888
34.00	-29.11	-31.17	0.00	-1911.1	0.00	1911.19	2709.07	1354.53	4413.79	2210.17	6.60	-1.984	0.000	0.876
36.00	-28.62	-31.04	0.00	-1848.8	0.00	1848.86	2689.08	1344.54	4331.86	2169.15	7.46	-2.121	0.000	0.864
38.00	-28.13	-30.91	0.00	-1786.7	0.00	1786.77	2668.86	1334.43	4250.29	2128.30	8.38	-2.258	0.000	0.851
40.00	-27.65	-30.78	0.00	-1724.9	0.00	1724.95	2648.40	1324.20	4169.10	2087.65	9.36	-2.395	0.000	0.837
42.00	-27.17	-30.65	0.00	-1663.3	0.00	1663.38	2627.71	1313.86	4088.30	2047.19	10.39	-2.532	0.000	0.823
44.00	-26.70	-30.52	0.00	-1602.0	0.00	1602.08	2606.79	1303.40	4007.90	2006.93	11.48	-2.668	0.000	0.809
46.00	-26.23	-30.38	0.00	-1541.0	0.00	1541.05	2585.64	1292.82	3927.91	1966.88	12.63	-2.804	0.000	0.794
48.00	-25.80	-30.22	0.00	-1480.2	0.00	1480.29	2564.25	1282.13	3848.36	1927.04	13.83	-2.939	0.000	0.779
48.50	-25.66	-30.20	0.00	-1465.1	0.00	1465.18	2558.87	1279.44	3828.53	1917.11	14.14	-2.974	0.000	0.775
50.00	-25.13	-30.09	0.00	-1419.8	0.00	1419.88	2542.63	1271.32	3769.24	1887.42	15.09	-3.075	0.000	0.763
52.00	-24.45	-29.93	0.00	-1359.6	0.00	1359.69	2520.78	1260.39	3690.57	1848.03	16.41	-3.209	0.000	0.746
53.25	-24.04	-29.82	0.00	-1322.2	0.00	1322.28	1874.80	937.40	2771.76	1387.94	17.26	-3.293	0.000	0.967
54.00	-23.86	-29.79	0.00	-1299.9	0.00	1299.91	1869.65	934.83	2751.28	1377.68	17.78	-3.344	0.000	0.957
56.00	-23.46	-29.66	0.00	-1240.3	0.00	1240.33	1855.77	927.89	2696.78	1350.40	19.22	-3.501	0.000	0.932
58.00	-23.06	-29.52	0.00	-1181.0	0.00	1181.02	1841.66	920.83	2642.47	1323.20	20.72	-3.657	0.000	0.906
60.00	-22.66	-29.39	0.00	-1121.9	0.00	1121.97	1827.31	913.65	2588.34	1296.09	22.28	-3.811	0.000	0.879
62.00	-22.27	-29.25	0.00	-1063.1	0.00	1063.19	1812.73	906.36	2534.41	1269.09	23.91	-3.962	0.000	0.851
64.00	-21.89	-29.11	0.00	-1004.7	0.00	1004.70	1797.91	898.96	2480.69	1242.19	25.60	-4.111	0.000	0.822
66.00	-21.51	-28.97	0.00	-946.48	0.00	946.48	1782.87	891.43	2427.20	1215.41	27.35	-4.258	0.000	0.792
68.00	-21.13	-28.83	0.00	-888.54	0.00	888.54	1767.59	883.79	2373.96	1188.74	29.17	-4.401	0.000	0.760
70.00	-20.77	-28.68	0.00	-830.89	0.00	830.89	1752.08	876.04	2320.96	1162.21	31.04	-4.541	0.000	0.728
72.00	-20.40	-28.54	0.00	-773.52	0.00	773.52	1736.33	868.17	2268.23	1135.80	32.97	-4.677	0.000	0.694
74.00	-20.04	-28.39	0.00	-716.45	0.00	716.45	1720.35	860.18	2215.78	1109.54	34.96	-4.808	0.000	0.658
76.00	-19.69	-28.24	0.00	-659.67	0.00	659.67	1704.14	852.07	2163.62	1083.42	37.00	-4.935	0.000	0.622
78.00	-16.81	-24.67	0.00	-603.19	0.00	603.19	1687.70	843.85	2111.76	1057.45	39.09	-5.057	0.000	0.581
80.00	-16.48	-24.51	0.00	-553.85	0.00	553.85	1671.02	835.51	2060.22	1031.64	41.23	-5.173	0.000	0.548
82.00	-16.16	-24.36	0.00	-504.83	0.00	504.83	1654.12	827.06	2009.01	1006.00	43.42	-5.284	0.000	0.512
84.00	-15.84	-24.20	0.00	-456.12	0.00	456.12	1636.97	818.49	1958.14	980.53	45.66	-5.389	0.000	0.476

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 19
	Struct Class: II	



86.00	-15.53	-24.04	0.00	-407.73	0.00	407.73	1619.60	809.80	1907.63	955.23	47.93	-5.488	0.000	0.437
88.00	-12.84	-19.22	0.00	-359.65	0.00	359.65	1601.99	801.00	1857.49	930.12	50.25	-5.581	0.000	0.395
90.00	-12.58	-19.06	0.00	-321.20	0.00	321.20	1584.15	792.08	1807.72	905.20	52.60	-5.666	0.000	0.363
92.00	-12.32	-18.90	0.00	-283.07	0.00	283.07	1566.08	783.04	1758.35	880.48	54.99	-5.746	0.000	0.330
94.00	-12.08	-18.74	0.00	-245.27	0.00	245.27	1547.77	773.89	1709.39	855.96	57.41	-5.819	0.000	0.295
96.00	-11.83	-18.58	0.00	-207.78	0.00	207.78	1529.23	764.62	1660.84	831.66	59.86	-5.885	0.000	0.258
98.00	-6.90	-11.65	0.00	-170.62	0.00	170.62	1510.46	755.23	1612.73	807.56	62.34	-5.943	0.000	0.216
98.50	-6.84	-11.61	0.00	-164.79	0.00	164.79	1505.73	752.87	1600.77	801.57	62.96	-5.957	0.000	0.210
100.00	-6.59	-11.48	0.00	-147.38	0.00	147.38	1491.46	745.73	1565.06	783.69	64.83	-5.995	0.000	0.193
102.00	-6.27	-11.30	0.00	-124.43	0.00	124.43	1021.50	510.75	1074.26	537.93	67.35	-6.041	0.000	0.238
104.00	-6.11	-11.14	0.00	-101.83	0.00	101.83	1010.40	505.20	1044.04	522.80	69.88	-6.081	0.000	0.201
106.00	-5.95	-10.99	0.00	-79.55	0.00	79.55	999.06	499.53	1013.99	507.75	72.44	-6.125	0.000	0.163
108.00	-3.54	-6.06	0.00	-57.57	0.00	57.57	987.50	493.75	984.13	492.79	75.01	-6.159	0.000	0.121
109.00	-3.47	-5.98	0.00	-51.51	0.00	51.51	981.63	490.81	969.27	485.35	76.30	-6.173	0.000	0.110
109.00	-3.47	-5.98	0.00	-51.51	0.00	51.51	981.63	490.81	969.27	485.35	76.30	-6.173	0.000	0.110
110.00	-3.40	-5.91	0.00	-45.53	0.00	45.53	975.70	487.85	954.46	477.94	77.59	-6.187	0.000	0.099
112.00	-3.27	-5.76	0.00	-33.72	0.00	33.72	963.67	481.83	925.00	463.19	80.18	-6.209	0.000	0.076
114.00	-3.14	-5.61	0.00	-22.21	0.00	22.21	951.40	475.70	895.76	448.55	82.78	-6.226	0.000	0.053
116.00	-3.01	-5.46	0.00	-10.99	0.00	10.99	938.91	469.45	866.76	434.02	85.39	-6.236	0.000	0.029
118.00	-0.05	-0.07	0.00	-0.07	0.00	0.07	926.18	463.09	838.01	419.63	87.99	-6.240	0.000	0.000
119.00	0.00	-0.06	0.00	0.00	0.00	0.00	919.72	459.86	823.73	412.48	89.30	-6.240	0.000	0.000

Wind Loading - Shaft

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 97 mph Wind

Iterations 25

Dead Load Factor 0.90

Wind Load Factor 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1	1.00	0.85	19.450	21.40	359.45	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT1 RB2	1.00	0.85	19.450	21.40	357.78	0.650	0.000	1.00	4.010	2.61	89.2	0.0	143.0
2.00		1.00	0.85	19.450	21.40	356.10	0.650	0.000	1.00	3.991	2.59	88.8	0.0	142.3
4.00		1.00	0.85	19.450	21.40	352.74	0.650	0.000	2.00	7.926	5.15	176.4	0.0	282.6
6.00		1.00	0.85	19.450	21.40	349.39	0.650	0.000	2.00	7.851	5.10	174.7	0.0	279.9
8.00		1.00	0.85	19.450	21.40	346.04	0.650	0.000	2.00	7.776	5.05	173.0	0.0	277.2
10.00		1.00	0.85	19.450	21.40	342.68	0.650	0.000	2.00	7.701	5.01	171.4	0.0	274.5
12.00		1.00	0.85	19.450	21.40	339.33	0.650	0.000	2.00	7.626	4.96	169.7	0.0	271.9
14.00		1.00	0.85	19.450	21.40	335.97	0.650	0.000	2.00	7.551	4.91	168.0	0.0	269.2
16.00		1.00	0.86	19.690	21.66	334.66	0.650	0.000	2.00	7.476	4.86	168.4	0.0	266.5
18.00		1.00	0.88	20.185	22.20	335.42	0.650	0.000	2.00	7.401	4.81	170.9	0.0	263.8
18.63	RT2	1.00	0.89	20.332	22.36	335.56	0.650	0.000	0.63	2.316	1.51	53.9	0.0	82.5
20.00		1.00	0.90	20.638	22.70	335.71	0.650	0.000	1.37	5.010	3.26	118.3	0.0	178.6
22.00		1.00	0.92	21.056	23.16	335.60	0.650	0.000	2.00	7.251	4.71	174.7	0.0	258.4
24.00		1.00	0.94	21.445	23.59	335.17	0.650	0.000	2.00	7.176	4.66	176.1	0.0	255.7
26.00		1.00	0.95	21.810	23.99	334.45	0.650	0.000	2.00	7.101	4.62	177.2	0.0	253.0
28.00		1.00	0.97	22.152	24.37	333.49	0.650	0.000	2.00	7.026	4.57	178.1	0.0	250.3
30.00		1.00	0.98	22.477	24.72	332.32	0.650	0.000	2.00	6.951	4.52	178.7	0.0	247.6
32.00		1.00	1.00	22.784	25.06	330.95	0.650	0.000	2.00	6.876	4.47	179.2	0.0	244.9
34.00		1.00	1.01	23.077	25.38	329.42	0.650	0.000	2.00	6.801	4.42	179.5	0.0	242.2
36.00		1.00	1.02	23.356	25.69	327.73	0.650	0.000	2.00	6.726	4.37	179.7	0.0	239.5
38.00		1.00	1.03	23.623	25.99	325.90	0.650	0.000	2.00	6.651	4.32	179.7	0.0	236.8
40.00		1.00	1.04	23.880	26.27	323.95	0.650	0.000	2.00	6.576	4.27	179.6	0.0	234.2
42.00		1.00	1.05	24.126	26.54	321.88	0.650	0.000	2.00	6.501	4.23	179.4	0.0	231.5
44.00		1.00	1.06	24.364	26.80	319.71	0.650	0.000	2.00	6.426	4.18	179.1	0.0	228.8
46.00		1.00	1.07	24.593	27.05	317.43	0.650	0.000	2.00	6.351	4.13	178.7	0.0	226.1
48.00		1.00	1.08	24.814	27.30	315.07	0.650	0.000	2.00	6.276	4.08	178.2	0.0	223.4
48.50	Bot - Section 2	1.00	1.09	24.869	27.36	314.47	0.650	0.000	0.50	1.557	1.01	44.3	0.0	55.4
50.00		1.00	1.09	25.029	27.53	312.62	0.650	0.000	1.50	4.707	3.06	134.8	0.0	299.5
52.00		1.00	1.10	25.236	27.76	310.09	0.650	0.000	2.00	6.210	4.04	179.3	0.0	395.1
53.25	Top - Section 1	1.00	1.11	25.363	27.90	308.48	0.650	0.000	1.25	3.843	2.50	111.5	0.0	244.5
54.00		1.00	1.11	25.437	27.98	311.82	0.650	0.000	0.75	2.292	1.49	66.7	0.0	65.4
56.00		1.00	1.12	25.633	28.20	309.17	0.650	0.000	2.00	6.060	3.94	177.7	0.0	172.8
58.00		1.00	1.13	25.823	28.41	306.44	0.650	0.000	2.00	5.985	3.89	176.8	0.0	170.7
60.00		1.00	1.14	26.008	28.61	303.66	0.650	0.000	2.00	5.910	3.84	175.9	0.0	168.5
62.00		1.00	1.14	26.188	28.81	300.82	0.650	0.000	2.00	5.835	3.79	174.8	0.0	166.4
64.00		1.00	1.15	26.364	29.00	297.92	0.650	0.000	2.00	5.760	3.74	173.7	0.0	164.2
66.00		1.00	1.16	26.535	29.19	294.97	0.650	0.000	2.00	5.685	3.70	172.6	0.0	162.0
68.00		1.00	1.17	26.702	29.37	291.97	0.650	0.000	2.00	5.610	3.65	171.4	0.0	159.9
70.00		1.00	1.17	26.866	29.55	288.92	0.650	0.000	2.00	5.535	3.60	170.1	0.0	157.7
72.00		1.00	1.18	27.026	29.73	285.82	0.650	0.000	2.00	5.460	3.55	168.8	0.0	155.6
74.00		1.00	1.19	27.182	29.90	282.68	0.650	0.000	2.00	5.385	3.50	167.5	0.0	153.4
76.00		1.00	1.19	27.335	30.07	279.50	0.650	0.000	2.00	5.310	3.45	166.1	0.0	151.3
78.00	Appurtenance(s)	1.00	1.20	27.485	30.23	276.28	0.650	0.000	2.00	5.235	3.40	164.6	0.0	149.1
80.00		1.00	1.21	27.632	30.39	273.01	0.650	0.000	2.00	5.160	3.35	163.1	0.0	147.0
82.00		1.00	1.21	27.776	30.55	269.72	0.650	0.000	2.00	5.085	3.31	161.6	0.0	144.8
84.00		1.00	1.22	27.917	30.71	266.38	0.650	0.000	2.00	5.010	3.26	160.0	0.0	142.7

Wind Loading - Shaft

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 21
	Struct Class: II	



86.00	1.00	1.23	28.056	30.86	263.01	0.650	0.000	2.00	4.935	3.21	158.4	0.0	140.5			
88.00 Appurtenance(s)	1.00	1.23	28.192	31.01	259.61	0.650	0.000	2.00	4.860	3.16	156.7	0.0	138.4			
90.00	1.00	1.24	28.325	31.16	256.18	0.650	0.000	2.00	4.785	3.11	155.1	0.0	136.2			
92.00	1.00	1.24	28.457	31.30	252.72	0.650	0.000	2.00	4.710	3.06	153.3	0.0	134.0			
94.00	1.00	1.25	28.586	31.44	249.22	0.650	0.000	2.00	4.635	3.01	151.6	0.0	131.9			
96.00	1.00	1.25	28.713	31.58	245.70	0.650	0.000	2.00	4.560	2.96	149.8	0.0	129.7			
98.00 Appurtenance(s)	1.00	1.26	28.838	31.72	242.15	0.650	0.000	2.00	4.485	2.92	148.0	0.0	127.6			
98.50 Bot - Section 3	1.00	1.26	28.869	31.76	241.26	0.650	0.000	0.50	1.110	0.72	36.6	0.0	31.6			
100.00	1.00	1.27	28.961	31.86	238.57	0.650	0.000	1.50	3.348	2.18	110.9	0.0	165.5			
102.00 Top - Section 2	1.00	1.27	29.082	31.99	234.97	0.650	0.000	2.00	4.398	2.86	146.3	0.0	217.3			
104.00	1.00	1.28	29.201	32.12	234.81	0.650	0.000	2.00	4.323	2.81	144.4	0.0	92.4			
106.00	1.00	1.28	29.318	32.25	231.17	0.650	0.000	2.00	4.248	2.76	142.5	0.0	90.8			
108.00 Appurtenance(s)	1.00	1.29	29.434	32.38	227.50	0.650	0.000	2.00	4.173	2.71	140.5	0.0	89.2			
109.00 Top - Section 3	1.00	1.29	29.491	32.44	225.65	0.650	0.000	1.00	2.059	1.34	69.5	0.0	44.0			
110.00	1.00	1.29	29.548	32.50	223.80	0.650	0.000	1.00	2.040	1.33	69.0	0.0	43.6			
112.00	1.00	1.30	29.660	32.63	220.08	0.650	0.000	2.00	4.023	2.62	136.5	0.0	86.0			
114.00	1.00	1.30	29.771	32.75	216.34	0.650	0.000	2.00	3.948	2.57	134.5	0.0	84.4			
116.00	1.00	1.31	29.880	32.87	212.58	0.650	0.000	2.00	3.873	2.52	132.4	0.0	82.7			
118.00 Appurtenance(s)	1.00	1.31	29.988	32.99	208.80	0.650	0.000	2.00	3.798	2.47	130.3	0.0	81.1			
119.00	1.00	1.31	30.041	33.05	206.90	0.650	0.000	1.00	1.871	1.22	64.3	0.0	40.0			
Totals:								119.00				9,832.4				11,617.3

Discrete Appurtenance Forces

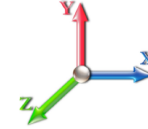
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	118.00	(3) T-Arm Kit	1	29.988	32.986	0.75	0.75	12.38	450.00	0.000	0.000	653.13	0.00	0.00
2	118.00	BXA-70063-6BF	3	29.988	32.986	0.56	0.80	12.72	45.90	0.000	0.000	671.21	0.00	0.00
3	118.00	T-Arm	3	29.988	32.986	0.56	0.75	16.88	945.00	0.000	0.000	890.63	0.00	0.00
4	118.00	Commscope	6	29.988	32.986	0.66	0.80	32.19	235.98	0.000	0.000	1698.97	0.00	0.00
5	118.00	Samsung MT6407-77A	3	29.988	32.986	0.56	0.80	7.88	214.38	0.000	0.000	415.85	0.00	0.00
6	118.00	B2/B66A RRH-BR049	3	29.988	32.986	0.54	0.80	3.01	227.88	0.000	0.000	158.70	0.00	0.00
7	118.00	BSAMNT-SBS-1-2	3	29.988	32.986	0.75	0.75	0.00	68.45	0.000	0.000	0.00	0.00	0.00
8	118.00	Collar	1	29.988	32.986	0.75	0.75	1.88	135.54	0.000	0.000	98.96	0.00	0.00
9	118.00	Samsung B5/B13	3	29.988	32.986	0.54	0.80	3.02	189.81	0.000	0.000	159.55	0.00	0.00
10	118.00	Raycap	1	29.988	32.986	0.80	0.80	3.03	28.80	0.000	0.000	160.02	0.00	0.00
11	108.00	ACU-A20-N	4	29.434	32.377	0.54	0.80	0.30	3.60	0.000	0.000	15.55	0.00	0.00
12	108.00	840 10054	3	29.434	32.377	0.49	0.80	6.72	94.50	0.000	0.000	348.11	0.00	0.00
13	108.00	APXVSP18-C-A20	2	29.434	32.377	0.66	0.80	10.65	102.60	0.000	0.000	551.74	0.00	0.00
14	108.00	800 MHz	3	29.434	32.377	0.54	0.80	4.00	143.10	0.000	0.000	207.42	0.00	0.00
15	108.00	800 MHz Filters	3	29.434	32.377	0.54	0.80	3.86	172.80	0.000	0.000	199.92	0.00	0.00
16	108.00	T-Arm	3	29.434	32.377	0.56	0.75	13.50	945.00	0.000	0.000	699.35	0.00	0.00
17	108.00	APXVTM14-C-120	3	29.434	32.377	0.63	0.80	12.02	151.20	0.000	0.000	622.71	0.00	0.00
18	108.00	Horizon	2	29.434	32.377	0.80	0.80	0.69	19.08	0.000	0.000	35.64	0.00	0.00
19	108.00	P40-16-XLPP-RR-A	1	29.434	32.377	0.80	0.80	7.26	47.70	0.000	0.000	376.30	0.00	0.00
20	108.00	TD-RRH8x20-25	3	29.434	32.377	0.54	0.80	6.51	189.00	0.000	0.000	337.37	0.00	0.00
21	108.00	VHLP2.5	2	29.434	32.377	1.00	1.00	16.86	85.68	0.000	0.000	873.41	0.00	0.00
22	108.00	1900MHz RRH	3	29.434	32.377	0.40	0.80	4.56	118.80	0.000	0.000	236.22	0.00	0.00
23	98.00	Ericsson Air6419 N77G	3	28.838	31.722	0.57	0.75	6.50	149.58	0.000	0.000	329.80	0.00	0.00
24	98.00	Raycap DC6-48-60-0-8F	3	28.838	31.722	0.75	0.75	2.07	85.86	0.000	0.000	105.06	0.00	0.00
25	98.00	Cci TPA-65R-BU6DA	3	28.838	31.722	0.54	0.75	20.85	142.02	0.000	0.000	1058.20	0.00	0.00
26	98.00	Cci DMP65R-BU6DA	3	28.838	31.722	0.54	0.75	20.59	214.38	0.000	0.000	1045.05	0.00	0.00
27	98.00	AIR 6449 N77D	3	28.838	31.722	0.64	0.75	7.90	237.60	0.000	0.000	400.89	0.00	0.00
28	98.00	F3P-12-WLL	1	28.838	31.722	1.00	1.00	56.18	2507.40	0.000	0.000	2851.39	0.00	0.00
29	98.00	Ericsson RRUS 4478 B14	3	28.838	31.722	0.38	0.75	1.86	160.38	0.000	0.000	94.21	0.00	0.00
30	98.00	Ericsson RRUS 4449	3	28.838	31.722	0.38	0.75	2.22	191.70	0.000	0.000	112.48	0.00	0.00
31	98.00	Ericsson RRUS 8843	3	28.838	31.722	0.38	0.75	1.86	202.50	0.000	0.000	94.21	0.00	0.00
32	98.00	Ericsson RRUS 32	3	28.838	31.722	0.38	0.75	3.08	143.10	0.000	0.000	156.45	0.00	0.00
33	88.00	AIR32	3	28.192	31.011	0.70	0.80	13.59	356.94	0.000	0.000	674.44	0.00	0.00
34	88.00	APXVAARR24_43-U-NA2	3	28.192	31.011	0.56	0.80	34.00	345.60	0.000	0.000	1687.15	0.00	0.00
35	88.00	Ericsson AIR 21 B2A/B4P	3	28.192	31.011	0.69	0.80	12.57	245.70	0.000	0.000	623.68	0.00	0.00
36	88.00	T-Arm w/ mod	3	28.192	31.011	0.56	0.75	23.63	945.00	0.000	0.000	1172.21	0.00	0.00
37	88.00	KRY 112 144/2	3	28.192	31.011	0.56	0.80	0.69	29.70	0.000	0.000	34.18	0.00	0.00
38	88.00	4449 B71 + B85	3	28.192	31.011	0.54	0.80	4.13	199.80	0.000	0.000	205.05	0.00	0.00
39	78.00	MC-PK8-DSH	1	27.485	30.233	1.00	1.00	37.59	1554.30	0.000	0.000	1818.35	0.00	0.00
40	78.00	Raycap	1	27.485	30.233	0.75	0.75	1.51	19.71	0.000	0.000	72.92	0.00	0.00
41	78.00	Fujitsu TA08025-B604	3	27.485	30.233	0.50	0.75	2.95	172.53	0.000	0.000	142.93	0.00	0.00
42	78.00	Fujitsu TA08025-B605	3	27.485	30.233	0.50	0.75	2.95	202.50	0.000	0.000	142.93	0.00	0.00
43	78.00	JMA Wireless	3	27.485	30.233	0.55	0.75	20.80	174.15	0.000	0.000	1005.96	0.00	0.00

Totals: 12,895.25

23,238.34

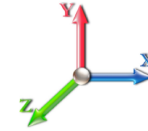
Total Applied Force Summary

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 23
	Struct Class: II	



Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		89.23	181.88	0.00	0.00
2.00		88.81	181.21	0.00	0.00
4.00		176.37	360.40	0.00	0.00
6.00		174.70	357.71	0.00	0.00
8.00		173.03	355.01	0.00	0.00
10.00		171.36	352.32	0.00	0.00
12.00		169.69	349.63	0.00	0.00
14.00		168.02	346.94	0.00	0.00
16.00		168.41	344.24	0.00	0.00
18.00		170.90	341.55	0.00	0.00
18.63		53.86	107.03	0.00	0.00
20.00		118.29	231.83	0.00	0.00
22.00		174.66	336.16	0.00	0.00
24.00		176.05	333.47	0.00	0.00
26.00		177.17	330.78	0.00	0.00
28.00		178.06	328.08	0.00	0.00
30.00		178.73	325.39	0.00	0.00
32.00		179.22	322.70	0.00	0.00
34.00		179.54	320.01	0.00	0.00
36.00		179.71	317.31	0.00	0.00
38.00		179.74	314.62	0.00	0.00
40.00		179.65	311.93	0.00	0.00
42.00		179.43	309.23	0.00	0.00
44.00		179.10	306.54	0.00	0.00
46.00		178.68	303.85	0.00	0.00
48.00		178.16	301.16	0.00	0.00
48.50		44.30	74.87	0.00	0.00
50.00		134.78	357.86	0.00	0.00
52.00		179.30	472.90	0.00	0.00
53.25		111.52	293.10	0.00	0.00
54.00		66.70	94.53	0.00	0.00
56.00		177.71	250.60	0.00	0.00
58.00		176.82	248.44	0.00	0.00
60.00		175.85	246.29	0.00	0.00
62.00		174.82	244.13	0.00	0.00
64.00		173.73	241.98	0.00	0.00
66.00		172.58	239.82	0.00	0.00
68.00		171.38	237.67	0.00	0.00
70.00		170.12	235.52	0.00	0.00
72.00		168.82	233.36	0.00	0.00
74.00		167.46	231.21	0.00	0.00
76.00		166.06	229.05	0.00	0.00
78.00	(11) attachments	3347.70	2350.09	0.00	0.00
80.00		163.12	222.67	0.00	0.00
82.00		161.58	220.52	0.00	0.00
84.00		160.01	218.37	0.00	0.00

Total Applied Force Summary

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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86.00		158.40	216.21	0.00	0.00
88.00	(18) attachments	4553.46	2336.80	0.00	0.00
90.00		155.06	186.16	0.00	0.00
92.00		153.33	184.00	0.00	0.00
94.00		151.58	181.85	0.00	0.00
96.00		149.78	179.70	0.00	0.00
98.00	(28) attachments	6395.73	4212.06	0.00	0.00
98.50		36.64	39.85	0.00	0.00
100.00		110.92	190.33	0.00	0.00
102.00		146.33	250.47	0.00	0.00
104.00		144.43	125.58	0.00	0.00
106.00		142.49	123.97	0.00	0.00
108.00	(32) attachments	4644.25	2195.41	0.00	0.00
109.00		69.45	56.27	0.00	0.00
110.00		68.95	55.87	0.00	0.00
112.00		136.52	110.52	0.00	0.00
114.00		134.47	108.91	0.00	0.00
116.00		132.40	107.29	0.00	0.00
118.00	(27) attachments	5037.34	2647.41	0.00	0.00
119.00		64.30	39.96	0.00	0.00
Totals:		33,070.76	28,462.54	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



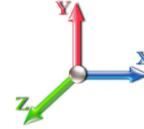
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Load Case: 0.9D + 1.6W 97 mph Wind

Iterations 25

Dead Load Factor 0.90

Wind Load Factor 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.063	0.000	19.450	0.00	1.98
1.00	1.411" Hybrid	Yes	1.00	0.000	1.41	0.12	0.00	0.063	0.000	19.450	0.00	1.03
1.00	1" Reinforcing plate	Yes	1.00	0.000	0.00	0.00	0.00	0.063	0.000	19.450	0.00	0.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.063	0.000	19.450	0.00	1.98
2.00	1.411" Hybrid	Yes	1.00	0.000	1.41	0.12	0.00	0.063	0.000	19.450	0.00	1.03
2.00	1" Reinforcing plate	Yes	1.00	0.000	0.00	0.00	0.00	0.063	0.000	19.450	0.00	0.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.064	0.000	19.450	0.00	3.96
4.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.064	0.000	19.450	0.00	2.07
4.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	19.450	0.00	0.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	19.450	0.00	3.96
6.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.065	0.000	19.450	0.00	2.07
6.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	19.450	0.00	0.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	19.450	0.00	3.96
8.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.065	0.000	19.450	0.00	2.07
8.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	19.450	0.00	0.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.066	0.000	19.450	0.00	3.96
10.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.066	0.000	19.450	0.00	2.07
10.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	19.450	0.00	0.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.066	0.000	19.450	0.00	3.96
12.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.066	0.000	19.450	0.00	2.07
12.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	19.450	0.00	0.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.067	0.000	19.450	0.00	3.96
14.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.067	0.000	19.450	0.00	2.07
14.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	19.450	0.00	0.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	19.690	0.00	3.96
16.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.068	0.000	19.690	0.00	2.07
16.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	19.690	0.00	0.00
18.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	20.185	0.00	3.96
18.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.068	0.000	20.185	0.00	2.07
18.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	20.185	0.00	0.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	1.63	0.09	0.00	0.069	0.000	20.332	0.00	1.25
18.63	1.411" Hybrid	Yes	0.63	0.000	1.41	0.07	0.00	0.069	0.000	20.332	0.00	0.65
18.63	1" Reinforcing plate	Yes	0.63	0.000	0.00	0.00	0.00	0.069	0.000	20.332	0.00	0.00
20.00	1 5/8" Hybrid	Yes	1.37	0.000	1.63	0.19	0.00	0.069	0.000	20.638	0.00	2.71
20.00	1.411" Hybrid	Yes	1.37	0.000	1.41	0.16	0.00	0.069	0.000	20.638	0.00	1.42
20.00	1" Reinforcing plate	Yes	1.37	0.000	0.00	0.00	0.00	0.069	0.000	20.638	0.00	0.00
22.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.070	0.000	21.056	0.00	3.96
22.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.070	0.000	21.056	0.00	2.07
24.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.071	0.000	21.445	0.00	3.96
24.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.071	0.000	21.445	0.00	2.07
26.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.071	0.000	21.810	0.00	3.96
26.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.071	0.000	21.810	0.00	2.07
28.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.072	0.000	22.152	0.00	3.96
28.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.072	0.000	22.152	0.00	2.07
30.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.073	0.000	22.477	0.00	3.96
30.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.073	0.000	22.477	0.00	2.07
32.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.074	0.000	22.784	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



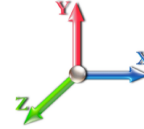
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Load Case: 0.9D + 1.6W 97 mph Wind

Iterations 25

Dead Load Factor 0.90

Wind Load Factor 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
32.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.074	0.000	22.784	0.00	2.07
34.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.074	0.000	23.077	0.00	3.96
34.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.074	0.000	23.077	0.00	2.07
36.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.075	0.000	23.356	0.00	3.96
36.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.075	0.000	23.356	0.00	2.07
38.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.076	0.000	23.623	0.00	3.96
38.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.076	0.000	23.623	0.00	2.07
40.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.077	0.000	23.880	0.00	3.96
40.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.077	0.000	23.880	0.00	2.07
42.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.078	0.000	24.126	0.00	3.96
42.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.078	0.000	24.126	0.00	2.07
44.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.079	0.000	24.364	0.00	3.96
44.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.079	0.000	24.364	0.00	2.07
46.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.080	0.000	24.593	0.00	3.96
46.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.080	0.000	24.593	0.00	2.07
48.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.081	0.000	24.814	0.00	3.96
48.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.081	0.000	24.814	0.00	2.07
48.50	1 5/8" Hybrid	Yes	0.50	0.000	1.63	0.07	0.00	0.081	0.000	24.869	0.00	0.99
48.50	1.411" Hybrid	Yes	0.50	0.000	1.41	0.06	0.00	0.081	0.000	24.869	0.00	0.52
50.00	1 5/8" Hybrid	Yes	1.50	0.000	1.63	0.20	0.00	0.082	0.000	25.029	0.00	2.97
50.00	1.411" Hybrid	Yes	1.50	0.000	1.41	0.18	0.00	0.082	0.000	25.029	0.00	1.55
52.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.083	0.000	25.236	0.00	3.96
52.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.083	0.000	25.236	0.00	2.07
53.25	1 5/8" Hybrid	Yes	1.25	0.000	1.63	0.17	0.00	0.084	0.000	25.363	0.00	2.48
53.25	1.411" Hybrid	Yes	1.25	0.000	1.41	0.15	0.00	0.084	0.000	25.363	0.00	1.29
54.00	1 5/8" Hybrid	Yes	0.75	0.000	1.63	0.10	0.00	0.083	0.000	25.437	0.00	1.49
54.00	1.411" Hybrid	Yes	0.75	0.000	1.41	0.09	0.00	0.083	0.000	25.437	0.00	0.78
56.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.084	0.000	25.633	0.00	3.96
56.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.084	0.000	25.633	0.00	2.07
58.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.085	0.000	25.823	0.00	3.96
58.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.085	0.000	25.823	0.00	2.07
60.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.086	0.000	26.008	0.00	3.96
60.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.086	0.000	26.008	0.00	2.07
62.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.087	0.000	26.188	0.00	3.96
62.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.087	0.000	26.188	0.00	2.07
64.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.088	0.000	26.364	0.00	3.96
64.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.088	0.000	26.364	0.00	2.07
66.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.089	0.000	26.535	0.00	3.96
66.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.089	0.000	26.535	0.00	2.07
68.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.090	0.000	26.702	0.00	3.96
68.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.090	0.000	26.702	0.00	2.07
70.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.092	0.000	26.866	0.00	3.96
70.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.092	0.000	26.866	0.00	2.07
72.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.093	0.000	27.026	0.00	3.96
72.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.093	0.000	27.026	0.00	2.07
74.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.094	0.000	27.182	0.00	3.96
74.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.094	0.000	27.182	0.00	2.07

Linear Appurtenance Segment Forces (Factored)

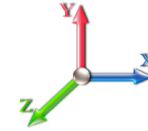
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 97 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
76.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.095	0.000	27.335	0.00	3.96
76.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.095	0.000	27.335	0.00	2.07
78.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.097	0.000	27.485	0.00	3.96
78.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.097	0.000	27.485	0.00	2.07
80.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.053	0.000	27.632	0.00	3.96
82.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.053	0.000	27.776	0.00	3.96
84.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.054	0.000	27.917	0.00	3.96
86.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.055	0.000	28.056	0.00	3.96
88.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.056	0.000	28.192	0.00	3.96
90.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.057	0.000	28.325	0.00	3.96
92.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.058	0.000	28.457	0.00	3.96
94.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.059	0.000	28.586	0.00	3.96
96.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.060	0.000	28.713	0.00	3.96
98.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.061	0.000	28.838	0.00	3.96
98.50	1 5/8" Hybrid	Yes	0.50	0.000	1.63	0.07	0.00	0.061	0.000	28.869	0.00	0.99
100.00	1 5/8" Hybrid	Yes	1.50	0.000	1.63	0.20	0.00	0.062	0.000	28.961	0.00	2.97
102.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.063	0.000	29.082	0.00	3.96
104.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.063	0.000	29.201	0.00	3.96
106.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.064	0.000	29.318	0.00	3.96
108.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	29.434	0.00	3.96
109.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.066	0.000	29.491	0.00	1.98
110.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.067	0.000	29.548	0.00	1.98
112.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	29.660	0.00	3.96
114.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.069	0.000	29.771	0.00	3.96
116.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.070	0.000	29.880	0.00	3.96
118.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.072	0.000	29.988	0.00	3.96
Totals:											0.0	314.4

Calculated Forces

Structure: CT08558-B-SBA
Site Name: New Britain 3, CT
Height: 119.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

6/17/2022

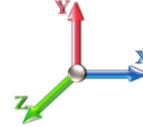


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Load Case: 0.9D + 1.6W 97 mph Wind

Iterations 25

Dead Load Factor 0.90
Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-28.44	-33.09	0.00	-2972.4	0.00	2972.40	3013.27	1506.63	5849.73	2929.21	0.00	0.000	0.000	0.914
1.00	-28.23	-33.02	0.00	-2939.3	0.00	2939.32	3005.28	1502.64	5806.64	2907.64	0.01	-0.057	0.000	0.800
2.00	-28.01	-32.97	0.00	-2906.2	0.00	2906.29	2997.23	1498.62	5763.59	2886.08	0.02	-0.107	0.000	0.797
4.00	-27.59	-32.84	0.00	-2840.3	0.00	2840.35	2980.97	1490.49	5677.59	2843.02	0.09	-0.208	0.000	0.788
6.00	-27.18	-32.71	0.00	-2774.6	0.00	2774.67	2964.47	1482.24	5591.76	2800.03	0.20	-0.308	0.000	0.780
8.00	-26.76	-32.58	0.00	-2709.2	0.00	2709.25	2947.74	1473.87	5506.09	2757.14	0.35	-0.409	0.000	0.772
10.00	-26.36	-32.46	0.00	-2644.0	0.00	2644.08	2930.78	1465.39	5420.60	2714.33	0.54	-0.510	0.000	0.763
12.00	-25.95	-32.33	0.00	-2579.1	0.00	2579.17	2913.58	1456.79	5335.32	2671.62	0.78	-0.611	0.000	0.755
14.00	-25.55	-32.20	0.00	-2514.5	0.00	2514.51	2896.16	1448.08	5250.24	2629.02	1.06	-0.713	0.000	0.746
16.00	-25.15	-32.07	0.00	-2450.1	0.00	2450.11	2878.49	1439.25	5165.38	2586.53	1.38	-0.815	0.000	0.737
18.00	-24.77	-31.93	0.00	-2385.9	0.00	2385.96	2860.60	1430.30	5080.76	2544.16	1.74	-0.916	0.000	0.728
18.63	-24.64	-31.89	0.00	-2365.8	0.00	2365.84	2854.92	1427.46	5054.16	2530.83	1.87	-0.949	0.000	0.725
18.63	-24.64	-31.89	0.00	-2365.8	0.00	2365.84	2854.92	1427.46	5054.16	2530.83	1.87	-0.949	0.000	0.725
20.00	-24.35	-31.82	0.00	-2322.1	0.00	2322.15	2842.47	1421.24	4996.39	2501.91	2.15	-1.019	0.000	0.937
22.00	-23.95	-31.69	0.00	-2258.5	0.00	2258.52	2824.11	1412.06	4912.27	2459.79	2.60	-1.152	0.000	0.927
24.00	-23.54	-31.56	0.00	-2195.1	0.00	2195.14	2805.52	1402.76	4828.43	2417.81	3.12	-1.286	0.000	0.917
26.00	-23.14	-31.43	0.00	-2132.0	0.00	2132.02	2786.70	1393.35	4744.88	2375.97	3.68	-1.420	0.000	0.906
28.00	-22.75	-31.30	0.00	-2069.1	0.00	2069.15	2767.64	1383.82	4661.63	2334.28	4.31	-1.554	0.000	0.895
30.00	-22.35	-31.16	0.00	-2006.5	0.00	2006.56	2748.35	1374.17	4578.69	2292.75	4.99	-1.688	0.000	0.884
32.00	-21.96	-31.03	0.00	-1944.2	0.00	1944.23	2728.82	1364.41	4496.07	2251.38	5.73	-1.823	0.000	0.872
34.00	-21.58	-30.89	0.00	-1882.1	0.00	1882.18	2709.07	1354.53	4413.79	2210.17	6.52	-1.958	0.000	0.860
36.00	-21.19	-30.75	0.00	-1820.4	0.00	1820.41	2689.08	1344.54	4331.86	2169.15	7.37	-2.092	0.000	0.848
38.00	-20.81	-30.60	0.00	-1758.9	0.00	1758.92	2668.86	1334.43	4250.29	2128.30	8.27	-2.227	0.000	0.835
40.00	-20.44	-30.46	0.00	-1697.7	0.00	1697.71	2648.40	1324.20	4169.10	2087.65	9.24	-2.362	0.000	0.821
42.00	-20.07	-30.31	0.00	-1636.8	0.00	1636.80	2627.71	1313.86	4088.30	2047.19	10.25	-2.496	0.000	0.808
44.00	-19.70	-30.17	0.00	-1576.1	0.00	1576.17	2606.79	1303.40	4007.90	2006.93	11.33	-2.631	0.000	0.793
46.00	-19.33	-30.02	0.00	-1515.8	0.00	1515.83	2585.64	1292.82	3927.91	1966.88	12.46	-2.764	0.000	0.779
48.00	-19.00	-29.86	0.00	-1455.7	0.00	1455.79	2564.25	1282.13	3848.36	1927.04	13.65	-2.898	0.000	0.763
48.50	-18.89	-29.83	0.00	-1440.8	0.00	1440.87	2558.87	1279.44	3828.53	1917.11	13.95	-2.931	0.000	0.760
50.00	-18.48	-29.71	0.00	-1396.1	0.00	1396.12	2542.63	1271.32	3769.24	1887.42	14.89	-3.031	0.000	0.748
52.00	-17.96	-29.54	0.00	-1336.7	0.00	1336.70	2520.78	1260.39	3690.57	1848.03	16.19	-3.163	0.000	0.731
53.25	-17.64	-29.43	0.00	-1299.7	0.00	1299.77	1874.80	937.40	2771.76	1387.94	17.03	-3.246	0.000	0.947
54.00	-17.50	-29.39	0.00	-1277.7	0.00	1277.70	1869.65	934.83	2751.28	1377.68	17.54	-3.295	0.000	0.938
56.00	-17.18	-29.25	0.00	-1218.9	0.00	1218.91	1855.77	927.89	2696.78	1350.40	18.96	-3.450	0.000	0.913
58.00	-16.86	-29.10	0.00	-1160.4	0.00	1160.41	1841.66	920.83	2642.47	1323.20	20.43	-3.603	0.000	0.887
60.00	-16.55	-28.95	0.00	-1102.2	0.00	1102.21	1827.31	913.65	2588.34	1296.09	21.98	-3.754	0.000	0.860
62.00	-16.25	-28.81	0.00	-1044.3	0.00	1044.30	1812.73	906.36	2534.41	1269.09	23.58	-3.903	0.000	0.833
64.00	-15.95	-28.66	0.00	-986.70	0.00	986.70	1797.91	898.96	2480.69	1242.19	25.25	-4.049	0.000	0.804
66.00	-15.65	-28.51	0.00	-929.39	0.00	929.39	1782.87	891.43	2427.20	1215.41	26.97	-4.193	0.000	0.774
68.00	-15.36	-28.35	0.00	-872.38	0.00	872.38	1767.59	883.79	2373.96	1188.74	28.76	-4.334	0.000	0.744
70.00	-15.07	-28.20	0.00	-815.67	0.00	815.67	1752.08	876.04	2320.96	1162.21	30.60	-4.471	0.000	0.711
72.00	-14.78	-28.05	0.00	-759.27	0.00	759.27	1736.33	868.17	2268.23	1135.80	32.50	-4.605	0.000	0.678
74.00	-14.51	-27.90	0.00	-703.17	0.00	703.17	1720.35	860.18	2215.78	1109.54	34.46	-4.734	0.000	0.643
76.00	-14.23	-27.74	0.00	-647.38	0.00	647.38	1704.14	852.07	2163.62	1083.42	36.47	-4.858	0.000	0.607
78.00	-12.13	-24.23	0.00	-591.90	0.00	591.90	1687.70	843.85	2111.76	1057.45	38.53	-4.977	0.000	0.568
80.00	-11.87	-24.07	0.00	-543.44	0.00	543.44	1671.02	835.51	2060.22	1031.64	40.64	-5.091	0.000	0.535
82.00	-11.63	-23.91	0.00	-495.30	0.00	495.30	1654.12	827.06	2009.01	1006.00	42.79	-5.200	0.000	0.500
84.00	-11.38	-23.75	0.00	-447.48	0.00	447.48	1636.97	818.49	1958.14	980.53	44.99	-5.304	0.000	0.464

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 29



86.00	-11.14	-23.59	0.00	-399.98	0.00	399.98	1619.60	809.80	1907.63	955.23	47.23	-5.401	0.000	0.426
88.00	-9.22	-18.85	0.00	-352.80	0.00	352.80	1601.99	801.00	1857.49	930.12	49.51	-5.491	0.000	0.386
90.00	-9.02	-18.69	0.00	-315.10	0.00	315.10	1584.15	792.08	1807.72	905.20	51.83	-5.576	0.000	0.354
92.00	-8.83	-18.53	0.00	-277.71	0.00	277.71	1566.08	783.04	1758.35	880.48	54.18	-5.654	0.000	0.322
94.00	-8.64	-18.37	0.00	-240.65	0.00	240.65	1547.77	773.89	1709.39	855.96	56.56	-5.726	0.000	0.287
96.00	-8.46	-18.22	0.00	-203.90	0.00	203.90	1529.23	764.62	1660.84	831.66	58.97	-5.790	0.000	0.251
98.00	-4.91	-11.43	0.00	-167.47	0.00	167.47	1510.46	755.23	1612.73	807.56	61.40	-5.847	0.000	0.211
98.50	-4.87	-11.39	0.00	-161.76	0.00	161.76	1505.73	752.87	1600.77	801.57	62.01	-5.860	0.000	0.205
100.00	-4.68	-11.26	0.00	-144.67	0.00	144.67	1491.46	745.73	1565.06	783.69	63.86	-5.898	0.000	0.188
102.00	-4.44	-11.10	0.00	-122.14	0.00	122.14	1021.50	510.75	1074.26	537.93	66.34	-5.943	0.000	0.232
104.00	-4.32	-10.94	0.00	-99.95	0.00	99.95	1010.40	505.20	1044.04	522.80	68.83	-5.983	0.000	0.196
106.00	-4.21	-10.79	0.00	-78.07	0.00	78.07	999.06	499.53	1013.99	507.75	71.34	-6.025	0.000	0.158
108.00	-2.51	-5.94	0.00	-56.48	0.00	56.48	987.50	493.75	984.13	492.79	73.87	-6.059	0.000	0.117
109.00	-2.46	-5.87	0.00	-50.54	0.00	50.54	981.63	490.81	969.27	485.35	75.14	-6.073	0.000	0.107
109.00	-2.46	-5.87	0.00	-50.54	0.00	50.54	981.63	490.81	969.27	485.35	75.14	-6.073	0.000	0.107
110.00	-2.41	-5.79	0.00	-44.67	0.00	44.67	975.70	487.85	954.46	477.94	76.41	-6.086	0.000	0.096
112.00	-2.31	-5.65	0.00	-33.09	0.00	33.09	963.67	481.83	925.00	463.19	78.96	-6.108	0.000	0.074
114.00	-2.22	-5.50	0.00	-21.79	0.00	21.79	951.40	475.70	895.76	448.55	81.52	-6.124	0.000	0.051
116.00	-2.13	-5.36	0.00	-10.79	0.00	10.79	938.91	469.45	866.76	434.02	84.08	-6.135	0.000	0.027
118.00	-0.03	-0.07	0.00	-0.07	0.00	0.07	926.18	463.09	838.01	419.63	86.65	-6.138	0.000	0.000
119.00	0.00	-0.06	0.00	0.00	0.00	0.00	919.72	459.86	823.73	412.48	87.93	-6.138	0.000	0.000

Wind Loading - Shaft

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

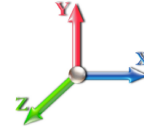


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 25

Dead Load Factor 1.20
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1	1.00	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT1 RB2	1.00	0.85	5.168	5.68	0.00	1.200	1.410	1.00	4.245	5.09	29.0	86.0	276.7
2.00		1.00	0.85	5.168	5.68	0.00	1.200	1.511	1.00	4.243	5.09	28.9	91.9	281.7
4.00		1.00	0.85	5.168	5.68	0.00	1.200	1.620	2.00	8.466	10.16	57.8	195.7	572.5
6.00		1.00	0.85	5.168	5.68	0.00	1.200	1.687	2.00	8.413	10.10	57.4	202.2	575.5
8.00		1.00	0.85	5.168	5.68	0.00	1.200	1.736	2.00	8.355	10.03	57.0	206.4	576.0
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.775	2.00	8.293	9.95	56.6	209.2	575.3
12.00		1.00	0.85	5.168	5.68	0.00	1.200	1.808	2.00	8.229	9.87	56.1	211.2	573.7
14.00		1.00	0.85	5.168	5.68	0.00	1.200	1.836	2.00	8.163	9.80	55.7	212.6	571.5
16.00		1.00	0.86	5.232	5.76	0.00	1.200	1.860	2.00	8.096	9.72	55.9	213.5	568.8
18.00		1.00	0.88	5.363	5.90	0.00	1.200	1.882	2.00	8.029	9.63	56.8	214.0	565.8
18.63	RT2	1.00	0.89	5.402	5.94	0.00	1.200	1.889	0.63	2.514	3.02	17.9	67.5	177.5
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.902	1.37	5.445	6.53	39.4	146.8	384.9
22.00		1.00	0.92	5.595	6.15	0.00	1.200	1.921	2.00	7.891	9.47	58.3	214.3	558.8
24.00		1.00	0.94	5.698	6.27	0.00	1.200	1.937	2.00	7.822	9.39	58.8	214.1	555.0
26.00		1.00	0.95	5.795	6.37	0.00	1.200	1.953	2.00	7.752	9.30	59.3	213.7	551.1
28.00		1.00	0.97	5.886	6.47	0.00	1.200	1.967	2.00	7.682	9.22	59.7	213.2	546.9
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.981	2.00	7.611	9.13	60.0	212.5	542.7
32.00		1.00	1.00	6.054	6.66	0.00	1.200	1.994	2.00	7.541	9.05	60.3	211.8	538.3
34.00		1.00	1.01	6.132	6.74	0.00	1.200	2.006	2.00	7.470	8.96	60.5	210.9	533.9
36.00		1.00	1.02	6.206	6.83	0.00	1.200	2.017	2.00	7.398	8.88	60.6	209.9	529.3
38.00		1.00	1.03	6.277	6.90	0.00	1.200	2.028	2.00	7.327	8.79	60.7	208.8	524.6
40.00		1.00	1.04	6.345	6.98	0.00	1.200	2.039	2.00	7.256	8.71	60.8	207.7	519.9
42.00		1.00	1.05	6.410	7.05	0.00	1.200	2.049	2.00	7.184	8.62	60.8	206.5	515.1
44.00		1.00	1.06	6.474	7.12	0.00	1.200	2.058	2.00	7.112	8.53	60.8	205.2	510.2
46.00		1.00	1.07	6.534	7.19	0.00	1.200	2.068	2.00	7.040	8.45	60.7	203.9	505.3
48.00		1.00	1.08	6.593	7.25	0.00	1.200	2.076	2.00	6.968	8.36	60.6	202.5	500.3
48.50	Bot - Section 2	1.00	1.09	6.608	7.27	0.00	1.200	2.079	0.50	1.730	2.08	15.1	50.5	124.4
50.00		1.00	1.09	6.650	7.32	0.00	1.200	2.085	1.50	5.228	6.27	45.9	152.7	552.1
52.00		1.00	1.10	6.705	7.38	0.00	1.200	2.093	2.00	6.908	8.29	61.1	202.2	729.0
53.25	Top - Section 1	1.00	1.11	6.739	7.41	0.00	1.200	2.098	1.25	4.281	5.14	38.1	125.8	451.8
54.00		1.00	1.11	6.759	7.43	0.00	1.200	2.101	0.75	2.555	3.07	22.8	75.2	162.4
56.00		1.00	1.12	6.811	7.49	0.00	1.200	2.109	2.00	6.763	8.12	60.8	199.1	429.5
58.00		1.00	1.13	6.861	7.55	0.00	1.200	2.116	2.00	6.691	8.03	60.6	197.5	425.0
60.00		1.00	1.14	6.910	7.60	0.00	1.200	2.123	2.00	6.618	7.94	60.4	195.8	420.5
62.00		1.00	1.14	6.958	7.65	0.00	1.200	2.130	2.00	6.545	7.85	60.1	194.1	415.9
64.00		1.00	1.15	7.005	7.71	0.00	1.200	2.137	2.00	6.473	7.77	59.8	192.4	411.3
66.00		1.00	1.16	7.050	7.76	0.00	1.200	2.144	2.00	6.400	7.68	59.6	190.7	406.7
68.00		1.00	1.17	7.095	7.80	0.00	1.200	2.150	2.00	6.327	7.59	59.3	188.9	402.1
70.00		1.00	1.17	7.138	7.85	0.00	1.200	2.156	2.00	6.254	7.50	58.9	187.1	397.4
72.00		1.00	1.18	7.181	7.90	0.00	1.200	2.162	2.00	6.181	7.42	58.6	185.2	392.7
74.00		1.00	1.19	7.222	7.94	0.00	1.200	2.168	2.00	6.108	7.33	58.2	183.3	387.9
76.00		1.00	1.19	7.263	7.99	0.00	1.200	2.174	2.00	6.035	7.24	57.9	181.4	383.2
78.00	Appurtenance(s)	1.00	1.20	7.303	8.03	0.00	1.200	2.180	2.00	5.962	7.15	57.5	179.5	378.4
80.00		1.00	1.21	7.342	8.08	0.00	1.200	2.185	2.00	5.889	7.07	57.1	177.6	373.5
82.00		1.00	1.21	7.380	8.12	0.00	1.200	2.191	2.00	5.815	6.98	56.7	175.6	368.7
84.00		1.00	1.22	7.418	8.16	0.00	1.200	2.196	2.00	5.742	6.89	56.2	173.6	363.8

Wind Loading - Shaft

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 31
	Struct Class: II	



86.00	1.00	1.23	7.454	8.20	0.00	1.200	2.201	2.00	5.669	6.80	55.8	171.6	359.0		
88.00 Appurtenance(s)	1.00	1.23	7.491	8.24	0.00	1.200	2.206	2.00	5.595	6.71	55.3	169.6	354.1		
90.00	1.00	1.24	7.526	8.28	0.00	1.200	2.211	2.00	5.522	6.63	54.9	167.5	349.1		
92.00	1.00	1.24	7.561	8.32	0.00	1.200	2.216	2.00	5.449	6.54	54.4	165.5	344.2		
94.00	1.00	1.25	7.595	8.35	0.00	1.200	2.221	2.00	5.375	6.45	53.9	163.4	339.2		
96.00	1.00	1.25	7.629	8.39	0.00	1.200	2.225	2.00	5.302	6.36	53.4	161.3	334.3		
98.00 Appurtenance(s)	1.00	1.26	7.662	8.43	0.00	1.200	2.230	2.00	5.228	6.27	52.9	159.2	329.3		
98.50 Bot - Section 3	1.00	1.26	7.671	8.44	0.00	1.200	2.231	0.50	1.295	1.55	13.1	39.7	81.7		
100.00	1.00	1.27	7.695	8.46	0.00	1.200	2.234	1.50	3.907	4.69	39.7	119.4	340.0		
102.00 Top - Section 2	1.00	1.27	7.727	8.50	0.00	1.200	2.239	2.00	5.145	6.17	52.5	157.0	446.7		
104.00	1.00	1.28	7.759	8.53	0.00	1.200	2.243	2.00	5.071	6.09	51.9	154.8	278.1		
106.00	1.00	1.28	7.790	8.57	0.00	1.200	2.248	2.00	4.998	6.00	51.4	152.6	273.7		
108.00 Appurtenance(s)	1.00	1.29	7.821	8.60	0.00	1.200	2.252	2.00	4.924	5.91	50.8	150.5	269.4		
109.00 Top - Section 3	1.00	1.29	7.836	8.62	0.00	1.200	2.254	1.00	2.434	2.92	25.2	74.7	133.3		
110.00	1.00	1.29	7.851	8.64	0.00	1.200	2.256	1.00	2.416	2.90	25.0	74.1	132.2		
112.00	1.00	1.30	7.881	8.67	0.00	1.200	2.260	2.00	4.777	5.73	49.7	146.0	260.7		
114.00	1.00	1.30	7.910	8.70	0.00	1.200	2.264	2.00	4.703	5.64	49.1	143.8	256.3		
116.00	1.00	1.31	7.939	8.73	0.00	1.200	2.268	2.00	4.629	5.56	48.5	141.5	251.9		
118.00 Appurtenance(s)	1.00	1.31	7.968	8.76	0.00	1.200	2.272	2.00	4.556	5.47	47.9	139.3	247.4		
119.00	1.00	1.31	7.982	8.78	0.00	1.200	2.274	1.00	2.250	2.70	23.7	69.1	122.3		
Totals:								119.00				3,384.0			26,610.8

Discrete Appurtenance Forces

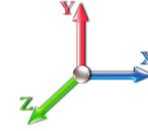
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	118.00	(3) T-Arm Kit	1	7.968	8.765	0.75	0.75	28.12	1222.41	0.000	0.000	246.45	0.00	0.00
2	118.00	BXA-70063-6BF	3	7.968	8.765	0.56	0.80	18.76	492.80	0.000	0.000	164.44	0.00	0.00
3	118.00	T-Arm	3	7.968	8.765	0.56	0.75	36.04	1824.15	0.000	0.000	315.90	0.00	0.00
4	118.00	Commscope	6	7.968	8.765	0.66	0.80	39.03	1981.40	0.000	0.000	342.09	0.00	0.00
5	118.00	Samsung MT6407-77A	3	7.968	8.765	0.56	0.80	9.98	782.78	0.000	0.000	87.47	0.00	0.00
6	118.00	B2/B66A RRH-BR049	3	7.968	8.765	0.54	0.80	4.24	625.15	0.000	0.000	37.18	0.00	0.00
7	118.00	BSAMNT-SBS-1-2	3	7.968	8.765	0.75	0.75	0.00	156.92	0.000	0.000	0.00	0.00	0.00
8	118.00	Collar	1	7.968	8.765	0.75	0.75	4.43	388.12	0.000	0.000	38.83	0.00	0.00
9	118.00	Samsung B5/B13	3	7.968	8.765	0.54	0.80	4.18	408.20	0.000	0.000	36.61	0.00	0.00
10	118.00	Raycap	1	7.968	8.765	0.80	0.80	3.89	212.62	0.000	0.000	34.12	0.00	0.00
11	108.00	ACU-A20-N	4	7.821	8.603	0.54	0.80	1.12	21.77	0.000	0.000	9.64	0.00	0.00
12	108.00	840 10054	3	7.821	8.603	0.49	0.80	9.88	379.88	0.000	0.000	84.99	0.00	0.00
13	108.00	APXVSP18-C-A20	2	7.821	8.603	0.66	0.80	15.44	483.84	0.000	0.000	132.80	0.00	0.00
14	108.00	800 MHz	3	7.821	8.603	0.54	0.80	6.38	413.78	0.000	0.000	54.86	0.00	0.00
15	108.00	800 MHz Filters	3	7.821	8.603	0.54	0.80	6.18	462.93	0.000	0.000	53.17	0.00	0.00
16	108.00	T-Arm	3	7.821	8.603	0.56	0.75	28.70	1995.74	0.000	0.000	246.89	0.00	0.00
17	108.00	APXVTM14-C-120	3	7.821	8.603	0.63	0.80	14.79	859.41	0.000	0.000	127.28	0.00	0.00
18	108.00	Horizon	2	7.821	8.603	0.80	0.80	1.74	70.78	0.000	0.000	15.00	0.00	0.00
19	108.00	P40-16-XLPP-RR-A	1	7.821	8.603	0.80	0.80	8.57	347.29	0.000	0.000	73.77	0.00	0.00
20	108.00	TD-RRH8x20-25	3	7.821	8.603	0.54	0.80	8.24	705.92	0.000	0.000	70.86	0.00	0.00
21	108.00	VHLP2.5	2	7.821	8.603	1.00	1.00	21.26	461.07	0.000	0.000	182.93	0.00	0.00
22	108.00	1900MHz RRH	3	7.821	8.603	0.40	0.80	6.71	487.34	0.000	0.000	57.74	0.00	0.00
23	98.00	Ericsson Air6419 N77G	3	7.662	8.429	0.57	0.75	8.24	408.34	0.000	0.000	69.42	0.00	0.00
24	98.00	Raycap DC6-48-60-0-8F	3	7.662	8.429	0.75	0.75	3.33	298.37	0.000	0.000	28.06	0.00	0.00
25	98.00	Cci TPA-65R-BU6DA	3	7.662	8.429	0.54	0.75	23.90	831.59	0.000	0.000	201.44	0.00	0.00
26	98.00	Cci DMP65R-BU6DA	3	7.662	8.429	0.54	0.75	23.62	1213.02	0.000	0.000	199.09	0.00	0.00
27	98.00	AIR 6449 N77D	3	7.662	8.429	0.64	0.75	10.03	871.66	0.000	0.000	84.56	0.00	0.00
28	98.00	F3P-12-WLL	1	7.662	8.429	1.00	1.00	146.38	6393.33	0.000	0.000	1233.78	0.00	0.00
29	98.00	Ericsson RRUS 4478 B14	3	7.662	8.429	0.38	0.75	2.60	344.59	0.000	0.000	21.93	0.00	0.00
30	98.00	Ericsson RRUS 4449	3	7.662	8.429	0.38	0.75	3.00	419.42	0.000	0.000	25.31	0.00	0.00
31	98.00	Ericsson RRUS 8843	3	7.662	8.429	0.38	0.75	2.65	576.21	0.000	0.000	22.36	0.00	0.00
32	98.00	Ericsson RRUS 32	3	7.662	8.429	0.38	0.75	4.15	550.96	0.000	0.000	35.00	0.00	0.00
33	88.00	AIR32	3	7.491	8.240	0.70	0.80	16.73	1209.32	0.000	0.000	137.84	0.00	0.00
34	88.00	APXVAARR24_43-U-NA2	3	7.491	8.240	0.60	0.80	40.80	2099.33	0.000	0.000	336.16	0.00	0.00
35	88.00	Ericsson AIR 21 B2A/B4P	3	7.491	8.240	0.69	0.80	15.48	1001.24	0.000	0.000	127.58	0.00	0.00
36	88.00	T-Arm w/ mod	3	7.491	8.240	0.56	0.75	49.68	1976.57	0.000	0.000	409.39	0.00	0.00
37	88.00	KRY 112 144/2	3	7.491	8.240	0.60	0.80	1.82	71.19	0.000	0.000	14.99	0.00	0.00
38	88.00	4449 B71 + B85	3	7.491	8.240	0.54	0.80	5.45	659.28	0.000	0.000	44.87	0.00	0.00
39	78.00	MC-PK8-DSH	1	7.303	8.033	1.00	1.00	96.58	3807.39	0.000	0.000	775.85	0.00	0.00
40	78.00	Raycap	1	7.303	8.033	0.75	0.75	2.04	80.08	0.000	0.000	16.39	0.00	0.00
41	78.00	Fujitsu TA08025-B604	3	7.303	8.033	0.50	0.75	4.01	383.44	0.000	0.000	32.22	0.00	0.00
42	78.00	Fujitsu TA08025-B605	3	7.303	8.033	0.50	0.75	4.01	428.17	0.000	0.000	32.22	0.00	0.00
43	78.00	JMA Wireless	3	7.303	8.033	0.55	0.75	23.84	1120.44	0.000	0.000	191.52	0.00	0.00

Totals: 39,528.25

6,453.01

Total Applied Force Summary

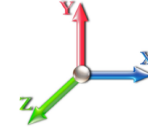
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		28.96	347.28	0.00	0.00
2.00		28.95	354.15	0.00	0.00
4.00		57.75	721.51	0.00	0.00
6.00		57.39	727.02	0.00	0.00
8.00		56.99	729.57	0.00	0.00
10.00		56.57	730.42	0.00	0.00
12.00		56.13	730.15	0.00	0.00
14.00		55.69	729.09	0.00	0.00
16.00		55.91	727.43	0.00	0.00
18.00		56.84	725.31	0.00	0.00
18.63		17.93	227.85	0.00	0.00
20.00		39.41	494.74	0.00	0.00
22.00		58.28	698.37	0.00	0.00
24.00		58.83	695.04	0.00	0.00
26.00		59.30	691.50	0.00	0.00
28.00		59.68	687.79	0.00	0.00
30.00		60.00	683.92	0.00	0.00
32.00		60.26	679.91	0.00	0.00
34.00		60.46	675.77	0.00	0.00
36.00		60.61	671.53	0.00	0.00
38.00		60.71	667.19	0.00	0.00
40.00		60.77	662.75	0.00	0.00
42.00		60.79	658.24	0.00	0.00
44.00		60.77	653.64	0.00	0.00
46.00		60.72	648.98	0.00	0.00
48.00		60.64	644.25	0.00	0.00
48.50		15.09	160.43	0.00	0.00
50.00		45.89	660.23	0.00	0.00
52.00		61.14	873.40	0.00	0.00
53.25		38.08	542.09	0.00	0.00
54.00		22.79	216.63	0.00	0.00
56.00		60.80	574.35	0.00	0.00
58.00		60.60	570.08	0.00	0.00
60.00		60.37	565.77	0.00	0.00
62.00		60.12	561.41	0.00	0.00
64.00		59.85	557.01	0.00	0.00
66.00		59.56	552.58	0.00	0.00
68.00		59.25	548.11	0.00	0.00
70.00		58.93	543.61	0.00	0.00
72.00		58.59	539.07	0.00	0.00
74.00		58.23	534.51	0.00	0.00
76.00		57.86	529.91	0.00	0.00
78.00	(11) attachments	1105.67	6344.81	0.00	0.00
80.00		57.07	501.08	0.00	0.00
82.00		56.65	496.34	0.00	0.00
84.00		56.22	491.57	0.00	0.00

Total Applied Force Summary

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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86.00		55.78	486.77	0.00	0.00
88.00	(18) attachments	1126.15	7498.88	0.00	0.00
90.00		54.86	442.80	0.00	0.00
92.00		54.38	437.94	0.00	0.00
94.00		53.89	433.06	0.00	0.00
96.00		53.39	428.17	0.00	0.00
98.00	(28) attachments	1973.83	12330.75	0.00	0.00
98.50		13.12	99.63	0.00	0.00
100.00		39.68	393.70	0.00	0.00
102.00		52.47	518.46	0.00	0.00
104.00		51.94	349.86	0.00	0.00
106.00		51.39	345.60	0.00	0.00
108.00	(32) attachments	1160.77	7031.08	0.00	0.00
109.00		25.18	163.59	0.00	0.00
110.00		25.04	162.52	0.00	0.00
112.00		49.69	321.27	0.00	0.00
114.00		49.11	316.95	0.00	0.00
116.00		48.51	312.61	0.00	0.00
118.00	(27) attachments	1351.01	8402.81	0.00	0.00
119.00		23.71	122.35	0.00	0.00
Totals:		9,836.98	73,625.18	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



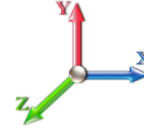
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.37	0.00	0.063	0.000	5.168	0.00	10.12
1.00	1.411" Hybrid	Yes	1.00	0.000	1.41	0.35	0.00	0.063	0.000	5.168	0.00	5.52
1.00	1" Reinforcing plate	Yes	1.00	0.000	0.00	0.00	0.00	0.063	0.000	5.168	0.00	7.15
2.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.39	0.00	0.063	0.000	5.168	0.00	10.80
2.00	1.411" Hybrid	Yes	1.00	0.000	1.41	0.37	0.00	0.063	0.000	5.168	0.00	5.99
2.00	1" Reinforcing plate	Yes	1.00	0.000	0.00	0.00	0.00	0.063	0.000	5.168	0.00	7.82
4.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.81	0.00	0.064	0.000	5.168	0.00	23.10
4.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.77	0.00	0.064	0.000	5.168	0.00	13.05
4.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	5.168	0.00	17.15
6.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.83	0.00	0.065	0.000	5.168	0.00	24.06
6.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.80	0.00	0.065	0.000	5.168	0.00	13.74
6.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	5.168	0.00	18.11
8.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.85	0.00	0.065	0.000	5.168	0.00	24.78
8.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.81	0.00	0.065	0.000	5.168	0.00	14.26
8.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	5.168	0.00	18.83
10.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.86	0.00	0.066	0.000	5.168	0.00	25.36
10.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.83	0.00	0.066	0.000	5.168	0.00	14.68
10.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	5.168	0.00	19.41
12.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.87	0.00	0.066	0.000	5.168	0.00	25.85
12.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.84	0.00	0.066	0.000	5.168	0.00	15.04
12.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	5.168	0.00	19.90
14.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.88	0.00	0.067	0.000	5.168	0.00	26.27
14.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.85	0.00	0.067	0.000	5.168	0.00	15.35
14.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	5.168	0.00	20.32
16.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.89	0.00	0.068	0.000	5.232	0.00	26.65
16.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.86	0.00	0.068	0.000	5.232	0.00	15.63
16.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	5.232	0.00	20.70
18.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.90	0.00	0.068	0.000	5.363	0.00	26.99
18.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.86	0.00	0.068	0.000	5.363	0.00	15.88
18.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	5.363	0.00	21.04
18.63	1 5/8" Hybrid	Yes	0.63	0.000	1.63	0.28	0.00	0.069	0.000	5.402	0.00	8.53
18.63	1.411" Hybrid	Yes	0.63	0.000	1.41	0.27	0.00	0.069	0.000	5.402	0.00	5.03
18.63	1" Reinforcing plate	Yes	0.63	0.000	0.00	0.00	0.00	0.069	0.000	5.402	0.00	6.66
20.00	1 5/8" Hybrid	Yes	1.37	0.000	1.63	0.62	0.00	0.069	0.000	5.483	0.00	18.70
20.00	1.411" Hybrid	Yes	1.37	0.000	1.41	0.60	0.00	0.069	0.000	5.483	0.00	11.03
20.00	1" Reinforcing plate	Yes	1.37	0.000	0.00	0.00	0.00	0.069	0.000	5.483	0.00	14.62
22.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.91	0.00	0.070	0.000	5.595	0.00	27.58
22.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.88	0.00	0.070	0.000	5.595	0.00	16.32
24.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.92	0.00	0.071	0.000	5.698	0.00	27.84
24.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.88	0.00	0.071	0.000	5.698	0.00	16.51
26.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.92	0.00	0.071	0.000	5.795	0.00	28.09
26.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.89	0.00	0.071	0.000	5.795	0.00	16.69
28.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.93	0.00	0.072	0.000	5.886	0.00	28.31
28.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.89	0.00	0.072	0.000	5.886	0.00	16.86
30.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.93	0.00	0.073	0.000	5.972	0.00	28.53
30.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.90	0.00	0.073	0.000	5.972	0.00	17.03
32.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.94	0.00	0.074	0.000	6.054	0.00	28.74

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

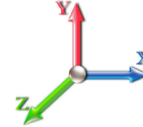


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 25

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
32.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.90	0.00	0.074	0.000	6.054	0.00	17.18
34.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.94	0.00	0.074	0.000	6.132	0.00	28.93
34.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.90	0.00	0.074	0.000	6.132	0.00	17.32
36.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.94	0.00	0.075	0.000	6.206	0.00	29.11
36.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.91	0.00	0.075	0.000	6.206	0.00	17.46
38.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.95	0.00	0.076	0.000	6.277	0.00	29.29
38.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.91	0.00	0.076	0.000	6.277	0.00	17.59
40.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.95	0.00	0.077	0.000	6.345	0.00	29.46
40.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.91	0.00	0.077	0.000	6.345	0.00	17.72
42.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.95	0.00	0.078	0.000	6.410	0.00	29.62
42.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.92	0.00	0.078	0.000	6.410	0.00	17.84
44.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.96	0.00	0.079	0.000	6.474	0.00	29.78
44.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.92	0.00	0.079	0.000	6.474	0.00	17.96
46.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.96	0.00	0.080	0.000	6.534	0.00	29.93
46.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.92	0.00	0.080	0.000	6.534	0.00	18.07
48.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.96	0.00	0.081	0.000	6.593	0.00	30.07
48.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.93	0.00	0.081	0.000	6.593	0.00	18.18
48.50	1 5/8" Hybrid	Yes	0.50	0.000	1.63	0.24	0.00	0.081	0.000	6.608	0.00	7.53
48.50	1.411" Hybrid	Yes	0.50	0.000	1.41	0.23	0.00	0.081	0.000	6.608	0.00	4.55
50.00	1 5/8" Hybrid	Yes	1.50	0.000	1.63	0.72	0.00	0.082	0.000	6.650	0.00	22.66
50.00	1.411" Hybrid	Yes	1.50	0.000	1.41	0.70	0.00	0.082	0.000	6.650	0.00	13.71
52.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.97	0.00	0.083	0.000	6.705	0.00	30.34
52.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.93	0.00	0.083	0.000	6.705	0.00	18.39
53.25	1 5/8" Hybrid	Yes	1.25	0.000	1.63	0.61	0.00	0.084	0.000	6.739	0.00	19.02
53.25	1.411" Hybrid	Yes	1.25	0.000	1.41	0.58	0.00	0.084	0.000	6.739	0.00	11.53
54.00	1 5/8" Hybrid	Yes	0.75	0.000	1.63	0.36	0.00	0.083	0.000	6.759	0.00	11.43
54.00	1.411" Hybrid	Yes	0.75	0.000	1.41	0.35	0.00	0.083	0.000	6.759	0.00	6.93
56.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.97	0.00	0.084	0.000	6.811	0.00	30.60
56.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.94	0.00	0.084	0.000	6.811	0.00	18.58
58.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.98	0.00	0.085	0.000	6.861	0.00	30.72
58.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.94	0.00	0.085	0.000	6.861	0.00	18.67
60.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.98	0.00	0.086	0.000	6.910	0.00	30.84
60.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.94	0.00	0.086	0.000	6.910	0.00	18.76
62.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.98	0.00	0.087	0.000	6.958	0.00	30.96
62.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.95	0.00	0.087	0.000	6.958	0.00	18.85
64.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.98	0.00	0.088	0.000	7.005	0.00	31.07
64.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.95	0.00	0.088	0.000	7.005	0.00	18.94
66.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.99	0.00	0.089	0.000	7.050	0.00	31.18
66.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.95	0.00	0.089	0.000	7.050	0.00	19.02
68.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.99	0.00	0.090	0.000	7.095	0.00	31.29
68.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.95	0.00	0.090	0.000	7.095	0.00	19.10
70.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.99	0.00	0.092	0.000	7.138	0.00	31.39
70.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.95	0.00	0.092	0.000	7.138	0.00	19.18
72.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.99	0.00	0.093	0.000	7.181	0.00	31.49
72.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.96	0.00	0.093	0.000	7.181	0.00	19.26
74.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.99	0.00	0.094	0.000	7.222	0.00	31.59
74.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.96	0.00	0.094	0.000	7.222	0.00	19.33

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
76.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.00	0.00	0.095	0.000	7.263	0.00	31.69
76.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.96	0.00	0.095	0.000	7.263	0.00	19.41
78.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.00	0.00	0.097	0.000	7.303	0.00	31.79
78.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.96	0.00	0.097	0.000	7.303	0.00	19.48
80.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.00	0.00	0.053	0.000	7.342	0.00	31.88
82.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.00	0.00	0.053	0.000	7.380	0.00	31.97
84.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.00	0.00	0.054	0.000	7.418	0.00	32.06
86.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.01	0.00	0.055	0.000	7.454	0.00	32.15
88.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.01	0.00	0.056	0.000	7.491	0.00	32.23
90.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.01	0.00	0.057	0.000	7.526	0.00	32.32
92.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.01	0.00	0.058	0.000	7.561	0.00	32.40
94.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.01	0.00	0.059	0.000	7.595	0.00	32.48
96.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.01	0.00	0.060	0.000	7.629	0.00	32.56
98.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.01	0.00	0.061	0.000	7.662	0.00	32.64
98.50	1 5/8" Hybrid	Yes	0.50	0.000	1.63	0.25	0.00	0.061	0.000	7.671	0.00	8.17
100.00	1 5/8" Hybrid	Yes	1.50	0.000	1.63	0.76	0.00	0.062	0.000	7.695	0.00	24.54
102.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.02	0.00	0.063	0.000	7.727	0.00	32.79
104.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.02	0.00	0.063	0.000	7.759	0.00	32.87
106.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.02	0.00	0.064	0.000	7.790	0.00	32.94
108.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.02	0.00	0.065	0.000	7.821	0.00	33.02
109.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.51	0.00	0.066	0.000	7.836	0.00	16.53
110.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.51	0.00	0.067	0.000	7.851	0.00	16.54
112.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.02	0.00	0.068	0.000	7.881	0.00	33.16
114.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.03	0.00	0.069	0.000	7.910	0.00	33.23
116.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.03	0.00	0.070	0.000	7.939	0.00	33.29
118.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	1.03	0.00	0.072	0.000	7.968	0.00	33.36
Totals:											0.0	2,638.6

Calculated Forces

Structure: CT08558-B-SBA
Site Name: New Britain 3, CT
Height: 119.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

6/17/2022



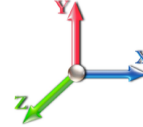
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-73.62	-9.85	0.00	-923.99	0.00	923.99	3013.27	1506.63	5849.73	2929.21	0.00	0.000	0.000	0.302
1.00	-73.27	-9.84	0.00	-914.14	0.00	914.14	3005.28	1502.64	5806.64	2907.64	0.00	-0.018	0.000	0.263
2.00	-72.92	-9.84	0.00	-904.30	0.00	904.30	2997.23	1498.62	5763.59	2886.08	0.01	-0.033	0.000	0.262
4.00	-72.19	-9.82	0.00	-884.61	0.00	884.61	2980.97	1490.49	5677.59	2843.02	0.03	-0.065	0.000	0.259
6.00	-71.46	-9.80	0.00	-864.97	0.00	864.97	2964.47	1482.24	5591.76	2800.03	0.06	-0.096	0.000	0.257
8.00	-70.72	-9.78	0.00	-845.36	0.00	845.36	2947.74	1473.87	5506.09	2757.14	0.11	-0.127	0.000	0.255
10.00	-69.99	-9.76	0.00	-825.80	0.00	825.80	2930.78	1465.39	5420.60	2714.33	0.17	-0.159	0.000	0.252
12.00	-69.25	-9.74	0.00	-806.27	0.00	806.27	2913.58	1456.79	5335.32	2671.62	0.24	-0.191	0.000	0.249
14.00	-68.52	-9.72	0.00	-786.78	0.00	786.78	2896.16	1448.08	5250.24	2629.02	0.33	-0.222	0.000	0.247
16.00	-67.78	-9.70	0.00	-767.33	0.00	767.33	2878.49	1439.25	5165.38	2586.53	0.43	-0.254	0.000	0.244
18.00	-67.05	-9.67	0.00	-747.93	0.00	747.93	2860.60	1430.30	5080.76	2544.16	0.54	-0.286	0.000	0.241
18.63	-66.82	-9.67	0.00	-741.84	0.00	741.84	2854.92	1427.46	5054.16	2530.83	0.58	-0.296	0.000	0.240
18.63	-66.82	-9.67	0.00	-741.84	0.00	741.84	2854.92	1427.46	5054.16	2530.83	0.58	-0.296	0.000	0.240
20.00	-66.32	-9.66	0.00	-728.60	0.00	728.60	2842.47	1421.24	4996.39	2501.91	0.67	-0.318	0.000	0.315
22.00	-65.62	-9.65	0.00	-709.27	0.00	709.27	2824.11	1412.06	4912.27	2459.79	0.81	-0.360	0.000	0.312
24.00	-64.92	-9.63	0.00	-689.98	0.00	689.98	2805.52	1402.76	4828.43	2417.81	0.97	-0.402	0.000	0.309
26.00	-64.22	-9.61	0.00	-670.72	0.00	670.72	2786.70	1393.35	4744.88	2375.97	1.15	-0.444	0.000	0.305
28.00	-63.53	-9.60	0.00	-651.49	0.00	651.49	2767.64	1383.82	4661.63	2334.28	1.35	-0.486	0.000	0.302
30.00	-62.83	-9.58	0.00	-632.30	0.00	632.30	2748.35	1374.17	4578.69	2292.75	1.56	-0.529	0.000	0.299
32.00	-62.15	-9.56	0.00	-613.15	0.00	613.15	2728.82	1364.41	4496.07	2251.38	1.79	-0.571	0.000	0.295
34.00	-61.47	-9.53	0.00	-594.04	0.00	594.04	2709.07	1354.53	4413.79	2210.17	2.04	-0.614	0.000	0.292
36.00	-60.79	-9.51	0.00	-574.97	0.00	574.97	2689.08	1344.54	4331.86	2169.15	2.30	-0.656	0.000	0.288
38.00	-60.11	-9.49	0.00	-555.95	0.00	555.95	2668.86	1334.43	4250.29	2128.30	2.59	-0.699	0.000	0.284
40.00	-59.45	-9.46	0.00	-536.98	0.00	536.98	2648.40	1324.20	4169.10	2087.65	2.89	-0.741	0.000	0.280
42.00	-58.78	-9.44	0.00	-518.05	0.00	518.05	2627.71	1313.86	4088.30	2047.19	3.21	-0.784	0.000	0.275
44.00	-58.12	-9.41	0.00	-499.18	0.00	499.18	2606.79	1303.40	4007.90	2006.93	3.55	-0.826	0.000	0.271
46.00	-57.47	-9.38	0.00	-480.36	0.00	480.36	2585.64	1292.82	3927.91	1966.88	3.90	-0.869	0.000	0.267
48.00	-56.82	-9.34	0.00	-461.60	0.00	461.60	2564.25	1282.13	3848.36	1927.04	4.28	-0.911	0.000	0.262
48.50	-56.66	-9.34	0.00	-456.93	0.00	456.93	2558.87	1279.44	3828.53	1917.11	4.37	-0.922	0.000	0.261
50.00	-55.99	-9.32	0.00	-442.92	0.00	442.92	2542.63	1271.32	3769.24	1887.42	4.67	-0.953	0.000	0.257
52.00	-55.11	-9.28	0.00	-424.28	0.00	424.28	2520.78	1260.39	3690.57	1848.03	5.08	-0.995	0.000	0.252
53.25	-54.57	-9.25	0.00	-412.69	0.00	412.69	1874.80	937.40	2771.76	1387.94	5.34	-1.021	0.000	0.327
54.00	-54.35	-9.25	0.00	-405.75	0.00	405.75	1869.65	934.83	2751.28	1377.68	5.50	-1.037	0.000	0.324
56.00	-53.77	-9.23	0.00	-387.25	0.00	387.25	1855.77	927.89	2696.78	1350.40	5.95	-1.086	0.000	0.316
58.00	-53.19	-9.20	0.00	-368.79	0.00	368.79	1841.66	920.83	2642.47	1323.20	6.41	-1.135	0.000	0.308
60.00	-52.62	-9.17	0.00	-350.39	0.00	350.39	1827.31	913.65	2588.34	1296.09	6.90	-1.183	0.000	0.299
62.00	-52.05	-9.14	0.00	-332.05	0.00	332.05	1812.73	906.36	2534.41	1269.09	7.41	-1.230	0.000	0.290
64.00	-51.49	-9.11	0.00	-313.76	0.00	313.76	1797.91	898.96	2480.69	1242.19	7.93	-1.277	0.000	0.281
66.00	-50.93	-9.08	0.00	-295.54	0.00	295.54	1782.87	891.43	2427.20	1215.41	8.48	-1.323	0.000	0.272
68.00	-50.37	-9.05	0.00	-277.37	0.00	277.37	1767.59	883.79	2373.96	1188.74	9.04	-1.367	0.000	0.262
70.00	-49.83	-9.01	0.00	-259.28	0.00	259.28	1752.08	876.04	2320.96	1162.21	9.62	-1.411	0.000	0.252
72.00	-49.28	-8.98	0.00	-241.25	0.00	241.25	1736.33	868.17	2268.23	1135.80	10.22	-1.453	0.000	0.241
74.00	-48.74	-8.94	0.00	-223.30	0.00	223.30	1720.35	860.18	2215.78	1109.54	10.84	-1.494	0.000	0.230
76.00	-48.21	-8.90	0.00	-205.42	0.00	205.42	1704.14	852.07	2163.62	1083.42	11.48	-1.534	0.000	0.218
78.00	-41.89	-7.65	0.00	-187.62	0.00	187.62	1687.70	843.85	2111.76	1057.45	12.13	-1.572	0.000	0.202
80.00	-41.39	-7.60	0.00	-172.32	0.00	172.32	1671.02	835.51	2060.22	1031.64	12.79	-1.608	0.000	0.192
82.00	-40.89	-7.56	0.00	-157.12	0.00	157.12	1654.12	827.06	2009.01	1006.00	13.47	-1.642	0.000	0.181
84.00	-40.39	-7.51	0.00	-142.00	0.00	142.00	1636.97	818.49	1958.14	980.53	14.17	-1.675	0.000	0.170

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 39
	Struct Class: II	



86.00	-39.91	-7.46	0.00	-126.98	0.00	126.98	1619.60	809.80	1907.63	955.23	14.88	-1.706	0.000	0.158
88.00	-32.44	-6.13	0.00	-112.06	0.00	112.06	1601.99	801.00	1857.49	930.12	15.60	-1.735	0.000	0.141
90.00	-32.00	-6.07	0.00	-99.81	0.00	99.81	1584.15	792.08	1807.72	905.20	16.33	-1.762	0.000	0.131
92.00	-31.56	-6.02	0.00	-87.67	0.00	87.67	1566.08	783.04	1758.35	880.48	17.08	-1.786	0.000	0.120
94.00	-31.13	-5.96	0.00	-75.64	0.00	75.64	1547.77	773.89	1709.39	855.96	17.83	-1.809	0.000	0.109
96.00	-30.70	-5.90	0.00	-63.72	0.00	63.72	1529.23	764.62	1660.84	831.66	18.59	-1.829	0.000	0.097
98.00	-18.44	-3.54	0.00	-51.92	0.00	51.92	1510.46	755.23	1612.73	807.56	19.36	-1.847	0.000	0.077
98.50	-18.34	-3.52	0.00	-50.15	0.00	50.15	1505.73	752.87	1600.77	801.57	19.56	-1.851	0.000	0.075
100.00	-17.94	-3.48	0.00	-44.86	0.00	44.86	1491.46	745.73	1565.06	783.69	20.14	-1.863	0.000	0.069
102.00	-17.43	-3.41	0.00	-37.91	0.00	37.91	1021.50	510.75	1074.26	537.93	20.92	-1.877	0.000	0.088
104.00	-17.08	-3.35	0.00	-31.09	0.00	31.09	1010.40	505.20	1044.04	522.80	21.71	-1.889	0.000	0.076
106.00	-16.73	-3.29	0.00	-24.38	0.00	24.38	999.06	499.53	1013.99	507.75	22.51	-1.902	0.000	0.065
108.00	-9.74	-1.90	0.00	-17.80	0.00	17.80	987.50	493.75	984.13	492.79	23.31	-1.913	0.000	0.046
109.00	-9.58	-1.87	0.00	-15.90	0.00	15.90	981.63	490.81	969.27	485.35	23.71	-1.917	0.000	0.043
109.00	-9.58	-1.87	0.00	-15.90	0.00	15.90	981.63	490.81	969.27	485.35	23.71	-1.917	0.000	0.043
110.00	-9.42	-1.84	0.00	-14.03	0.00	14.03	975.70	487.85	954.46	477.94	24.11	-1.921	0.000	0.039
112.00	-9.10	-1.78	0.00	-10.35	0.00	10.35	963.67	481.83	925.00	463.19	24.91	-1.928	0.000	0.032
114.00	-8.78	-1.72	0.00	-6.79	0.00	6.79	951.40	475.70	895.76	448.55	25.72	-1.933	0.000	0.024
116.00	-8.47	-1.66	0.00	-3.35	0.00	3.35	938.91	469.45	866.76	434.02	26.53	-1.936	0.000	0.017
118.00	-0.12	-0.03	0.00	-0.03	0.00	0.03	926.18	463.09	838.01	419.63	27.35	-1.938	0.000	0.000
119.00	0.00	-0.02	0.00	0.00	0.00	0.00	919.72	459.86	823.73	412.48	27.75	-1.938	0.000	0.000

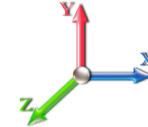
Seismic Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E						Iterations 22
Gust Response Factor	1.10			Sds	0.20	Ss 0.19
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.09	S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.36	SA	0.03	Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00	RB1	0.00	0.00	0.00	0.00	0.00	
1.00	RT1 RB2	158.88	0.00	0.01	0.01	1.23	
2.00		158.14	0.00	0.02	0.01	2.15	
4.00		314.03	0.00	0.03	0.02	6.86	
6.00		311.04	0.00	0.04	0.02	8.48	
8.00		308.04	0.01	0.05	0.03	9.53	
10.00		305.05	0.01	0.06	0.03	10.21	
12.00		302.06	0.02	0.06	0.04	10.65	
14.00		299.07	0.03	0.07	0.04	10.92	
16.00		296.08	0.03	0.07	0.04	11.08	
18.00		293.08	0.04	0.07	0.04	11.17	
18.63	RT2	91.70	0.05	0.07	0.04	3.51	
20.00		198.39	0.05	0.07	0.04	7.67	
22.00		287.10	0.06	0.07	0.04	11.25	
24.00		284.11	0.08	0.07	0.04	11.27	
26.00		281.11	0.09	0.07	0.04	11.29	
28.00		278.12	0.10	0.07	0.04	11.31	
30.00		275.13	0.12	0.07	0.03	11.32	
32.00		272.14	0.14	0.07	0.03	11.33	
34.00		269.15	0.15	0.07	0.03	11.32	
36.00		266.15	0.17	0.07	0.03	11.27	
38.00		263.16	0.19	0.06	0.02	11.18	
40.00		260.17	0.21	0.06	0.02	11.02	
42.00		257.18	0.24	0.06	0.02	10.76	
44.00		254.19	0.26	0.05	0.02	10.38	
46.00		251.19	0.28	0.05	0.01	9.85	
48.00		248.20	0.31	0.04	0.01	9.15	
48.50	Bot - Section 2	61.58	0.31	0.04	0.01	2.22	
50.00		332.81	0.33	0.04	0.01	11.18	
52.00		439.03	0.36	0.03	0.01	12.86	
53.25	Top - Section 1	271.66	0.38	0.02	0.01	7.08	
54.00		72.63	0.39	0.02	0.01	1.74	
56.00		192.02	0.42	0.01	0.01	3.35	
58.00		189.63	0.45	0.00	0.01	1.91	
60.00		187.24	0.48	-0.01	0.01	0.36	
62.00		184.84	0.51	-0.02	0.01	-1.22	
64.00		182.45	0.55	-0.03	0.01	-2.74	
66.00		180.06	0.58	-0.05	0.01	-4.13	
68.00		177.66	0.62	-0.06	0.02	-5.33	
70.00		175.27	0.65	-0.07	0.02	-6.29	
72.00		172.87	0.69	-0.08	0.03	-6.99	
74.00		170.48	0.73	-0.10	0.04	-7.42	
76.00		168.09	0.77	-0.11	0.05	-7.59	
78.00	Appurtenance(s)	2524.7	0.81	-0.11	0.06	-114.24	
80.00		163.30	0.85	-0.12	0.07	-7.17	
82.00		160.91	0.90	-0.12	0.09	-6.62	

Seismic Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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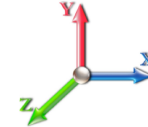
84.00		158.51	0.94	-0.12	0.10	-5.87
86.00		156.12	0.99	-0.11	0.13	-4.92
88.00	Appurtenance(s)	2512.3	1.03	-0.10	0.15	-62.01
90.00		151.33	1.08	-0.08	0.18	-2.50
92.00		148.94	1.13	-0.05	0.21	-1.04
94.00		146.54	1.18	-0.01	0.24	0.56
96.00		144.15	1.23	0.03	0.28	2.31
98.00	Appurtenance(s)	4624.5	1.28	0.10	0.32	136.54
98.50	Bot - Section 3	35.06	1.29	0.11	0.33	1.16
100.00		183.85	1.33	0.17	0.37	8.16
102.00	Top - Section 2	241.47	1.39	0.26	0.42	14.64
104.00		102.70	1.44	0.37	0.48	8.04
106.00		100.91	1.50	0.50	0.54	9.82
108.00	Appurtenance(s)	2402.5	1.56	0.65	0.61	282.81
109.00	Top - Section 3	48.88	1.59	0.73	0.65	6.28
110.00		48.43	1.61	0.83	0.69	6.76
112.00		95.52	1.67	1.03	0.78	15.56
114.00		93.73	1.73	1.26	0.87	17.60
116.00		91.93	1.80	1.52	0.97	19.68
118.00	Appurtenance(s)	2914.2	1.86	1.82	1.08	704.78
119.00		44.39	1.89	1.98	1.14	11.38
Totals:		27,236.1				1,286.8
						Total Wind: 33,070.8

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0E										Iterations 22
Gust Response Factor 1.10					Sds 0.20					Ss 0.19
Dead Load Factor 1.20			Seismic Load Factor 1.00			Sd1 0.09			S1 0.06	
Wind Load Factor 0.00		Structure Frequency (f1) 0.36		SA 0.03		Seismic Importance Factor 1.00				



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-37.95	-1.53	0.00	-156.32	0.00	156.32	3013.27	1506.63	5849.73	2929.21	0.00	0.00	0.00	0.058
1.00	-37.71	-1.53	0.00	-154.79	0.00	154.79	3005.28	1502.64	5806.64	2907.64	0.00	0.00	0.00	0.050
2.00	-37.47	-1.53	0.00	-153.25	0.00	153.25	2997.23	1498.62	5763.59	2886.08	0.00	-0.01	0.00	0.050
4.00	-36.99	-1.53	0.00	-150.19	0.00	150.19	2980.97	1490.49	5677.59	2843.02	0.00	-0.01	0.00	0.049
6.00	-36.51	-1.52	0.00	-147.13	0.00	147.13	2964.47	1482.24	5591.76	2800.03	0.01	-0.02	0.00	0.049
8.00	-36.03	-1.52	0.00	-144.08	0.00	144.08	2947.74	1473.87	5506.09	2757.14	0.02	-0.02	0.00	0.049
10.00	-35.56	-1.51	0.00	-141.04	0.00	141.04	2930.78	1465.39	5420.60	2714.33	0.03	-0.03	0.00	0.048
12.00	-35.10	-1.50	0.00	-138.02	0.00	138.02	2913.58	1456.79	5335.32	2671.62	0.04	-0.03	0.00	0.048
14.00	-34.64	-1.50	0.00	-135.01	0.00	135.01	2896.16	1448.08	5250.24	2629.02	0.06	-0.04	0.00	0.047
16.00	-34.18	-1.49	0.00	-132.02	0.00	132.02	2878.49	1439.25	5165.38	2586.53	0.07	-0.04	0.00	0.047
18.00	-33.72	-1.48	0.00	-129.05	0.00	129.05	2860.60	1430.30	5080.76	2544.16	0.09	-0.05	0.00	0.047
18.63	-33.58	-1.48	0.00	-128.12	0.00	128.12	2854.92	1427.46	5054.16	2530.83	0.10	-0.05	0.00	0.046
18.63	-33.58	-1.48	0.00	-128.12	0.00	128.12	2854.92	1427.46	5054.16	2530.83	0.10	-0.05	0.00	0.046
20.00	-33.27	-1.47	0.00	-126.10	0.00	126.10	2842.47	1421.24	4996.39	2501.91	0.11	-0.05	0.00	0.062
22.00	-32.82	-1.46	0.00	-123.15	0.00	123.15	2824.11	1412.06	4912.27	2459.79	0.14	-0.06	0.00	0.062
24.00	-32.38	-1.46	0.00	-120.23	0.00	120.23	2805.52	1402.76	4828.43	2417.81	0.17	-0.07	0.00	0.061
26.00	-31.93	-1.45	0.00	-117.31	0.00	117.31	2786.70	1393.35	4744.88	2375.97	0.20	-0.08	0.00	0.061
28.00	-31.50	-1.44	0.00	-114.42	0.00	114.42	2767.64	1383.82	4661.63	2334.28	0.23	-0.08	0.00	0.060
30.00	-31.06	-1.43	0.00	-111.54	0.00	111.54	2748.35	1374.17	4578.69	2292.75	0.27	-0.09	0.00	0.060
32.00	-30.63	-1.42	0.00	-108.67	0.00	108.67	2728.82	1364.41	4496.07	2251.38	0.31	-0.10	0.00	0.059
34.00	-30.21	-1.42	0.00	-105.82	0.00	105.82	2709.07	1354.53	4413.79	2210.17	0.35	-0.11	0.00	0.059
36.00	-29.78	-1.41	0.00	-102.99	0.00	102.99	2689.08	1344.54	4331.86	2169.15	0.40	-0.11	0.00	0.059
38.00	-29.36	-1.40	0.00	-100.17	0.00	100.17	2668.86	1334.43	4250.29	2128.30	0.44	-0.12	0.00	0.058
40.00	-28.95	-1.39	0.00	-97.37	0.00	97.37	2648.40	1324.20	4169.10	2087.65	0.50	-0.13	0.00	0.058
42.00	-28.53	-1.38	0.00	-94.59	0.00	94.59	2627.71	1313.86	4088.30	2047.19	0.55	-0.14	0.00	0.057
44.00	-28.13	-1.38	0.00	-91.82	0.00	91.82	2606.79	1303.40	4007.90	2006.93	0.61	-0.14	0.00	0.057
46.00	-27.72	-1.37	0.00	-89.06	0.00	89.06	2585.64	1292.82	3927.91	1966.88	0.67	-0.15	0.00	0.056
48.00	-27.32	-1.36	0.00	-86.32	0.00	86.32	2564.25	1282.13	3848.36	1927.04	0.74	-0.16	0.00	0.055
48.50	-27.22	-1.36	0.00	-85.64	0.00	85.64	2558.87	1279.44	3828.53	1917.11	0.76	-0.16	0.00	0.055
50.00	-26.74	-1.35	0.00	-83.60	0.00	83.60	2542.63	1271.32	3769.24	1887.42	0.81	-0.17	0.00	0.055
52.00	-26.11	-1.34	0.00	-80.90	0.00	80.90	2520.78	1260.39	3690.57	1848.03	0.88	-0.18	0.00	0.054
53.25	-25.72	-1.33	0.00	-79.22	0.00	79.22	1874.80	937.40	2771.76	1387.94	0.93	-0.18	0.00	0.071
54.00	-25.59	-1.33	0.00	-78.22	0.00	78.22	1869.65	934.83	2751.28	1377.68	0.96	-0.18	0.00	0.070
56.00	-25.26	-1.33	0.00	-75.55	0.00	75.55	1855.77	927.89	2696.78	1350.40	1.04	-0.19	0.00	0.070
58.00	-24.93	-1.34	0.00	-72.88	0.00	72.88	1841.66	920.83	2642.47	1323.20	1.12	-0.20	0.00	0.069
60.00	-24.60	-1.34	0.00	-70.21	0.00	70.21	1827.31	913.65	2588.34	1296.09	1.21	-0.21	0.00	0.068
62.00	-24.27	-1.34	0.00	-67.54	0.00	67.54	1812.73	906.36	2534.41	1269.09	1.30	-0.22	0.00	0.067
64.00	-23.95	-1.34	0.00	-64.86	0.00	64.86	1797.91	898.96	2480.69	1242.19	1.39	-0.23	0.00	0.066
66.00	-23.63	-1.35	0.00	-62.17	0.00	62.17	1782.87	891.43	2427.20	1215.41	1.49	-0.24	0.00	0.064
68.00	-23.31	-1.35	0.00	-59.48	0.00	59.48	1767.59	883.79	2373.96	1188.74	1.60	-0.25	0.00	0.063
70.00	-23.00	-1.35	0.00	-56.78	0.00	56.78	1752.08	876.04	2320.96	1162.21	1.70	-0.26	0.00	0.062
72.00	-22.69	-1.35	0.00	-54.08	0.00	54.08	1736.33	868.17	2268.23	1135.80	1.81	-0.27	0.00	0.061
74.00	-22.38	-1.36	0.00	-51.37	0.00	51.37	1720.35	860.18	2215.78	1109.54	1.93	-0.28	0.00	0.059
76.00	-22.07	-1.36	0.00	-48.66	0.00	48.66	1704.14	852.07	2163.62	1083.42	2.05	-0.29	0.00	0.058
78.00	-18.94	-1.34	0.00	-45.94	0.00	45.94	1687.70	843.85	2111.76	1057.45	2.17	-0.30	0.00	0.055
80.00	-18.64	-1.35	0.00	-43.26	0.00	43.26	1671.02	835.51	2060.22	1031.64	2.30	-0.31	0.00	0.053
82.00	-18.35	-1.35	0.00	-40.56	0.00	40.56	1654.12	827.06	2009.01	1006.00	2.43	-0.32	0.00	0.051

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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84.00	-18.06	-1.35	0.00	-37.87	0.00	37.87	1636.97	818.49	1958.14	980.53	2.56	-0.32	0.050
86.00	-17.77	-1.35	0.00	-35.17	0.00	35.17	1619.60	809.80	1907.63	955.23	2.70	-0.33	0.048
88.00	-14.65	-1.33	0.00	-32.47	0.00	32.47	1601.99	801.00	1857.49	930.12	2.84	-0.34	0.044
90.00	-14.40	-1.33	0.00	-29.81	0.00	29.81	1584.15	792.08	1807.72	905.20	2.98	-0.35	0.042
92.00	-14.16	-1.33	0.00	-27.14	0.00	27.14	1566.08	783.04	1758.35	880.48	3.13	-0.36	0.040
94.00	-13.92	-1.33	0.00	-24.47	0.00	24.47	1547.77	773.89	1709.39	855.96	3.28	-0.36	0.038
96.00	-13.68	-1.33	0.00	-21.81	0.00	21.81	1529.23	764.62	1660.84	831.66	3.44	-0.37	0.035
98.00	-8.06	-1.16	0.00	-19.14	0.00	19.14	1510.46	755.23	1612.73	807.56	3.59	-0.38	0.029
98.50	-8.01	-1.16	0.00	-18.56	0.00	18.56	1505.73	752.87	1600.77	801.57	3.63	-0.38	0.028
100.00	-7.75	-1.15	0.00	-16.83	0.00	16.83	1491.46	745.73	1565.06	783.69	3.75	-0.38	0.027
102.00	-7.42	-1.13	0.00	-14.53	0.00	14.53	1021.50	510.75	1074.26	537.93	3.91	-0.39	0.034
104.00	-7.25	-1.12	0.00	-12.27	0.00	12.27	1010.40	505.20	1044.04	522.80	4.08	-0.39	0.031
106.00	-7.09	-1.11	0.00	-10.02	0.00	10.02	999.06	499.53	1013.99	507.75	4.24	-0.40	0.027
108.00	-4.16	-0.81	0.00	-7.79	0.00	7.79	987.50	493.75	984.13	492.79	4.41	-0.40	0.020
109.00	-4.09	-0.80	0.00	-6.98	0.00	6.98	981.63	490.81	969.27	485.35	4.49	-0.40	0.019
109.00	-4.09	-0.80	0.00	-6.98	0.00	6.98	981.63	490.81	969.27	485.35	4.49	-0.40	0.019
110.00	-4.01	-0.80	0.00	-6.18	0.00	6.18	975.70	487.85	954.46	477.94	4.58	-0.41	0.017
112.00	-3.87	-0.78	0.00	-4.58	0.00	4.58	963.67	481.83	925.00	463.19	4.75	-0.41	0.014
114.00	-3.72	-0.76	0.00	-3.02	0.00	3.02	951.40	475.70	895.76	448.55	4.92	-0.41	0.011
116.00	-3.58	-0.74	0.00	-1.50	0.00	1.50	938.91	469.45	866.76	434.02	5.09	-0.41	0.007
118.00	-0.05	-0.01	0.00	-0.01	0.00	0.01	926.18	463.09	838.01	419.63	5.27	-0.41	0.000
119.00	0.00	-0.01	0.00	0.00	0.00	0.00	919.72	459.86	823.73	412.48	5.35	-0.41	0.000

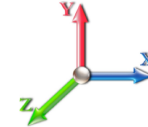
Seismic Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0E		Iterations 22
Gust Response Factor 1.10	Sds 0.20	Ss 0.19
Dead Load Factor 0.90	Seismic Load Factor 1.00	S1 0.06
Wind Load Factor 0.00	Structure Frequency (f1) 0.36	SA 0.03
	Seismic Importance Factor 1.00	



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00	RB1	0.00	0.00	0.00	0.00	0.00	
1.00	RT1 RB2	158.88	0.00	0.01	0.01	1.23	
2.00		158.14	0.00	0.02	0.01	2.15	
4.00		314.03	0.00	0.03	0.02	6.86	
6.00		311.04	0.00	0.04	0.02	8.48	
8.00		308.04	0.01	0.05	0.03	9.53	
10.00		305.05	0.01	0.06	0.03	10.21	
12.00		302.06	0.02	0.06	0.04	10.65	
14.00		299.07	0.03	0.07	0.04	10.92	
16.00		296.08	0.03	0.07	0.04	11.08	
18.00		293.08	0.04	0.07	0.04	11.17	
18.63	RT2	91.70	0.05	0.07	0.04	3.51	
20.00		198.39	0.05	0.07	0.04	7.67	
22.00		287.10	0.06	0.07	0.04	11.25	
24.00		284.11	0.08	0.07	0.04	11.27	
26.00		281.11	0.09	0.07	0.04	11.29	
28.00		278.12	0.10	0.07	0.04	11.31	
30.00		275.13	0.12	0.07	0.03	11.32	
32.00		272.14	0.14	0.07	0.03	11.33	
34.00		269.15	0.15	0.07	0.03	11.32	
36.00		266.15	0.17	0.07	0.03	11.27	
38.00		263.16	0.19	0.06	0.02	11.18	
40.00		260.17	0.21	0.06	0.02	11.02	
42.00		257.18	0.24	0.06	0.02	10.76	
44.00		254.19	0.26	0.05	0.02	10.38	
46.00		251.19	0.28	0.05	0.01	9.85	
48.00		248.20	0.31	0.04	0.01	9.15	
48.50	Bot - Section 2	61.58	0.31	0.04	0.01	2.22	
50.00		332.81	0.33	0.04	0.01	11.18	
52.00		439.03	0.36	0.03	0.01	12.86	
53.25	Top - Section 1	271.66	0.38	0.02	0.01	7.08	
54.00		72.63	0.39	0.02	0.01	1.74	
56.00		192.02	0.42	0.01	0.01	3.35	
58.00		189.63	0.45	0.00	0.01	1.91	
60.00		187.24	0.48	-0.01	0.01	0.36	
62.00		184.84	0.51	-0.02	0.01	-1.22	
64.00		182.45	0.55	-0.03	0.01	-2.74	
66.00		180.06	0.58	-0.05	0.01	-4.13	
68.00		177.66	0.62	-0.06	0.02	-5.33	
70.00		175.27	0.65	-0.07	0.02	-6.29	
72.00		172.87	0.69	-0.08	0.03	-6.99	
74.00		170.48	0.73	-0.10	0.04	-7.42	
76.00		168.09	0.77	-0.11	0.05	-7.59	
78.00	Appurtenance(s)	2524.7	0.81	-0.11	0.06	-114.24	
80.00		163.30	0.85	-0.12	0.07	-7.17	
82.00		160.91	0.90	-0.12	0.09	-6.62	

Seismic Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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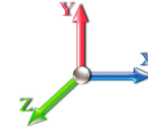
84.00		158.51	0.94	-0.12	0.10	-5.87
86.00		156.12	0.99	-0.11	0.13	-4.92
88.00	Appurtenance(s)	2512.3	1.03	-0.10	0.15	-62.01
90.00		151.33	1.08	-0.08	0.18	-2.50
92.00		148.94	1.13	-0.05	0.21	-1.04
94.00		146.54	1.18	-0.01	0.24	0.56
96.00		144.15	1.23	0.03	0.28	2.31
98.00	Appurtenance(s)	4624.5	1.28	0.10	0.32	136.54
98.50	Bot - Section 3	35.06	1.29	0.11	0.33	1.16
100.00		183.85	1.33	0.17	0.37	8.16
102.00	Top - Section 2	241.47	1.39	0.26	0.42	14.64
104.00		102.70	1.44	0.37	0.48	8.04
106.00		100.91	1.50	0.50	0.54	9.82
108.00	Appurtenance(s)	2402.5	1.56	0.65	0.61	282.81
109.00	Top - Section 3	48.88	1.59	0.73	0.65	6.28
110.00		48.43	1.61	0.83	0.69	6.76
112.00		95.52	1.67	1.03	0.78	15.56
114.00		93.73	1.73	1.26	0.87	17.60
116.00		91.93	1.80	1.52	0.97	19.68
118.00	Appurtenance(s)	2914.2	1.86	1.82	1.08	704.78
119.00		44.39	1.89	1.98	1.14	11.38
Totals:		27,236.1				1,286.8
						Total Wind: 33,070.8

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0E										Iterations 22
Gust Response Factor 1.10					Sds 0.20					Ss 0.19
Dead Load Factor 0.90			Seismic Load Factor 1.00			Sd1 0.09			S1 0.06	
Wind Load Factor 0.00		Structure Frequency (f1) 0.36		SA 0.03		Seismic Importance Factor 1.00				



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-28.46	-1.53	0.00	-154.38	0.00	154.38	3013.27	1506.63	5849.73	2929.21	0.00	0.00	0.00	0.055
1.00	-28.28	-1.53	0.00	-152.85	0.00	152.85	3005.28	1502.64	5806.64	2907.64	0.00	0.00	0.00	0.047
2.00	-28.10	-1.53	0.00	-151.32	0.00	151.32	2997.23	1498.62	5763.59	2886.08	0.00	0.00	-0.01	0.047
4.00	-27.74	-1.53	0.00	-148.25	0.00	148.25	2980.97	1490.49	5677.59	2843.02	0.00	0.00	-0.01	0.047
6.00	-27.38	-1.52	0.00	-145.20	0.00	145.20	2964.47	1482.24	5591.76	2800.03	0.01	0.00	-0.02	0.047
8.00	-27.03	-1.51	0.00	-142.15	0.00	142.15	2947.74	1473.87	5506.09	2757.14	0.02	0.00	-0.02	0.046
10.00	-26.67	-1.51	0.00	-139.13	0.00	139.13	2930.78	1465.39	5420.60	2714.33	0.03	0.00	-0.03	0.046
12.00	-26.32	-1.50	0.00	-136.11	0.00	136.11	2913.58	1456.79	5335.32	2671.62	0.04	0.00	-0.03	0.045
14.00	-25.98	-1.49	0.00	-133.12	0.00	133.12	2896.16	1448.08	5250.24	2629.02	0.06	0.00	-0.04	0.045
16.00	-25.63	-1.48	0.00	-130.14	0.00	130.14	2878.49	1439.25	5165.38	2586.53	0.07	0.00	-0.04	0.045
18.00	-25.29	-1.47	0.00	-127.18	0.00	127.18	2860.60	1430.30	5080.76	2544.16	0.09	0.00	-0.05	0.044
18.63	-25.18	-1.47	0.00	-126.25	0.00	126.25	2854.92	1427.46	5054.16	2530.83	0.10	0.00	-0.05	0.044
18.63	-25.18	-1.47	0.00	-126.25	0.00	126.25	2854.92	1427.46	5054.16	2530.83	0.10	0.00	-0.05	0.044
20.00	-24.95	-1.46	0.00	-124.24	0.00	124.24	2842.47	1421.24	4996.39	2501.91	0.11	0.00	-0.05	0.058
22.00	-24.62	-1.45	0.00	-121.32	0.00	121.32	2824.11	1412.06	4912.27	2459.79	0.14	0.00	-0.06	0.058
24.00	-24.28	-1.45	0.00	-118.41	0.00	118.41	2805.52	1402.76	4828.43	2417.81	0.16	0.00	-0.07	0.058
26.00	-23.95	-1.44	0.00	-115.52	0.00	115.52	2786.70	1393.35	4744.88	2375.97	0.19	0.00	-0.08	0.057
28.00	-23.62	-1.43	0.00	-112.64	0.00	112.64	2767.64	1383.82	4661.63	2334.28	0.23	0.00	-0.08	0.057
30.00	-23.30	-1.42	0.00	-109.79	0.00	109.79	2748.35	1374.17	4578.69	2292.75	0.26	0.00	-0.09	0.056
32.00	-22.97	-1.41	0.00	-106.95	0.00	106.95	2728.82	1364.41	4496.07	2251.38	0.30	0.00	-0.10	0.056
34.00	-22.65	-1.40	0.00	-104.13	0.00	104.13	2709.07	1354.53	4413.79	2210.17	0.34	0.00	-0.10	0.055
36.00	-22.34	-1.39	0.00	-101.32	0.00	101.32	2689.08	1344.54	4331.86	2169.15	0.39	0.00	-0.11	0.055
38.00	-22.02	-1.38	0.00	-98.54	0.00	98.54	2668.86	1334.43	4250.29	2128.30	0.44	0.00	-0.12	0.055
40.00	-21.71	-1.37	0.00	-95.77	0.00	95.77	2648.40	1324.20	4169.10	2087.65	0.49	0.00	-0.13	0.054
42.00	-21.40	-1.37	0.00	-93.02	0.00	93.02	2627.71	1313.86	4088.30	2047.19	0.55	0.00	-0.13	0.054
44.00	-21.09	-1.36	0.00	-90.29	0.00	90.29	2606.79	1303.40	4007.90	2006.93	0.60	0.00	-0.14	0.053
46.00	-20.79	-1.35	0.00	-87.57	0.00	87.57	2585.64	1292.82	3927.91	1966.88	0.66	0.00	-0.15	0.053
48.00	-20.49	-1.34	0.00	-84.87	0.00	84.87	2564.25	1282.13	3848.36	1927.04	0.73	0.00	-0.16	0.052
48.50	-20.41	-1.34	0.00	-84.20	0.00	84.20	2558.87	1279.44	3828.53	1917.11	0.75	0.00	-0.16	0.052
50.00	-20.05	-1.33	0.00	-82.19	0.00	82.19	2542.63	1271.32	3769.24	1887.42	0.80	0.00	-0.17	0.051
52.00	-19.58	-1.32	0.00	-79.53	0.00	79.53	2520.78	1260.39	3690.57	1848.03	0.87	0.00	-0.17	0.051
53.25	-19.29	-1.31	0.00	-77.88	0.00	77.88	1874.80	937.40	2771.76	1387.94	0.91	0.00	-0.18	0.066
54.00	-19.19	-1.31	0.00	-76.89	0.00	76.89	1869.65	934.83	2751.28	1377.68	0.94	0.00	-0.18	0.066
56.00	-18.94	-1.31	0.00	-74.27	0.00	74.27	1855.77	927.89	2696.78	1350.40	1.02	0.00	-0.19	0.065
58.00	-18.69	-1.31	0.00	-71.65	0.00	71.65	1841.66	920.83	2642.47	1323.20	1.10	0.00	-0.20	0.064
60.00	-18.45	-1.31	0.00	-69.02	0.00	69.02	1827.31	913.65	2588.34	1296.09	1.19	0.00	-0.21	0.063
62.00	-18.20	-1.32	0.00	-66.40	0.00	66.40	1812.73	906.36	2534.41	1269.09	1.28	0.00	-0.22	0.062
64.00	-17.96	-1.32	0.00	-63.76	0.00	63.76	1797.91	898.96	2480.69	1242.19	1.37	0.00	-0.23	0.061
66.00	-17.72	-1.32	0.00	-61.13	0.00	61.13	1782.87	891.43	2427.20	1215.41	1.47	0.00	-0.24	0.060
68.00	-17.48	-1.32	0.00	-58.49	0.00	58.49	1767.59	883.79	2373.96	1188.74	1.57	0.00	-0.25	0.059
70.00	-17.25	-1.32	0.00	-55.85	0.00	55.85	1752.08	876.04	2320.96	1162.21	1.68	0.00	-0.26	0.058
72.00	-17.01	-1.33	0.00	-53.20	0.00	53.20	1736.33	868.17	2268.23	1135.80	1.79	0.00	-0.27	0.057
74.00	-16.78	-1.33	0.00	-50.55	0.00	50.55	1720.35	860.18	2215.78	1109.54	1.90	0.00	-0.27	0.055
76.00	-16.55	-1.33	0.00	-47.90	0.00	47.90	1704.14	852.07	2163.62	1083.42	2.02	0.00	-0.28	0.054
78.00	-14.20	-1.32	0.00	-45.24	0.00	45.24	1687.70	843.85	2111.76	1057.45	2.14	0.00	-0.29	0.051
80.00	-13.98	-1.32	0.00	-42.60	0.00	42.60	1671.02	835.51	2060.22	1031.64	2.26	0.00	-0.30	0.050
82.00	-13.76	-1.32	0.00	-39.97	0.00	39.97	1654.12	827.06	2009.01	1006.00	2.39	0.00	-0.31	0.048

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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84.00	-13.54	-1.32	0.00	-37.32	0.00	37.32	1636.97	818.49	1958.14	980.53	2.52	-0.32	0.046
86.00	-13.32	-1.32	0.00	-34.68	0.00	34.68	1619.60	809.80	1907.63	955.23	2.66	-0.33	0.045
88.00	-10.99	-1.31	0.00	-32.04	0.00	32.04	1601.99	801.00	1857.49	930.12	2.80	-0.34	0.041
90.00	-10.80	-1.31	0.00	-29.42	0.00	29.42	1584.15	792.08	1807.72	905.20	2.94	-0.34	0.039
92.00	-10.62	-1.31	0.00	-26.80	0.00	26.80	1566.08	783.04	1758.35	880.48	3.08	-0.35	0.037
94.00	-10.44	-1.31	0.00	-24.18	0.00	24.18	1547.77	773.89	1709.39	855.96	3.23	-0.36	0.035
96.00	-10.26	-1.31	0.00	-21.56	0.00	21.56	1529.23	764.62	1660.84	831.66	3.38	-0.36	0.033
98.00	-6.04	-1.15	0.00	-18.94	0.00	18.94	1510.46	755.23	1612.73	807.56	3.54	-0.37	0.027
98.50	-6.00	-1.14	0.00	-18.37	0.00	18.37	1505.73	752.87	1600.77	801.57	3.58	-0.37	0.027
100.00	-5.81	-1.14	0.00	-16.65	0.00	16.65	1491.46	745.73	1565.06	783.69	3.69	-0.38	0.025
102.00	-5.56	-1.12	0.00	-14.38	0.00	14.38	1021.50	510.75	1074.26	537.93	3.85	-0.38	0.032
104.00	-5.44	-1.11	0.00	-12.14	0.00	12.14	1010.40	505.20	1044.04	522.80	4.01	-0.39	0.029
106.00	-5.31	-1.10	0.00	-9.92	0.00	9.92	999.06	499.53	1013.99	507.75	4.18	-0.39	0.025
108.00	-3.12	-0.80	0.00	-7.72	0.00	7.72	987.50	493.75	984.13	492.79	4.34	-0.40	0.019
109.00	-3.06	-0.80	0.00	-6.92	0.00	6.92	981.63	490.81	969.27	485.35	4.42	-0.40	0.017
109.00	-3.06	-0.80	0.00	-6.92	0.00	6.92	981.63	490.81	969.27	485.35	4.42	-0.40	0.017
110.00	-3.01	-0.79	0.00	-6.12	0.00	6.12	975.70	487.85	954.46	477.94	4.51	-0.40	0.016
112.00	-2.90	-0.77	0.00	-4.54	0.00	4.54	963.67	481.83	925.00	463.19	4.68	-0.40	0.013
114.00	-2.79	-0.76	0.00	-2.99	0.00	2.99	951.40	475.70	895.76	448.55	4.85	-0.40	0.010
116.00	-2.68	-0.74	0.00	-1.48	0.00	1.48	938.91	469.45	866.76	434.02	5.02	-0.41	0.006
118.00	-0.04	-0.01	0.00	-0.01	0.00	0.01	926.18	463.09	838.01	419.63	5.19	-0.41	0.000
119.00	0.00	-0.01	0.00	0.00	0.00	0.00	919.72	459.86	823.73	412.48	5.27	-0.41	0.000

Wind Loading - Shaft

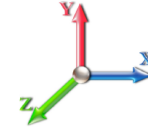
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1	1.00	0.85	7.442	8.19	222.34	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT1 RB2	1.00	0.85	7.442	8.19	221.30	0.650	0.000	1.00	4.010	2.61	21.3	0.0	158.9
2.00		1.00	0.85	7.442	8.19	220.27	0.650	0.000	1.00	3.991	2.59	21.2	0.0	158.1
4.00		1.00	0.85	7.442	8.19	218.19	0.650	0.000	2.00	7.926	5.15	42.2	0.0	314.0
6.00		1.00	0.85	7.442	8.19	216.12	0.650	0.000	2.00	7.851	5.10	41.8	0.0	311.0
8.00		1.00	0.85	7.442	8.19	214.04	0.650	0.000	2.00	7.776	5.05	41.4	0.0	308.0
10.00		1.00	0.85	7.442	8.19	211.97	0.650	0.000	2.00	7.701	5.01	41.0	0.0	305.1
12.00		1.00	0.85	7.442	8.19	209.89	0.650	0.000	2.00	7.626	4.96	40.6	0.0	302.1
14.00		1.00	0.85	7.442	8.19	207.82	0.650	0.000	2.00	7.551	4.91	40.2	0.0	299.1
16.00		1.00	0.86	7.534	8.29	207.01	0.650	0.000	2.00	7.476	4.86	40.3	0.0	296.1
18.00		1.00	0.88	7.723	8.50	207.48	0.650	0.000	2.00	7.401	4.81	40.9	0.0	293.1
18.63	RT2	1.00	0.89	7.779	8.56	207.56	0.650	0.000	0.63	2.316	1.51	12.9	0.0	91.7
20.00		1.00	0.90	7.896	8.69	207.65	0.650	0.000	1.37	5.010	3.26	28.3	0.0	198.4
22.00		1.00	0.92	8.056	8.86	207.59	0.650	0.000	2.00	7.251	4.71	41.8	0.0	287.1
24.00		1.00	0.94	8.205	9.03	207.32	0.650	0.000	2.00	7.176	4.66	42.1	0.0	284.1
26.00		1.00	0.95	8.345	9.18	206.88	0.650	0.000	2.00	7.101	4.62	42.4	0.0	281.1
28.00		1.00	0.97	8.476	9.32	206.28	0.650	0.000	2.00	7.026	4.57	42.6	0.0	278.1
30.00		1.00	0.98	8.600	9.46	205.56	0.650	0.000	2.00	6.951	4.52	42.7	0.0	275.1
32.00		1.00	1.00	8.717	9.59	204.71	0.650	0.000	2.00	6.876	4.47	42.9	0.0	272.1
34.00		1.00	1.01	8.829	9.71	203.76	0.650	0.000	2.00	6.801	4.42	42.9	0.0	269.1
36.00		1.00	1.02	8.936	9.83	202.72	0.650	0.000	2.00	6.726	4.37	43.0	0.0	266.2
38.00		1.00	1.03	9.039	9.94	201.59	0.650	0.000	2.00	6.651	4.32	43.0	0.0	263.2
40.00		1.00	1.04	9.137	10.05	200.38	0.650	0.000	2.00	6.576	4.27	43.0	0.0	260.2
42.00		1.00	1.05	9.231	10.15	199.10	0.650	0.000	2.00	6.501	4.23	42.9	0.0	257.2
44.00		1.00	1.06	9.322	10.25	197.76	0.650	0.000	2.00	6.426	4.18	42.8	0.0	254.2
46.00		1.00	1.07	9.410	10.35	196.35	0.650	0.000	2.00	6.351	4.13	42.7	0.0	251.2
48.00		1.00	1.08	9.494	10.44	194.89	0.650	0.000	2.00	6.276	4.08	42.6	0.0	248.2
48.50	Bot - Section 2	1.00	1.09	9.515	10.47	194.52	0.650	0.000	0.50	1.557	1.01	10.6	0.0	61.6
50.00		1.00	1.09	9.576	10.53	193.37	0.650	0.000	1.50	4.707	3.06	32.2	0.0	332.8
52.00		1.00	1.10	9.656	10.62	191.81	0.650	0.000	2.00	6.210	4.04	42.9	0.0	439.0
53.25	Top - Section 1	1.00	1.11	9.704	10.67	190.81	0.650	0.000	1.25	3.843	2.50	26.7	0.0	271.7
54.00		1.00	1.11	9.733	10.71	192.88	0.650	0.000	0.75	2.292	1.49	15.9	0.0	72.6
56.00		1.00	1.12	9.807	10.79	191.24	0.650	0.000	2.00	6.060	3.94	42.5	0.0	192.0
58.00		1.00	1.13	9.880	10.87	189.55	0.650	0.000	2.00	5.985	3.89	42.3	0.0	189.6
60.00		1.00	1.14	9.951	10.95	187.83	0.650	0.000	2.00	5.910	3.84	42.1	0.0	187.2
62.00		1.00	1.14	10.020	11.02	186.07	0.650	0.000	2.00	5.835	3.79	41.8	0.0	184.8
64.00		1.00	1.15	10.087	11.10	184.28	0.650	0.000	2.00	5.760	3.74	41.5	0.0	182.4
66.00		1.00	1.16	10.153	11.17	182.45	0.650	0.000	2.00	5.685	3.70	41.3	0.0	180.1
68.00		1.00	1.17	10.217	11.24	180.60	0.650	0.000	2.00	5.610	3.65	41.0	0.0	177.7
70.00		1.00	1.17	10.279	11.31	178.71	0.650	0.000	2.00	5.535	3.60	40.7	0.0	175.3
72.00		1.00	1.18	10.340	11.37	176.80	0.650	0.000	2.00	5.460	3.55	40.4	0.0	172.9
74.00		1.00	1.19	10.400	11.44	174.85	0.650	0.000	2.00	5.385	3.50	40.0	0.0	170.5
76.00		1.00	1.19	10.459	11.50	172.89	0.650	0.000	2.00	5.310	3.45	39.7	0.0	168.1
78.00	Appurtenance(s)	1.00	1.20	10.516	11.57	170.89	0.650	0.000	2.00	5.235	3.40	39.4	0.0	165.7
80.00		1.00	1.21	10.572	11.63	168.88	0.650	0.000	2.00	5.160	3.35	39.0	0.0	163.3
82.00		1.00	1.21	10.627	11.69	166.84	0.650	0.000	2.00	5.085	3.31	38.6	0.0	160.9
84.00		1.00	1.22	10.681	11.75	164.77	0.650	0.000	2.00	5.010	3.26	38.3	0.0	158.5

Wind Loading - Shaft

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 49
	Struct Class: II	



86.00	1.00	1.23	10.734	11.81	162.69	0.650	0.000	2.00	4.935	3.21	37.9	0.0	156.1			
88.00 Appurtenance(s)	1.00	1.23	10.787	11.87	160.59	0.650	0.000	2.00	4.860	3.16	37.5	0.0	153.7			
90.00	1.00	1.24	10.838	11.92	158.46	0.650	0.000	2.00	4.785	3.11	37.1	0.0	151.3			
92.00	1.00	1.24	10.888	11.98	156.32	0.650	0.000	2.00	4.710	3.06	36.7	0.0	148.9			
94.00	1.00	1.25	10.937	12.03	154.16	0.650	0.000	2.00	4.635	3.01	36.2	0.0	146.5			
96.00	1.00	1.25	10.986	12.08	151.98	0.650	0.000	2.00	4.560	2.96	35.8	0.0	144.1			
98.00 Appurtenance(s)	1.00	1.26	11.034	12.14	149.78	0.650	0.000	2.00	4.485	2.92	35.4	0.0	141.8			
98.50 Bot - Section 3	1.00	1.26	11.046	12.15	149.23	0.650	0.000	0.50	1.110	0.72	8.8	0.0	35.1			
100.00	1.00	1.27	11.081	12.19	147.57	0.650	0.000	1.50	3.348	2.18	26.5	0.0	183.8			
102.00 Top - Section 2	1.00	1.27	11.127	12.24	145.34	0.650	0.000	2.00	4.398	2.86	35.0	0.0	241.5			
104.00	1.00	1.28	11.173	12.29	145.25	0.650	0.000	2.00	4.323	2.81	34.5	0.0	102.7			
106.00	1.00	1.28	11.218	12.34	142.99	0.650	0.000	2.00	4.248	2.76	34.1	0.0	100.9			
108.00 Appurtenance(s)	1.00	1.29	11.262	12.39	140.72	0.650	0.000	2.00	4.173	2.71	33.6	0.0	99.1			
109.00 Top - Section 3	1.00	1.29	11.284	12.41	139.58	0.650	0.000	1.00	2.059	1.34	16.6	0.0	48.9			
110.00	1.00	1.29	11.305	12.44	138.43	0.650	0.000	1.00	2.040	1.33	16.5	0.0	48.4			
112.00	1.00	1.30	11.348	12.48	136.13	0.650	0.000	2.00	4.023	2.62	32.6	0.0	95.5			
114.00	1.00	1.30	11.391	12.53	133.82	0.650	0.000	2.00	3.948	2.57	32.2	0.0	93.7			
116.00	1.00	1.31	11.432	12.58	131.49	0.650	0.000	2.00	3.873	2.52	31.7	0.0	91.9			
118.00 Appurtenance(s)	1.00	1.31	11.474	12.62	129.16	0.650	0.000	2.00	3.798	2.47	31.2	0.0	90.1			
119.00	1.00	1.31	11.494	12.64	127.98	0.650	0.000	1.00	1.871	1.22	15.4	0.0	44.4			
Totals:								119.00				2,351.3				12,908.1

Discrete Appurtenance Forces

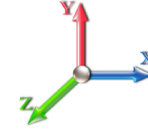
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	118.00	(3) T-Arm Kit	1	11.474	12.621	0.75	0.75	12.38	500.00	0.000	0.000	156.19	0.00	0.00
2	118.00	BXA-70063-6BF	3	11.474	12.621	0.56	0.80	12.72	51.00	0.000	0.000	160.51	0.00	0.00
3	118.00	T-Arm	3	11.474	12.621	0.56	0.75	16.88	1050.00	0.000	0.000	212.98	0.00	0.00
4	118.00	Commscope	6	11.474	12.621	0.66	0.80	32.19	262.20	0.000	0.000	406.28	0.00	0.00
5	118.00	Samsung MT6407-77A	3	11.474	12.621	0.56	0.80	7.88	238.20	0.000	0.000	99.44	0.00	0.00
6	118.00	B2/B66A RRH-BR049	3	11.474	12.621	0.54	0.80	3.01	253.20	0.000	0.000	37.95	0.00	0.00
7	118.00	BSAMNT-SBS-1-2	3	11.474	12.621	0.75	0.75	0.00	76.05	0.000	0.000	0.00	0.00	0.00
8	118.00	Collar	1	11.474	12.621	0.75	0.75	1.88	150.60	0.000	0.000	23.66	0.00	0.00
9	118.00	Samsung B5/B13	3	11.474	12.621	0.54	0.80	3.02	210.90	0.000	0.000	38.15	0.00	0.00
10	118.00	Raycap	1	11.474	12.621	0.80	0.80	3.03	32.00	0.000	0.000	38.27	0.00	0.00
11	108.00	ACU-A20-N	4	11.262	12.388	0.54	0.80	0.30	4.00	0.000	0.000	3.72	0.00	0.00
12	108.00	840 10054	3	11.262	12.388	0.49	0.80	6.72	105.00	0.000	0.000	83.24	0.00	0.00
13	108.00	APXVSP18-C-A20	2	11.262	12.388	0.66	0.80	10.65	114.00	0.000	0.000	131.94	0.00	0.00
14	108.00	800 MHz	3	11.262	12.388	0.54	0.80	4.00	159.00	0.000	0.000	49.60	0.00	0.00
15	108.00	800 MHz Filters	3	11.262	12.388	0.54	0.80	3.86	192.00	0.000	0.000	47.81	0.00	0.00
16	108.00	T-Arm	3	11.262	12.388	0.56	0.75	13.50	1050.00	0.000	0.000	167.24	0.00	0.00
17	108.00	APXVTM14-C-120	3	11.262	12.388	0.63	0.80	12.02	168.00	0.000	0.000	148.91	0.00	0.00
18	108.00	Horizon	2	11.262	12.388	0.80	0.80	0.69	21.20	0.000	0.000	8.52	0.00	0.00
19	108.00	P40-16-XLPP-RR-A	1	11.262	12.388	0.80	0.80	7.26	53.00	0.000	0.000	89.99	0.00	0.00
20	108.00	TD-RRH8x20-25	3	11.262	12.388	0.54	0.80	6.51	210.00	0.000	0.000	80.68	0.00	0.00
21	108.00	VHLP2.5	2	11.262	12.388	1.00	1.00	16.86	95.20	0.000	0.000	208.86	0.00	0.00
22	108.00	1900MHz RRH	3	11.262	12.388	0.40	0.80	4.56	132.00	0.000	0.000	56.49	0.00	0.00
23	98.00	Ericsson Air6419 N77G	3	11.034	12.137	0.57	0.75	6.50	166.20	0.000	0.000	78.87	0.00	0.00
24	98.00	Raycap DC6-48-60-0-8F	3	11.034	12.137	0.75	0.75	2.07	95.40	0.000	0.000	25.12	0.00	0.00
25	98.00	Cci TPA-65R-BU6DA	3	11.034	12.137	0.54	0.75	20.85	157.80	0.000	0.000	253.05	0.00	0.00
26	98.00	Cci DMP65R-BU6DA	3	11.034	12.137	0.54	0.75	20.59	238.20	0.000	0.000	249.91	0.00	0.00
27	98.00	AIR 6449 N77D	3	11.034	12.137	0.64	0.75	7.90	264.00	0.000	0.000	95.87	0.00	0.00
28	98.00	F3P-12-WLL	1	11.034	12.137	1.00	1.00	56.18	2786.00	0.000	0.000	681.86	0.00	0.00
29	98.00	Ericsson RRUS 4478 B14	3	11.034	12.137	0.38	0.75	1.86	178.20	0.000	0.000	22.53	0.00	0.00
30	98.00	Ericsson RRUS 4449	3	11.034	12.137	0.38	0.75	2.22	213.00	0.000	0.000	26.90	0.00	0.00
31	98.00	Ericsson RRUS 8843	3	11.034	12.137	0.38	0.75	1.86	225.00	0.000	0.000	22.53	0.00	0.00
32	98.00	Ericsson RRUS 32	3	11.034	12.137	0.38	0.75	3.08	159.00	0.000	0.000	37.41	0.00	0.00
33	88.00	AIR32	3	10.787	11.865	0.70	0.80	13.59	396.60	0.000	0.000	161.28	0.00	0.00
34	88.00	APXVAARR24_43-U-NA2	3	10.787	11.865	0.56	0.80	34.00	384.00	0.000	0.000	403.45	0.00	0.00
35	88.00	Ericsson AIR 21 B2A/B4P	3	10.787	11.865	0.69	0.80	12.57	273.00	0.000	0.000	149.14	0.00	0.00
36	88.00	T-Arm w/ mod	3	10.787	11.865	0.56	0.75	23.63	1050.00	0.000	0.000	280.31	0.00	0.00
37	88.00	KRY 112 144/2	3	10.787	11.865	0.56	0.80	0.69	33.00	0.000	0.000	8.17	0.00	0.00
38	88.00	4449 B71 + B85	3	10.787	11.865	0.54	0.80	4.13	222.00	0.000	0.000	49.03	0.00	0.00
39	78.00	MC-PK8-DSH	1	10.516	11.568	1.00	1.00	37.59	1727.00	0.000	0.000	434.83	0.00	0.00
40	78.00	Raycap	1	10.516	11.568	0.75	0.75	1.51	21.90	0.000	0.000	17.44	0.00	0.00
41	78.00	Fujitsu TA08025-B604	3	10.516	11.568	0.50	0.75	2.95	191.70	0.000	0.000	34.18	0.00	0.00
42	78.00	Fujitsu TA08025-B605	3	10.516	11.568	0.50	0.75	2.95	225.00	0.000	0.000	34.18	0.00	0.00
43	78.00	JMA Wireless	3	10.516	11.568	0.55	0.75	20.80	193.50	0.000	0.000	240.56	0.00	0.00

Totals: 14,328.05

5,557.05

Total Applied Force Summary

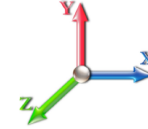
Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		21.34	202.09	0.00	0.00
2.00		21.24	201.34	0.00	0.00
4.00		42.18	400.44	0.00	0.00
6.00		41.78	397.45	0.00	0.00
8.00		41.38	394.46	0.00	0.00
10.00		40.98	391.47	0.00	0.00
12.00		40.58	388.48	0.00	0.00
14.00		40.18	385.48	0.00	0.00
16.00		40.27	382.49	0.00	0.00
18.00		40.87	379.50	0.00	0.00
18.63		12.88	118.92	0.00	0.00
20.00		28.29	257.58	0.00	0.00
22.00		41.77	373.52	0.00	0.00
24.00		42.10	370.52	0.00	0.00
26.00		42.37	367.53	0.00	0.00
28.00		42.58	364.54	0.00	0.00
30.00		42.74	361.55	0.00	0.00
32.00		42.86	358.55	0.00	0.00
34.00		42.93	355.56	0.00	0.00
36.00		42.98	352.57	0.00	0.00
38.00		42.98	349.58	0.00	0.00
40.00		42.96	346.59	0.00	0.00
42.00		42.91	343.59	0.00	0.00
44.00		42.83	340.60	0.00	0.00
46.00		42.73	337.61	0.00	0.00
48.00		42.60	334.62	0.00	0.00
48.50		10.59	83.19	0.00	0.00
50.00		32.23	397.62	0.00	0.00
52.00		42.88	525.44	0.00	0.00
53.25		26.67	325.67	0.00	0.00
54.00		15.95	105.03	0.00	0.00
56.00		42.50	278.44	0.00	0.00
58.00		42.28	276.05	0.00	0.00
60.00		42.05	273.65	0.00	0.00
62.00		41.81	271.26	0.00	0.00
64.00		41.54	268.86	0.00	0.00
66.00		41.27	266.47	0.00	0.00
68.00		40.98	264.08	0.00	0.00
70.00		40.68	261.68	0.00	0.00
72.00		40.37	259.29	0.00	0.00
74.00		40.04	256.90	0.00	0.00
76.00		39.71	254.50	0.00	0.00
78.00	(11) attachments	800.55	2611.21	0.00	0.00
80.00		39.01	247.42	0.00	0.00
82.00		38.64	245.02	0.00	0.00
84.00		38.26	242.63	0.00	0.00

Total Applied Force Summary

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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86.00		37.88	240.23	0.00	0.00
88.00	(18) attachments	1088.88	2596.44	0.00	0.00
90.00		37.08	206.84	0.00	0.00
92.00		36.67	204.45	0.00	0.00
94.00		36.25	202.06	0.00	0.00
96.00		35.82	199.66	0.00	0.00
98.00	(28) attachments	1529.43	4680.07	0.00	0.00
98.50		8.76	44.27	0.00	0.00
100.00		26.53	211.47	0.00	0.00
102.00		34.99	278.30	0.00	0.00
104.00		34.54	139.54	0.00	0.00
106.00		34.07	137.74	0.00	0.00
108.00	(32) attachments	1110.59	2439.34	0.00	0.00
109.00		16.61	62.52	0.00	0.00
110.00		16.49	62.07	0.00	0.00
112.00		32.65	122.80	0.00	0.00
114.00		32.16	121.01	0.00	0.00
116.00		31.66	119.21	0.00	0.00
118.00	(27) attachments	1204.59	2941.57	0.00	0.00
119.00		15.38	44.39	0.00	0.00
Totals:		7,908.30	31,625.05	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



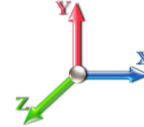
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 24

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.063	0.000	7.442	0.00	2.20
1.00	1.411" Hybrid	Yes	1.00	0.000	1.41	0.12	0.00	0.063	0.000	7.442	0.00	1.15
1.00	1" Reinforcing plate	Yes	1.00	0.000	0.00	0.00	0.00	0.063	0.000	7.442	0.00	0.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.063	0.000	7.442	0.00	2.20
2.00	1.411" Hybrid	Yes	1.00	0.000	1.41	0.12	0.00	0.063	0.000	7.442	0.00	1.15
2.00	1" Reinforcing plate	Yes	1.00	0.000	0.00	0.00	0.00	0.063	0.000	7.442	0.00	0.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.064	0.000	7.442	0.00	4.40
4.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.064	0.000	7.442	0.00	2.30
4.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.064	0.000	7.442	0.00	0.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	7.442	0.00	4.40
6.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.065	0.000	7.442	0.00	2.30
6.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.442	0.00	0.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	7.442	0.00	4.40
8.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.065	0.000	7.442	0.00	2.30
8.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.442	0.00	0.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.066	0.000	7.442	0.00	4.40
10.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.066	0.000	7.442	0.00	2.30
10.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.442	0.00	0.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.066	0.000	7.442	0.00	4.40
12.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.066	0.000	7.442	0.00	2.30
12.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.442	0.00	0.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.067	0.000	7.442	0.00	4.40
14.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.067	0.000	7.442	0.00	2.30
14.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	7.442	0.00	0.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	7.534	0.00	4.40
16.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.068	0.000	7.534	0.00	2.30
16.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	7.534	0.00	0.00
18.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	7.723	0.00	4.40
18.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.068	0.000	7.723	0.00	2.30
18.00	1" Reinforcing plate	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	7.723	0.00	0.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	1.63	0.09	0.00	0.069	0.000	7.779	0.00	1.39
18.63	1.411" Hybrid	Yes	0.63	0.000	1.41	0.07	0.00	0.069	0.000	7.779	0.00	0.72
18.63	1" Reinforcing plate	Yes	0.63	0.000	0.00	0.00	0.00	0.069	0.000	7.779	0.00	0.00
20.00	1 5/8" Hybrid	Yes	1.37	0.000	1.63	0.19	0.00	0.069	0.000	7.896	0.00	3.01
20.00	1.411" Hybrid	Yes	1.37	0.000	1.41	0.16	0.00	0.069	0.000	7.896	0.00	1.58
20.00	1" Reinforcing plate	Yes	1.37	0.000	0.00	0.00	0.00	0.069	0.000	7.896	0.00	0.00
22.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.070	0.000	8.056	0.00	4.40
22.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.070	0.000	8.056	0.00	2.30
24.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.071	0.000	8.205	0.00	4.40
24.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.071	0.000	8.205	0.00	2.30
26.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.071	0.000	8.345	0.00	4.40
26.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.071	0.000	8.345	0.00	2.30
28.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.072	0.000	8.476	0.00	4.40
28.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.072	0.000	8.476	0.00	2.30
30.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.073	0.000	8.600	0.00	4.40
30.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.073	0.000	8.600	0.00	2.30
32.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.074	0.000	8.717	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



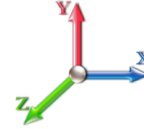
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 24

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
32.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.074	0.000	8.717	0.00	2.30
34.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.074	0.000	8.829	0.00	4.40
34.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.074	0.000	8.829	0.00	2.30
36.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.075	0.000	8.936	0.00	4.40
36.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.075	0.000	8.936	0.00	2.30
38.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.076	0.000	9.039	0.00	4.40
38.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.076	0.000	9.039	0.00	2.30
40.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.077	0.000	9.137	0.00	4.40
40.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.077	0.000	9.137	0.00	2.30
42.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.078	0.000	9.231	0.00	4.40
42.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.078	0.000	9.231	0.00	2.30
44.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.079	0.000	9.322	0.00	4.40
44.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.079	0.000	9.322	0.00	2.30
46.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.080	0.000	9.410	0.00	4.40
46.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.080	0.000	9.410	0.00	2.30
48.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.081	0.000	9.494	0.00	4.40
48.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.081	0.000	9.494	0.00	2.30
48.50	1 5/8" Hybrid	Yes	0.50	0.000	1.63	0.07	0.00	0.081	0.000	9.515	0.00	1.10
48.50	1.411" Hybrid	Yes	0.50	0.000	1.41	0.06	0.00	0.081	0.000	9.515	0.00	0.57
50.00	1 5/8" Hybrid	Yes	1.50	0.000	1.63	0.20	0.00	0.082	0.000	9.576	0.00	3.30
50.00	1.411" Hybrid	Yes	1.50	0.000	1.41	0.18	0.00	0.082	0.000	9.576	0.00	1.72
52.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.083	0.000	9.656	0.00	4.40
52.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.083	0.000	9.656	0.00	2.30
53.25	1 5/8" Hybrid	Yes	1.25	0.000	1.63	0.17	0.00	0.084	0.000	9.704	0.00	2.75
53.25	1.411" Hybrid	Yes	1.25	0.000	1.41	0.15	0.00	0.084	0.000	9.704	0.00	1.44
54.00	1 5/8" Hybrid	Yes	0.75	0.000	1.63	0.10	0.00	0.083	0.000	9.733	0.00	1.65
54.00	1.411" Hybrid	Yes	0.75	0.000	1.41	0.09	0.00	0.083	0.000	9.733	0.00	0.86
56.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.084	0.000	9.807	0.00	4.40
56.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.084	0.000	9.807	0.00	2.30
58.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.085	0.000	9.880	0.00	4.40
58.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.085	0.000	9.880	0.00	2.30
60.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.086	0.000	9.951	0.00	4.40
60.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.086	0.000	9.951	0.00	2.30
62.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.087	0.000	10.020	0.00	4.40
62.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.087	0.000	10.020	0.00	2.30
64.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.088	0.000	10.087	0.00	4.40
64.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.088	0.000	10.087	0.00	2.30
66.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.089	0.000	10.153	0.00	4.40
66.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.089	0.000	10.153	0.00	2.30
68.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.090	0.000	10.217	0.00	4.40
68.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.090	0.000	10.217	0.00	2.30
70.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.092	0.000	10.279	0.00	4.40
70.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.092	0.000	10.279	0.00	2.30
72.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.093	0.000	10.340	0.00	4.40
72.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.093	0.000	10.340	0.00	2.30
74.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.094	0.000	10.400	0.00	4.40
74.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.094	0.000	10.400	0.00	2.30

Linear Appurtenance Segment Forces (Factored)

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
76.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.095	0.000	10.459	0.00	4.40
76.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.095	0.000	10.459	0.00	2.30
78.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.097	0.000	10.516	0.00	4.40
78.00	1.411" Hybrid	Yes	2.00	0.000	1.41	0.23	0.00	0.097	0.000	10.516	0.00	2.30
80.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.053	0.000	10.572	0.00	4.40
82.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.053	0.000	10.627	0.00	4.40
84.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.054	0.000	10.681	0.00	4.40
86.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.055	0.000	10.734	0.00	4.40
88.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.056	0.000	10.787	0.00	4.40
90.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.057	0.000	10.838	0.00	4.40
92.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.058	0.000	10.888	0.00	4.40
94.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.059	0.000	10.937	0.00	4.40
96.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.060	0.000	10.986	0.00	4.40
98.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.061	0.000	11.034	0.00	4.40
98.50	1 5/8" Hybrid	Yes	0.50	0.000	1.63	0.07	0.00	0.061	0.000	11.046	0.00	1.10
100.00	1 5/8" Hybrid	Yes	1.50	0.000	1.63	0.20	0.00	0.062	0.000	11.081	0.00	3.30
102.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.063	0.000	11.127	0.00	4.40
104.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.063	0.000	11.173	0.00	4.40
106.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.064	0.000	11.218	0.00	4.40
108.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.065	0.000	11.262	0.00	4.40
109.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.066	0.000	11.284	0.00	2.20
110.00	1 5/8" Hybrid	Yes	1.00	0.000	1.63	0.14	0.00	0.067	0.000	11.305	0.00	2.20
112.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.068	0.000	11.348	0.00	4.40
114.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.069	0.000	11.391	0.00	4.40
116.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.070	0.000	11.432	0.00	4.40
118.00	1 5/8" Hybrid	Yes	2.00	0.000	1.63	0.27	0.00	0.072	0.000	11.474	0.00	4.40
Totals:											0.0	349.3

Calculated Forces

Structure: CT08558-B-SBA
Site Name: New Britain 3, CT
Height: 119.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

6/17/2022

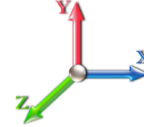


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 24

Dead Load Factor 1.00
Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-31.62	-7.91	0.00	-714.70	0.00	714.70	3013.27	1506.63	5849.73	2929.21	0.00	0.000	0.000	0.226
1.00	-31.42	-7.90	0.00	-706.79	0.00	706.79	3005.28	1502.64	5806.64	2907.64	0.00	-0.014	0.000	0.198
2.00	-31.22	-7.89	0.00	-698.89	0.00	698.89	2997.23	1498.62	5763.59	2886.08	0.01	-0.026	0.000	0.197
4.00	-30.81	-7.86	0.00	-683.12	0.00	683.12	2980.97	1490.49	5677.59	2843.02	0.02	-0.050	0.000	0.195
6.00	-30.41	-7.83	0.00	-667.41	0.00	667.41	2964.47	1482.24	5591.76	2800.03	0.05	-0.074	0.000	0.193
8.00	-30.01	-7.80	0.00	-651.75	0.00	651.75	2947.74	1473.87	5506.09	2757.14	0.08	-0.098	0.000	0.191
10.00	-29.62	-7.77	0.00	-636.16	0.00	636.16	2930.78	1465.39	5420.60	2714.33	0.13	-0.123	0.000	0.189
12.00	-29.23	-7.74	0.00	-620.62	0.00	620.62	2913.58	1456.79	5335.32	2671.62	0.19	-0.147	0.000	0.187
14.00	-28.84	-7.71	0.00	-605.14	0.00	605.14	2896.16	1448.08	5250.24	2629.02	0.25	-0.171	0.000	0.184
16.00	-28.45	-7.68	0.00	-589.72	0.00	589.72	2878.49	1439.25	5165.38	2586.53	0.33	-0.196	0.000	0.182
18.00	-28.07	-7.65	0.00	-574.36	0.00	574.36	2860.60	1430.30	5080.76	2544.16	0.42	-0.220	0.000	0.180
18.63	-27.95	-7.64	0.00	-569.54	0.00	569.54	2854.92	1427.46	5054.16	2530.83	0.45	-0.228	0.000	0.179
18.63	-27.95	-7.64	0.00	-569.54	0.00	569.54	2854.92	1427.46	5054.16	2530.83	0.45	-0.228	0.000	0.179
20.00	-27.69	-7.62	0.00	-559.07	0.00	559.07	2842.47	1421.24	4996.39	2501.91	0.52	-0.245	0.000	0.233
22.00	-27.31	-7.59	0.00	-543.83	0.00	543.83	2824.11	1412.06	4912.27	2459.79	0.63	-0.277	0.000	0.231
24.00	-26.94	-7.57	0.00	-528.64	0.00	528.64	2805.52	1402.76	4828.43	2417.81	0.75	-0.309	0.000	0.228
26.00	-26.57	-7.54	0.00	-513.51	0.00	513.51	2786.70	1393.35	4744.88	2375.97	0.89	-0.342	0.000	0.226
28.00	-26.20	-7.51	0.00	-498.44	0.00	498.44	2767.64	1383.82	4661.63	2334.28	1.04	-0.374	0.000	0.223
30.00	-25.83	-7.48	0.00	-483.43	0.00	483.43	2748.35	1374.17	4578.69	2292.75	1.20	-0.406	0.000	0.220
32.00	-25.47	-7.44	0.00	-468.48	0.00	468.48	2728.82	1364.41	4496.07	2251.38	1.38	-0.439	0.000	0.217
34.00	-25.11	-7.41	0.00	-453.59	0.00	453.59	2709.07	1354.53	4413.79	2210.17	1.57	-0.471	0.000	0.215
36.00	-24.75	-7.38	0.00	-438.77	0.00	438.77	2689.08	1344.54	4331.86	2169.15	1.77	-0.504	0.000	0.212
38.00	-24.40	-7.35	0.00	-424.01	0.00	424.01	2668.86	1334.43	4250.29	2128.30	1.99	-0.536	0.000	0.208
40.00	-24.05	-7.32	0.00	-409.31	0.00	409.31	2648.40	1324.20	4169.10	2087.65	2.22	-0.569	0.000	0.205
42.00	-23.70	-7.28	0.00	-394.68	0.00	394.68	2627.71	1313.86	4088.30	2047.19	2.47	-0.601	0.000	0.202
44.00	-23.36	-7.25	0.00	-380.11	0.00	380.11	2606.79	1303.40	4007.90	2006.93	2.73	-0.634	0.000	0.198
46.00	-23.02	-7.22	0.00	-365.62	0.00	365.62	2585.64	1292.82	3927.91	1966.88	3.00	-0.666	0.000	0.195
48.00	-22.68	-7.18	0.00	-351.18	0.00	351.18	2564.25	1282.13	3848.36	1927.04	3.29	-0.698	0.000	0.191
48.50	-22.60	-7.17	0.00	-347.60	0.00	347.60	2558.87	1279.44	3828.53	1917.11	3.36	-0.706	0.000	0.190
50.00	-22.20	-7.15	0.00	-336.84	0.00	336.84	2542.63	1271.32	3769.24	1887.42	3.59	-0.730	0.000	0.187
52.00	-21.67	-7.11	0.00	-322.55	0.00	322.55	2520.78	1260.39	3690.57	1848.03	3.90	-0.762	0.000	0.183
53.25	-21.34	-7.08	0.00	-313.67	0.00	313.67	1874.80	937.40	2771.76	1387.94	4.10	-0.782	0.000	0.237
54.00	-21.23	-7.07	0.00	-308.36	0.00	308.36	1869.65	934.83	2751.28	1377.68	4.22	-0.794	0.000	0.235
56.00	-20.95	-7.04	0.00	-294.21	0.00	294.21	1855.77	927.89	2696.78	1350.40	4.57	-0.831	0.000	0.229
58.00	-20.67	-7.01	0.00	-280.13	0.00	280.13	1841.66	920.83	2642.47	1323.20	4.92	-0.868	0.000	0.223
60.00	-20.39	-6.97	0.00	-266.12	0.00	266.12	1827.31	913.65	2588.34	1296.09	5.29	-0.905	0.000	0.217
62.00	-20.12	-6.94	0.00	-252.18	0.00	252.18	1812.73	906.36	2534.41	1269.09	5.68	-0.941	0.000	0.210
64.00	-19.85	-6.91	0.00	-238.30	0.00	238.30	1797.91	898.96	2480.69	1242.19	6.08	-0.976	0.000	0.203
66.00	-19.58	-6.87	0.00	-224.49	0.00	224.49	1782.87	891.43	2427.20	1215.41	6.50	-1.011	0.000	0.196
68.00	-19.31	-6.84	0.00	-210.75	0.00	210.75	1767.59	883.79	2373.96	1188.74	6.93	-1.045	0.000	0.188
70.00	-19.04	-6.80	0.00	-197.07	0.00	197.07	1752.08	876.04	2320.96	1162.21	7.37	-1.078	0.000	0.180
72.00	-18.78	-6.77	0.00	-183.47	0.00	183.47	1736.33	868.17	2268.23	1135.80	7.83	-1.110	0.000	0.172
74.00	-18.52	-6.73	0.00	-169.93	0.00	169.93	1720.35	860.18	2215.78	1109.54	8.31	-1.141	0.000	0.164
76.00	-18.27	-6.70	0.00	-156.47	0.00	156.47	1704.14	852.07	2163.62	1083.42	8.79	-1.171	0.000	0.155
78.00	-15.67	-5.85	0.00	-143.08	0.00	143.08	1687.70	843.85	2111.76	1057.45	9.29	-1.200	0.000	0.145
80.00	-15.42	-5.81	0.00	-131.38	0.00	131.38	1671.02	835.51	2060.22	1031.64	9.80	-1.228	0.000	0.137
82.00	-15.17	-5.78	0.00	-119.75	0.00	119.75	1654.12	827.06	2009.01	1006.00	10.32	-1.254	0.000	0.128
84.00	-14.93	-5.74	0.00	-108.20	0.00	108.20	1636.97	818.49	1958.14	980.53	10.85	-1.279	0.000	0.120

Calculated Forces

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 57



86.00	-14.69	-5.70	0.00	-96.72	0.00	96.72	1619.60	809.80	1907.63	955.23	11.39	-1.303	0.000	0.110
88.00	-12.11	-4.56	0.00	-85.32	0.00	85.32	1601.99	801.00	1857.49	930.12	11.94	-1.324	0.000	0.099
90.00	-11.91	-4.52	0.00	-76.21	0.00	76.21	1584.15	792.08	1807.72	905.20	12.50	-1.345	0.000	0.092
92.00	-11.70	-4.48	0.00	-67.17	0.00	67.17	1566.08	783.04	1758.35	880.48	13.07	-1.364	0.000	0.084
94.00	-11.50	-4.44	0.00	-58.20	0.00	58.20	1547.77	773.89	1709.39	855.96	13.64	-1.381	0.000	0.075
96.00	-11.30	-4.41	0.00	-49.32	0.00	49.32	1529.23	764.62	1660.84	831.66	14.22	-1.397	0.000	0.067
98.00	-6.66	-2.76	0.00	-40.50	0.00	40.50	1510.46	755.23	1612.73	807.56	14.81	-1.410	0.000	0.055
98.50	-6.61	-2.75	0.00	-39.12	0.00	39.12	1505.73	752.87	1600.77	801.57	14.96	-1.414	0.000	0.053
100.00	-6.40	-2.72	0.00	-34.99	0.00	34.99	1491.46	745.73	1565.06	783.69	15.41	-1.423	0.000	0.049
102.00	-6.12	-2.68	0.00	-29.54	0.00	29.54	1021.50	510.75	1074.26	537.93	16.00	-1.434	0.000	0.061
104.00	-5.99	-2.65	0.00	-24.18	0.00	24.18	1010.40	505.20	1044.04	522.80	16.61	-1.443	0.000	0.052
106.00	-5.85	-2.61	0.00	-18.88	0.00	18.88	999.06	499.53	1013.99	507.75	17.21	-1.454	0.000	0.043
108.00	-3.44	-1.44	0.00	-13.67	0.00	13.67	987.50	493.75	984.13	492.79	17.82	-1.462	0.000	0.031
109.00	-3.38	-1.42	0.00	-12.23	0.00	12.23	981.63	490.81	969.27	485.35	18.13	-1.465	0.000	0.029
109.00	-3.38	-1.42	0.00	-12.23	0.00	12.23	981.63	490.81	969.27	485.35	18.13	-1.465	0.000	0.029
110.00	-3.31	-1.40	0.00	-10.81	0.00	10.81	975.70	487.85	954.46	477.94	18.44	-1.468	0.000	0.026
112.00	-3.19	-1.37	0.00	-8.00	0.00	8.00	963.67	481.83	925.00	463.19	19.05	-1.474	0.000	0.021
114.00	-3.07	-1.33	0.00	-5.27	0.00	5.27	951.40	475.70	895.76	448.55	19.67	-1.477	0.000	0.015
116.00	-2.95	-1.30	0.00	-2.61	0.00	2.61	938.91	469.45	866.76	434.02	20.29	-1.480	0.000	0.009
118.00	-0.04	-0.02	0.00	-0.02	0.00	0.02	926.18	463.09	838.01	419.63	20.91	-1.481	0.000	0.000
119.00	0.00	-0.02	0.00	0.00	0.00	0.00	919.72	459.86	823.73	412.48	21.22	-1.481	0.000	0.000

Final Analysis Summary

Structure: CT08558-B-SBA	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 97 mph Wind	33.1	0.00	37.93	0.00	0.00	3006.08
0.9D + 1.6W 97 mph Wind	33.1	0.00	28.44	0.00	0.00	2972.40
1.2D + 1.0Di + 1.0Wi 50 mph Wind	9.8	0.00	73.62	0.00	0.00	923.99
1.2D + 1.0E	1.5	0.00	37.95	0.00	0.00	156.32
0.9D + 1.0E	1.5	0.00	28.46	0.00	0.00	154.38
1.0D + 1.0W 60 mph Wind	7.9	0.00	31.62	0.00	0.00	714.70

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 97 mph Wind	-24.04	-29.82	0.00	-1322.2	0.00	-1322.2	1874.80	937.40	2771.76	1387.94	53.25	0.967
0.9D + 1.6W 97 mph Wind	-17.64	-29.43	0.00	-1299.7	0.00	-1299.7	1874.80	937.40	2771.76	1387.94	53.25	0.947
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-54.57	-9.25	0.00	-412.69	0.00	-412.69	1874.80	937.40	2771.76	1387.94	53.25	0.327
1.2D + 1.0E	-25.72	-1.33	0.00	-79.22	0.00	-79.22	1874.80	937.40	2771.76	1387.94	53.25	0.071
0.9D + 1.0E	-19.29	-1.31	0.00	-77.88	0.00	-77.88	1874.80	937.40	2771.76	1387.94	53.25	0.066
1.0D + 1.0W 60 mph Wind	-21.34	-7.08	0.00	-313.67	0.00	-313.67	1874.80	937.40	2771.76	1387.94	53.25	0.237

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination				Upper Termination				Max Member			
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio
0.0	1.0	(4) SOL-1 3/4" William R71	228.2	2.74	25.3	136.5	25.3	6	0	246.4	25.3			136.46	288.5	298.82	0.473
1.0	18.6	(4) LNP-LP6X100-B-20T	255.2	6.13	25.3	246.4	25.3			229.2	25.3	10	10	246.39	297.8	288.75	0.853

Base Plate Summary

Structure: CT08558-B-SB	Code: TIA-222-G	6/17/2022
Site Name: New Britain 3, CT	Exposure: C	
Height: 119.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 60.00	Bolt Circle: 54.00
Moment (kip-ft): 2356.00	Width (in): 52.00	Number Bolts: 12.00
Axial (kip): 27.50	Style: Clipped	Bolt Type: 2.25" 18J
Shear (kip): 24.70	Polygon Sides: 4.00	Bolt Diameter (in): 2.25
Analysis (1.2D + 1.6W)	Clip Length (in): 9.00	Yield (ksi): 75.00
Moment (kip-ft): 3006.08	Effective Len (in): 9.84	Ultimate (ksi): 100.00
Axial (kip): 37.93	Moment (kip-in): 743.63	Arrangement: Clustered
Shear (kip): 33.09	Allow Stress (ksi): 81.00	Cluster Dist (in): 6.00
	Applied Stress (ksi): 59.94	Start Angle (deg): 45.00
	Stress Ratio: 0.74	Compression
		Force (kip): 228.81
		Allowable (kip): 260.00
		Ratio: 0.90
		Tension
		Force (kip): 216.54
		Allowable (kip): 260.00
		Ratio: 0.85



Monopole Mat Foundation Design

Date

6/17/2022

Customer Name:	AT&T	EIA/TIA Standard:	TIA-222-G
Site Name:		Structure Height (Ft.):	119
Site Number:	CT08558-B-SBA	Engineer Name:	S. Hesselbeir
Engr. Number:	128281	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations
Monopole
Analysis

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	37.9	Shear Force (Kips):	33.1
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3006.1

Allowable overstress %: 5.0%

Foundation Geometries:

Diameter of Pier (ft.):	6.0	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	1.00	Depth of Base BG (ft.):	5.5
Length of Pad (ft.):	21.5	Thickness of Pad (ft.):	1.50
		Width of Pad (ft.):	21.5

Final Length of pad (ft)	21.5	Final width of pad (ft):	21.5
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Material Properties and Rebar Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	40	
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	30	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	9	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	38	Qty. of Rebar in Pad (W):	38
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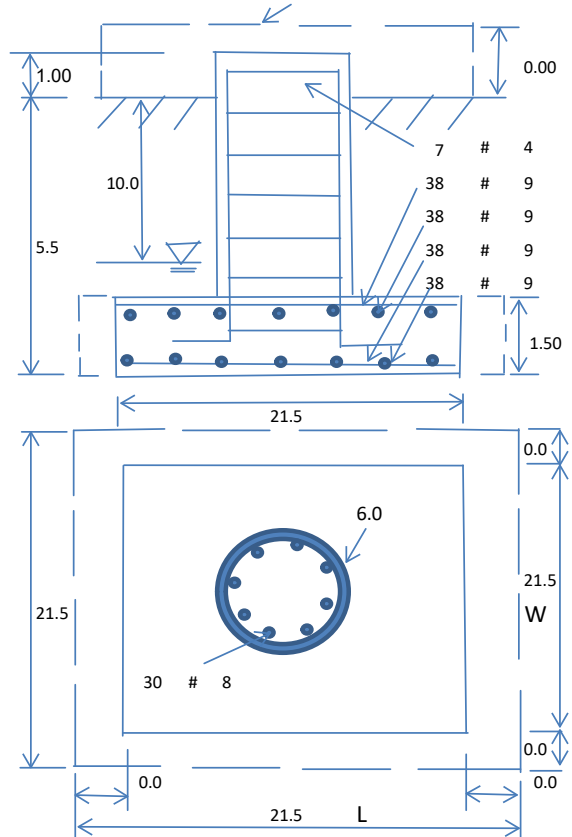
Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	38	Qty. of Rebar in Pad (W):	38
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Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

Soil Unit Weight (pcf):	128.0	Soil Buoyant Weight:	50.0	Pcf	Angle from Top of Pad:	30
Water Table B.G.S. (ft):	10.0	Unit Weight of Water:	62.4	pcf	Angle from Bottm of Pad:	25
Ultimate Bearing Pressure (psf):	12000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Reduction factor on the maximum soil bearing pressure:	1.00
Consider soil hor. resist. for OTM.:	No					



Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	1735.90	Total Dry Soil Weight (Kips):	222.20
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	222.20	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	834.75	Total Dry Concrete Weight (Kips):	125.21
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	125.21	Total Vertical Load on Base (Kips):	385.31

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	3955	< Allowable Factored Soil Bearing (psf):	9000	0.44	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	3768.6	> Design Factored Momont (kips-ft):	3221	0.85	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.17				OK!

Load/
Capacity
Ratio

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension): 0.90 Strength reduction factor (Shear): 0.75
 Strength reduction factor (Axial compression): 0.65 Wind Load Factor on Concrete Design: 1.00

Load/
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	0.79	Tie / Stirrup Area (sq. in./each):	0.20			
Calculated Moment Capacity (Mn,Kips-Ft):	3443.6	> Design Factored Moment (Mu, Kips-F	3171.6	0.92	OK!	
Calculated Shear Capacity (Kips):	463.1	> Design Factored Shear (Kips):	33.1	0.07	OK!	
Calculated Tension Capacity (Tn, Kips):	1279.8	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!	
Calculated Compression Capacity (Pn, Kips):	7156.5	> Design Factored Axial Load (Pu Kips):	37.9	0.01	OK!	
Moment & Axial Strength Combination:	0.92	OK! Check Tie Spacing (Design/Required):		1	OK!	
Pier Reinforcement Ratio:	0.006	Reinforcement Ratio is satisfied per ACI				

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	353.4	> One-Way Factored Shear (L-D. Kips):	236.1	0.67	OK!	
One-Way Design Shear Capacity (W-Direction, Kips):	353.4	> One-Way Factored Shear (W-D., Kips)	236.1	0.67	OK!	
One-Way Design Shear Capacity (Corner-Corner, Kips):	361.6	> One-Way Factored Shear (C-C, Kips):	253.4	0.70	OK!	
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0102	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0102			
Lower Steel Pad Moment Capacity (L-Direction, Kips-ft):	2246.6	> Moment at Bottom (L-Dir. K-Ft):	950.2	0.42	OK!	
Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):	2246.6	> Moment at Bottom (W-Dir. K-Ft):	950.2	0.42	OK!	
Lower Steel Pad Moment Capacity (Corner-Corner, K-ft):	3099.9	> Moment at Bottom (C-C Dir. K-Ft):	1343.8	0.43	OK!	
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0102	OK! Upper Steel Reinf. Ratio (W-Dir.):	0.0102			
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	2246.6	> Moment at the top (L-Dir K-Ft):	488.1	0.22	OK!	
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	2246.6	> Moment at the top (W-Dir K-Ft):	488.1	0.22	OK!	
Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):	3099.9	> Moment at the top (C-C Dir. K-Ft):	457.9	0.15	OK!	

(3).Check Punching Shear Capacity due to Moment in the Pier:

Moment transferred by punching shear:	1202.4	k-ft.	Max. factored shear stress $v_{u,CD}$:	6.4	Psi
Max. factored shear stress $v_{u,AB}$:	23.0	Psi	Factored shear Strength ϕv_n :	189.7	Psi
Max. factored shear stress v_u :	23.0	Psi	Check Usage of Punching Shear Capacity:	0.12	OK!



Pier Foundation Design For Monopole			Date
			6/9/2022
Customer Name:	AT&T	EIA/TIA Standard:	TIA-222-G
Site Name:		Structure Height (Ft.):	119
Site Number:	CT08558-B-SBA	Engineer Name:	J. Tibbetts
Engr. Number:	128281	Manager Login Req'd:	

Foundation Info Obtained from: Drawings/Calculations

Structure Type: Monopole

Analysis or Design? Analysis

Base Reactions (Factored):

Axial Load (Kips):	37.9	Shear Force (Kips):	33.1
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3006.1

Foundation Geometries:

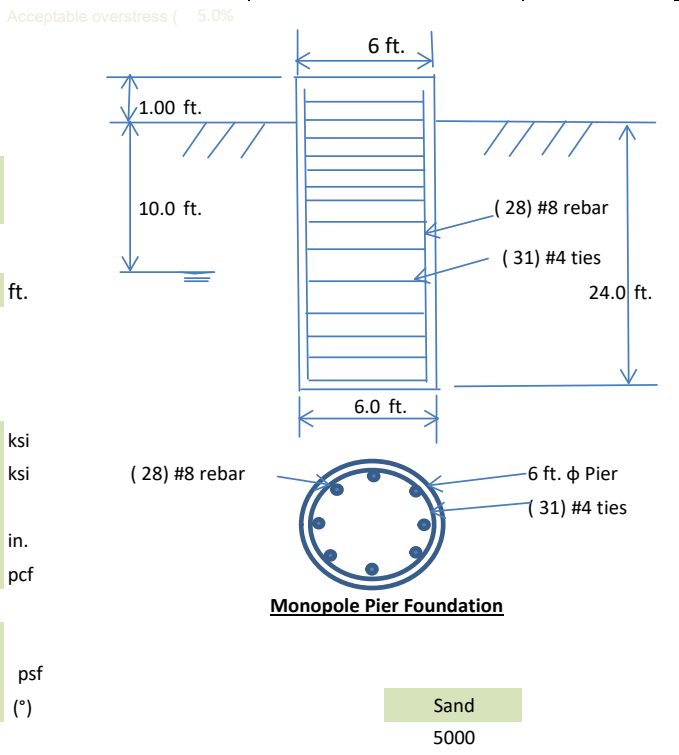
Diameter of Pier (ft.):	6.0	Depth of Base B. G. S. :	24.0 ft.
Pier Height A. G. (ft.):	1.00		

Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000 ksi
Vertical bar yield (ksi)	60	Tie steel yield strength:	60 ksi
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4
Qty. of Vertical Rebars:	28	Tie Spacing:	12.0 in.
Concrete Cover (in.):	3	Concrete unit weight:	150.0 pcf

Soil Design Parameters:

Water Table B.G.S. (ft):	10.0	Unit weight of water:	62.4 psf
Ratio of Uplift/Axial Skin Friction:	1.0	Pullout failure Angle:	30 (°)
Skin Frictions are to be obtained from:	Soil Report		



Depth of Layers (ft)		γ_{soil}	ϕ	Cohesion	Ultimate Skin Friction (psf)	Ultimate Bearing (psf)	Soil Types						
Top	Bottom	(pcf)	(°)	(psf)									
0.0	2.0	135	0	0	0	0	Sand						
2.0	10.0	135	34	0	0	0	Sand						
10.0	25.0	137	34	0	0	0	Sand						
25.0	30.0	137	34	0	0	0	Sand						

Soil weight Increase Factor for bouyant soils (1.0 to 1.15): 1.1

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Soil Bearing Strength Reduction Factor:	0.75
Total Dry Soil Volume from Conical Failure (cu. Ft.):	5907	Dry Soil Weight from Conical Failure:	797 Kips
Total Buoyant Soil Volume from Conical Failure (cu. Ft.):	2024	Buoyant Soil Weight from Conical Failure (Kips):	193 Kips
Total Dry Concrete Volume (cu. Ft.):	311	Total Dry Concrete Weight:	46.7 Kips
Total Buoyant Concrete Volume (cu. Ft.):	395.8	Total Buoyant Concrete Weight:	34.68 Kips
Total Effective Concrete Weight (Kips):	81.3	Total Effective Soil Weight:	990.1 Kips
Total Effective Vertical Load on Base (Kips):	43.4		

Check Soil Capacities:

Allowable Foundation Overturning Resistance (kips-ft.):	6318.7	>	Design Factored Moment (kips-ft):	3553	Usage	0.56	OK!
Factor of Safety of Passive Soil Resistance against Moment:	1.78	OK!					

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00

Reinforcing Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	0.79	Tie / Stirrup Area (sq. in./each):	0.20	Usage	
Calculated Moment Capacity (Mn,Kips-Ft):	3222.1	>	Design Factored Moment (Mu, K-Ft):	3153.3	0.98 OK!
Calculated Shear Capacity (Kips):	740.0	>	Design Factored Shear (Kips):	288.2	0.39 OK!
Calculated Tension Capacity (Tn, Kips):	1194.5	>	Design Factored Tension (Tu Kips):	0.0	0.00 OK!
Calculated Compression Capacity (Pn, Kips):	7159	>	Design Factored Axial Load (Pu Kips):	37.9	0.01 OK!
Moment & Axial Strength Combination:	0.98	OK!	Max. Allowable Tie/Stirrup Spacing:	12.00	in.
Pier Reinforcement Ratio:	0.005	Reinforcement Ratio is satisfied per ACI			

PER THE INTERNATIONAL BUILDING CODE THIS STRUCTURE IS CLASSIFIED AS:

1. CONSTRUCTION TYPE II-B (TABLE 601)
2. GROUP U OCCUPANCY (SECTION 312.1 UNOCCUPIED TOWER SITE)

MODIFICATION AND DESIGN DRAWINGS FOR AN EXISTING 119' SABRE MONOPOLE TOWER

PROPOSED CARRIER: AT&T

SITE: CT08558-B-SBA / NEW BRITAIN 3, CT
COORDINATES (LATITUDE: 41.698414°, LONGITUDE: -72.785944°)

CONSTRUCTION CLASS

THE RIGGING PLAN FOR THIS SITE WOULD BE A
MINIMUM OF A CLASS III AND THE CONTRACTOR
SHALL MAKE FINAL DETERMINATION

PLEASE NOTE THIS SET OF DRAWINGS IS FOR INSTALLATION AND ASSEMBLY ONLY. FABRICATION DETAIL DRAWINGS ARE NOT PROVIDED AND MUST BE COMPLETED BY THE STEEL FABRICATOR SELECTED. TES CAN PROVIDE THE FABRICATION DETAIL DRAWINGS FOR AN ADDITIONAL FEE.

NOTE:

1. THE MODIFICATION DRAWINGS ARE BASED ON THE
TES PROJECT NO. 121430, DATED 01/06/2022.

SHEET	SHEET TITLE	REV
T-1	TITLE SHEET	0
BOM	BILL OF MATERIALS	0
GN-1	GENERAL NOTES	0
A-1	TOWER PROFILE	0
A-2	INSTALLATION OF NEW ANCHOR ROD DETAILS	0
A-3	REINFORCEMENT ASSEMBLY	0
SPEC-1	NEXGEN2 BLIND BOLT ASSEMBLY INSTALLATION GUIDE	0
SPEC-2	NEXGEN2 BLIND BOLT ASSEMBLY INSTALLATION GUIDE	0



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BOCA RATON, FL 33487
(800)-487-SITE

TES JOB NO:
121631

CUSTOMER SITE NO:
CT08558-B-SBA
CUSTOMER SITE NAME:
NEW BRITAIN 3, CT
723 FARMINGTON AVE
NEW BRITAIN, CT 06051



DRAWN BY: LU CHECKED BY: AD/CZ

REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	LU	01/31/22
△			
△			
△			

SHEET TITLE:

TITLE SHEET

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SHEET NUMBER: REV #:
T-1 0

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE ANSI/TIA-222-G, ANSI/ASSP A10.48, 2018 CONNECTICUT STATE BUILDING CODE, AND ANY OTHER GOVERNING BUILDING CODES AND OSHA SAFETY REGULATIONS.
2. ALL WORK INDICATED ON THE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TELECOMMUNICATIONS TOWER, POLE AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL MISCELLANEOUS PARTS (SUCH AS SHIMS), TEMPORARY SUPPORTS, AND GUYINGS, ETC., PER ANSI/ASSP A10.48, TO COMPLETE THE ASSEMBLY AS SHOWN IN THE DRAWINGS.
4. CONTRACTOR SHALL PROCEED WITH THE INSTALLATION WORK CAREFULLY SO THE WORK WILL NOT DAMAGE ANY EXISTING CABLE, EQUIPMENT OR THE STRUCTURE.
5. THE USE OF GAS TORCH OR WELDER, ARE NOT ALLOWED ON ANY TOWER STRUCTURE WITHOUT THE CONSENT OF THE TOWER OWNER.
6. GENERALLY THE CONTRACTOR IS RESPONSIBLE TO CONDUCT AN ONSITE VISIT SURVEY OF THE JOB SITE AFTER AWARD, AND REPORT ANY ISSUES WITH THE SITE TO **TES** BEFORE PROCEEDING CONSTRUCTION.

FABRICATION

1. ALL STEEL SHALL MEET OR EXCEED THE MINIMUM STRENGTH AS SPECIFIED IN THE DRAWINGS. IF YIELD STRENGTH WAS NOT NOTED IN THE DRAWINGS, CONTRACTORS SHALL CONTACT TES FOR DIRECTION.
2. ALL FIELD CUT EDGES SHALL BE GROUND SMOOTH. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

WELDING

1. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNO. (E70XX UNLESS NOTED OTHERWISE).
2. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING APPROX. 0.5" BEYOND THE PROPOSED FIELD WELD SURFACES.
3. ALL WELDS SHALL BE INSPECTED VISUALLY. A MINIMUM OF 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. 100% OF WELDS SHALL BE INSPECTED IF DEFECTS ARE FOUND.
4. WELD INSPECTIONS SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
5. AFTER INSPECTION, ALL FIELD WELDED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

BOLTED ASSEMBLIES AND TIGHTENING OF CONNECTIONS

1. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS AS APPROVED BY THE RCSC.
2. FLANGE BOLTS SHALL BE TIGHTENED BY THE AISC "TURN-OF-THE-NUT" METHOD. THE FOLLOWING TABLE SHOULD BE USED FOR THE "TURN-OF-THE-NUT" TIGHTENING.
3. SPLICE BOLTS AND ALL OTHER BOLTS IN BEARING TYPE CONNECTIONS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION.
4. THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS ATTAINED BY EITHER A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER WITH AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
5. HB HOLLO-BOLT SHALL BE INSTALLED PER ICC ESR-3330 INSTRUCTIONS.

VERIFICATION AND INSPECTION

1. IF APPLICABLE, VERIFICATION INSPECTION TO BE PERFORMED SHALL BE IN ACCORDANCE TO IBC-2015 SECTION 1705 - FOR STEEL CONSTRUCTION & TABLE 1705.3 FOR CONCRETE CONSTRUCTION.

POST INSTALLED EPOXY INJECTED ANCHOR BOLTS:

1. CONCRETE MUST BE A MINIMUM OF 28 DAYS OLD.
2. FOLLOW MANUFACTURER'S REQUIREMENTS FOR CURE TIME VS. AMBIENT TEMPERATURE.
3. DRILL HOLE TO REQUIRED DIAMETER AND DEPTH. ALL WATER, DIRT, OIL, DEBRIS, GREASE OR DUST MUST BE REMOVED FROM EACH CORE HOLE. FOLLOW MANUFACTURER'S RECOMMENDATION FOR CORRECT TYPE OF CORE BIT. AVOID DAMAGING EXISTING REINFORCING STEEL OR OTHER EMBEDDED ITEMS. NOTIFY TES ENGINEERING IF VOIDS IN THE CONCRETE, REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED. STOP CORING IMMEDIATELY IF THIS OCCURS.
4. A HOLE ROUGHENING DEVICE FROM EITHER HILTI OR ALLFASTENERS SHALL BE USED WITH ALL HOLES. FOLLOW ALL MANUFACTURER'S RECOMMENDED CORING AND INSTALLATION INSTRUCTIONS.
5. AFTER CORING AND ROUGHENING, FLUSH EACH HOLE WITH RUNNING WATER TO REMOVE ANY SLURRY OR DEBRIS. REMOVE ALL WATER FROM THE HOLE BY MECHANICAL PUMPING.
6. BRUSH EACH HOLE WITH AN APPROPRIATE SIZED NYLON BRUSH AND FLUSH WITH RUNNING WATER A SECOND TIME. REMOVE ALL WATER FROM THE HOLE.
7. AFTER THE SECOND WATER FLUSH BRUSH THE HOLE AGAIN WITH THE APPROPRIATE SIZED NYLON BRUSH.
8. BLOW EACH HOLE WITH COMPRESSED AIR TWO TIMES MINIMUM.
9. CONFIRM THAT EACH HOLE IS PROPERLY ROUGHED AND DRY.
10. NO EPOXY INJECTION SHALL TAKE PLACE IN RAINY CONDITIONS.
11. EPOXY SHOULD BE VISIBLE AT THE TOP OF THE CORE HOLE AFTER INSTALLATION.
12. CONTRACTOR TO SUPPLY ONE PHOTO OF EACH ROUGHED AND CLEANED HOLE IN CLOSEOUT PHOTO PACKAGE.

TABLE 8.2 NUT ROTATION FROM SNUG-TIGHT CONDITION FOR TURN-OF-NUT PRETENSIONING^{a,b}

BOLT LENGTH ^f	DISPOSITION OF OUTER FACE OF BOLTED PARTS		
	BOTH FACES NORMAL TO BOLT AXIS	ONE FACE NORMAL TO BOLT AXIS, OTHER SLOPED NOT MORE THAN 1:20 ^d	BOTH FACES SLOPED NOT MORE THAN 1:20 FROM NORMAL TO BOLT AXIS ^d
NOT MORE THAN 4d _b	1/3 TURN	1/2 TURN	2/3 TURN
MORE THAN 4d _b BUT NOT MORE THAN 8d _b	1/2 TURN	2/3 TURN	5/6 TURN
MORE THAN 8d _b BUT NOT MORE THAN 12d _b	2/3 TURN	5/6 TURN	1 TURN

^a NUT ROTATION IS RELATIVE TO BOLT REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED. FOR REQUIRED NUT ROTATIONS OF 1/2 TURN AND LESS, THE TOLERANCE IS PLUS OR MINUS 30 DEGREES; FOR REQUIRED NUT ROTATIONS OF 2/3 TURN AND MORE, THE TOLERANCE IS PLUS OR MINUS 45 DEGREES.

^b APPLICABLE ONLY TO JOINTS IN WHICH ALL MATERIAL WITHIN THE GRIP IS STEEL.

^c WHEN THE BOLT LENGTH EXCEEDS 12d_b, THE REQUIRED NUT ROTATION SHALL BE DETERMINED BY ACTUAL TESTING IN A SUITABLE TENSION CALIBRATOR THAT SIMULATES THE CONDITIONS OF SOLIDLY FITTING STEEL.

^d BEVELED WASHER NOT USED.

SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30, 2004 RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS

INSTALLATION TORQUE REQUIRED FOR HOLLO BOLTS AND AJAX BOLTS:

1. HB12 HOLLO BOLT: 59 FT-LBS
2. HB16 HOLLO BOLT: 140 FT-LBS
3. HB20 HOLLO BOLT: 221 FT-LBS
4. M20 AJAX BOLT: 280 FT-LBS.

FIELD HOT WORK PLAN NOTES:

FOLLOWING GUIDELINES SHALL BE COMPLIED WITH:

1. CONTRACTOR'S RESPONSIBILITY TO COMPLETE A HOT WORK PLAN IF AWARDED PER CUSTOMER SPECIFICATIONS GUIDELINES FOR WELDING, CUTTING & SPARK PRODUCING WORK.
2. HAVE A FIRE PLAN APPROVED BY THE CUSTOMER AND THEIR SAFETY MANAGEMENT DEPT.
3. CONTRACTOR MUST OBTAIN THE CONTACT INFO OF THE LOCAL FIRE DEPARTMENT AND THE 911 ADDRESS OF THE TOWER SITE BEFORE CONSTRUCTION.
4. CONTRACTOR SHALL MAKE SURE THAT CELL PHONE COVERAGE IS AVAILABLE IN THE TOWER SITE. IF CELL COVERAGE IS NOT AVAILABLE, AN IMMEDIATE AVAILABLE MEANS OF DIRECT COMMUNICATION WITH THE FIRE DEPARTMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION START.
5. ALL CONSTRUCTION SHALL BE PERFORMED UNDER WIND SPEED LESS THAN 10 MPH ON THE GROUND LEVEL. IF WIND SPEED INCREASE, CONTRACTOR MUST DETERMINE IF CONSTRUCTION SHALL BE DISCONTINUED.
6. FIRE SUPPRESSION EQUIPMENT MUST BE MADE AVAILABLE ON SITE AND READY TO USE.
7. CONTRACTOR SHALL ASSIGN A FIRE WATCHER TO PERFORM FIRE-FIGHTING DUTIES.
8. ALL WELDERS SHALL BE AWS OR STATE CERTIFIED. THEY MUST ALSO BE EXPERIENCED IN WELDING ON GALVANIZED MATERIALS.
9. IF IT IS POSSIBLE, ALL EXISTING COAX NEAR WELDING AREA SHALL BE TEMPORARILY MOVED AWAY FROM THE WELDING AREA BEFORE WELDING THE PLATES.
10. PLEASE REPORT ANY FIELD ISSUE TO TES @ 972-483-0607.



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 (800)-487-SITE

TES JOB NO:
 121631

CUSTOMER SITE NO:
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 CUSTOMER SITE NAME:
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SHEET NUMBER: GN-1 REV #: 0

NOTES:

1. TEMPORARILY RELOCATE ANY EXISTING COAX ATTACHED TO THE MONOPOLE AND ANY OTHER MEMBERS WHERE OBSTRUCTION WITH THE PROPOSED MODIFICATION MAY OCCUR.
2. TEMPORARY RELOCATION OF EXISTING EQUIPMENT AROUND THE FOUNDATION MAY BE REQUIRED DURING CONSTRUCTION.

SCOPE OF WORK

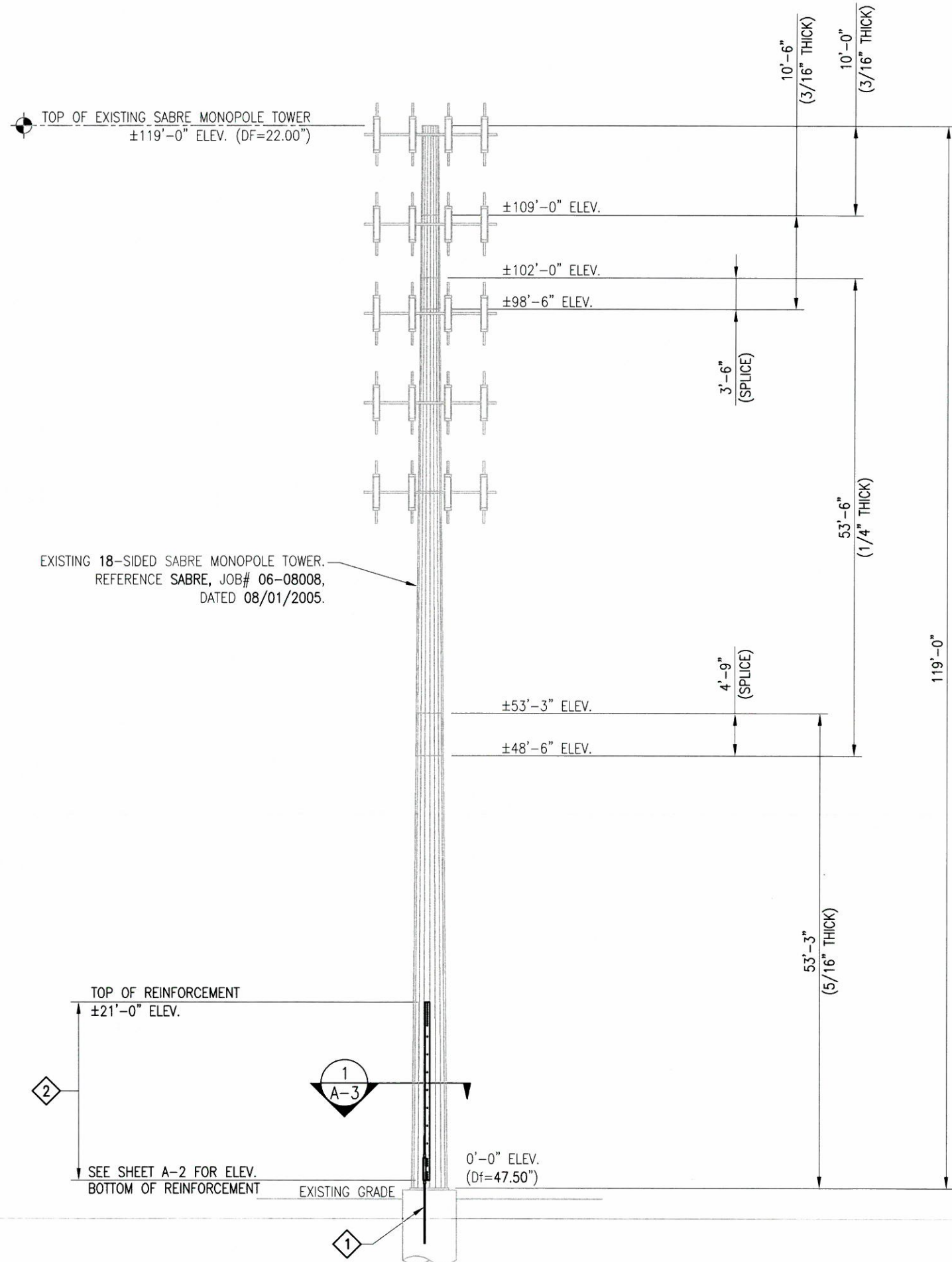
1. INSTALL NEW (4) ANCHOR ROD REINFORCEMENTS. SEE SHEET A-2 FOR DETAILS.
2. INSTALL NEW (2) LP6X100-BL4.0-20T AND (2) LP6X100-BR4.0-20T FLAT BAR REINFORCEMENTS FROM ±1'-0" TO ±21'-0" ELEV. SEE SHEET A-3 FOR DETAILS.
3. APPLY FOUNDATION COATING
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN-UP, REMOVAL AND DISPOSAL OF EXCESS MATERIALS USED AND REMOVED FROM THE STRUCTURE AT THE COMPLETION OF THE PROJECT.



PHOTO 1

FOUNDATION COATING NOTES:

1. THE COATING MATERIALS SHALL BE LANCO WHITE ACRYLIC ELASTOMERIC COATING AND SEALER, OR HYDRO ARMOR COATING.
2. THE COATING CAN BE PLACED AT LEAST (2) DAYS AFTER THE PLACEMENT OF THE CONCRETE FOR FOUNDATION REINFORCEMENT, AND MINIMUM (4) DAYS FOR NEW FOUNDATION CONSTRUCTION.
3. THE CONCRETE SURFACE SHALL BE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE COATING.
4. THE COATING SHALL BE APPLIED TO ALL THE SURFACES OF THE CONCRETE ABOVE THE GROUND AND 6" BELOW THE GRADE SURFACE IF APPLICABLE.
5. MINIMUM 30 MILS COATING IS REQUIRED.
6. APPLY COLD GALVANIZE AT LEAST 2'-3' ABOVE FOUNDATION.



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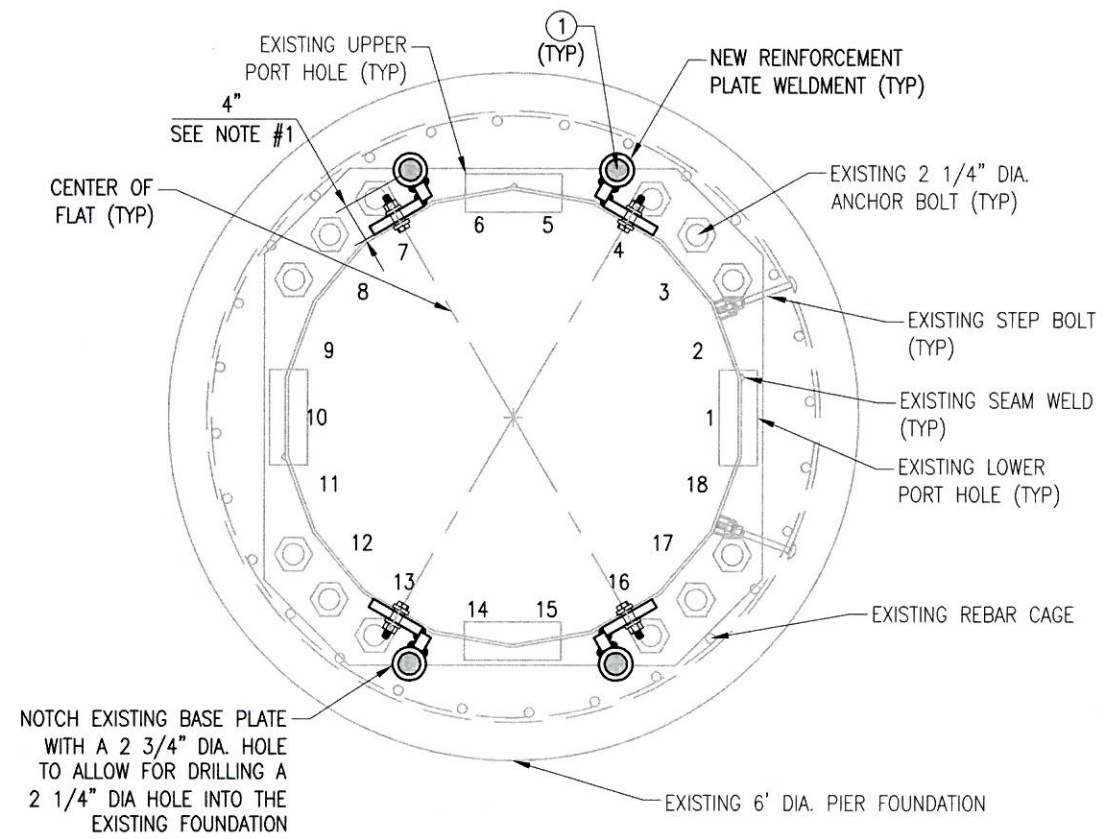
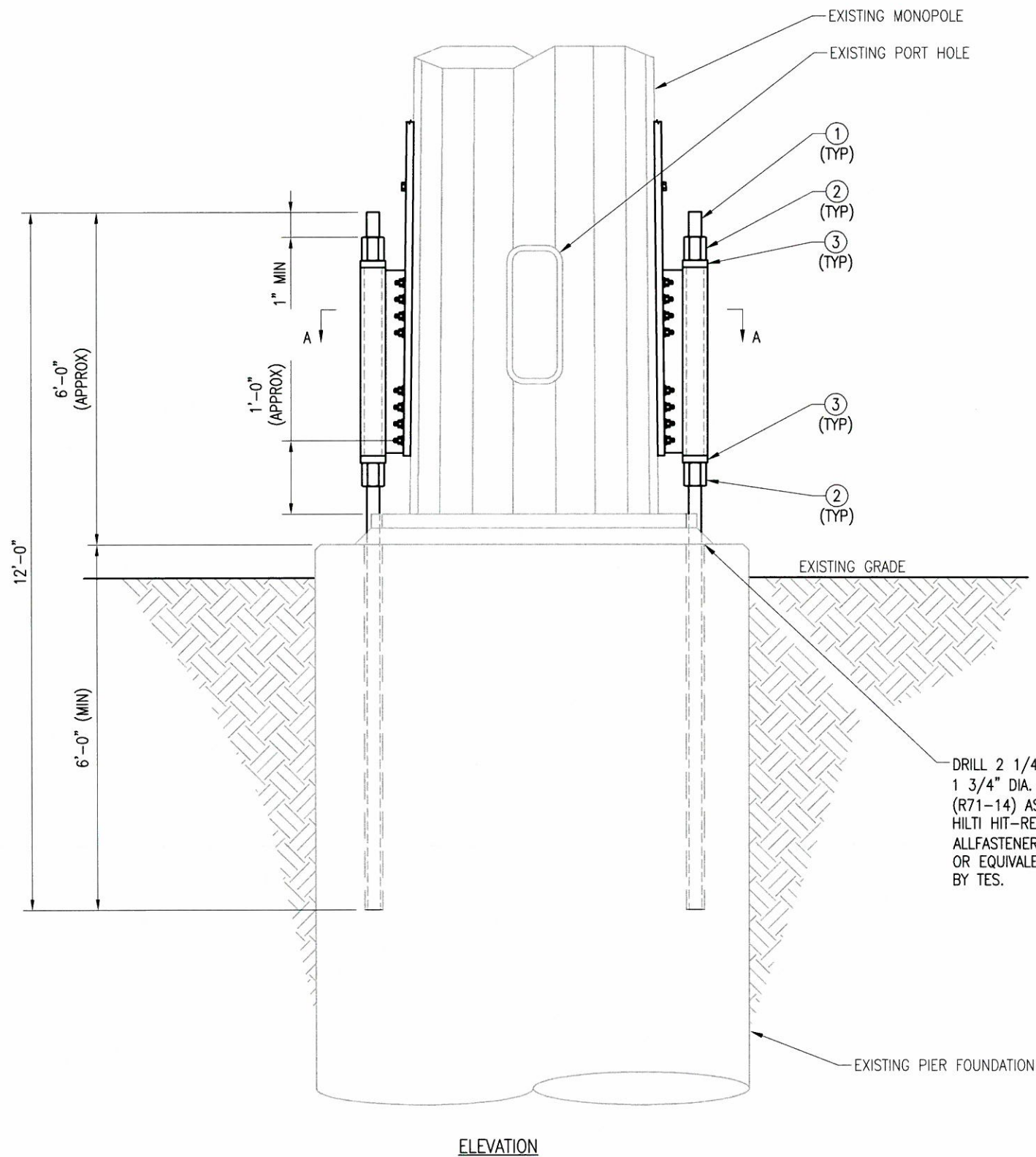
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TOWER PROFILE

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SHEET NUMBER: A-1 REV #: 0

US PATENT 9,714,520 B1



SECTION "A-A"

DRILL 2 1/4" DIA. HOLE TO ACCOMMODATE 1 3/4" DIA. WILLIAMS ALL-THREAD ROD (R71-14) AS SHOWN. GROUT USING HILTI HIT-RE 500 V3 EPOXY OR ALLFASTENERS 12AF35LVE EPOXY (TYP) OR EQUIVALENT MATERIAL APPROVED BY TES.

INSTALLATION NOTES:

1. USE WELDED REINFORCEMENT BRACKET ASSEMBLY TO SET THE POSITION OF THE ALL-THREAD ROD.
2. DRILL NEW 2 1/4" DIA. HOLES INTO EXISTING FOUNDATION FOR ALL-THREAD ROD.
3. INSTALL REINFORCEMENT BRACKET AND CONFIRM FIT WITH MONOPOLE REINFORCEMENT PLATES.
4. TIGHTEN NUTS ON THE ALL-THREAD ROD LOCKING IT INTO POSITION.
5. APPLY (2) COATS OF ZINGA COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS TO ALL FIELD CUT AND EXPOSED AREAS.
6. DRILLING CONTRACTOR TO EXERCISE EXTREME CARE TO AVOID DAMAGING THE EXISTING REINFORCING TIES IN THE CONCRETE PIER. IF REBAR IS ENCOUNTERED IN THE CONCRETE WHILE DRILLING, CONTRACTOR TO STOP DRILLING AND INFORM TES FOR SOLUTION.
7. CONTRACTOR PLEASE NOTE-WHILE DRILLING PREPARE TO DRILL THROUGH ANCHOR BOLT TEMPLATE.
8. SEE SHEETS SPEC-1 & 2 FOR NEXGEN2 BLIND BOLT INSTALLATION. IT IS REQUIRED THAT THE CONTRACTOR TAKE PHOTOS OF THE INSTALLED BOLT FOR VERIFICATION OF PROPER INSTALLATION.

NOTE:
SEE NOTES ON SHEET GN-1 FOR POST-INSTALLED EPOXY INJECTED ANCHOR BOLTS

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	4	R71-14	12'-0" WILLIAMS 1 3/4" DIA. ALL-THREAD ROD (150 KSI)
2	8	R73-14	1 3/4" NUT (WILLIAMS R73-14) (TYP)
3	8	PLW-2	PL 1 1/4" X 3 1/2" FLAT WASHER, A572-65



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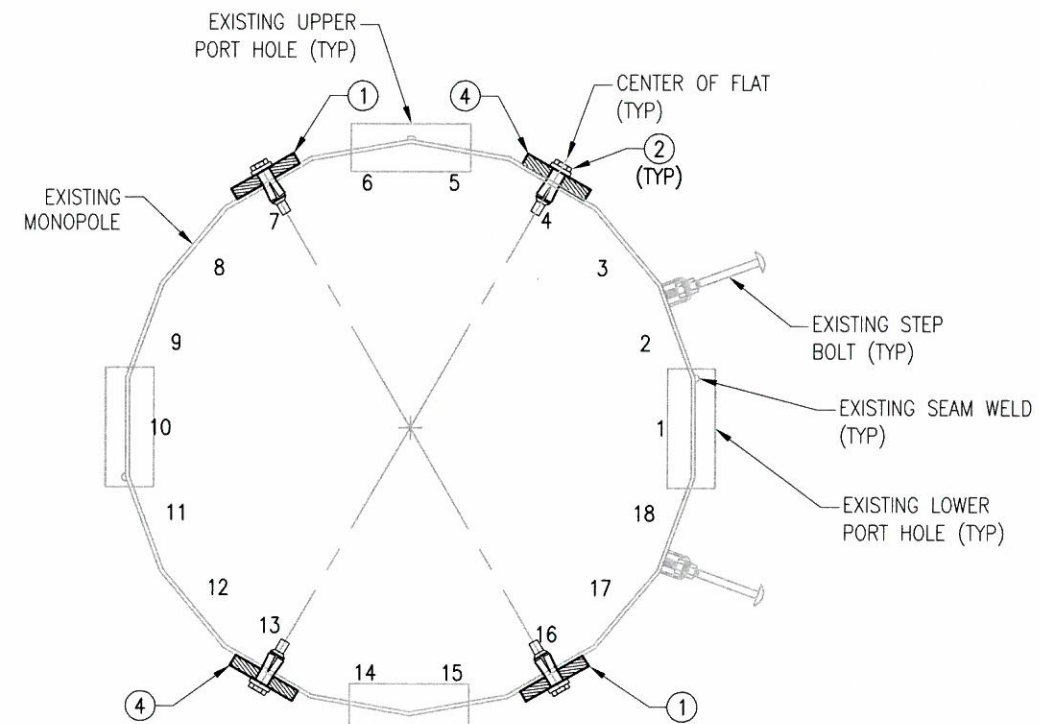
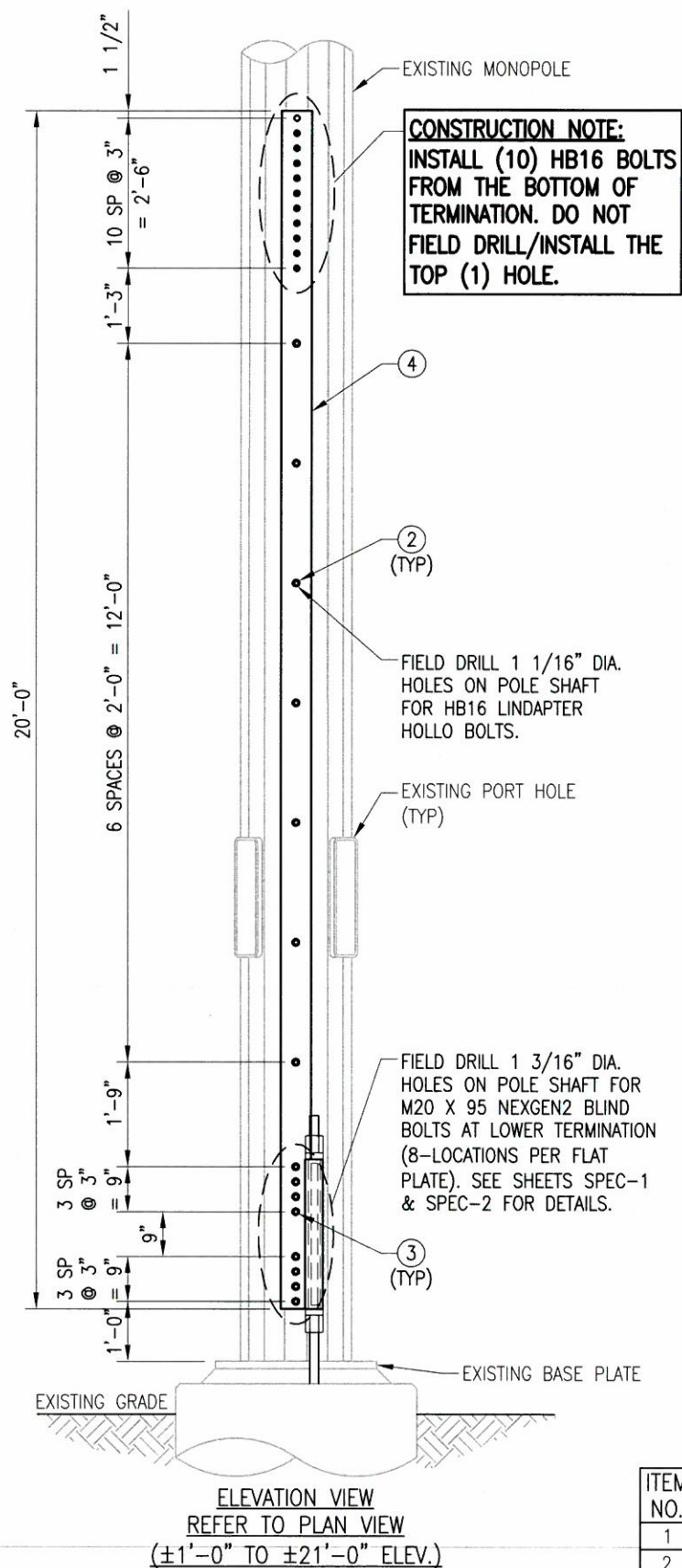
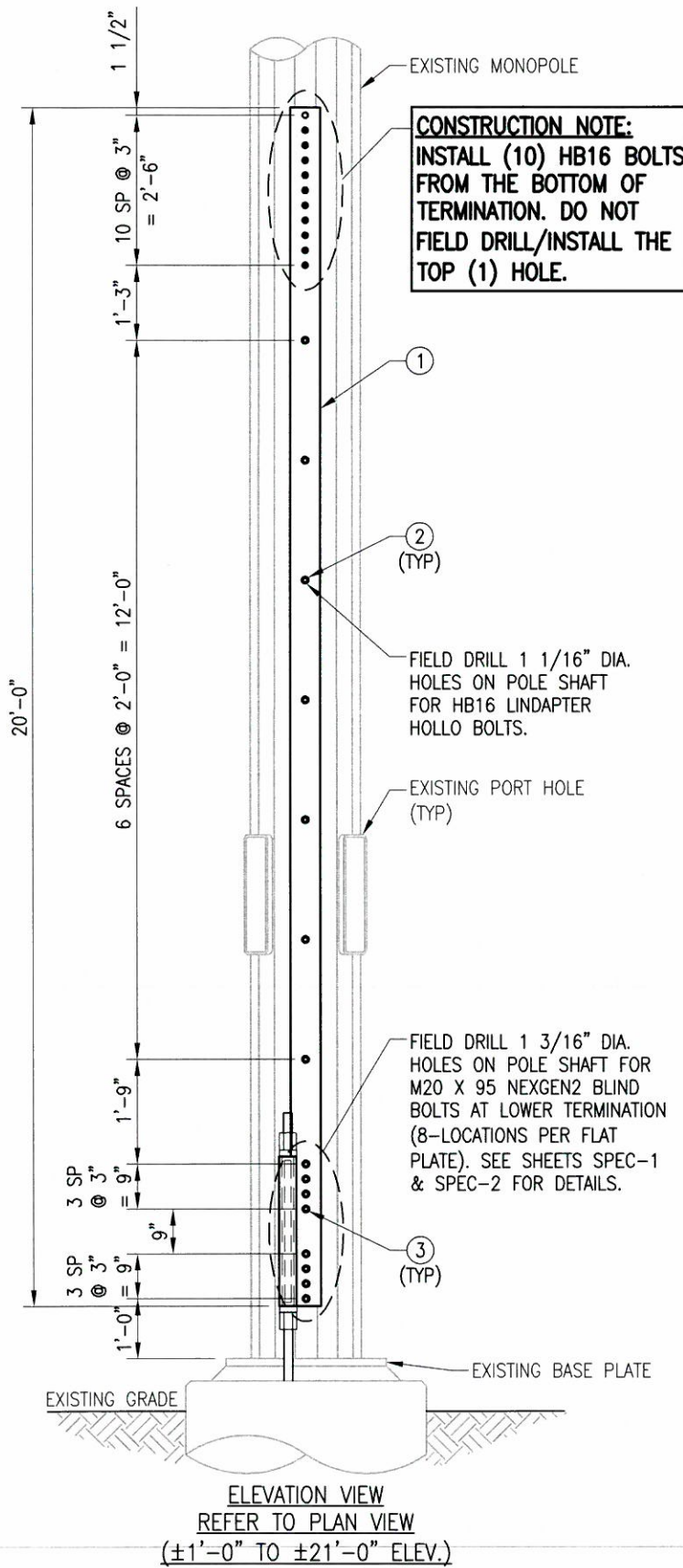
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SHEET TITLE:
INSTALLATION OF NEW ANCHOR ROD DETAILS

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SHEET NUMBER: **A-2** REV #: **0**

US PATENT 9,714,520 B1



- NOTES:**
1. REFER TO SHEET A-2 FOR FLAT BAR ORIENTATION.
 2. INSTALLATION TORQUE FOR HOLLO/AJAX-BOLTS: SEE SHEET GN-1
 3. APPLY (2) COATS OF ZINGA COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS TO ALL FIELD DRILLED AND EXPOSED AREAS.

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	LP6X100-BL4.0-20T	PL 6" X 1" X 20'-0" A572-65 WELDMENT
2	68	HB16-2	LINDAPTER 5/8" TYPE HB HOLLO-BOLT (HCF)
3	32	2NG2036	M20 X 95 NEXGEN2 BLIND BOLT ASSEMBLY
4	2	LP6X100-BR4.0-20T	PL 6" X 1" X 20'-0" A572-65 WELDMENT



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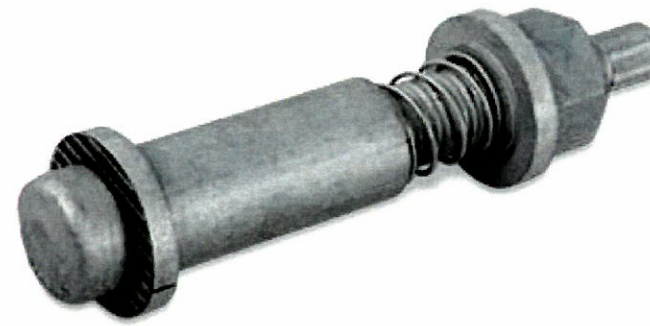
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SHEET TITLE:

REINFORCEMENT ASSEMBLY

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SHEET NUMBER: **A-3** REV #: **0**



NEXGEN2

BLIND BOLT ASSEMBLY

INSTALLATION GUIDE



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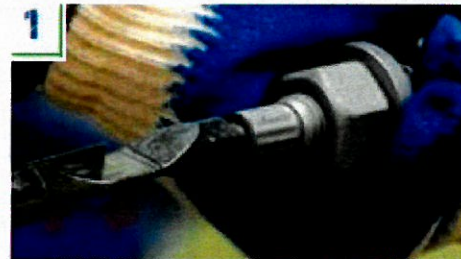


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PRE-INSTALL BOLT ON INSTALL TOOL:



1 Thread the installation tool tip into the splined end of the bolt.

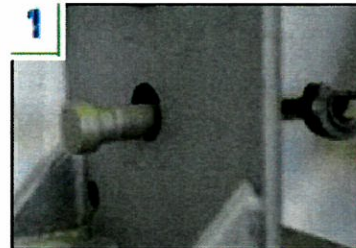


2 Remove the nut, the face washer and the spring shear sleeve and slide along the handle of the tool.



3 Move the collapsible washer to the correct location on the tool and fold in place.

INSTALLATION:



1 Install the bolt into the hole followed by the collapsible washer.



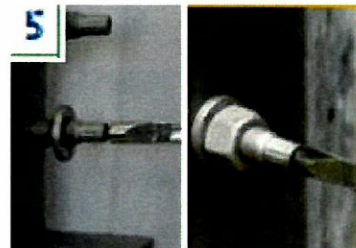
2 Rotate the tool 180°.



3 Pulling back, rock the tool side-to-side to engage the collapsible washer.



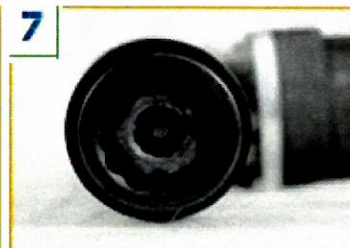
4 Engage the spring shear sleeve into the shear plane.



5 Slide the face washer forward and move the nut up to fasten to the bolt. Tighten the nut snug tight at this point.



6 Remove the tool by unscrewing it from bolt (counterclockwise).



7 Using the shear wrench engage the outer socket with the splined end of the bolt. Press the trigger until correct tension has been achieved (the bolt spline separates from the bolt).



8 Press the small trigger on the shear wrench to eject the bolt spline. The application is now complete.

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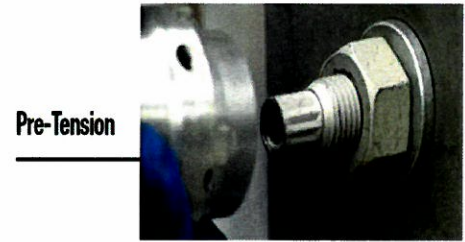
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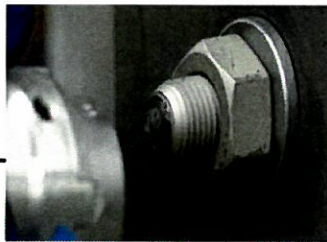
SHEET TITLE:
 NEXGEN2 BLIND BOLT
 ASSEMBLY INSTALLATION
 GUIDE

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SHEET NUMBER: SPEC-1 REV #: 0

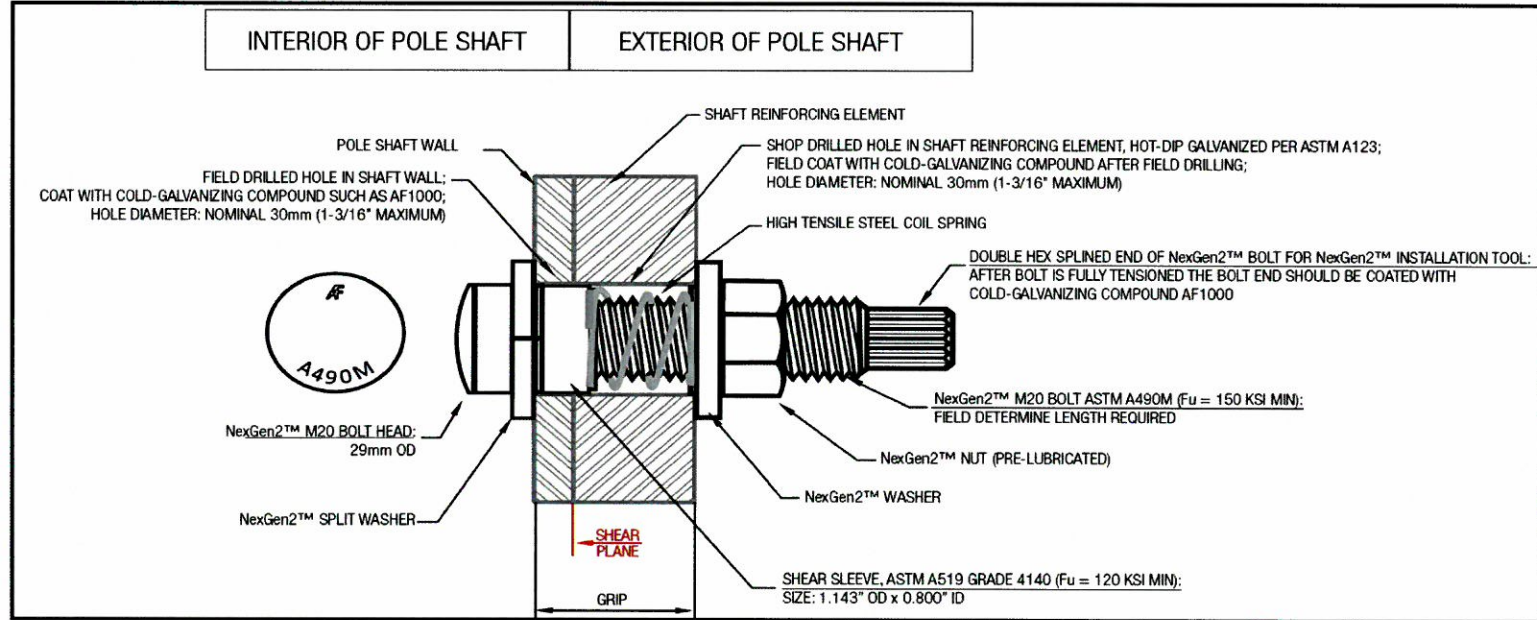


Pre-Tension

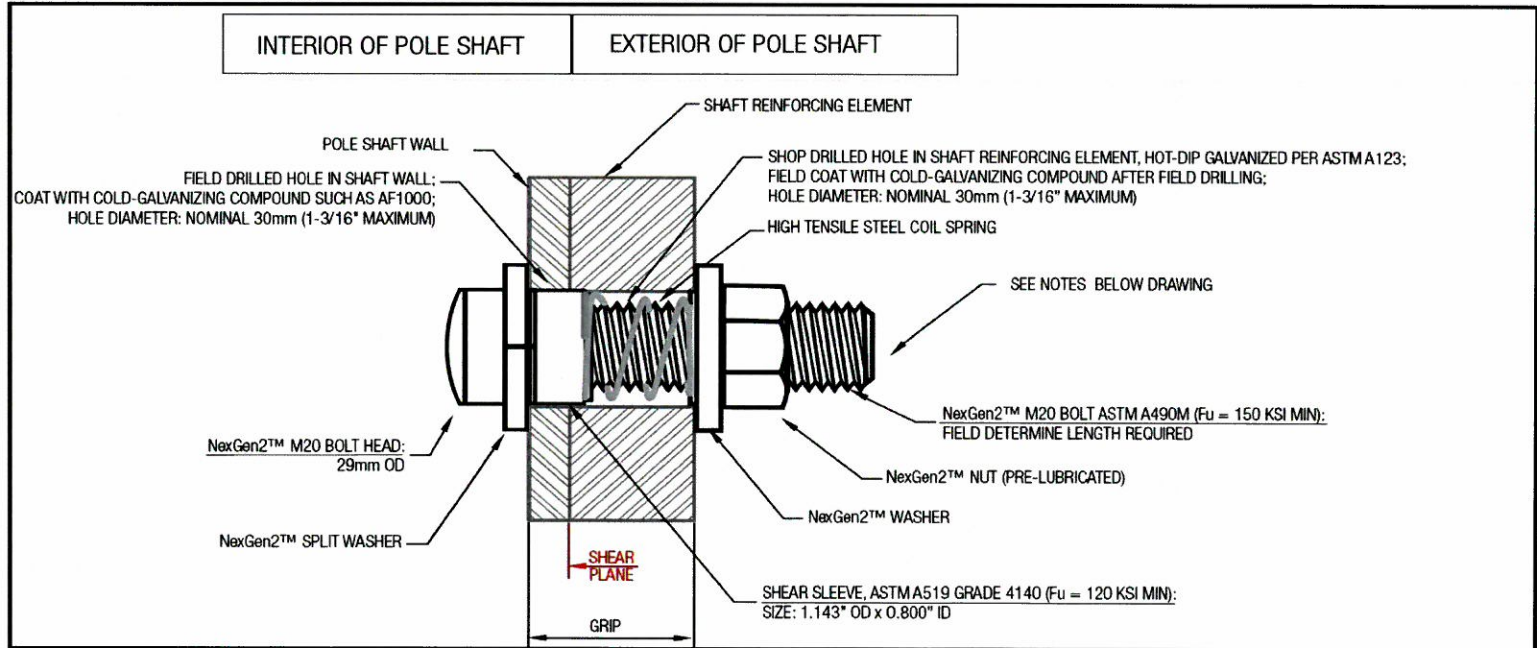


Post-Tension

TYPICAL NG2™ BOLT DETAIL: PRE-TENSION



TYPICAL NG2™ BOLT DETAIL: POST-TENSION



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SHEET NUMBER:	REV #:
SPEC-2	0

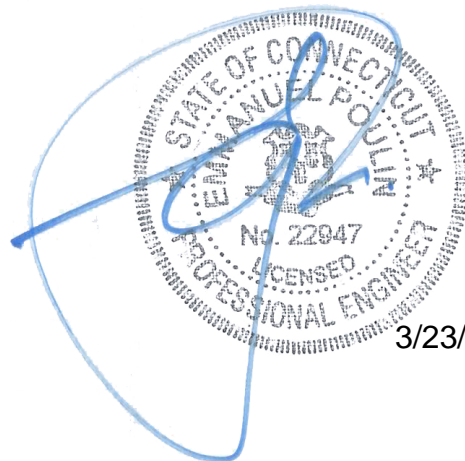
INFINIGY

MOUNT ANALYSIS REPORT

March 22, 2022

Site Name	New Britain Farmington Ave.
FA Site Number	10065751
Infigny Job Number	1106-A0001-B
Client	Smartlink
Carrier	AT&T Mobility
Site Location	723 Farmington Avenue New Britain, CT 06503 Hartford County 41° 41' 53.97" N NAD83 72° 47' 10.3" W NAD83
Structure Type	Monopole Tower
Mount Type	Platform
Mount Elevation	98.0 ft
Structural Usage Ratio	73.8%
Overall Result	Pass

The enclosed mount structural analysis has been performed in accordance with the 2018 Connecticut Building Code based on an ultimate 3-second gust wind speed of 117 mph. The evaluation criteria and applicable codes are presented in the next section of this report.



3/23/22

CONTENTS

1. Introduction
2. Design/Analysis Parameters
3. Proposed Loading Configuration
4. Supporting Documentation
5. Results
6. Recommendations
7. Assumptions
8. Liability Waiver and Limitations
9. Calculations

1. INTRODUCTION

Infinigy performed a structural analysis on the AT&T Mobility new telecommunication equipment supporting T-arms mounted to the existing tower located at the aforementioned address. All referenced supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using Risa-3D version 17.0.4 analysis software.

2. DESIGN/ANALYSIS PARAMETERS

Wind Speed	117 mph (3-Second Gust)
Ice Wind Speed	50 mph (3-Second Gust) , 1.50 in
Code / Standard	TIA-222-H
Adopted Code	2018 Connecticut Building Code
Risk Category	II
Exposure Category	B
Topographic Category	1
Seismic Spectral Response	$S_s = 0.192 \text{ g} / S_1 = 0.055 \text{ g}$
Live Load Wind Speed	30 mph
Man Live Load at Mid/End Points	500 lbs

3. PROPOSED LOADING CONFIGURATION - 98.0 ft. AGL pipe Mounts

Centerline (ft)	Qty.	Appurtenance Manufacturers	Appurtenance Models
98.0	3	ERICSSON	AIR6449 N77D
	3	ERICSSON	AIR6419 N77G
	3	CCI	DMP65R-BU6DA
	3	CCI	TPA-65R-BU6DA-K
	3	ERICSSON	RADIO 8843 B2/B66A
	3	ERICSSON	RRUS 4478 B14
	3	ERICSSON	RRUS 4449 B5/B12
	3	ERICSSON	RRUS-32 B30
	3	RAYCAP	DC6-48-60-18-8F

4. SUPPORTING DOCUMENTATION

Construction Drawings	Infinigy Engineering, LPP, Name: New Britain Farmington Ave. 10065751, November 24, 2021
Assembly Drawings	Site Pro I, Part Number: F3P-12-WLL, CONMAT No. ANT.46122 AT&T Approved T-Arm Mounts
Proposed Loading	RFDS Name: CTL01028, RFDS ID: 4387662, Last Date Updated: March 25, 2022, V3.00

5. RESULTS

Components	Capacity	Pass/Fail
Mount Pipes	31.6 %	Pass
Horizontal Pipes	30.2%	Pass
Walking Platform	73.8%	Pass
Bracings	69.7 %	Pass
Mount connection	19.8 %	Pass
MOUNT RATING =	73.8%	Pass

Notes:

1. See additional documentation in Appendix for calculations supporting the capacity consumed and detailed mount connection calculations.

6. RECOMMENDATIONS

Infinigy recommends installing AT&T Mobility's proposed equipment loading configuration on the new T-arm mount at 98.0 ft. The installation shall be performed in accordance with the construction documents issued for this site.

If you have any questions, require additional information, or believe the actual conditions differ from those detailed in this report, please contact us immediately.

Abram Tadrous
Project Engineer I | **INFINIGY**

7. ASSUMPTIONS

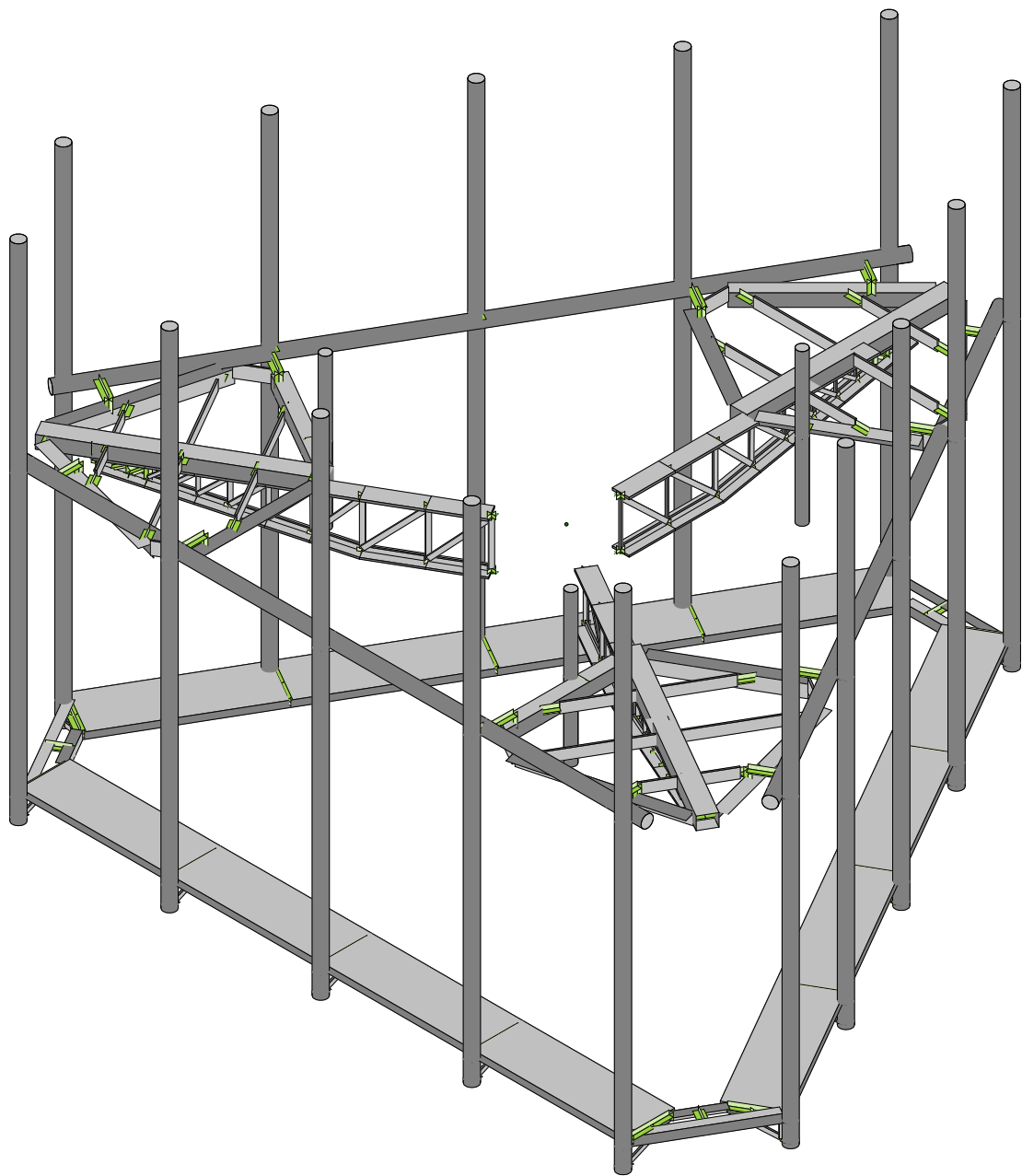
The antenna mounting system was properly fabricated, installed and maintained in accordance with its original design and manufacturer's specifications.	
The configuration of antennas, mounts, and other appurtenances are as specified in the proposed loading configuration table.	
All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.	
The analysis will require revisions if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.	
Steel grades have been assumed as follows, unless noted otherwise:	
Channel, Solid Round, Angle, Plate	Q345 (GR 36)
HSS (Rectangular)	Q235-GB (GR 35)
HSS (Circular)	Q235-GB (GR 35)
Pipe	Q235-GB (GR 35)
Connection Bolts	ASTM A325
U-Bolts	ASTM A307
Threaded Rod	SAE J429 GRADE 2
All bolted connections are pretensioned in accordance with Table 8.2 of the RCSC 2014 Standard	

8. LIABILITY WAIVER AND LIMITATIONS

Our structural calculations are completed assuming all information provided to Infinigy is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition as erected and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure's condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report, Infinigy should be notified immediately to assess the impact on the results of this report.

Our evaluation is completed using industry standard methods and procedures. The structural results, conclusions and recommendations contained in this report are proprietary and should not be used by others as their own. Infinigy is not responsible for decisions made by others that are or are not based on the stated assumptions and conclusions in this report.

This report is an evaluation of the mount structure only and does not determine the adequacy of the supporting structure, other carrier mounts or cable mounting attachments. The analysis of these elements is outside the scope of this analysis, are assumed to be adequate for the purpose of this report and to have been installed per their manufacturer requirements. This document is not for construction purposes.



Infinigy Engineering

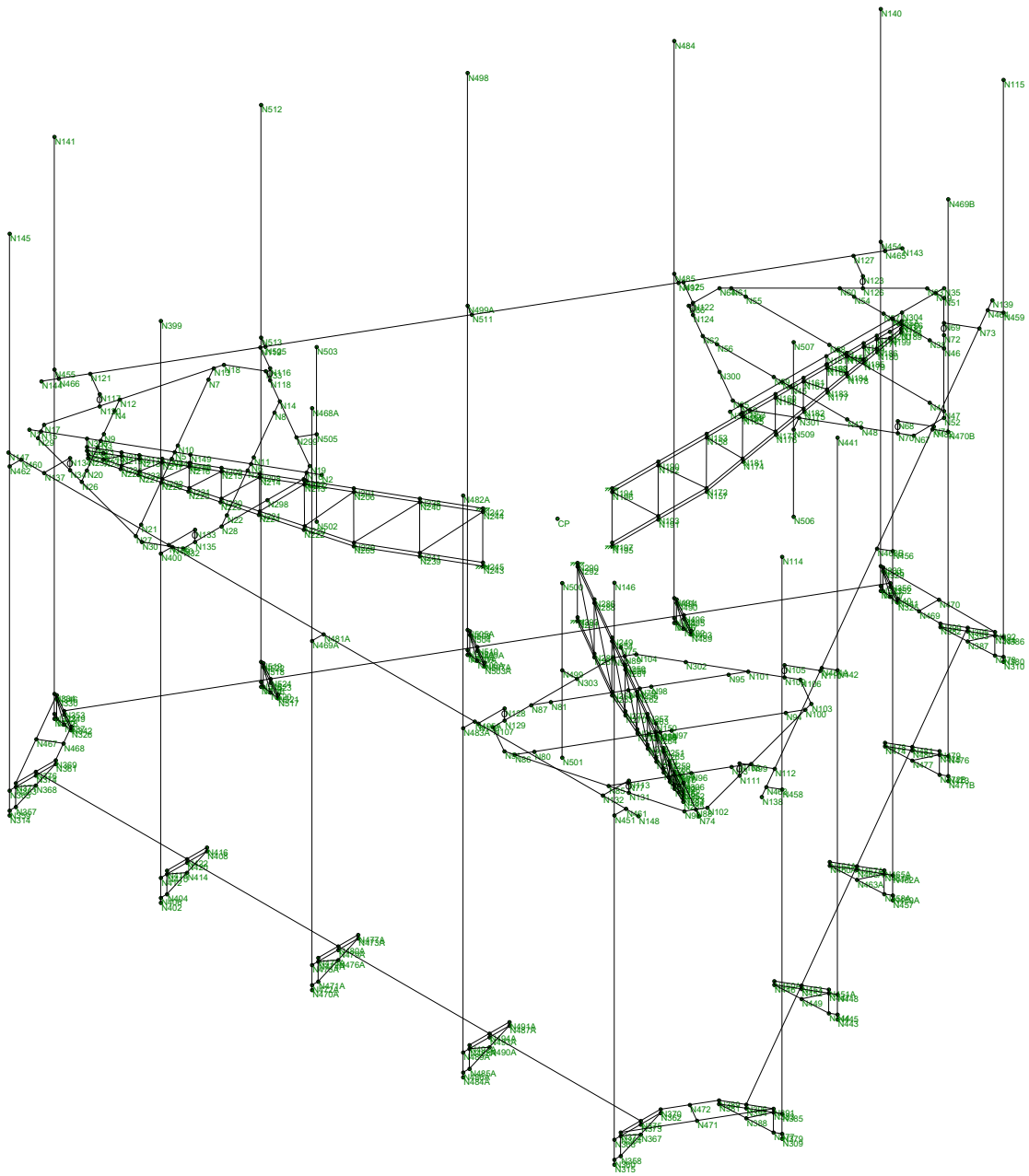
AT

CLT01028

Rendered

Mar 22, 2022 at 6:28 PM

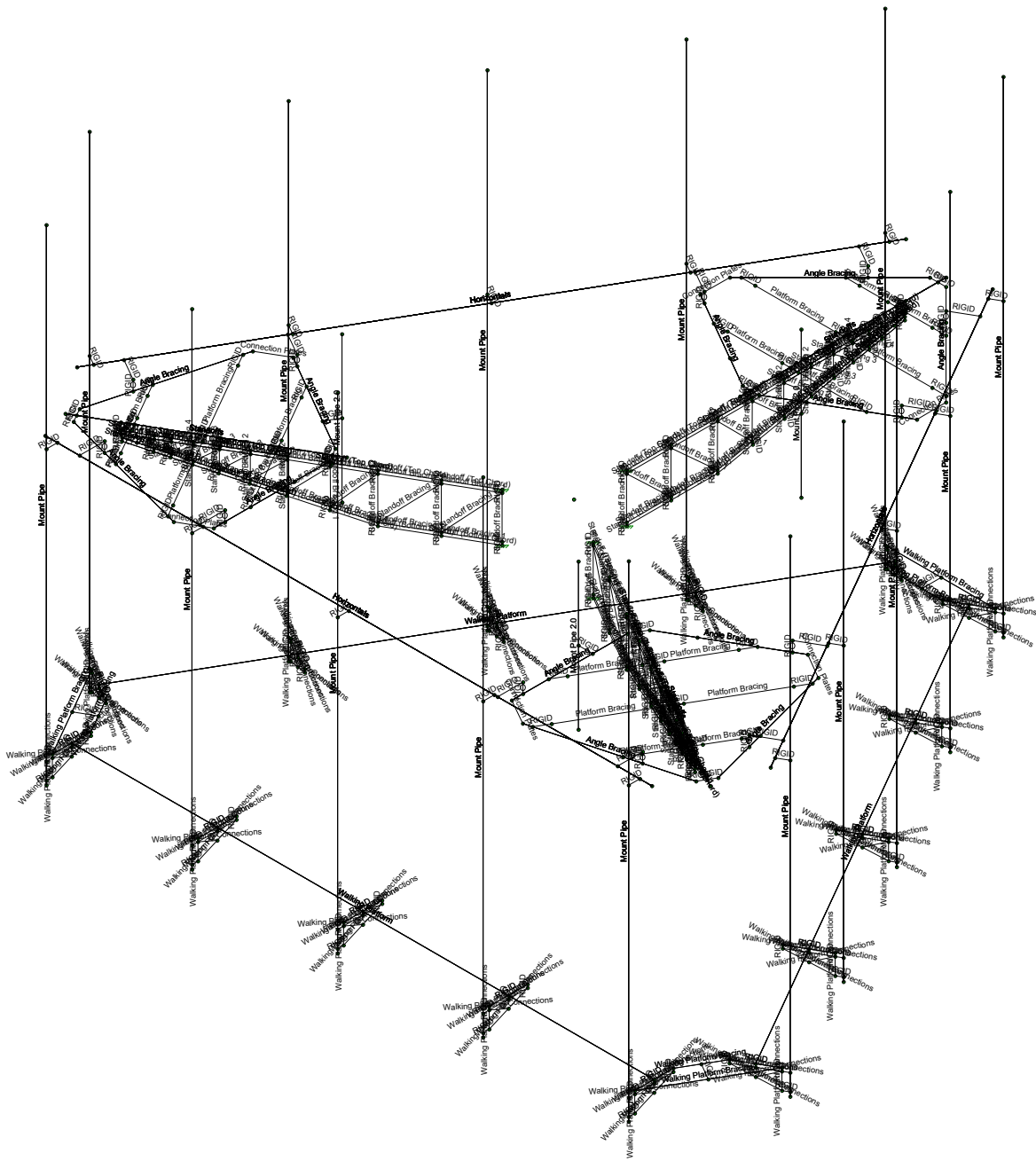
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Infinigy Engineering
AT

CLT01028

Wire Frame
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CLT01028_loaded_loaded.r3d



Infinigy Engineering

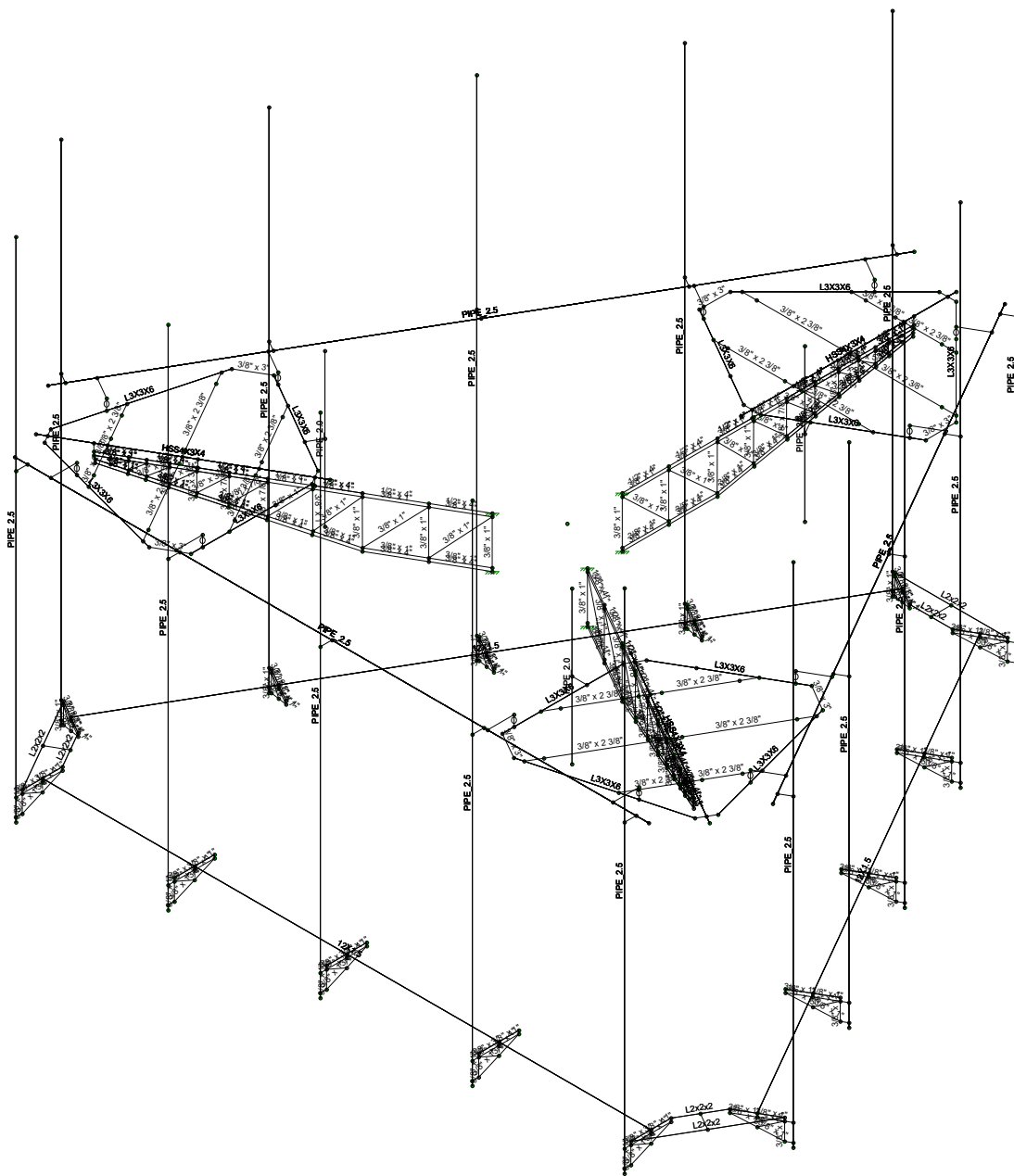
AT

CLT01028

Section Sets

Mar 22, 2022 at 6:29 PM

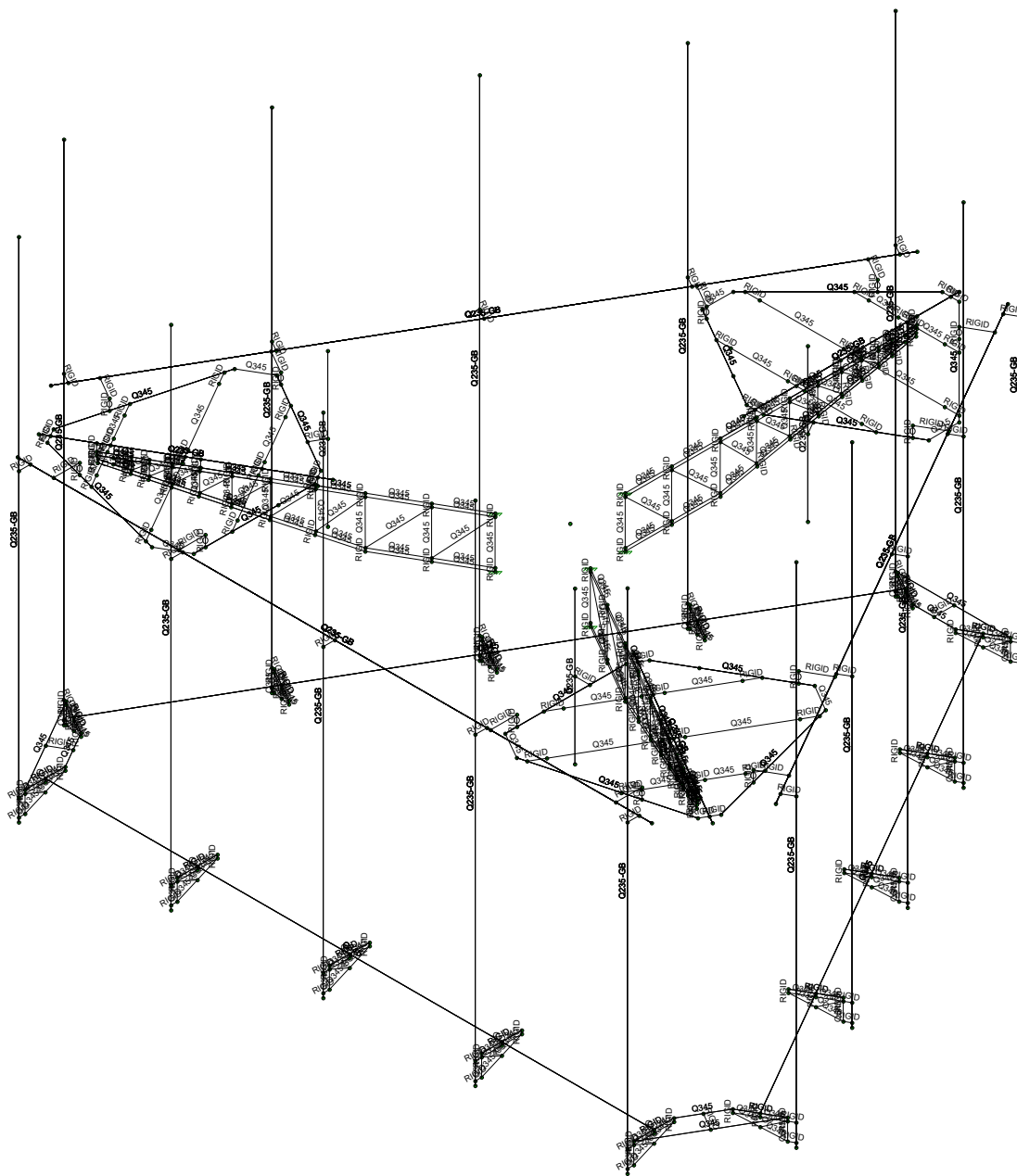
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Infinigy Engineering
AT

CLT01028

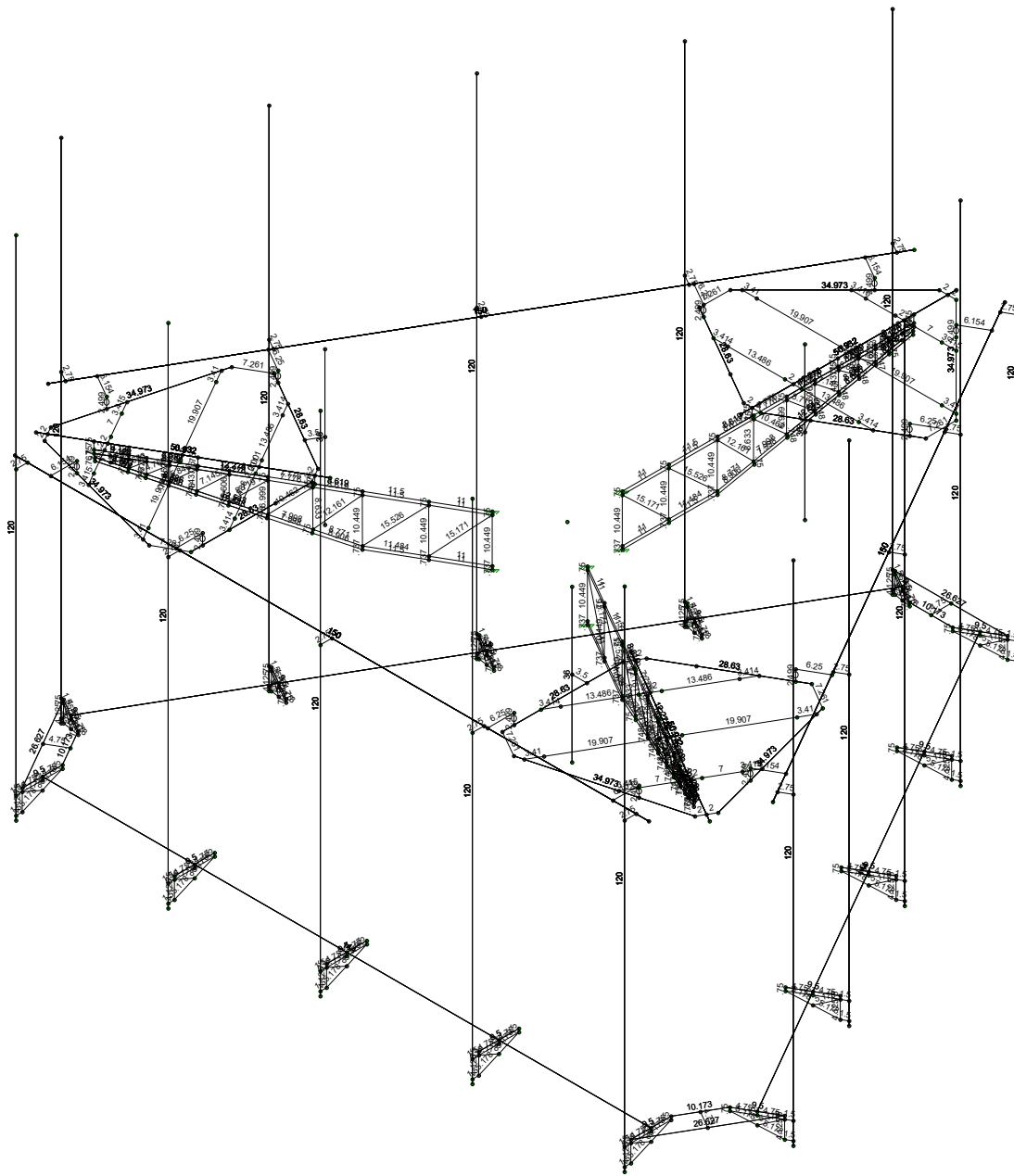
Member Shapes
Mar 22, 2022 at 6:28 PM
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Infinigy Engineering
AT

CLT01028

Grade
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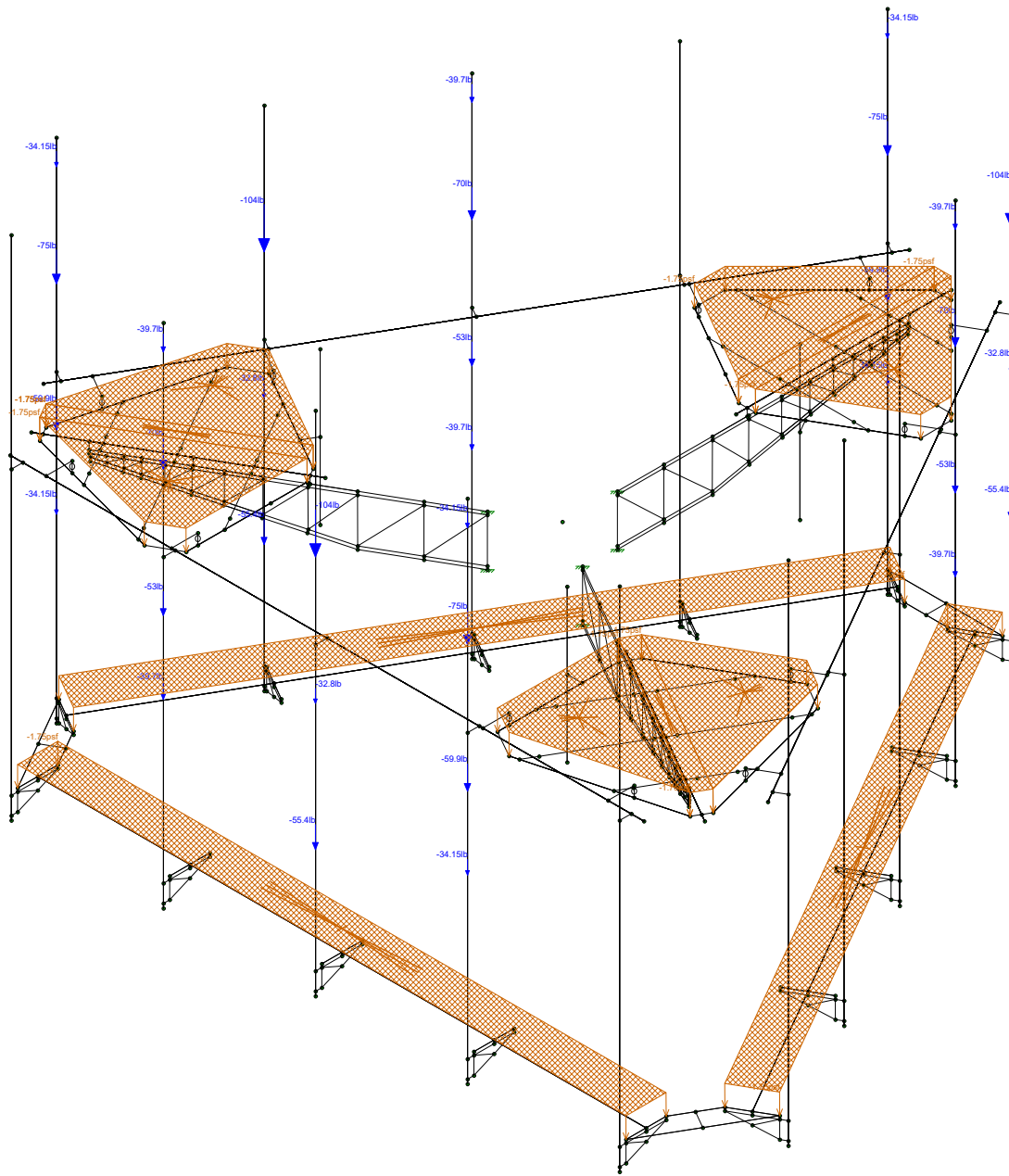


Member Length (in) Displayed

Infinigy Engineering
AT

CLT01028

Member Lengths
Mar 22, 2022 at 6:29 PM
CLT01028_loaded_loaded.r3d



Loads: BLC 1, Self Weight

Infinigy Engineering

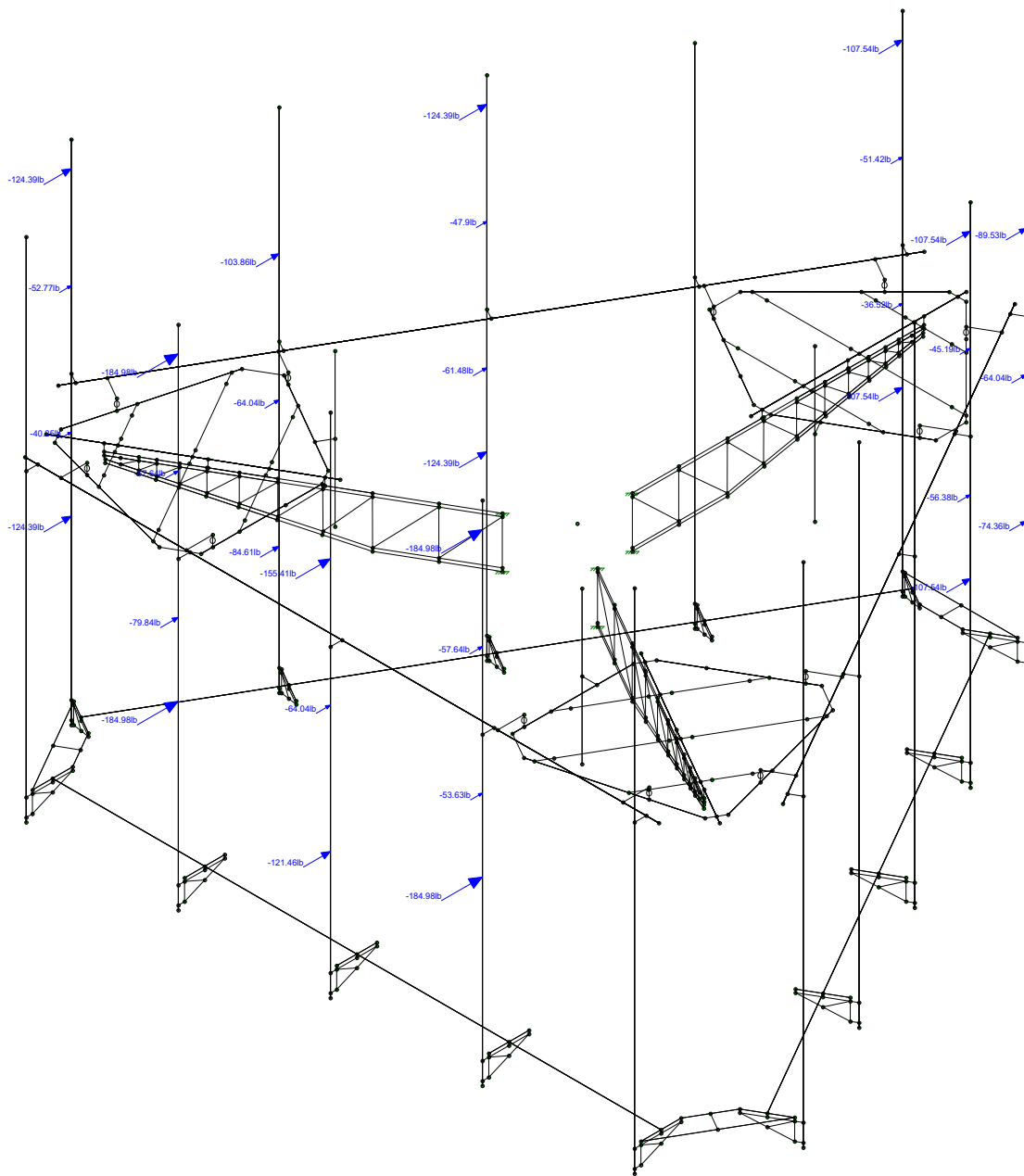
AT

CLT01028

Self Weight

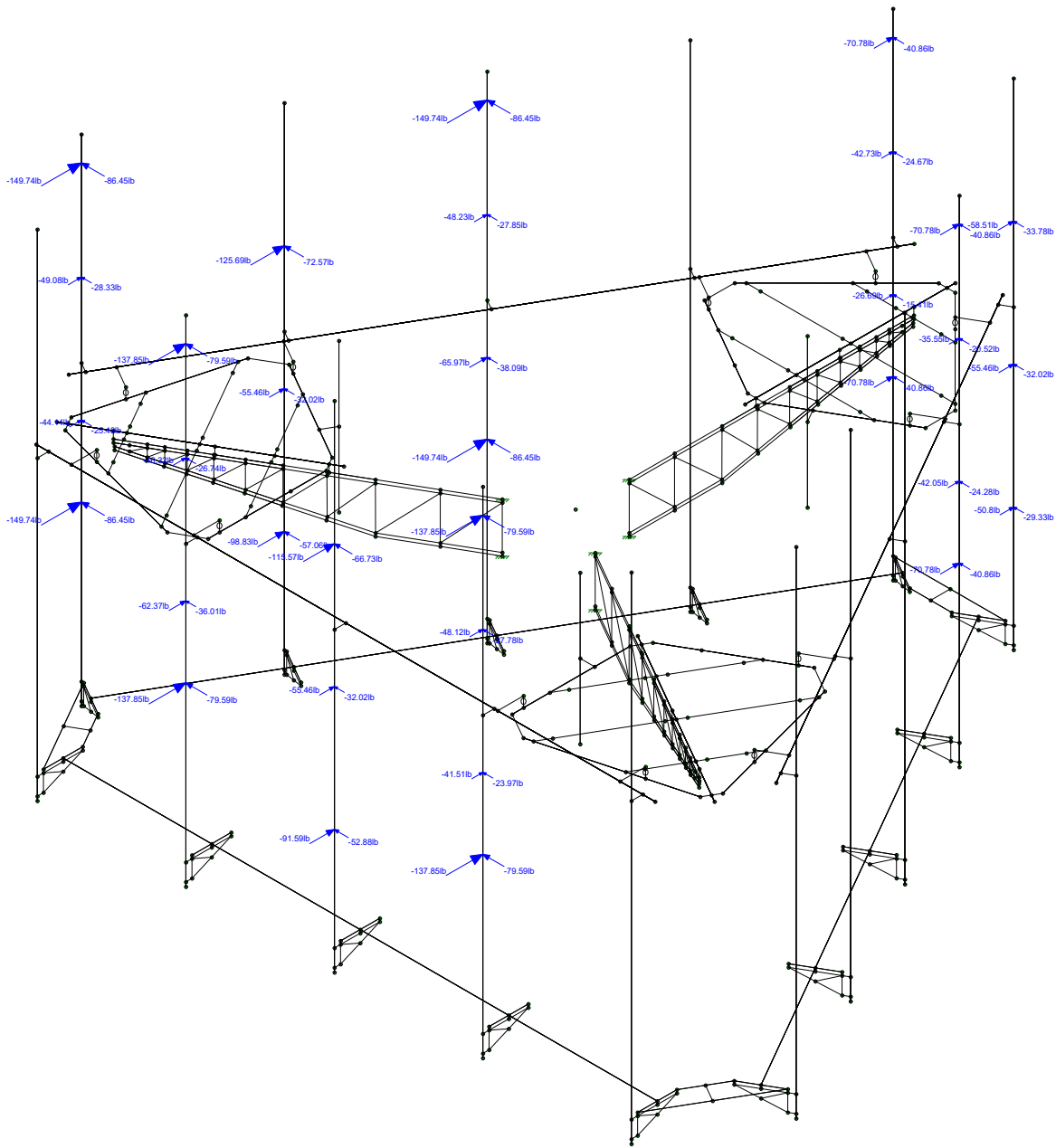
Mar 22, 2022 at 6:29 PM

CLT01028_loaded_loaded.r3d



Loads: BLC 2, Wind Load AZ1 0

Infinigy Engineering	CLT01028	Wind Loading 0
AT		Mar 22, 2022 at 6:30 PM
		CLT01028_loaded_loaded.r3d

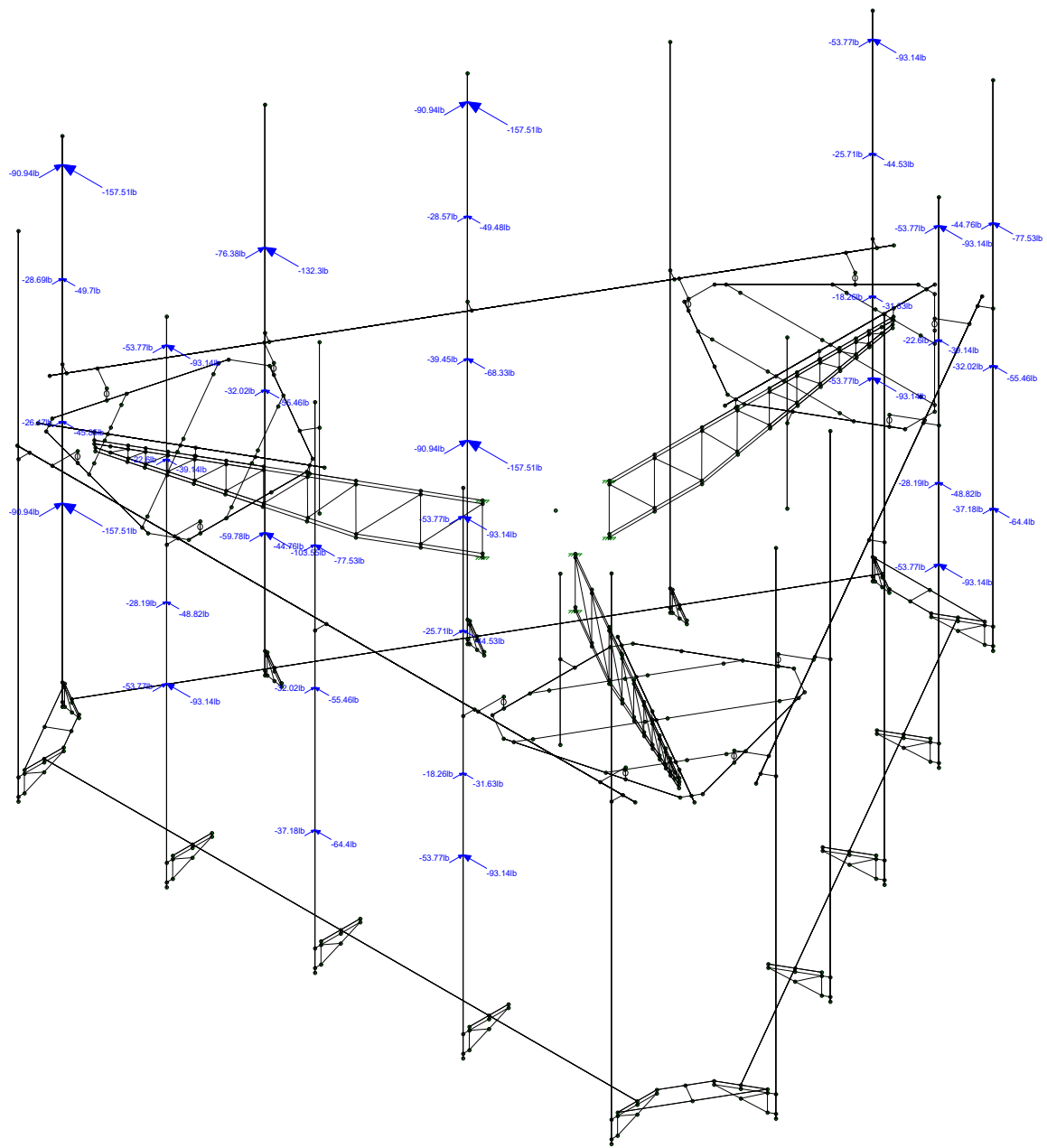


Loads: BLC 3, Wind Load AZI 30

Infinigy Engineering
AT

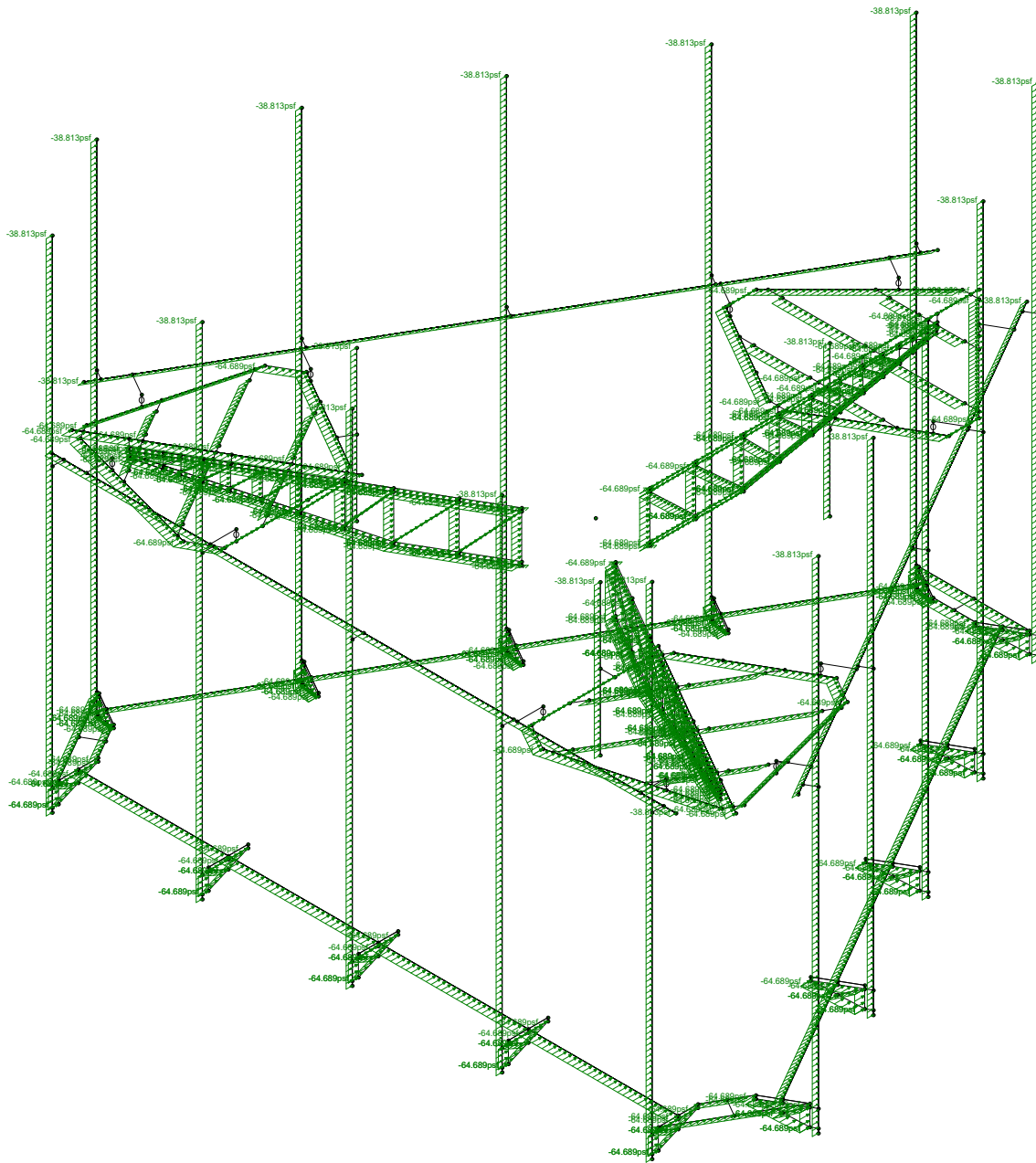
CLT01028

Wind Loading 30
Mar 22, 2022 at 6:30 PM
CLT01028_loaded_loaded.r3d



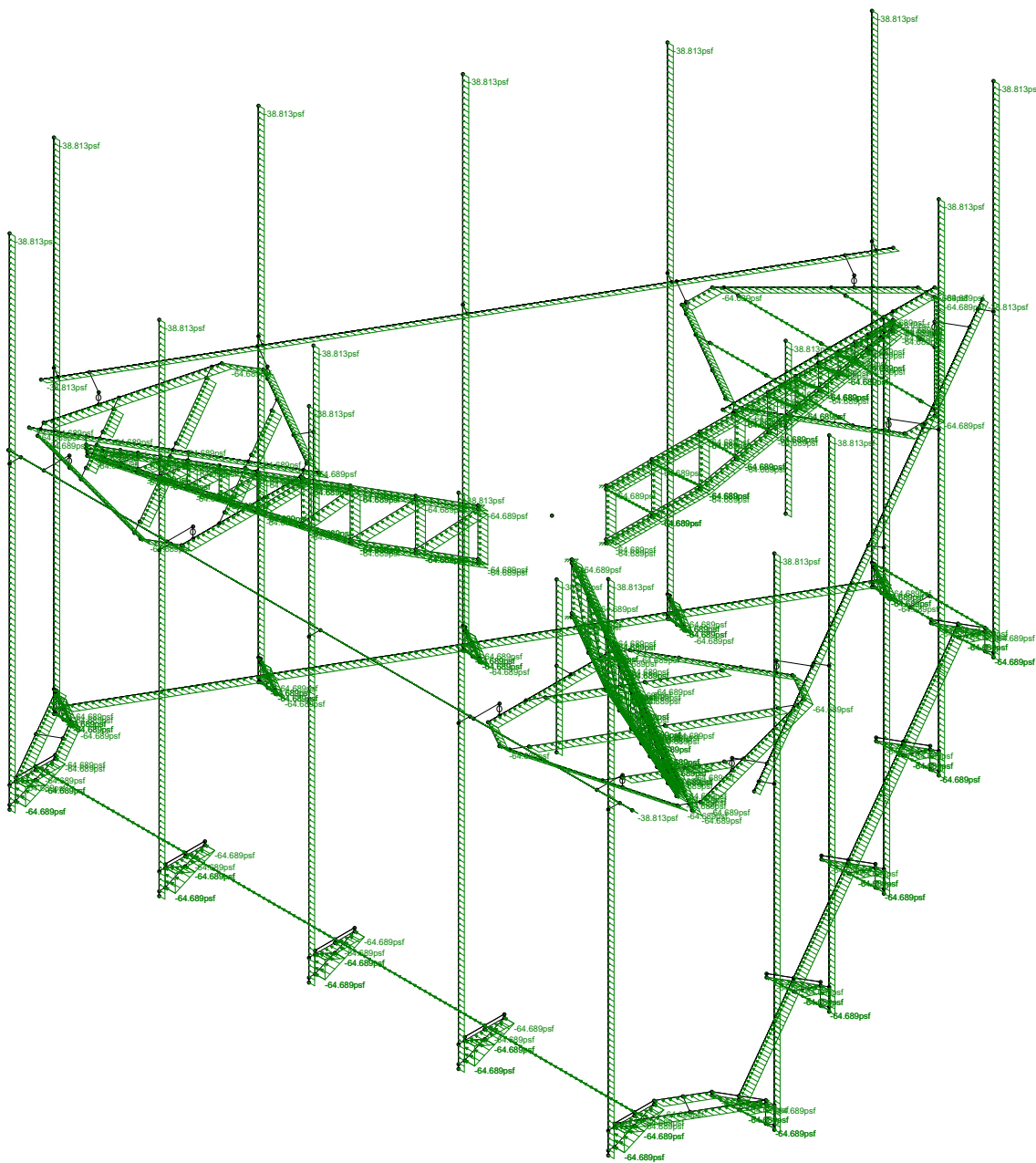
Loads: BLC 4, Wind Load AZI 60

Infinigy Engineering	CLT01028	Wind Loading 60
AT		Mar 22, 2022 at 6:30 PM
		CLT01028_loaded_loaded.r3d



Loads: BLC 14, Distr. Wind Load Z

Infinigy Engineering	CLT01028	Dist. Wind Loading 0
AT		Mar 22, 2022 at 6:31 PM
		CLT01028_loaded_loaded.r3d

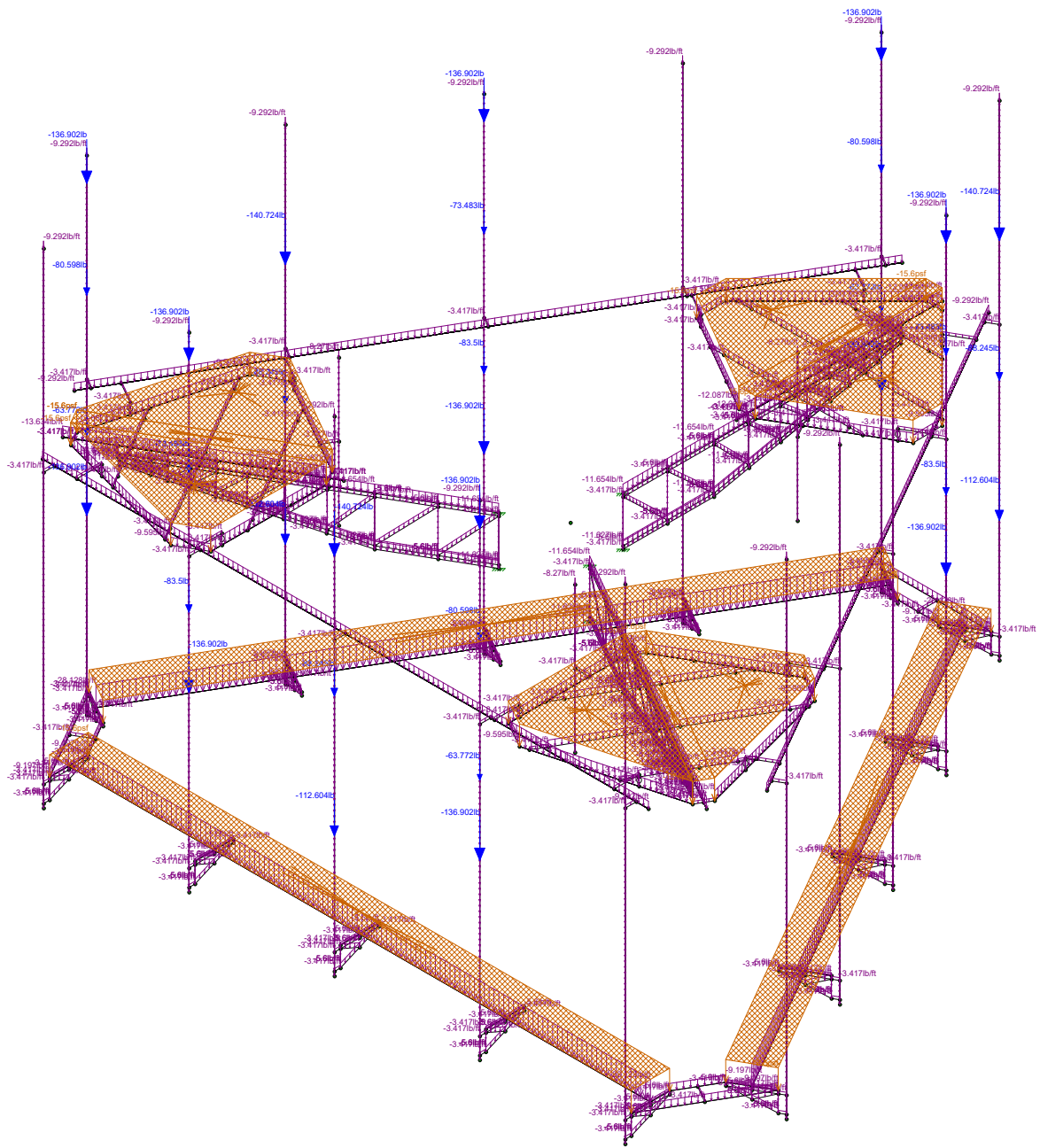


Loads: BLC 15, Distr. Wind Load X

Infinigy Engineering
AT

CLT01028

Dist. Wind Loading 90
Mar 22, 2022 at 6:31 PM
CLT01028_loaded_loaded.r3d



Loads: BLC 16, Ice Weight

Infinigy Engineering

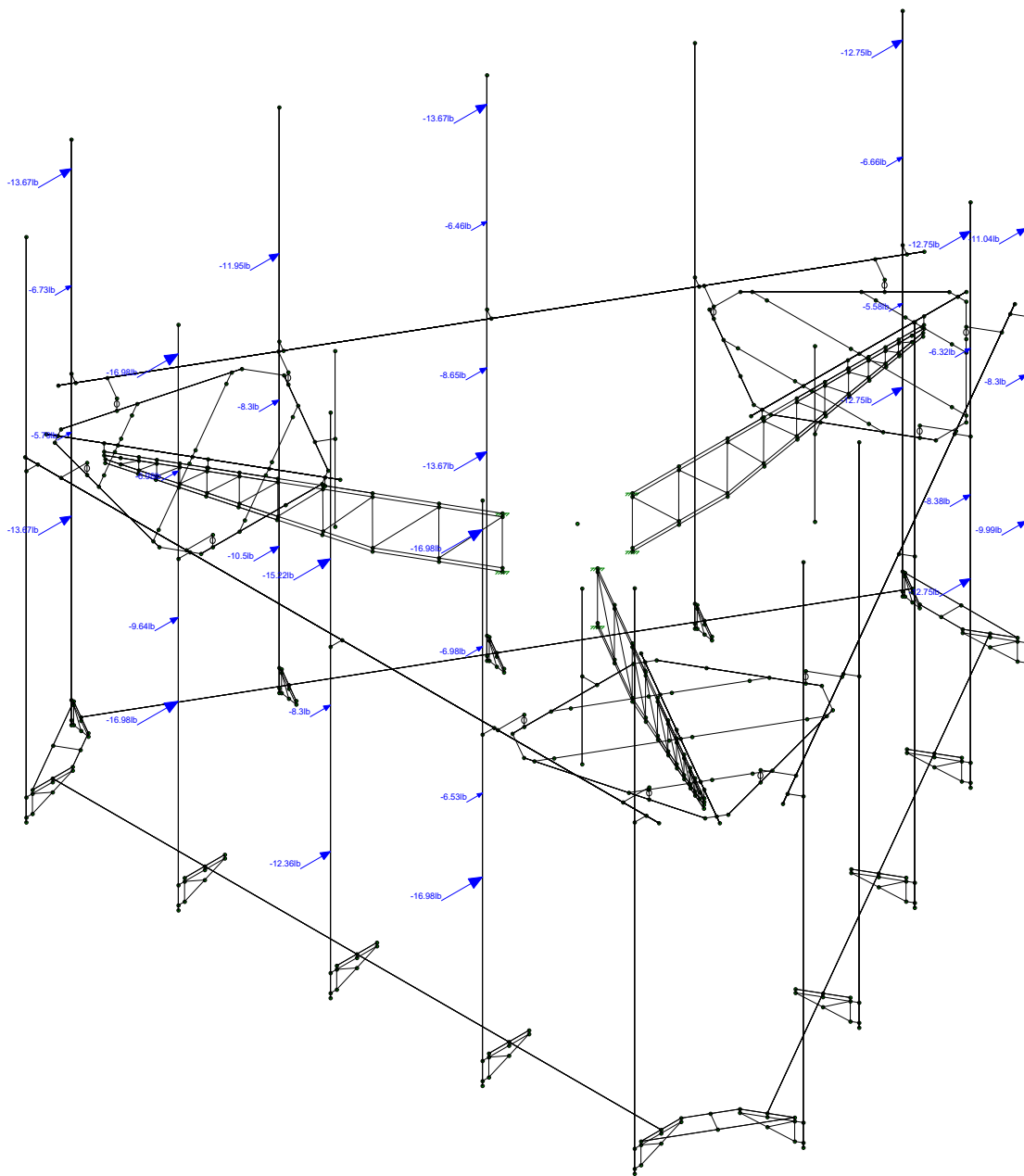
AT

CLT01028

Ice Weight

Mar 22, 2022 at 6:32 PM

CLT01028_loaded_loaded.r3d

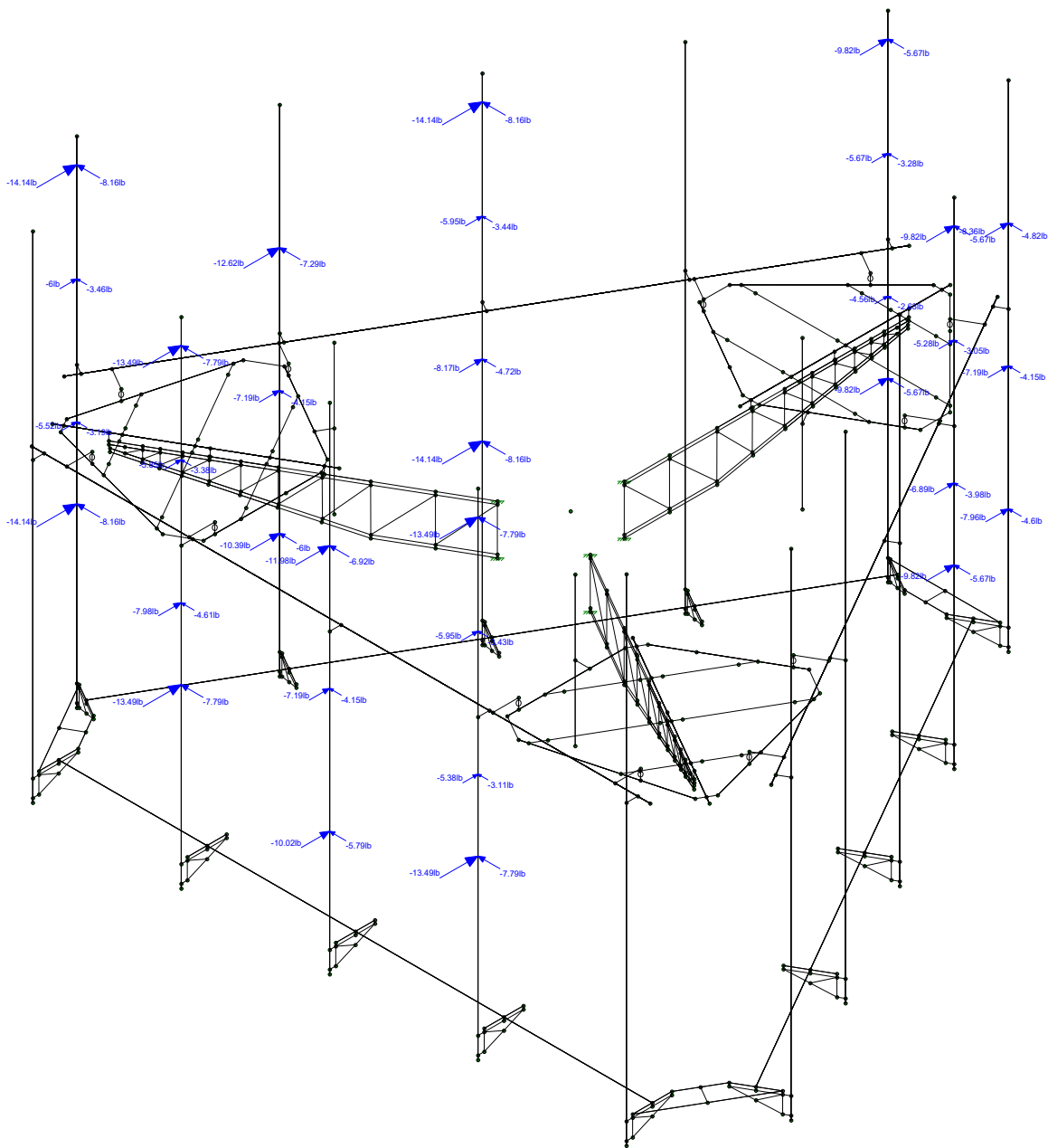


Loads: BLC 17, Ice Wind Load AZI 0

Infinigy Engineering
AT

CLT01028

Ice Wind Loading 0
Mar 22, 2022 at 6:32 PM
CLT01028_loaded_loaded.r3d

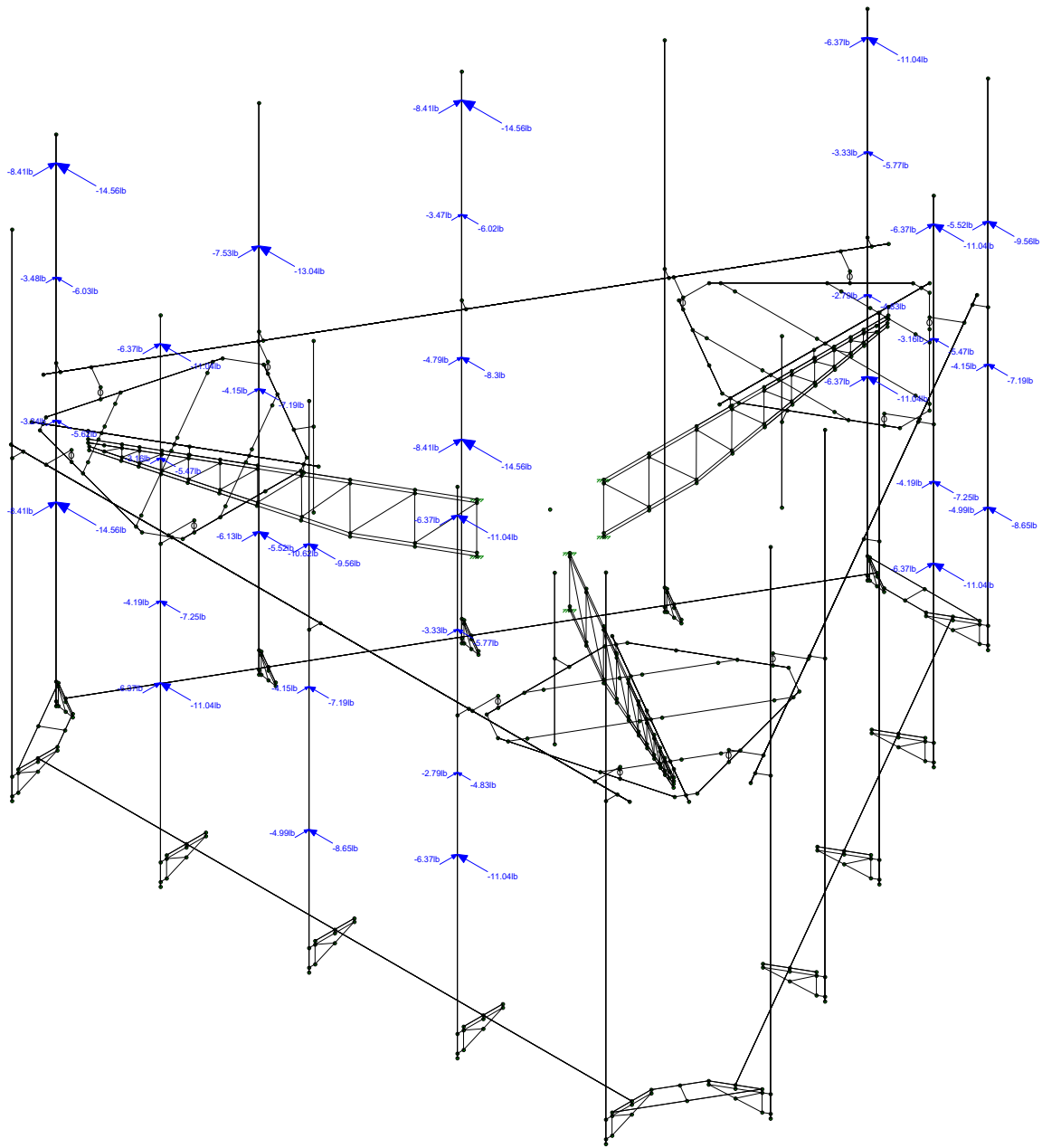


Loads: BLC 18, Ice Wind Load AZI 30

Infinigy Engineering
AT

CLT01028

Ice Wind Loading 30
Mar 22, 2022 at 6:32 PM
CLT01028_loaded_loaded.r3d

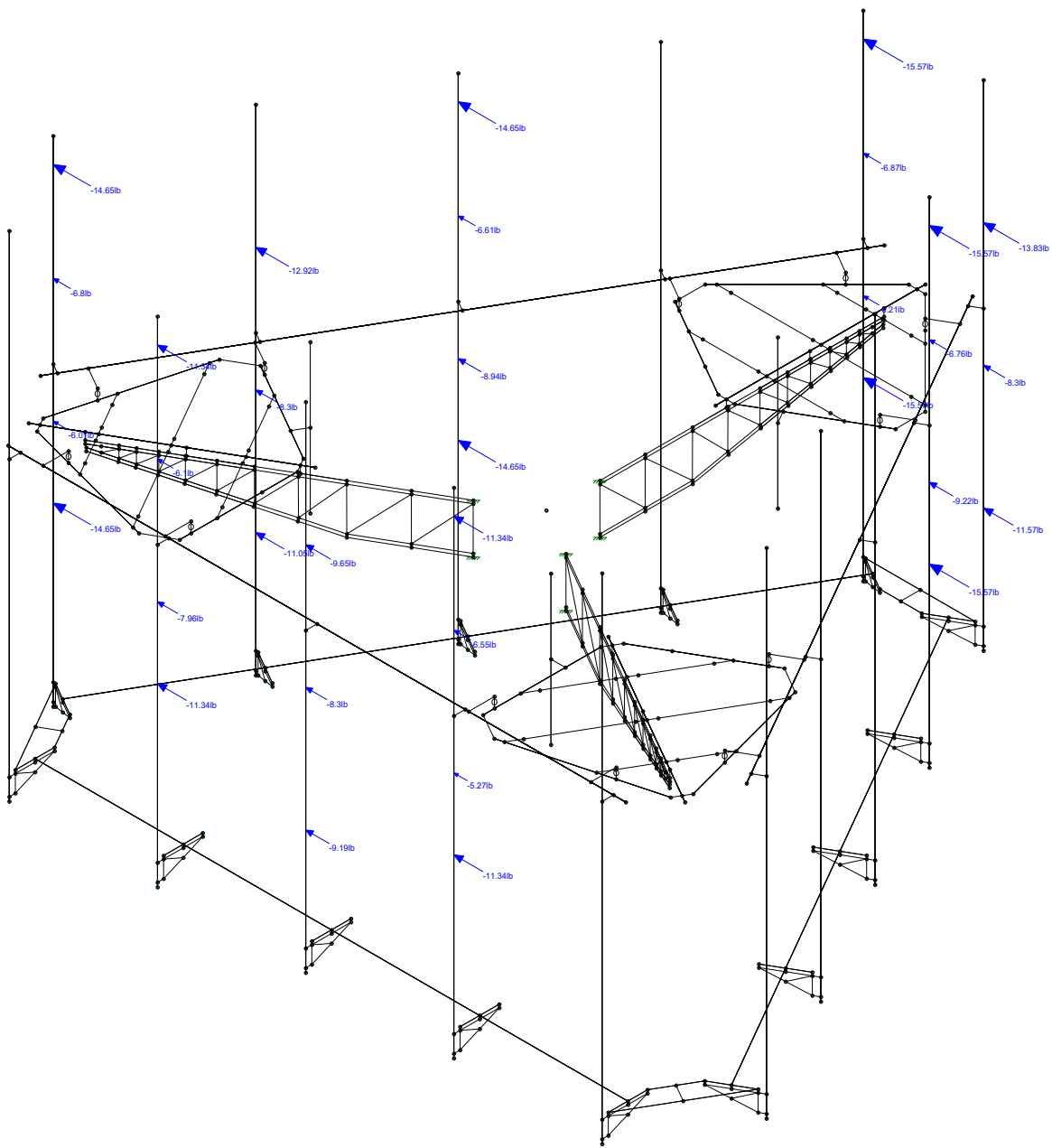


Loads: BLC 19, Ice Wind Load AZI 60

Infinigy Engineering
AT

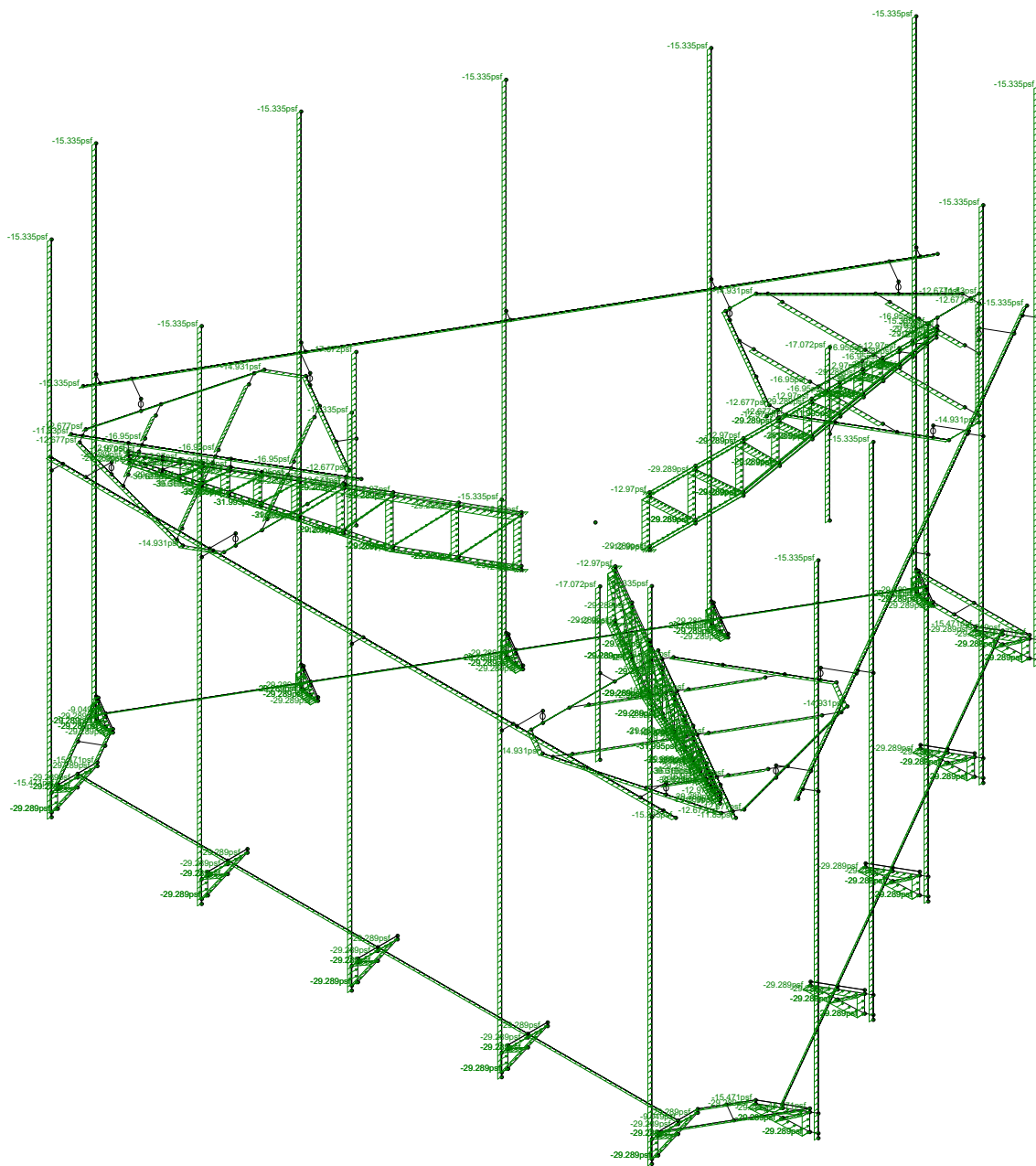
CLT01028

Ice Wind Loading 60
Mar 22, 2022 at 6:32 PM
CLT01028_loaded_loaded.r3d



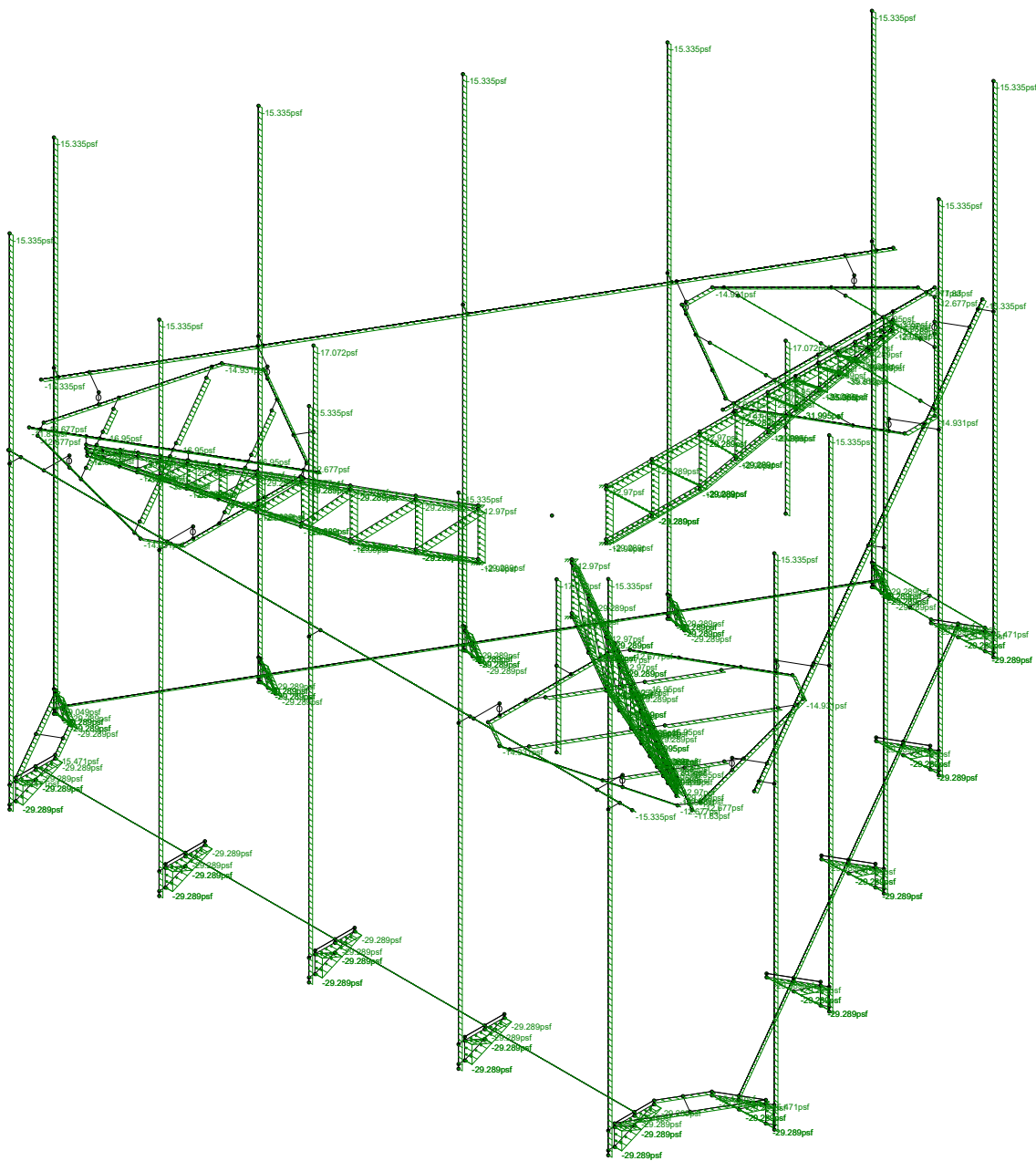
Loads: BLC 20, Ice Wind Load AZI 90

Infinigy Engineering	CLT01028	Ice Wind Loading 90
AT		Mar 22, 2022 at 6:33 PM
		CLT01028_loaded_loaded.r3d



Loads: BLC 29, Distr. Ice Wind Load Z

Infinigy Engineering	CLT01028	Dist. Ice Wind Loading 0
AT		Mar 22, 2022 at 6:33 PM
		CLT01028_loaded_loaded.r3d

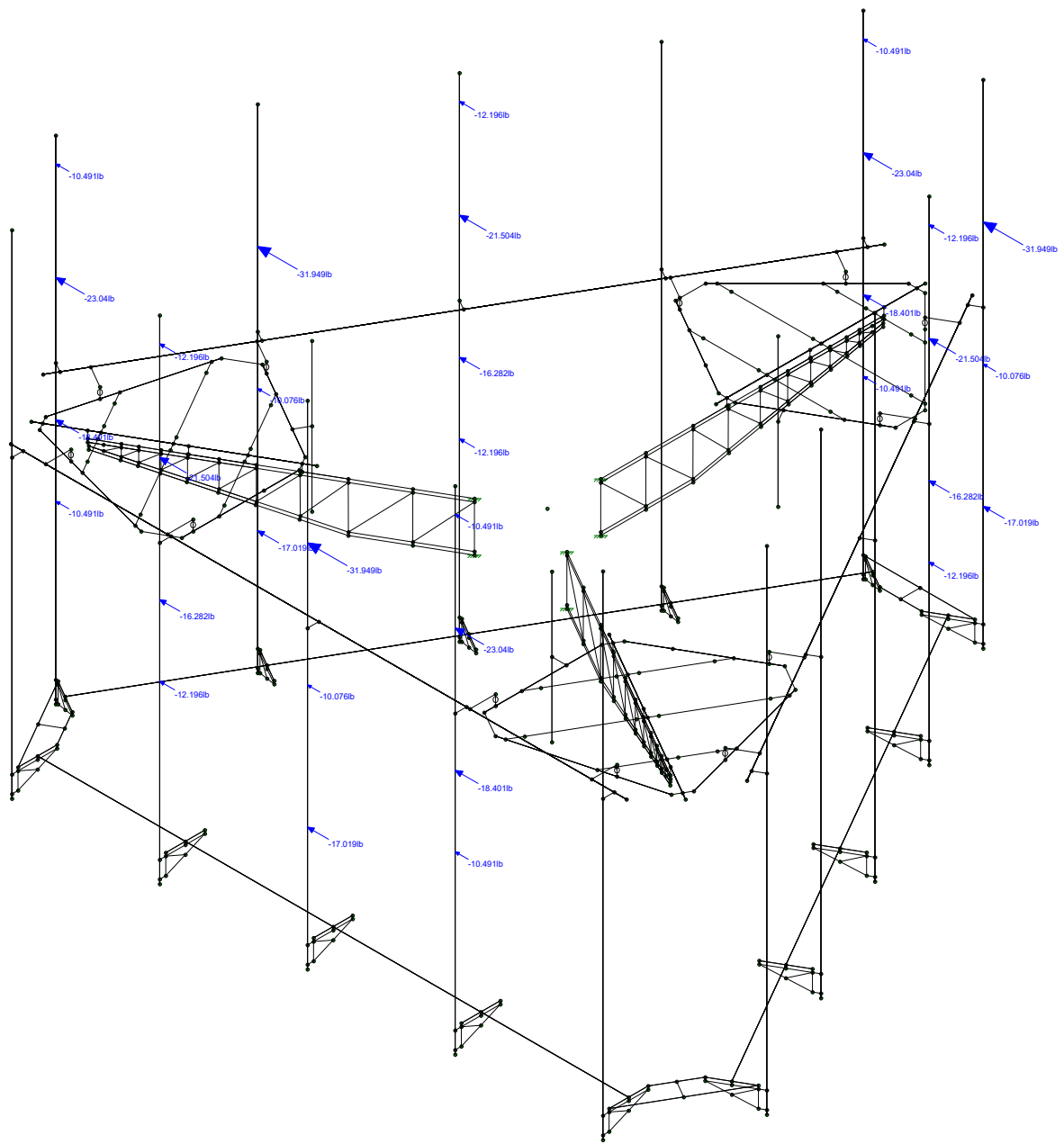


Loads: BLC 30, Distr. Ice Wind Load X

Infigy Engineering
AT

CLT01028

Dist. Ice Wind Loading 90
Mar 22, 2022 at 6:33 PM
CLT01028_loaded_loaded.r3d

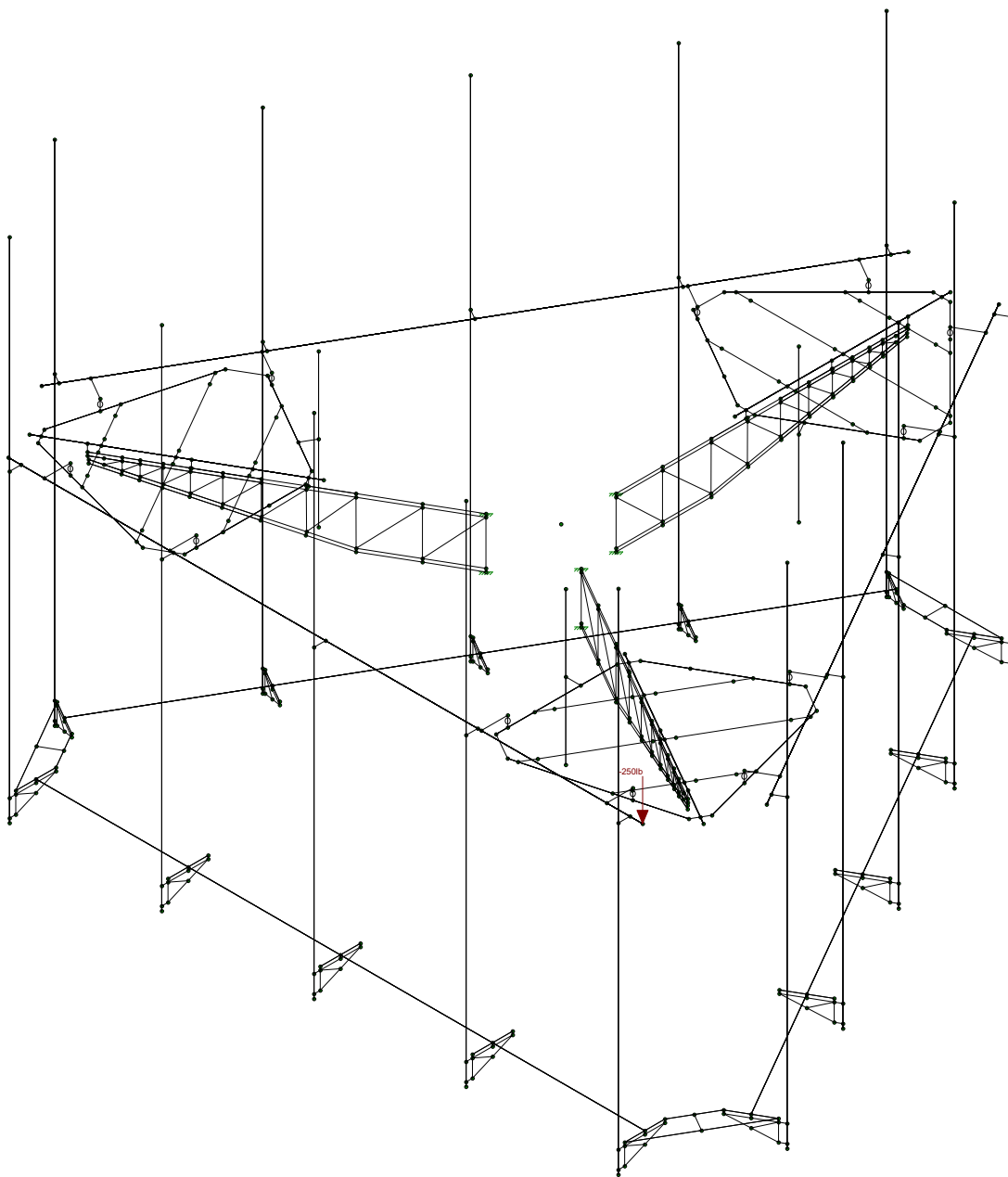


Loads: BLC 32, Seismic Load X

Infinigy Engineering
AT

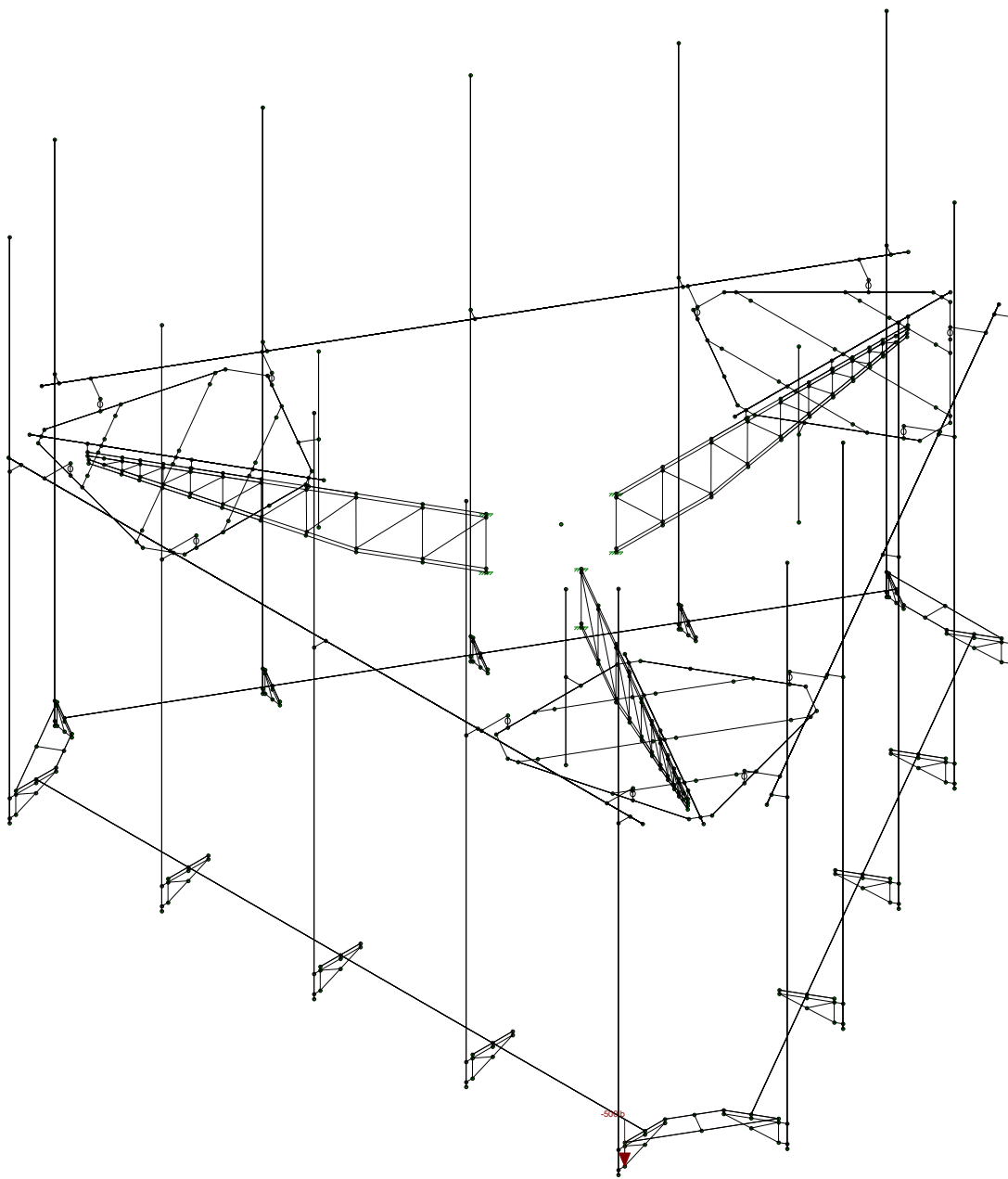
CLT01028

Seismic Loading 90
Mar 22, 2022 at 6:34 PM
CLT01028_loaded_loaded.r3d



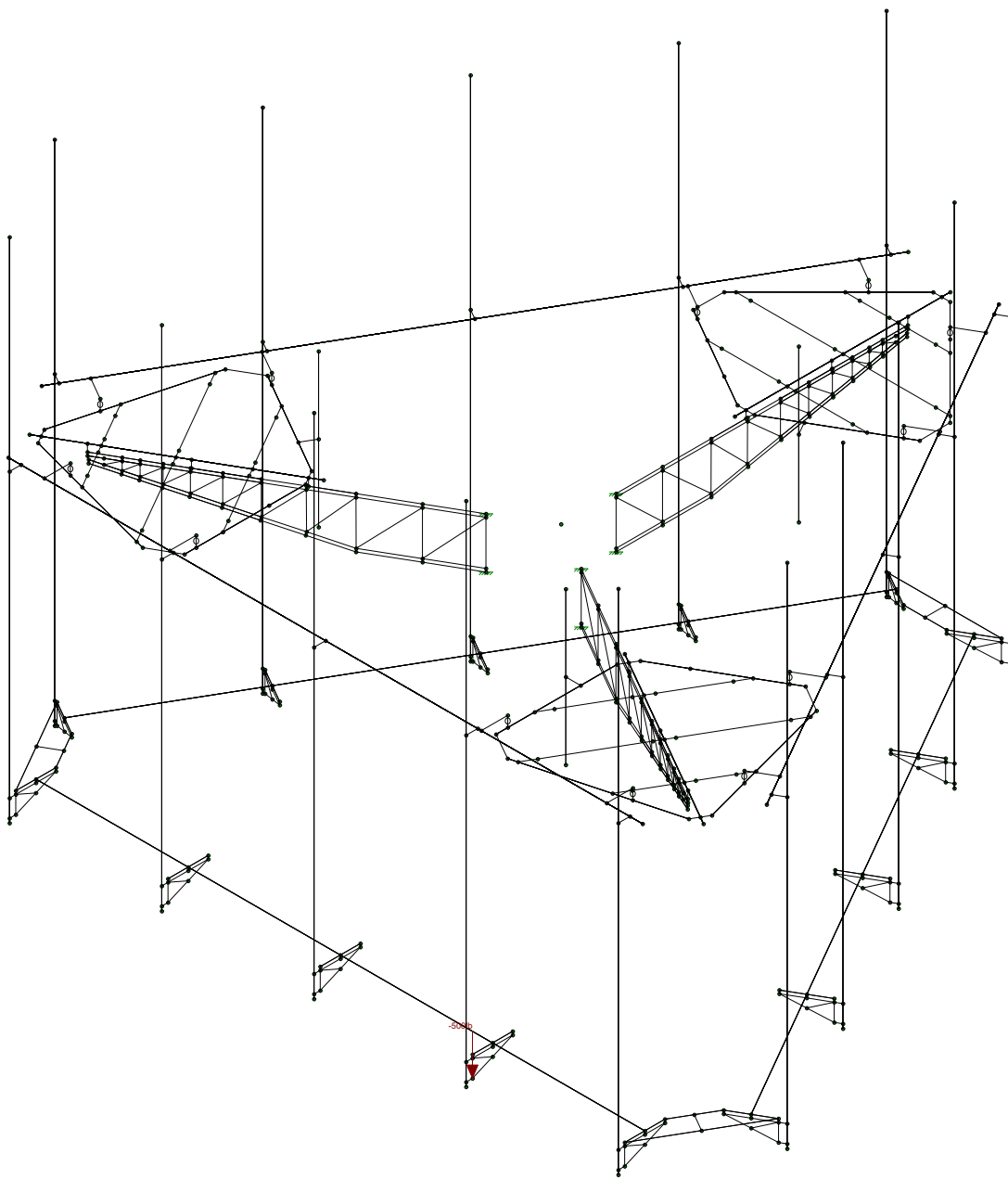
Loads: BLC 33, Service Live Loads

Infinigy Engineering	CLT01028	Service Load
AT		Mar 22, 2022 at 6:34 PM
		CLT01028_loaded_loaded.r3d



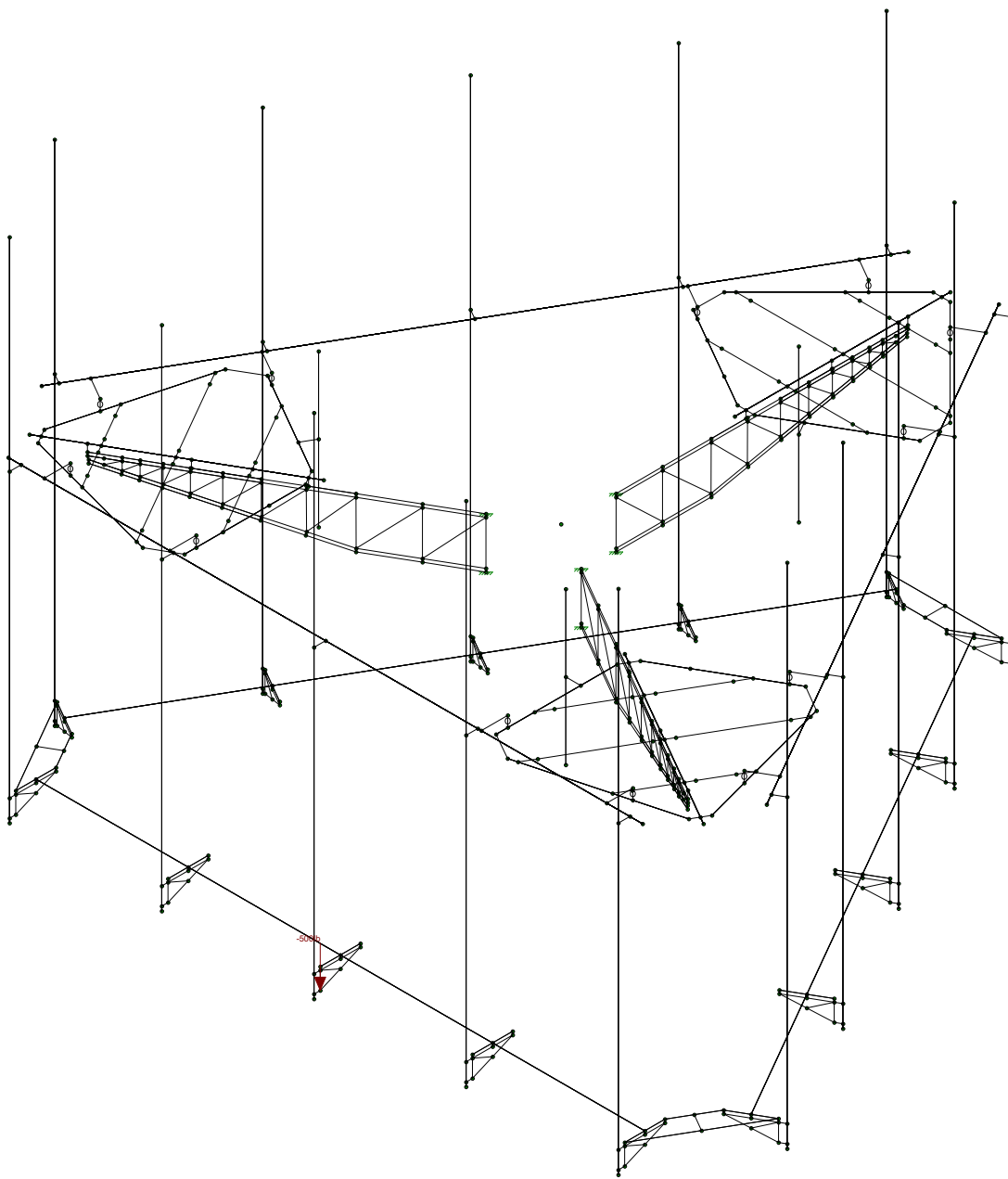
Loads: BLC 34, Maintenance Load 1

Infinigy Engineering	CLT01028	Maintenance Load 1
AT		Mar 22, 2022 at 6:34 PM
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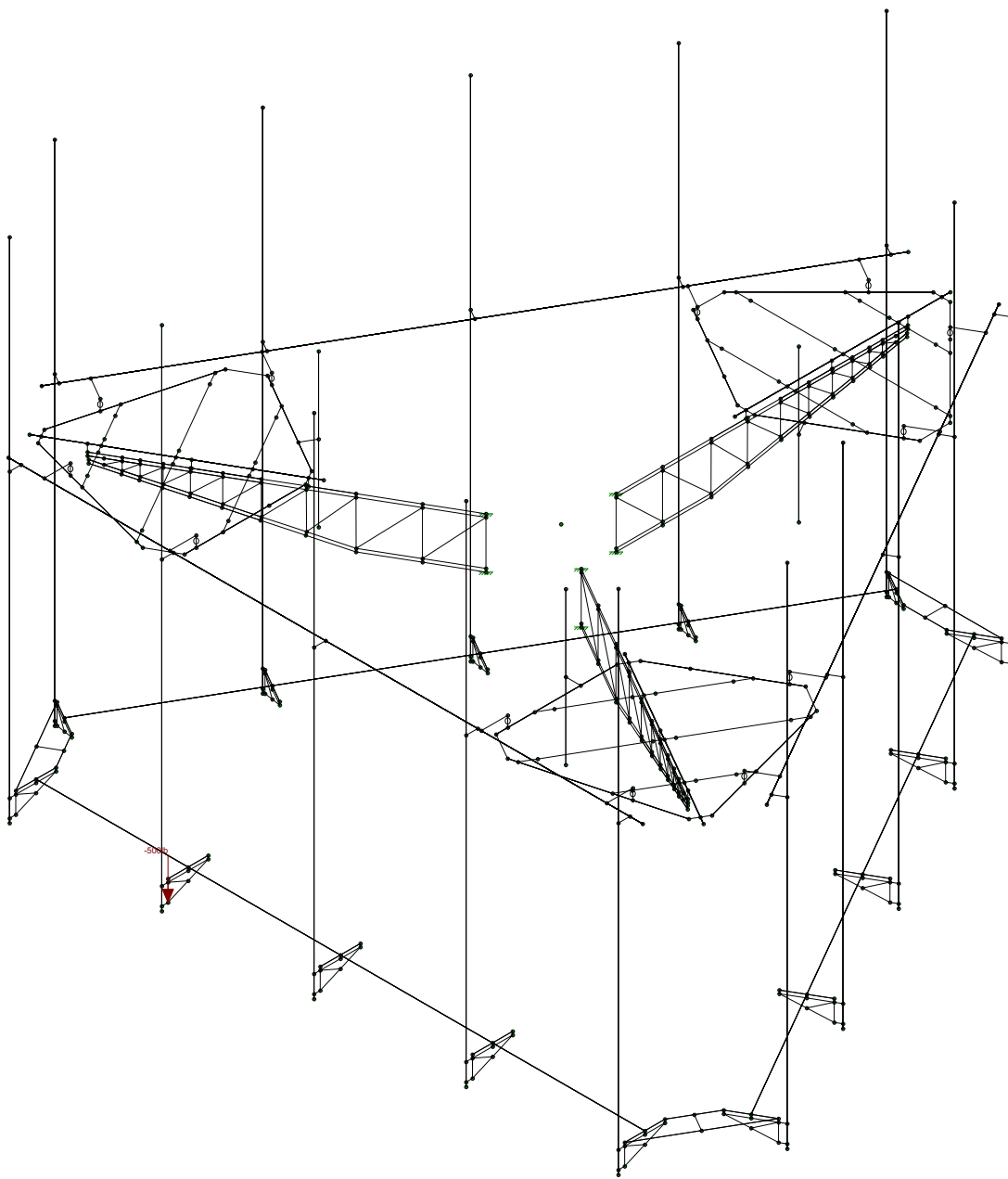
Loads: BLC 42, Maintenance Load 9

Infinigy Engineering	CLT01028	Maintenance Load 2
AT		Mar 22, 2022 at 6:35 PM
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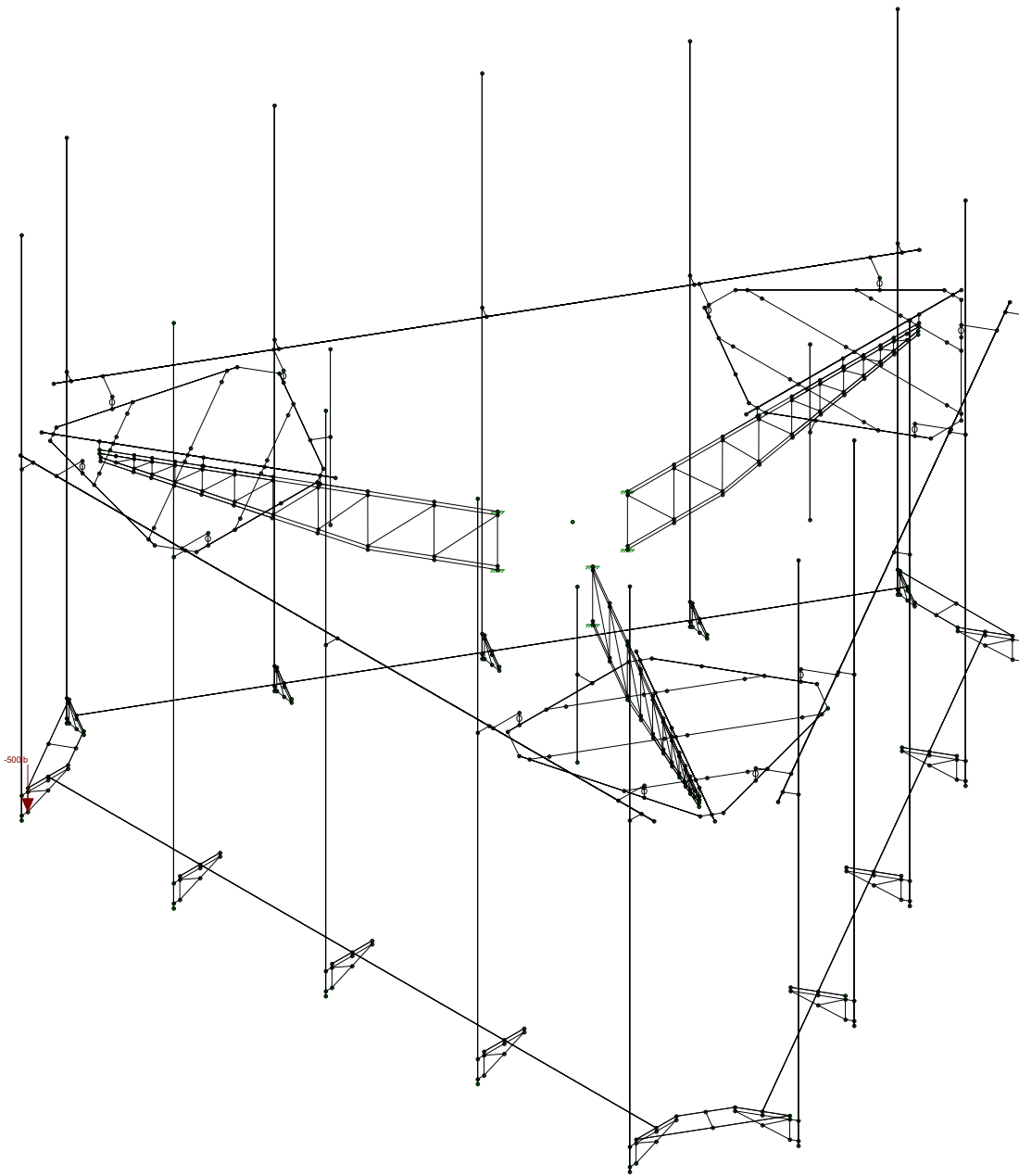
Loads: BLC 41, Maintenance Load 8

Infinigy Engineering	CLT01028	Maintenance Load 3
AT		Mar 22, 2022 at 6:35 PM
		CLT01028_loaded_loaded.r3d



Loads: BLC 35, Maintenance Load 2

Infinigy Engineering	CLT01028	Maintenance Load 4
AT		Mar 22, 2022 at 6:34 PM
		CLT01028_loaded_loaded.r3d



Loads: BLC 36, Maintenance Load 3

Infinigy Engineering	CLT01028	Maintenance Load 5
AT		Mar 22, 2022 at 6:34 PM
		CLT01028_loaded_loaded.r3d

Program Inputs

PROJECT INFORMATION		
Client:	Smatlink	
Carrier:	AT&T	
Engineer:	Abram Tadrous	

SITE INFORMATION		
Risk Category:	II	
Exposure Category:	B	
Topo Factor Procedure:	Method 1, Category 1	
Site Class:	D - Stiff Soil (Assumed)	
Ground Elevation:	311.01	ft *Rev H

MOUNT INFORMATION		
Mount Type:	T-Arm (Multiple)	
Num Sectors:	3	
Centerline AGL:	98.00	ft
Tower Height AGL:	110.00	ft

TOPOGRAPHIC DATA		
Topo Feature:	N/A	
Slope Distance:	N/A	ft
Crest Distance:	N/A	ft
Crest Height:	N/A	ft

FACTORS		
Directionality Fact. (K_d):	0.950	
Ground Ele. Factor (K_e):	0.989	*Rev H Only
Rooftop Speed-Up (K_s):	1.000	*Rev H Only
Topographic Factor (K_{zt}):	1.000	
Gust Effect Factor (G_h):	1.000	

CODE STANDARDS		
Building Code:	2018 IBC	
TIA Standard:	TIA-222-H	
ASCE Standard:	ASCE 7-16	

WIND AND ICE DATA		
Ultimate Wind (V_{ult}):	117	mph
Design Wind (V):	N/A	mph
Ice Wind (V_{ice}):	50	mph
Base Ice Thickness (t_i):	1.5	in
Flat Pressure:	64.689	psf
Round Pressure:	38.813	psf
Ice Wind Pressure:	7.088	psf

SEISMIC DATA		
Short-Period Accel. (S_s):	0.192	g
1-Second Accel. (S_1):	0.055	g
Short-Period Design (S_{DS}):	0.205	
1-Second Design (S_{D1}):	0.088	
Short-Period Coeff. (F_a):	1.600	
1-Second Coeff. (F_v):	2.400	
Amplification Factor (A_s):	3.000	
Response Mod. Coeff. (R):	2.000	



Infinigy Load Calculator V2.1.7



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

Mar 22, 2022
 6:35 PM
 Checked By: _____

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M31	N10	N7			Platform Braci...	Beam	None	Q345	Typical
2	M33	N11	N8			Platform Braci...	Beam	None	Q345	Typical
3	M34A	N9	N4			Platform Braci...	Beam	None	Q345	Typical
4	M45A	N17	N18		180	Angle Bracing	Beam	None	Q345	Typical
5	M50	N37	N43			RIGID	None	None	RIGID	Typical
6	M51	N39	N44			RIGID	None	None	RIGID	Typical
7	M52	N40	N45			RIGID	None	None	RIGID	Typical
8	M53	N38	N46			RIGID	None	None	RIGID	Typical
9	M54	N1	N2		90	Standoffs	Beam	None	Q235-GB	Typical
10	M54A	N41	N47			RIGID	None	None	RIGID	Typical
11	M55	N42	N48			RIGID	None	None	RIGID	Typical
12	M56	N49	N51			RIGID	None	None	RIGID	Typical
13	M57	N3	N23			RIGID	None	None	RIGID	Typical
14	M57A	N50	N53			RIGID	None	None	RIGID	Typical
15	M58	N5	N24			RIGID	None	None	RIGID	Typical
16	M59	N6	N25			RIGID	None	None	RIGID	Typical
17	M59A	N37	N57			RIGID	None	None	RIGID	Typical
18	M60	N24	N21			Platform Braci...	Beam	None	Q345	Typical
19	M60A	N39	N58			RIGID	None	None	RIGID	Typical
20	M61	N25	N22			Platform Braci...	Beam	None	Q345	Typical
21	M61A	N40	N59			RIGID	None	None	RIGID	Typical
22	M62	N23	N20			Platform Braci...	Beam	None	Q345	Typical
23	M62A	N54	N60			RIGID	None	None	RIGID	Typical
24	M63	N20	N26			RIGID	None	None	RIGID	Typical
25	M63A	N55	N61			RIGID	None	None	RIGID	Typical
26	M64	N21	N27			RIGID	None	None	RIGID	Typical
27	M64A	N56	N62			RIGID	None	None	RIGID	Typical
28	M65	N22	N28			RIGID	None	None	RIGID	Typical
29	M65A	N49	N63			RIGID	None	None	RIGID	Typical
30	M66	N30	N32			Connection Pl...	Beam	None	Q345	Typical
31	M66A	N50	N65			RIGID	None	None	RIGID	Typical
32	M67	N15	N29			RIGID	None	None	RIGID	Typical
33	M68	N29	N30		90	Angle Bracing	Beam	None	Q345	Typical
34	M70	N16	N31			RIGID	None	None	RIGID	Typical
35	M73	N51	N52		180	Angle Bracing	Beam	None	Q345	Typical
36	M74	N63	N64		90	Angle Bracing	Beam	None	Q345	Typical
37	M74B	N31	N32		180	Angle Bracing	Beam	None	Q345	Typical
38	M74C	N18	N33			Connection Pl...	Beam	None	Q345	Typical
39	M75	N65	N66		180	Angle Bracing	Beam	None	Q345	Typical
40	M75B	N19	N33		90	Angle Bracing	Beam	None	Q345	Typical
41	M76	N53	N67		90	Angle Bracing	Beam	None	Q345	Typical
42	M77	N35	N36		90	Standoffs	Beam	None	Q235-GB	Typical
43	M78	N64	N66			Connection Pl...	Beam	None	Q345	Typical
44	M79	N52	N67			Connection Pl...	Beam	None	Q345	Typical
45	M80	N44	N41			Platform Braci...	Beam	None	Q345	Typical
46	M81	N45	N42			Platform Braci...	Beam	None	Q345	Typical
47	M82	N43	N38			Platform Braci...	Beam	None	Q345	Typical
48	M83	N58	N55			Platform Braci...	Beam	None	Q345	Typical
49	M84	N59	N56			Platform Braci...	Beam	None	Q345	Typical
50	M85	N57	N54			Platform Braci...	Beam	None	Q345	Typical
51	M94	N70	N68			RIGID	None	None	RIGID	Typical
52	M95	N68	N71			RIGID	None	None	RIGID	Typical
53	M96	N72	N69			RIGID	None	None	RIGID	Typical
54	M97	N69	N73			RIGID	None	None	RIGID	Typical
55	M99	N76	N82			RIGID	None	None	RIGID	Typical
56	M100	N78	N83			RIGID	None	None	RIGID	Typical



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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 6:35 PM
 Checked By: _____

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
57	M101	N79	N84			RIGID	None	None	RIGID	Typical
58	M102	N77	N85			RIGID	None	None	RIGID	Typical
59	M103	N80	N86			RIGID	None	None	RIGID	Typical
60	M104	N81	N87			RIGID	None	None	RIGID	Typical
61	M105	N88	N90			RIGID	None	None	RIGID	Typical
62	M106	N89	N92			RIGID	None	None	RIGID	Typical
63	M108	N76	N96			RIGID	None	None	RIGID	Typical
64	M109	N78	N97			RIGID	None	None	RIGID	Typical
65	M110	N79	N98			RIGID	None	None	RIGID	Typical
66	M111	N93	N99			RIGID	None	None	RIGID	Typical
67	M112	N94	N100			RIGID	None	None	RIGID	Typical
68	M113	N95	N101			RIGID	None	None	RIGID	Typical
69	M114	N88	N102			RIGID	None	None	RIGID	Typical
70	M115	N89	N104			RIGID	None	None	RIGID	Typical
71	M116	N109	N105			RIGID	None	None	RIGID	Typical
72	M117	N105	N110			RIGID	None	None	RIGID	Typical
73	M118	N111	N108			RIGID	None	None	RIGID	Typical
74	M119	N108	N112			RIGID	None	None	RIGID	Typical
75	M122	N90	N91		180	Angle Bracing	Beam	None	Q345	Typical
76	M123	N102	N103		90	Angle Bracing	Beam	None	Q345	Typical
77	M124	N104	N106		180	Angle Bracing	Beam	None	Q345	Typical
78	M125	N92	N107		90	Angle Bracing	Beam	None	Q345	Typical
79	M126	N74	N75		90	Standoffs	Beam	None	Q235-GB	Typical
80	M127	N103	N106			Connection Pl...	Beam	None	Q345	Typical
81	M127A	N118	N116			RIGID	None	None	RIGID	Typical
82	M128	N91	N107			Connection Pl...	Beam	None	Q345	Typical
83	M128A	N116	N119			RIGID	None	None	RIGID	Typical
84	M129	N83	N80			Platform Braci...	Beam	None	Q345	Typical
85	M129A	N120	N117			RIGID	None	None	RIGID	Typical
86	M130	N84	N81			Platform Braci...	Beam	None	Q345	Typical
87	M130A	N117	N121			RIGID	None	None	RIGID	Typical
88	M131	N82	N77			Platform Braci...	Beam	None	Q345	Typical
89	M131A	N124	N122			RIGID	None	None	RIGID	Typical
90	M132	N97	N94			Platform Braci...	Beam	None	Q345	Typical
91	M132A	N122	N125			RIGID	None	None	RIGID	Typical
92	M133	N98	N95			Platform Braci...	Beam	None	Q345	Typical
93	M133A	N126	N123			RIGID	None	None	RIGID	Typical
94	M134	N96	N93			Platform Braci...	Beam	None	Q345	Typical
95	M134A	N123	N127			RIGID	None	None	RIGID	Typical
96	M136A	N129	N128			RIGID	None	None	RIGID	Typical
97	M137A	N128	N130			RIGID	None	None	RIGID	Typical
98	M138A	N131	N113			RIGID	None	None	RIGID	Typical
99	M139A	N113	N132			RIGID	None	None	RIGID	Typical
100	M140A	N135	N133			RIGID	None	None	RIGID	Typical
101	M141A	N133	N136			RIGID	None	None	RIGID	Typical
102	M142	N34	N134			RIGID	None	None	RIGID	Typical
103	M143	N134	N137			RIGID	None	None	RIGID	Typical
104	MH3	N139	N138			Horizontals	Beam	None	Q235-GB	Typical
105	MH1	N144	N143			Horizontals	Beam	None	Q235-GB	Typical
106	MH2	N148	N147			Horizontals	Beam	None	Q235-GB	Typical
107	M198	N206	N201			RIGID	None	None	RIGID	Typical
108	M199	N213	N207			RIGID	None	None	RIGID	Typical
109	M200	N214	N208			RIGID	None	None	RIGID	Typical
110	M201	N215	N209			RIGID	None	None	RIGID	Typical
111	M202	N216	N210			RIGID	None	None	RIGID	Typical
112	M203	N217	N203			RIGID	None	None	RIGID	Typical
113	M204	N218	N211			RIGID	None	None	RIGID	Typical



Company : Infinigy Engineering
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	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
114	M205	N219	N212			RIGID	None	None	RIGID	Typical
115	M206	N235	N204			RIGID	None	None	RIGID	Typical
116	M207	N237	N236			RIGID	None	None	RIGID	Typical
117	M208	N228	N234			RIGID	None	None	RIGID	Typical
118	M209	N227	N233			RIGID	None	None	RIGID	Typical
119	M210	N226	N232			RIGID	None	None	RIGID	Typical
120	M211	N225	N231			RIGID	None	None	RIGID	Typical
121	M212	N223	N230			RIGID	None	None	RIGID	Typical
122	M213	N224	N221			RIGID	None	None	RIGID	Typical
123	M214	N222	N229			RIGID	None	None	RIGID	Typical
124	M215	N205	N220			RIGID	None	None	RIGID	Typical
125	M216	N210	N208		90	Standoff (Top ...	Beam	None	Q345	Typical
126	M217	N208	N207		90	Standoff (Top ...	Beam	None	Q345	Typical
127	M218	N207	N201		90	Standoff (Top ...	Beam	None	Q345	Typical
128	M219	N225	N224		90	Standoff (Botto...	Beam	None	Q345	Typical
129	M220	N224	N222		90	Standoff (Botto...	Beam	None	Q345	Typical
130	M221	N222	N205		90	Standoff (Botto...	Beam	None	Q345	Typical
131	M222	N216	N214			Standoff Braci...	Beam	None	Q345	Typical
132	M223	N214	N213			Standoff Braci...	Beam	None	Q345	Typical
133	M224	N213	N206			Standoff Braci...	Beam	None	Q345	Typical
134	M225	N231	N221			Standoff Braci...	Beam	None	Q345	Typical
135	M226	N221	N229			Standoff Braci...	Beam	None	Q345	Typical
136	M227	N229	N220			Standoff Braci...	Beam	None	Q345	Typical
137	M228	N220	N206			Standoff Braci...	Beam	None	Q345	Typical
138	M229	N236	N235			RIGID	None	None	RIGID	Typical
139	M230	N206	N229			Standoff Braci...	Beam	None	Q345	Typical
140	M231	N229	N213			Standoff Braci...	Beam	None	Q345	Typical
141	M232	N213	N221			Standoff Braci...	Beam	None	Q345	Typical
142	M233	N221	N214		60	Standoff Braci...	Beam	None	Q345	Typical
143	M234	N230	N214			Standoff Braci...	Beam	None	Q345	Typical
144	M235	N230	N215		60	Standoff Braci...	Beam	None	Q345	Typical
145	M236	N231	N215			Standoff Braci...	Beam	None	Q345	Typical
146	M237	N231	N216		60	Standoff Braci...	Beam	None	Q345	Typical
147	M238	N232	N216			Standoff Braci...	Beam	None	Q345	Typical
148	M239	N232	N217		60	Standoff Braci...	Beam	None	Q345	Typical
149	M240	N233	N217			Standoff Braci...	Beam	None	Q345	Typical
150	M241	N233	N218			RIGID	None	None	RIGID	Typical
151	M242	N234	N219			RIGID	None	None	RIGID	Typical
152	M243	N246	N149			RIGID	None	None	RIGID	Typical
153	M244	N202	N16			RIGID	None	None	RIGID	Typical
154	M245	N205	N239		90	Standoff (Botto...	Beam	None	Q345	Typical
155	M246	N243	N239		90	Standoff (Botto...	Beam	None	Q345	Typical
156	M247	N220	N241			Standoff Braci...	Beam	None	Q345	Typical
157	M248	N241	N245			Standoff Braci...	Beam	None	Q345	Typical
158	M249	N206	N240			Standoff Braci...	Beam	None	Q345	Typical
159	M250	N240	N244			Standoff Braci...	Beam	None	Q345	Typical
160	M251	N220	N240			Standoff Braci...	Beam	None	Q345	Typical
161	M252	N241	N240		60	Standoff Braci...	Beam	None	Q345	Typical
162	M253	N241	N244			Standoff Braci...	Beam	None	Q345	Typical
163	M254	N245	N244		60	Standoff Braci...	Beam	None	Q345	Typical
164	M255	N201	N238		90	Standoff (Top ...	Beam	None	Q345	Typical
165	M256	N242	N238		90	Standoff (Top ...	Beam	None	Q345	Typical
166	M257	N240	N238		90	RIGID	None	None	RIGID	Typical
167	M258	N244	N242		90	RIGID	None	None	RIGID	Typical
168	M259	N243	N245		90	RIGID	None	None	RIGID	Typical
169	M260	N239	N241		90	RIGID	None	None	RIGID	Typical
170	M261	N237	N227		90	Standoff (Botto...	Beam	None	Q345	Typical



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	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
171	M262	N204	N211		90	Standoff (Top ...	Beam	None	Q345	Typical
172	M263	N235	N218			Standoff Braci...	Beam	None	Q345	Typical
173	M264	N236	N233			Standoff Braci...	Beam	None	Q345	Typical
174	M265	N158	N153			RIGID	None	None	RIGID	Typical
175	M265A	N211	N210		90	Standoff (Top ...	Beam	None	Q345	Typical
176	M266	N165	N159			RIGID	None	None	RIGID	Typical
177	M266A	N218	N216			Standoff Braci...	Beam	None	Q345	Typical
178	M267	N166	N160			RIGID	None	None	RIGID	Typical
179	M267A	N233	N231			Standoff Braci...	Beam	None	Q345	Typical
180	M268	N167	N161			RIGID	None	None	RIGID	Typical
181	M268A	N227	N225		90	Standoff (Botto...	Beam	None	Q345	Typical
182	M269	N168	N162			RIGID	None	None	RIGID	Typical
183	M269A	N254	N249			RIGID	None	None	RIGID	Typical
184	M270	N169	N155			RIGID	None	None	RIGID	Typical
185	M270A	N261	N255			RIGID	None	None	RIGID	Typical
186	M271	N170	N163			RIGID	None	None	RIGID	Typical
187	M271A	N262	N256			RIGID	None	None	RIGID	Typical
188	M272	N171	N164			RIGID	None	None	RIGID	Typical
189	M272A	N263	N257			RIGID	None	None	RIGID	Typical
190	M273	N187	N156			RIGID	None	None	RIGID	Typical
191	M273A	N264	N258			RIGID	None	None	RIGID	Typical
192	M274	N189	N188			RIGID	None	None	RIGID	Typical
193	M274A	N265	N251			RIGID	None	None	RIGID	Typical
194	M275	N180	N186			RIGID	None	None	RIGID	Typical
195	M275A	N266	N259			RIGID	None	None	RIGID	Typical
196	M276	N179	N185			RIGID	None	None	RIGID	Typical
197	M276A	N267	N260			RIGID	None	None	RIGID	Typical
198	M277	N178	N184			RIGID	None	None	RIGID	Typical
199	M277A	N283	N252			RIGID	None	None	RIGID	Typical
200	M278	N177	N183			RIGID	None	None	RIGID	Typical
201	M278A	N285	N284			RIGID	None	None	RIGID	Typical
202	M279	N175	N182			RIGID	None	None	RIGID	Typical
203	M279A	N276	N282			RIGID	None	None	RIGID	Typical
204	M280	N176	N173			RIGID	None	None	RIGID	Typical
205	M280A	N275	N281			RIGID	None	None	RIGID	Typical
206	M281	N174	N181			RIGID	None	None	RIGID	Typical
207	M281A	N274	N280			RIGID	None	None	RIGID	Typical
208	M282	N157	N172			RIGID	None	None	RIGID	Typical
209	M282A	N273	N279			RIGID	None	None	RIGID	Typical
210	M283	N162	N160		90	Standoff (Top ...	Beam	None	Q345	Typical
211	M283A	N271	N278			RIGID	None	None	RIGID	Typical
212	M284	N160	N159		90	Standoff (Top ...	Beam	None	Q345	Typical
213	M284A	N272	N269			RIGID	None	None	RIGID	Typical
214	M285	N159	N153		90	Standoff (Top ...	Beam	None	Q345	Typical
215	M285A	N270	N277			RIGID	None	None	RIGID	Typical
216	M286	N177	N176		90	Standoff (Botto...	Beam	None	Q345	Typical
217	M286A	N253	N268			RIGID	None	None	RIGID	Typical
218	M287	N176	N174		90	Standoff (Botto...	Beam	None	Q345	Typical
219	M287A	N258	N256		90	Standoff (Top ...	Beam	None	Q345	Typical
220	M288	N174	N157		90	Standoff (Botto...	Beam	None	Q345	Typical
221	M288A	N256	N255		90	Standoff (Top ...	Beam	None	Q345	Typical
222	M289	N168	N166			Standoff Braci...	Beam	None	Q345	Typical
223	M289A	N255	N249		90	Standoff (Top ...	Beam	None	Q345	Typical
224	M290	N166	N165			Standoff Braci...	Beam	None	Q345	Typical
225	M290A	N273	N272		90	Standoff (Botto...	Beam	None	Q345	Typical
226	M291	N165	N158			Standoff Braci...	Beam	None	Q345	Typical
227	M291A	N272	N270		90	Standoff (Botto...	Beam	None	Q345	Typical



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Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
228	M292	N183	N173		Standoff Braci...	Beam	None	Q345	Typical
229	M292A	N270	N253	90	Standoff (Botto...	Beam	None	Q345	Typical
230	M293	N173	N181		Standoff Braci...	Beam	None	Q345	Typical
231	M293A	N264	N262		Standoff Braci...	Beam	None	Q345	Typical
232	M294	N181	N172		Standoff Braci...	Beam	None	Q345	Typical
233	M294A	N262	N261		Standoff Braci...	Beam	None	Q345	Typical
234	M295	N172	N158		Standoff Braci...	Beam	None	Q345	Typical
235	M295A	N261	N254		Standoff Braci...	Beam	None	Q345	Typical
236	M296	N188	N187		RIGID	None	None	RIGID	Typical
237	M296A	N279	N269		Standoff Braci...	Beam	None	Q345	Typical
238	M297	N158	N181		Standoff Braci...	Beam	None	Q345	Typical
239	M297A	N269	N277		Standoff Braci...	Beam	None	Q345	Typical
240	M298	N181	N165		Standoff Braci...	Beam	None	Q345	Typical
241	M298A	N277	N268		Standoff Braci...	Beam	None	Q345	Typical
242	M299	N165	N173		Standoff Braci...	Beam	None	Q345	Typical
243	M299A	N268	N254		Standoff Braci...	Beam	None	Q345	Typical
244	M300	N173	N166	120	Standoff Braci...	Beam	None	Q345	Typical
245	M300A	N284	N283		RIGID	None	None	RIGID	Typical
246	M301	N182	N166		Standoff Braci...	Beam	None	Q345	Typical
247	M301A	N254	N277		Standoff Braci...	Beam	None	Q345	Typical
248	M302	N182	N167	120	Standoff Braci...	Beam	None	Q345	Typical
249	M302A	N277	N261		Standoff Braci...	Beam	None	Q345	Typical
250	M303	N183	N167		Standoff Braci...	Beam	None	Q345	Typical
251	M303A	N261	N269		Standoff Braci...	Beam	None	Q345	Typical
252	M304	N183	N168	120	Standoff Braci...	Beam	None	Q345	Typical
253	M304A	N269	N262	180	Standoff Braci...	Beam	None	Q345	Typical
254	M305	N184	N168		Standoff Braci...	Beam	None	Q345	Typical
255	M305A	N278	N262		Standoff Braci...	Beam	None	Q345	Typical
256	M306	N184	N169	120	Standoff Braci...	Beam	None	Q345	Typical
257	M306A	N278	N263	180	Standoff Braci...	Beam	None	Q345	Typical
258	M307	N279	N263		Standoff Braci...	Beam	None	Q345	Typical
259	M307A	N185	N169		Standoff Braci...	Beam	None	Q345	Typical
260	M308	N279	N264	180	Standoff Braci...	Beam	None	Q345	Typical
261	M308A	N185	N170	60	RIGID	None	None	RIGID	Typical
262	M309	N280	N264		Standoff Braci...	Beam	None	Q345	Typical
263	M310	N280	N265	180	Standoff Braci...	Beam	None	Q345	Typical
264	M310A	N186	N171		RIGID	None	None	RIGID	Typical
265	M311	N281	N265		Standoff Braci...	Beam	None	Q345	Typical
266	M311A	N198	N151		RIGID	None	None	RIGID	Typical
267	M312	N281	N266	120	RIGID	None	None	RIGID	Typical
268	M312A	N154	N50		RIGID	None	None	RIGID	Typical
269	M313	N282	N267		RIGID	None	None	RIGID	Typical
270	M313A	N157	N191	90	Standoff (Botto...	Beam	None	Q345	Typical
271	M314	N294	N150		RIGID	None	None	RIGID	Typical
272	M314A	N195	N191	90	Standoff (Botto...	Beam	None	Q345	Typical
273	M315	N250	N89		RIGID	None	None	RIGID	Typical
274	M315A	N172	N193		Standoff Braci...	Beam	None	Q345	Typical
275	M316	N253	N287	90	Standoff (Botto...	Beam	None	Q345	Typical
276	M316A	N193	N197		Standoff Braci...	Beam	None	Q345	Typical
277	M317	N291	N287	90	Standoff (Botto...	Beam	None	Q345	Typical
278	M317A	N158	N192		Standoff Braci...	Beam	None	Q345	Typical
279	M318	N268	N289		Standoff Braci...	Beam	None	Q345	Typical
280	M318A	N192	N196		Standoff Braci...	Beam	None	Q345	Typical
281	M319	N289	N293		Standoff Braci...	Beam	None	Q345	Typical
282	M319A	N172	N192		Standoff Braci...	Beam	None	Q345	Typical
283	M320	N254	N288		Standoff Braci...	Beam	None	Q345	Typical
284	M320A	N193	N192	120	Standoff Braci...	Beam	None	Q345	Typical



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	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
285	M321	N288	N292			Standoff Braci...	Beam	None	Q345	Typical
286	M321A	N193	N196			Standoff Braci...	Beam	None	Q345	Typical
287	M322	N268	N288			Standoff Braci...	Beam	None	Q345	Typical
288	M322A	N197	N196		120	Standoff Braci...	Beam	None	Q345	Typical
289	M323	N153	N190		90	Standoff (Top ...	Beam	None	Q345	Typical
290	M323A	N289	N288		180	Standoff Braci...	Beam	None	Q345	Typical
291	M324	N194	N190		90	Standoff (Top ...	Beam	None	Q345	Typical
292	M324A	N289	N292			Standoff Braci...	Beam	None	Q345	Typical
293	M325	N192	N190		90	RIGID	None	None	RIGID	Typical
294	M325A	N293	N292		180	Standoff Braci...	Beam	None	Q345	Typical
295	M326	N196	N194		90	RIGID	None	None	RIGID	Typical
296	M326A	N249	N286		90	Standoff (Top ...	Beam	None	Q345	Typical
297	M327	N195	N197		90	RIGID	None	None	RIGID	Typical
298	M327A	N290	N286		90	Standoff (Top ...	Beam	None	Q345	Typical
299	M328	N191	N193		90	RIGID	None	None	RIGID	Typical
300	M328A	N288	N286		90	RIGID	None	None	RIGID	Typical
301	M329	N189	N179		90	Standoff (Botto...	Beam	None	Q345	Typical
302	M329A	N292	N290		90	RIGID	None	None	RIGID	Typical
303	M330	N156	N163		90	Standoff (Top ...	Beam	None	Q345	Typical
304	M330A	N291	N293		90	RIGID	None	None	RIGID	Typical
305	M331	N187	N170			Standoff Braci...	Beam	None	Q345	Typical
306	M331A	N287	N289		90	RIGID	None	None	RIGID	Typical
307	M332	N188	N185			Standoff Braci...	Beam	None	Q345	Typical
308	M332A	N163	N162		90	Standoff (Top ...	Beam	None	Q345	Typical
309	M332B	N285	N275		90	Standoff (Botto...	Beam	None	Q345	Typical
310	M333	N170	N168			Standoff Braci...	Beam	None	Q345	Typical
311	M333A	N252	N259		90	Standoff (Top ...	Beam	None	Q345	Typical
312	M334	N185	N183			Standoff Braci...	Beam	None	Q345	Typical
313	M334A	N283	N266			Standoff Braci...	Beam	None	Q345	Typical
314	M335	N179	N177		90	Standoff (Botto...	Beam	None	Q345	Typical
315	M335A	N284	N281			Standoff Braci...	Beam	None	Q345	Typical
316	M336	N259	N258		90	Standoff (Top ...	Beam	None	Q345	Typical
317	M337	N266	N264			Standoff Braci...	Beam	None	Q345	Typical
318	M338	N281	N279			Standoff Braci...	Beam	None	Q345	Typical
319	M339	N275	N273		90	Standoff (Botto...	Beam	None	Q345	Typical
320	M340	N218	N234			RIGID	None	None	RIGID	Typical
321	M341	N219	N247			RIGID	None	None	RIGID	Typical
322	M342	N170	N186			RIGID	None	None	RIGID	Typical
323	M343	N171	N199			RIGID	None	None	RIGID	Typical
324	M344	N266	N282			RIGID	None	None	RIGID	Typical
325	M345	N267	N295			RIGID	None	None	RIGID	Typical
326	M355	N318	N322			RIGID	None	None	RIGID	Typical
327	M356	N317	N321			RIGID	None	None	RIGID	Typical
328	M357	N318	N337			Walking Platfo...	Beam	None	Q345	Typical
329	M361	N317	N340			Walking Platfo...	Beam	None	Q345	Typical
330	M362	N326	N349			Walking Platfo...	Beam	None	Q345	Typical
331	M366	N325	N352			Walking Platfo...	Beam	None	Q345	Typical
332	M367	N252	N306			RIGID	None	None	RIGID	Typical
333	M367A	N318	N330			Walking Platfo...	Beam	None	Q345	Typical
334	M368	N204	N305			RIGID	None	None	RIGID	Typical
335	M369	N156	N304			RIGID	None	None	RIGID	Typical
336	M371	N317	N329			Walking Platfo...	Beam	None	Q345	Typical
337	M372	N334	N330			RIGID	None	None	RIGID	Typical
338	M376	N333	N329			RIGID	None	None	RIGID	Typical
339	M377	N337	N326			Walking Platfo...	Beam	None	Q345	Typical
340	M381	N340	N325			Walking Platfo...	Beam	None	Q345	Typical
341	M382	N337	N330			Walking Platfo...	Beam	None	Q345	Typical



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	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
342	M386	N340	N329			Walking Platfo...	Beam	None	Q345	Typical
343	M387	N349	N330			Walking Platfo...	Beam	None	Q345	Typical
344	M391	N352	N329			Walking Platfo...	Beam	None	Q345	Typical
345	M392	N329	N345			RIGID	None	None	RIGID	Typical
346	M393	N352	N356			RIGID	None	None	RIGID	Typical
347	M394	N325	N341			RIGID	None	None	RIGID	Typical
348	M395	N345	N341			RIGID	None	None	RIGID	Typical
349	M408	N330	N346			RIGID	None	None	RIGID	Typical
350	M409	N326	N342			RIGID	None	None	RIGID	Typical
351	M410	N349	N353			RIGID	None	None	RIGID	Typical
352	M411	N346	N342			RIGID	None	None	RIGID	Typical
353	M412	N353	N356		90	Walking Platfo...	Beam	None	Q345	Typical
354	M416	N358	N360			RIGID	None	None	RIGID	Typical
355	M417	N357	N359			RIGID	None	None	RIGID	Typical
356	M418	N358	N367			Walking Platfo...	Beam	None	Q345	Typical
357	M422	N357	N368			Walking Platfo...	Beam	None	Q345	Typical
358	M423	N362	N373			Walking Platfo...	Beam	None	Q345	Typical
359	M427	N361	N374			Walking Platfo...	Beam	None	Q345	Typical
360	M428	N358	N364		120	Walking Platfo...	Beam	None	Q345	Typical
361	M432	N357	N363		120	Walking Platfo...	Beam	None	Q345	Typical
362	M433	N366	N364			RIGID	None	None	RIGID	Typical
363	M437	N365	N363			RIGID	None	None	RIGID	Typical
364	M438	N367	N362			Walking Platfo...	Beam	None	Q345	Typical
365	M442	N368	N361			Walking Platfo...	Beam	None	Q345	Typical
366	M443	N367	N364			Walking Platfo...	Beam	None	Q345	Typical
367	M447	N368	N363			Walking Platfo...	Beam	None	Q345	Typical
368	M448	N373	N364			Walking Platfo...	Beam	None	Q345	Typical
369	M452	N374	N363			Walking Platfo...	Beam	None	Q345	Typical
370	M453	N363	N371			RIGID	None	None	RIGID	Typical
371	M454	N374	N376			RIGID	None	None	RIGID	Typical
372	M455	N361	N369			RIGID	None	None	RIGID	Typical
373	M456	N371	N369			RIGID	None	None	RIGID	Typical
374	M469	N364	N372			RIGID	None	None	RIGID	Typical
375	M470	N362	N370			RIGID	None	None	RIGID	Typical
376	M471	N373	N375			RIGID	None	None	RIGID	Typical
377	M472	N372	N370			RIGID	None	None	RIGID	Typical
378	M473	N375	N376		90	Walking Platfo...	Beam	None	Q345	Typical
379	M477	N378	N380			RIGID	None	None	RIGID	Typical
380	M478	N377	N379			RIGID	None	None	RIGID	Typical
381	M479	N378	N387			Walking Platfo...	Beam	None	Q345	Typical
382	M483	N377	N388			Walking Platfo...	Beam	None	Q345	Typical
383	M484	N382	N393			Walking Platfo...	Beam	None	Q345	Typical
384	M488	N381	N394			Walking Platfo...	Beam	None	Q345	Typical
385	M489	N378	N384		60	Walking Platfo...	Beam	None	Q345	Typical
386	M493	N377	N383		60	Walking Platfo...	Beam	None	Q345	Typical
387	M494	N386	N384			RIGID	None	None	RIGID	Typical
388	M498	N385	N383			RIGID	None	None	RIGID	Typical
389	M499	N387	N382			Walking Platfo...	Beam	None	Q345	Typical
390	M503	N388	N381			Walking Platfo...	Beam	None	Q345	Typical
391	M504	N387	N384			Walking Platfo...	Beam	None	Q345	Typical
392	M505	N400	N450			RIGID	None	None	RIGID	Typical
393	M507A	N404	N406			RIGID	None	None	RIGID	Typical
394	M508	N388	N383			Walking Platfo...	Beam	None	Q345	Typical
395	M508B	N451	N461			RIGID	None	None	RIGID	Typical
396	M509	N393	N384			Walking Platfo...	Beam	None	Q345	Typical
397	M510A	N404	N414			Walking Platfo...	Beam	None	Q345	Typical
398	M511A	N454	N465			RIGID	None	None	RIGID	Typical



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 Designer : AT
 Job Number :
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Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
399	M512	N455	N466		RIGID	None	None	RIGID	Typical
400	M512A	N408	N420		Walking Platfo...	Beam	None	Q345	Typical
401	M513	N394	N383		Walking Platfo...	Beam	None	Q345	Typical
402	M514	N383	N391		RIGID	None	None	RIGID	Typical
403	M514A	N404	N410	120	Walking Platfo...	Beam	None	Q345	Typical
404	M514C	N462	N460		RIGID	None	None	RIGID	Typical
405	M514D	N467	N468		RIGID	None	None	RIGID	Typical
406	M515	N394	N396		RIGID	None	None	RIGID	Typical
407	M515B	N458	N463		RIGID	None	None	RIGID	Typical
408	M515C	N471	N472		RIGID	None	None	RIGID	Typical
409	M516	N381	N389		RIGID	None	None	RIGID	Typical
410	M516A	N412	N410		RIGID	None	None	RIGID	Typical
411	M516B	N459	N464		RIGID	None	None	RIGID	Typical
412	M516C	N469	N470		RIGID	None	None	RIGID	Typical
413	M517	N391	N389		RIGID	None	None	RIGID	Typical
414	M518A	N414	N408		Walking Platfo...	Beam	None	Q345	Typical
415	M520A	N414	N410		Walking Platfo...	Beam	None	Q345	Typical
416	M522	N420	N410		Walking Platfo...	Beam	None	Q345	Typical
417	M523	N418	N416		RIGID	None	None	RIGID	Typical
418	M524	N408	N416		RIGID	None	None	RIGID	Typical
419	M525	N420	N422		RIGID	None	None	RIGID	Typical
420	M526A	N410	N418		RIGID	None	None	RIGID	Typical
421	M530	N384	N392		RIGID	None	None	RIGID	Typical
422	M531	N382	N390		RIGID	None	None	RIGID	Typical
423	M532	N393	N395		RIGID	None	None	RIGID	Typical
424	M533	N392	N390		RIGID	None	None	RIGID	Typical
425	M534	N395	N396	90	Walking Platfo...	Beam	None	Q345	Typical
426	M535	N391	N372	90	Walking Platfo...	Beam	None	Q345	Typical
427	M536	N371	N346	90	Walking Platfo...	Beam	None	Q345	Typical
428	M537	N392	N345	180	Walking Platfo...	Beam	None	Q345	Typical
429	M538	N389	N370	180	Walking Platfo...	Beam	None	Q345	Typical
430	M539	N369	N342	180	Walking Platfo...	Beam	None	Q345	Typical
431	M540	N390	N341	90	Walking Platfo...	Beam	None	Q345	Typical
432	MP1	N146	N315		Mount Pipe	Column	Pipe	Q235-GB	Typical
433	MP4	N399	N402		Mount Pipe	Column	Pipe	Q235-GB	Typical
434	MP5	N145	N314		Mount Pipe	Column	Pipe	Q235-GB	Typical
435	MP6	N141	N312		Mount Pipe	Column	Pipe	Q235-GB	Typical
436	MP10	N140	N311		Mount Pipe	Column	Pipe	Q235-GB	Typical
437	MP11	N115	N310		Mount Pipe	Column	Pipe	Q235-GB	Typical
438	MP15	N114	N309		Mount Pipe	Column	Pipe	Q235-GB	Typical
439	R3	N3	N9		RIGID	None	None	RIGID	Typical
440	R4	N5	N10		RIGID	None	None	RIGID	Typical
441	R5	N6	N11		RIGID	None	None	RIGID	Typical
442	R6	N4	N12		RIGID	None	None	RIGID	Typical
443	R7	N7	N13		RIGID	None	None	RIGID	Typical
444	R8	N8	N14		RIGID	None	None	RIGID	Typical
445	R9	N15	N17		RIGID	None	None	RIGID	Typical
446	R10	N16	N19		RIGID	None	None	RIGID	Typical
447	M519	N499	N303		RIGID	None	None	RIGID	Typical
448	M520	N500	N501		Mount Pipe 2.0	Column	Pipe	Q235-GB	Typical
449	M560	N503	N502		Mount Pipe 2.0	Column	Pipe	Q235-GB	Typical
450	M561	N505	N299		RIGID	None	None	RIGID	Typical
451	M562	N507	N506		Mount Pipe 2.0	Column	Pipe	Q235-GB	Typical
452	M563	N509	N301		RIGID	None	None	RIGID	Typical
453	M509A	N469A	N481A		RIGID	None	None	RIGID	Typical
454	M510B	N471A	N472A		RIGID	None	None	RIGID	Typical
455	M511	N471A	N476A		Walking Platfo...	Beam	None	Q345	Typical



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Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
456	M512B	N473A	N479A		Walking Platfo...	Beam	None	Q345	Typical
457	M513A	N471A	N474A	120	Walking Platfo...	Beam	None	Q345	Typical
458	M514B	N475A	N474A		RIGID	None	None	RIGID	Typical
459	M515A	N476A	N473A		Walking Platfo...	Beam	None	Q345	Typical
460	M516D	N476A	N474A		Walking Platfo...	Beam	None	Q345	Typical
461	M517A	N479A	N474A		Walking Platfo...	Beam	None	Q345	Typical
462	M518B	N478A	N477A		RIGID	None	None	RIGID	Typical
463	M519A	N473A	N477A		RIGID	None	None	RIGID	Typical
464	M520B	N479A	N480A		RIGID	None	None	RIGID	Typical
465	M521A	N474A	N478A		RIGID	None	None	RIGID	Typical
466	MP3	N468A	N470A		Mount Pipe	Column	Pipe	Q235-GB	Typical
467	M523A	N483A	N495A		RIGID	None	None	RIGID	Typical
468	M524A	N485A	N486A		RIGID	None	None	RIGID	Typical
469	M525A	N485A	N490A		Walking Platfo...	Beam	None	Q345	Typical
470	M526B	N487A	N493A		Walking Platfo...	Beam	None	Q345	Typical
471	M527A	N485A	N488A	120	Walking Platfo...	Beam	None	Q345	Typical
472	M528A	N489A	N488A		RIGID	None	None	RIGID	Typical
473	M529A	N490A	N487A		Walking Platfo...	Beam	None	Q345	Typical
474	M530A	N490A	N488A		Walking Platfo...	Beam	None	Q345	Typical
475	M531A	N493A	N488A		Walking Platfo...	Beam	None	Q345	Typical
476	M532A	N492A	N491A		RIGID	None	None	RIGID	Typical
477	M533A	N487A	N491A		RIGID	None	None	RIGID	Typical
478	M534A	N493A	N494A		RIGID	None	None	RIGID	Typical
479	M535A	N488A	N492A		RIGID	None	None	RIGID	Typical
480	MP2	N482A	N484A		Mount Pipe	Column	Pipe	Q235-GB	Typical
481	M481	N442	N454A		RIGID	None	None	RIGID	Typical
482	M482	N444	N445		RIGID	None	None	RIGID	Typical
483	M483A	N444	N449		Walking Platfo...	Beam	None	Q345	Typical
484	M484A	N446	N452		Walking Platfo...	Beam	None	Q345	Typical
485	M485	N444	N447	120	Walking Platfo...	Beam	None	Q345	Typical
486	M486	N448	N447		RIGID	None	None	RIGID	Typical
487	M487	N449	N446		Walking Platfo...	Beam	None	Q345	Typical
488	M488A	N449	N447		Walking Platfo...	Beam	None	Q345	Typical
489	M489A	N452	N447		Walking Platfo...	Beam	None	Q345	Typical
490	M490	N451A	N450A		RIGID	None	None	RIGID	Typical
491	M491	N446	N450A		RIGID	None	None	RIGID	Typical
492	M492	N452	N453		RIGID	None	None	RIGID	Typical
493	M493A	N447	N451A		RIGID	None	None	RIGID	Typical
494	MP14	N441	N443		Mount Pipe	Column	Pipe	Q235-GB	Typical
495	M495	N456	N468B		RIGID	None	None	RIGID	Typical
496	M496	N458A	N459A		RIGID	None	None	RIGID	Typical
497	M497	N458A	N463A		Walking Platfo...	Beam	None	Q345	Typical
498	M498A	N460A	N466A		Walking Platfo...	Beam	None	Q345	Typical
499	M499A	N458A	N461A	120	Walking Platfo...	Beam	None	Q345	Typical
500	M500	N462A	N461A		RIGID	None	None	RIGID	Typical
501	M501	N463A	N460A		Walking Platfo...	Beam	None	Q345	Typical
502	M502	N463A	N461A		Walking Platfo...	Beam	None	Q345	Typical
503	M503A	N466A	N461A		Walking Platfo...	Beam	None	Q345	Typical
504	M504A	N465A	N464A		RIGID	None	None	RIGID	Typical
505	M505A	N460A	N464A		RIGID	None	None	RIGID	Typical
506	M506	N466A	N467A		RIGID	None	None	RIGID	Typical
507	M507	N461A	N465A		RIGID	None	None	RIGID	Typical
508	MP13	N455A	N457		Mount Pipe	Column	Pipe	Q235-GB	Typical
509	M509B	N470B	N482		RIGID	None	None	RIGID	Typical
510	M510	N472B	N473		RIGID	None	None	RIGID	Typical
511	M511B	N472B	N477		Walking Platfo...	Beam	None	Q345	Typical
512	M512C	N474	N480		Walking Platfo...	Beam	None	Q345	Typical



Member Primary Data (Continued)

Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules	
513	M513B	N472B	N475		120	Walking Platfo...	Beam	None	Q345	Typical
514	M514E	N476	N475			RIGID	None	None	RIGID	Typical
515	M515D	N477	N474			Walking Platfo...	Beam	None	Q345	Typical
516	M516E	N477	N475			Walking Platfo...	Beam	None	Q345	Typical
517	M517B	N480	N475			Walking Platfo...	Beam	None	Q345	Typical
518	M518	N479	N478			RIGID	None	None	RIGID	Typical
519	M519B	N474	N478			RIGID	None	None	RIGID	Typical
520	M520C	N480	N481			RIGID	None	None	RIGID	Typical
521	M521	N475	N479			RIGID	None	None	RIGID	Typical
522	MP12	N469B	N471B			Mount Pipe	Column	Pipe	Q235-GB	Typical
523	M523B	N485	N497			RIGID	None	None	RIGID	Typical
524	M524B	N487	N488			RIGID	None	None	RIGID	Typical
525	M525B	N487	N492			Walking Platfo...	Beam	None	Q345	Typical
526	M526	N489	N495			Walking Platfo...	Beam	None	Q345	Typical
527	M527	N487	N490		120	Walking Platfo...	Beam	None	Q345	Typical
528	M528	N491	N490			RIGID	None	None	RIGID	Typical
529	M529	N492	N489			Walking Platfo...	Beam	None	Q345	Typical
530	M530B	N492	N490			Walking Platfo...	Beam	None	Q345	Typical
531	M531B	N495	N490			Walking Platfo...	Beam	None	Q345	Typical
532	M532B	N494	N493			RIGID	None	None	RIGID	Typical
533	M533B	N489	N493			RIGID	None	None	RIGID	Typical
534	M534B	N495	N496			RIGID	None	None	RIGID	Typical
535	M535B	N490	N494			RIGID	None	None	RIGID	Typical
536	MP9	N484	N486			Mount Pipe	Column	Pipe	Q235-GB	Typical
537	M537A	N499A	N511			RIGID	None	None	RIGID	Typical
538	M538A	N501A	N502A			RIGID	None	None	RIGID	Typical
539	M539A	N501A	N506A			Walking Platfo...	Beam	None	Q345	Typical
540	M540A	N503A	N509A			Walking Platfo...	Beam	None	Q345	Typical
541	M541	N501A	N504		120	Walking Platfo...	Beam	None	Q345	Typical
542	M542	N505A	N504			RIGID	None	None	RIGID	Typical
543	M543	N506A	N503A			Walking Platfo...	Beam	None	Q345	Typical
544	M544	N506A	N504			Walking Platfo...	Beam	None	Q345	Typical
545	M545	N509A	N504			Walking Platfo...	Beam	None	Q345	Typical
546	M546	N508	N507A			RIGID	None	None	RIGID	Typical
547	M547	N503A	N507A			RIGID	None	None	RIGID	Typical
548	M548	N509A	N510			RIGID	None	None	RIGID	Typical
549	M549	N504	N508			RIGID	None	None	RIGID	Typical
550	MP8	N498	N500A			Mount Pipe	Column	Pipe	Q235-GB	Typical
551	M551	N513	N525			RIGID	None	None	RIGID	Typical
552	M552	N515	N516			RIGID	None	None	RIGID	Typical
553	M553	N515	N520			Walking Platfo...	Beam	None	Q345	Typical
554	M554	N517	N523			Walking Platfo...	Beam	None	Q345	Typical
555	M555	N515	N518		120	Walking Platfo...	Beam	None	Q345	Typical
556	M556	N519	N518			RIGID	None	None	RIGID	Typical
557	M557	N520	N517			Walking Platfo...	Beam	None	Q345	Typical
558	M558	N520	N518			Walking Platfo...	Beam	None	Q345	Typical
559	M559	N523	N518			Walking Platfo...	Beam	None	Q345	Typical
560	M560A	N522	N521			RIGID	None	None	RIGID	Typical
561	M561A	N517	N521			RIGID	None	None	RIGID	Typical
562	M562A	N523	N524			RIGID	None	None	RIGID	Typical
563	M563A	N518	N522			RIGID	None	None	RIGID	Typical
564	MP7	N512	N514			Mount Pipe	Column	Pipe	Q235-GB	Typical



Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		273	615.7	0
3	Total General		273	615.7	0
4					
5	Hot Rolled Steel				
6	Q235-GB	HSS4X3X4	3	152.8	.126
7	Q235-GB	PIPE 2.5	18	2250	1.027
8	Q235-GB	PIPE 2.0	3	108	.031
9	Q345	1/2" x 4"	21	207	.117
10	Q345	12X1.5	3	432	.136
11	Q345	3/8" x 1"	156	1133.7	.121
12	Q345	3/8" x 2 3/8"	18	242.4	.061
13	Q345	3/8" x 3"	6	43.6	.014
14	Q345	3/8" x 3/4"	9	52.3	.004
15	Q345	3/8" x 4"	21	209.4	.089
16	Q345	3/8" x 5/8"	6	24.7	.002
17	Q345	3/8" x 7/8"	9	64	.006
18	Q345	L2x2x2	6	110.4	.015
19	Q345	L3X3X6	12	381.6	.228
20	Total HR Steel		291	5411.7	1.979

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
1	Self Weight	DL		-1			33	12	
2	Wind Load AZI 0	WLZ					66		
3	Wind Load AZI 30	None					66		
4	Wind Load AZI 60	None					66		
5	Wind Load AZI 90	WLX					66		
6	Wind Load AZI 120	None					66		
7	Wind Load AZI 150	None					66		
8	Wind Load AZI 180	None					66		
9	Wind Load AZI 210	None					66		
10	Wind Load AZI 240	None					66		
11	Wind Load AZI 270	None					66		
12	Wind Load AZI 300	None					66		
13	Wind Load AZI 330	None					66		
14	Distr. Wind Load Z	WLZ						564	
15	Distr. Wind Load X	WLX						564	
16	Ice Weight	OL1					33	564	12
17	Ice Wind Load AZI 0	OL2					66		
18	Ice Wind Load AZI 30	None					66		
19	Ice Wind Load AZI 60	None					66		
20	Ice Wind Load AZI 90	OL3					66		
21	Ice Wind Load AZI 120	None					66		
22	Ice Wind Load AZI 150	None					66		
23	Ice Wind Load AZI 180	None					66		
24	Ice Wind Load AZI 210	None					66		
25	Ice Wind Load AZI 240	None					66		
26	Ice Wind Load AZI 270	None					66		
27	Ice Wind Load AZI 300	None					66		
28	Ice Wind Load AZI 330	None					66		
29	Distr. Ice Wind Load Z	OL2						564	
30	Distr. Ice Wind Load X	OL3						564	
31	Seismic Load Z	ELZ			-307		33		



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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
32	Seismic Load X	ELX	- .307				33		
33	Service Live Loads	LL				1			
34	Maintenance Load 1	LL				1			
35	Maintenance Load 2	LL				1			
36	Maintenance Load 3	LL				1			
37	Maintenance Load 4	LL				1			
38	Maintenance Load 5	LL				1			
39	Maintenance Load 6	LL				1			
40	Maintenance Load 7	LL				1			
41	Maintenance Load 8	LL				1			
42	Maintenance Load 9	LL				1			
43	Maintenance Load 10	LL				1			
44	Maintenance Load 11	LL				1			
45	Maintenance Load 12	LL				1			
46	Maintenance Load 13	LL				1			
47	Maintenance Load 14	LL				1			
48	Maintenance Load 15	LL				1			
49	BLC 1 Transient Area..	None						529	
50	BLC 16 Transient Are..	None						529	

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	1.4DL	Yes	Y		1	1.4									
2	1.2DL + 1...	Yes	Y		1	1.2	2	1	14	1	15				
3	1.2DL + 1...	Yes	Y		1	1.2	3	1	14	.866	15	.5			
4	1.2DL + 1...	Yes	Y		1	1.2	4	1	14	.5	15	.866			
5	1.2DL + 1...	Yes	Y		1	1.2	5	1	14		15	1			
6	1.2DL + 1...	Yes	Y		1	1.2	6	1	14	-.5	15	.866			
7	1.2DL + 1...	Yes	Y		1	1.2	7	1	14	-.866	15	.5			
8	1.2DL + 1...	Yes	Y		1	1.2	8	1	14	-1	15				
9	1.2DL + 1...	Yes	Y		1	1.2	9	1	14	-.866	15	-.5			
10	1.2DL + 1...	Yes	Y		1	1.2	10	1	14	-.5	15	-.866			
11	1.2DL + 1...	Yes	Y		1	1.2	11	1	14		15	-1			
12	1.2DL + 1...	Yes	Y		1	1.2	12	1	14	.5	15	-.866			
13	1.2DL + 1...	Yes	Y		1	1.2	13	1	14	.866	15	-.5			
14	0.9DL + 1...	Yes	Y		1	.9	2	1	14	1	15				
15	0.9DL + 1...	Yes	Y		1	.9	3	1	14	.866	15	.5			
16	0.9DL + 1...	Yes	Y		1	.9	4	1	14	.5	15	.866			
17	0.9DL + 1...	Yes	Y		1	.9	5	1	14		15	1			
18	0.9DL + 1...	Yes	Y		1	.9	6	1	14	-.5	15	.866			
19	0.9DL + 1...	Yes	Y		1	.9	7	1	14	-.866	15	.5			
20	0.9DL + 1...	Yes	Y		1	.9	8	1	14	-1	15				
21	0.9DL + 1...	Yes	Y		1	.9	9	1	14	-.866	15	-.5			
22	0.9DL + 1...	Yes	Y		1	.9	10	1	14	-.5	15	-.866			
23	0.9DL + 1...	Yes	Y		1	.9	11	1	14		15	-1			
24	0.9DL + 1...	Yes	Y		1	.9	12	1	14	.5	15	-.866			
25	0.9DL + 1...	Yes	Y		1	.9	13	1	14	.866	15	-.5			
26	1.2D + 1.0...	Yes	Y		1	1.2	16	1							
27	1.2D + 1.0...	Yes	Y		1	1.2	16	1	17	1	29	1	30		
28	1.2D + 1.0...	Yes	Y		1	1.2	16	1	18	1	29	.866	30	.5	
29	1.2D + 1.0...	Yes	Y		1	1.2	16	1	19	1	29	.5	30	.866	
30	1.2D + 1.0...	Yes	Y		1	1.2	16	1	20	1	29		30	1	
31	1.2D + 1.0...	Yes	Y		1	1.2	16	1	21	1	29	-.5	30	.866	
32	1.2D + 1.0...	Yes	Y		1	1.2	16	1	22	1	29	-.866	30	.5	
33	1.2D + 1.0...	Yes	Y		1	1.2	16	1	23	1	29	-1	30		



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 Designer : AT
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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.
34	1.2D + 1.0..	Yes	Y		1	1.2	16	1	24	1	29	-.866	30	-.5
35	1.2D + 1.0..	Yes	Y		1	1.2	16	1	25	1	29	-.5	30	-.866
36	1.2D + 1.0..	Yes	Y		1	1.2	16	1	26	1	29		30	-.1
37	1.2D + 1.0..	Yes	Y		1	1.2	16	1	27	1	29	.5	30	-.866
38	1.2D + 1.0..	Yes	Y		1	1.2	16	1	28	1	29	.866	30	-.5
39	(1.2 + 0.2...	Yes	Y		1	1.241	31	1	32					
40	(1.2 + 0.2...	Yes	Y		1	1.241	31	.866	32	.5				
41	(1.2 + 0.2...	Yes	Y		1	1.241	31	.5	32	.866				
42	(1.2 + 0.2...	Yes	Y		1	1.241	31		32	1				
43	(1.2 + 0.2...	Yes	Y		1	1.241	31	-.5	32	.866				
44	(1.2 + 0.2...	Yes	Y		1	1.241	31	-.866	32	.5				
45	(1.2 + 0.2...	Yes	Y		1	1.241	31	-.1	32					
46	(1.2 + 0.2...	Yes	Y		1	1.241	31	-.866	32	-.5				
47	(1.2 + 0.2...	Yes	Y		1	1.241	31	-.5	32	-.866				
48	(1.2 + 0.2...	Yes	Y		1	1.241	31		32	-.1				
49	(1.2 + 0.2...	Yes	Y		1	1.241	31	.5	32	-.866				
50	(1.2 + 0.2...	Yes	Y		1	1.241	31	.866	32	-.5				
51	(0.9 - 0.2S..	Yes	Y		1	.859	31	1	32					
52	(0.9 - 0.2S..	Yes	Y		1	.859	31	.866	32	.5				
53	(0.9 - 0.2S..	Yes	Y		1	.859	31	.5	32	.866				
54	(0.9 - 0.2S..	Yes	Y		1	.859	31		32	1				
55	(0.9 - 0.2S..	Yes	Y		1	.859	31	-.5	32	.866				
56	(0.9 - 0.2S..	Yes	Y		1	.859	31	-.866	32	.5				
57	(0.9 - 0.2S..	Yes	Y		1	.859	31	-.1	32					
58	(0.9 - 0.2S..	Yes	Y		1	.859	31	-.866	32	-.5				
59	(0.9 - 0.2S..	Yes	Y		1	.859	31	-.5	32	-.866				
60	(0.9 - 0.2S..	Yes	Y		1	.859	31		32	-.1				
61	(0.9 - 0.2S..	Yes	Y		1	.859	31	.5	32	-.866				
62	(0.9 - 0.2S..	Yes	Y		1	.859	31	.866	32	-.5				
63	1.0DL + 1...	Yes	Y		1	1	2	.263	14	.263	15		33	1.5
64	1.0DL + 1...	Yes	Y		1	1	3	.263	14	.228	15	.131	33	1.5
65	1.0DL + 1...	Yes	Y		1	1	4	.263	14	.131	15	.228	33	1.5
66	1.0DL + 1...	Yes	Y		1	1	5	.263	14		15	.263	33	1.5
67	1.0DL + 1...	Yes	Y		1	1	6	.263	14	-.131	15	.228	33	1.5
68	1.0DL + 1...	Yes	Y		1	1	7	.263	14	-.228	15	.131	33	1.5
69	1.0DL + 1...	Yes	Y		1	1	8	.263	14	-.263	15		33	1.5
70	1.0DL + 1...	Yes	Y		1	1	9	.263	14	-.228	15	-.131	33	1.5
71	1.0DL + 1...	Yes	Y		1	1	10	.263	14	-.131	15	-.228	33	1.5
72	1.0DL + 1...	Yes	Y		1	1	11	.263	14		15	-.263	33	1.5
73	1.0DL + 1...	Yes	Y		1	1	12	.263	14	.131	15	-.228	33	1.5
74	1.0DL + 1...	Yes	Y		1	1	13	.263	14	.228	15	-.131	33	1.5
75	1.2DL + 1...	Yes	Y		1	1.2	33	1.5						
76	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	2	.066	14	.066	15	
77	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	3	.066	14	.057	15	.033
78	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	4	.066	14	.033	15	.057
79	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	5	.066	14		15	.066
80	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	6	.066	14	-.033	15	.057
81	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	7	.066	14	-.057	15	.033
82	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	8	.066	14	-.066	15	
83	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	9	.066	14	-.057	15	-.033
84	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	10	.066	14	-.033	15	-.057
85	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	11	.066	14		15	-.066
86	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	12	.066	14	.033	15	-.057
87	1.2DL + 1...	Yes	Y		1	1.2	34	1.5	13	.066	14	.057	15	-.033
88	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	2	.066	14	.066	15	
89	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	3	.066	14	.057	15	.033
90	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	4	.066	14	.033	15	.057



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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.
91	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	5	.066	14		15 .066
92	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	6	.066	14	-.033	15 .057
93	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	7	.066	14	-.057	15 .033
94	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	8	.066	14	-.066	15
95	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	9	.066	14	-.057	15 -.033
96	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	10	.066	14	-.033	15 -.057
97	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	11	.066	14		15 -.066
98	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	12	.066	14	.033	15 -.057
99	1.2DL + 1...	Yes	Y		1	1.2	35	1.5	13	.066	14	.057	15 -.033
100	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	2	.066	14	.066	15
101	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	3	.066	14	.057	15 .033
102	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	4	.066	14	.033	15 .057
103	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	5	.066	14		15 .066
104	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	6	.066	14	-.033	15 .057
105	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	7	.066	14	-.057	15 .033
106	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	8	.066	14	-.066	15
107	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	9	.066	14	-.057	15 -.033
108	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	10	.066	14	-.033	15 -.057
109	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	11	.066	14		15 -.066
110	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	12	.066	14	.033	15 -.057
111	1.2DL + 1...	Yes	Y		1	1.2	36	1.5	13	.066	14	.057	15 -.033
112	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	2	.066	14	.066	15
113	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	3	.066	14	.057	15 .033
114	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	4	.066	14	.033	15 .057
115	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	5	.066	14		15 .066
116	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	6	.066	14	-.033	15 .057
117	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	7	.066	14	-.057	15 .033
118	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	8	.066	14	-.066	15
119	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	9	.066	14	-.057	15 -.033
120	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	10	.066	14	-.033	15 -.057
121	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	11	.066	14		15 -.066
122	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	12	.066	14	.033	15 -.057
123	1.2DL + 1...	Yes	Y		1	1.2	37	1.5	13	.066	14	.057	15 -.033
124	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	2	.066	14	.066	15
125	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	3	.066	14	.057	15 .033
126	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	4	.066	14	.033	15 .057
127	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	5	.066	14		15 .066
128	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	6	.066	14	-.033	15 .057
129	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	7	.066	14	-.057	15 .033
130	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	8	.066	14	-.066	15
131	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	9	.066	14	-.057	15 -.033
132	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	10	.066	14	-.033	15 -.057
133	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	11	.066	14		15 -.066
134	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	12	.066	14	.033	15 -.057
135	1.2DL + 1...	Yes	Y		1	1.2	38	1.5	13	.066	14	.057	15 -.033
136	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	2	.066	14	.066	15
137	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	3	.066	14	.057	15 .033
138	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	4	.066	14	.033	15 .057
139	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	5	.066	14		15 .066
140	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	6	.066	14	-.033	15 .057
141	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	7	.066	14	-.057	15 .033
142	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	8	.066	14	-.066	15
143	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	9	.066	14	-.057	15 -.033
144	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	10	.066	14	-.033	15 -.057
145	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	11	.066	14		15 -.066
146	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	12	.066	14	.033	15 -.057
147	1.2DL + 1...	Yes	Y		1	1.2	39	1.5	13	.066	14	.057	15 -.033



Company : Infinigy Engineering
 Designer : AT
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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.
148	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	2	.066	14	.066	15	
149	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	3	.066	14	.057	15	.033
150	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	4	.066	14	.033	15	.057
151	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	5	.066	14		15	.066
152	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	6	.066	14	-.033	15	.057
153	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	7	.066	14	-.057	15	.033
154	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	8	.066	14	-.066	15	
155	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	9	.066	14	-.057	15	-.033
156	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	10	.066	14	-.033	15	-.057
157	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	11	.066	14		15	-.066
158	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	12	.066	14	.033	15	-.057
159	1.2DL + 1...	Yes	Y		1	1.2	40	1.5	13	.066	14	.057	15	-.033
160	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	2	.066	14	.066	15	
161	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	3	.066	14	.057	15	.033
162	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	4	.066	14	.033	15	.057
163	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	5	.066	14		15	.066
164	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	6	.066	14	-.033	15	.057
165	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	7	.066	14	-.057	15	.033
166	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	8	.066	14	-.066	15	
167	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	9	.066	14	-.057	15	-.033
168	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	10	.066	14	-.033	15	-.057
169	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	11	.066	14		15	-.066
170	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	12	.066	14	.033	15	-.057
171	1.2DL + 1...	Yes	Y		1	1.2	41	1.5	13	.066	14	.057	15	-.033
172	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	2	.066	14	.066	15	
173	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	3	.066	14	.057	15	.033
174	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	4	.066	14	.033	15	.057
175	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	5	.066	14		15	.066
176	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	6	.066	14	-.033	15	.057
177	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	7	.066	14	-.057	15	.033
178	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	8	.066	14	-.066	15	
179	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	9	.066	14	-.057	15	-.033
180	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	10	.066	14	-.033	15	-.057
181	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	11	.066	14		15	-.066
182	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	12	.066	14	.033	15	-.057
183	1.2DL + 1...	Yes	Y		1	1.2	42	1.5	13	.066	14	.057	15	-.033
184	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	2	.066	14	.066	15	
185	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	3	.066	14	.057	15	.033
186	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	4	.066	14	.033	15	.057
187	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	5	.066	14		15	.066
188	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	6	.066	14	-.033	15	.057
189	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	7	.066	14	-.057	15	.033
190	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	8	.066	14	-.066	15	
191	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	9	.066	14	-.057	15	-.033
192	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	10	.066	14	-.033	15	-.057
193	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	11	.066	14		15	-.066
194	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	12	.066	14	.033	15	-.057
195	1.2DL + 1...	Yes	Y		1	1.2	43	1.5	13	.066	14	.057	15	-.033
196	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	2	.066	14	.066	15	
197	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	3	.066	14	.057	15	.033
198	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	4	.066	14	.033	15	.057
199	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	5	.066	14		15	.066
200	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	6	.066	14	-.033	15	.057
201	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	7	.066	14	-.057	15	.033
202	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	8	.066	14	-.066	15	
203	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	9	.066	14	-.057	15	-.033
204	1.2DL + 1...	Yes	Y		1	1.2	44	1.5	10	.066	14	-.033	15	-.057



Envelope Joint Reactions (Continued)

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC		
3	N195	max	211.372	17	172.319	33	-4923.885	14	-36.867	14	643.586	12	12.098	24
4		min	-223.533	23	36.868	14	-22296.344	33	-166.577	33	-621.122	18	-12.347	6
5	N242	max	18572.953	30	5315.662	37	-934.248	14	120.143	31	2497.452	3	202.903	31
6		min	2616.684	23	1126.22	18	-10820.724	33	16.812	24	-2477.372	21	32.243	24
7	N243	max	-4628.931	18	186.322	37	11853.222	37	87.906	38	710.623	15	150.483	36
8		min	-20549.733	37	47.113	19	2577.574	18	10.223	21	-733.04	9	29.705	15
9	N290	max	-677.893	16	3631.208	29	-286.763	15	61.676	34	513.63	11	-11.781	16
10		min	-10803.183	35	682.893	22	-6459.911	33	3.412	17	-416.659	17	-129.167	35
11	N291	max	12822.494	29	143.613	29	7505.488	29	52.128	29	241.28	15	-15.92	22
12		min	2415.966	22	27.663	23	1434.105	22	5.412	23	-359.787	9	-89.889	29
13	Totals:	max	5980.193	5	14002.795	36	6193.569	14						
14		min	-5980.149	23	3330.177	53	-6193.576	8						

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

Member	Shape	Code Check	Loc.....	Shea.....	Loc.....	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Eqn
1	M473 12X1.5	.738	72 38	.032	106... z	36	811.19	36093.6438.878	1090....	H1-1b
2	M248 3/8" x 1"	.697	11 37	.048	11 y	9	9657....	12150 94.921	253.125 ...	H1-1a
3	M251 3/8" x 1"	.696	0 37	.050	15... y	9	7689....	12150 94.921	253.125 ...	H1-1a
4	M253 3/8" x 1"	.691	15... 38	.037	15... y	9	7850....	12150 94.921	253.125 ...	H1-1a
5	M247 3/8" x 1"	.684	11... 37	.080	11... y	3	9459....	12150 94.921	253.125 ...	H1-1a
6	M316A 3/8" x 1"	.648	11 32	.043	11 y	6	9657....	12150 94.921	253.125 ...	H1-1a
7	M315A 3/8" x 1"	.637	11... 32	.072	11... y	6	9459....	12150 94.921	253.125 ...	H1-1a
8	M319A 3/8" x 1"	.627	0 33	.047	15... y	12	7689....	12150 94.921	253.125 ...	H1-1a
9	M321A 3/8" x 1"	.625	15... 32	.032	15... y	6	7850....	12150 94.921	253.125 ...	H1-1a
10	M246 3/8" x 4"	.609	0 34	.052	0 y	21	38628...	48600 379.688	4050 ...	H1-1a
11	M314A 3/8" x 4"	.572	0 36	.044	0 y	18	38628...	48600 379.688	4050 ...	H1-1a
12	M256 1/2" x 4"	.550	0 3	.068	0 y	3	56947...	64800 675	5400 ...	H1-1b
13	M534 12X1.5	.543	106.. 28	.021	106... z	28	811.19	36093.6421.837	10729.8 ...	H1-1a
14	M412 12X1.5	.540	72 33	.025	106... z	32	811.19	36093.6438.878	1087....	H1-1b
15	M74B L3X3X6	.535	0 27	.138	28.63 z	37	68029...	68364 2307....	5322....	H2-1
16	M245 3/8" x 4"	.527	11.5 34	.082	11.5 y	3	37811...	48600 379.688	4050 ...	H1-1a
17	M75B L3X3X6	.517	0 35	.128	28.63 y	38	68029...	68364 2307....	5322....	H2-1
18	M252 3/8" x 1"	.506	10... 37	.036	10... y	3	9876....	12150 94.921	253.125 ...	H1-1a
19	M313A 3/8" x 4"	.496	11.5 36	.073	11.5 y	12	37811...	48600 379.688	4050 ...	H1-1a
20	M264 3/8" x 1"	.484	0 37	.200	2.635 y	36	10381...	12150 94.921	253.125 ...	H1-1b
21	M332 3/8" x 1"	.479	0 33	.193	2.635 y	33	10381...	12150 94.921	253.125 ...	H1-1b
22	M324A 3/8" x 1"	.474	15... 29	.017	0 y	9	7850....	12150 94.921	253.125 ...	H1-1a
23	M322 3/8" x 1"	.470	0 30	.045	0 y	9	7689....	12150 94.921	253.125 ...	H1-1a
24	M324 1/2" x 4"	.461	0 12	.053	0 y	5	56947...	64800 675	5400 ...	H1-1b
25	M320A 3/8" x 1"	.457	10... 33	.030	10... y	6	9876....	12150 94.921	253.125 ...	H1-1a
26	M319 3/8" x 1"	.455	11 29	.021	11 y	5	9657....	12150 94.921	253.125 ...	H1-1a
27	M61 3/8" x 2 3...	.444	0 27	.051	0 y	27	26950...	28856... 225.439	1427....	H1-1b
28	M318 3/8" x 1"	.439	11... 29	.051	11... y	3	9459....	12150 94.921	253.125 ...	H1-1a
29	M227 3/8" x 1"	.427	8.77 137	.049	8.771 y	6	10499...	12150 94.921	253.125 ...	H1-1a
30	M218 1/2" x 4"	.424	.227 28	.063	8.619 y	9	59858...	64800 675	5400 ...	H1-1b
31	M34A 3/8" x 2 3...	.423	0 38	.050	0 y	27	26950...	28856... 225.439	1427....	H1-1b
32	M33 3/8" x 2 3...	.422	0 36	.053	0 y	36	26950...	28856... 225.439	1427....	H1-1b
33	M62 3/8" x 2 3...	.417	0 27	.072	0 y	33	26950...	28856... 225.439	1427....	H1-1b
34	M317 3/8" x 4"	.413	0 27	.017	11 y	5	38628...	48600 379.688	4050 ...	H1-1a
35	M125 L3X3X6	.406	0 28	.087	28.63 y	30	68029...	68364 2307....	5322....	H2-1
36	M75 L3X3X6	.398	0 35	.100	19... y	36	68029...	68364 2307....	5322....	H2-1
37	M76 L3X3X6	.395	0 32	.099	28.63 y	33	68029...	68364 2307....	5322....	H2-1
38	M231 3/8" x 1"	.391	8.633 34	.017	0 y	35	10547...	12150 94.921	253.125 ...	H1-1a
39	M294 3/8" x 1"	.391	8.77 133	.055	8.771 y	9	10499...	12150 94.921	253.125 ...	H1-1a
40	M124 L3X3X6	.384	0 30	.110	19... y	32	68029...	68364 2307....	5322....	H2-1



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

Member	Shape	Code Check	Loc.....	Shea.....	Loc.....	phi*Pn.....	phi*Pn.....	phi*M.....	phi*M.....	Eqn				
41	M60	3/8" x 2 3/4"	.383	0	37	.045	0	y	35	26950...28856...225.439	1427....	H1-1b		
42	M250	3/8" x 1"	.382	11	27	.034	11	y	38	9657....	12150	94.921	253.125	H1-1b
43	M31	3/8" x 2 3/4"	.371	0	37	.036	0	y	28	26950...28856...225.439	1427....	H1-1b		
44	M323A	3/8" x 1"	.361	10....	28	.013	0	y	7	9876....	12150	94.921	253.125	H1-1a
45	M285	1/2" x 4"	.358	.227	36	.054	8.619	y	11	59858...64800	675	5400	H1-1b	
46	M236	3/8" x 3/4"	.357	0	36	.028	7.145	y	3	8271....	9112.5	71.191	142.382	H1-1a
47	M237	3/8" x 3/4"	.355	4.437	37	.031	0	y	3	8778....	9112.5	71.191	142.382	H1-1a
48	M82	3/8" x 2 3/4"	.355	0	33	.043	0	y	31	26950...28856...225.439	1427....	H1-1b		
49	M318A	3/8" x 1"	.351	11	31	.030	11	y	35	9657....	12150	94.921	253.125	H1-1b
50	M221	3/8" x 4"	.348	8.906	37	.048	8.906	y	9	41807...48600	379.688	4013	H1-1a	
51	M316	3/8" x 4"	.347	11.5	30	.045	0	y	9	37811...48600	379.688	4050	H1-1a	
52	M302A	3/8" x 1"	.344	8.633	38	.020	8.633	y	12	10547...12150	94.921	253.125	H1-1a	
53	M85	3/8" x 2 3/4"	.343	0	34	.041	0	y	32	26950...28856...225.439	1427....	H1-1b		
54	M298	3/8" x 1"	.341	8.633	36	.016	8.633	y	3	10547...12150	94.921	253.125	H1-1a	
55	M84	3/8" x 2 3/4"	.330	0	34	.039	0	y	34	26950...28856...225.439	1427....	H1-1b		
56	M288	3/8" x 4"	.330	8.906	33	.051	0	y	3	41807...48600	379.688	4050	H1-1a	
57	M81	3/8" x 2 3/4"	.324	0	31	.040	0	y	31	26950...28856...225.439	1427....	H1-1b		
58	M45A	L3X3X6	.322	0	37	.159	34....	z	27	67839...68364	2307....	5322....	H2-1	
59	M130	3/8" x 2 3/4"	.320	0	29	.029	0	y	28	26950...28856...225.439	1427....	H1-1b		
60	MP4	PIPE_2.5	.316	50....	35	.036	50....	8	22373...50715	3596.25	3596.25	H1-1b		
61	M304	3/8" x 3/4"	.316	4.437	33	.027	0	y	11	8778....	9112.5	71.191	142.382	H1-1a
62	M133	3/8" x 2 3/4"	.313	0	31	.039	0	y	31	26950...28856...225.439	1427....	H1-1b		
63	M303	3/8" x 3/4"	.312	0	32	.025	7.145	y	12	8271....	9112.5	71.191	142.382	H1-1a
64	MH2	PIPE_2.5	.302	75	36	.151	142....	34	14558...50715	3596.25	3596.25	H1-1b		
65	M230	3/8" x 1"	.299	12....	36	.037	0	y	9	9176....	12150	94.921	253.125	H1-1a
66	M83	3/8" x 2 3/4"	.299	0	33	.032	0	y	30	26950...28856...225.439	1427....	H1-1b		
67	M68	L3X3X6	.297	0	37	.181	34....	y	35	67839...68364	2307....	5322....	H2-1	
68	M73	L3X3X6	.295	0	33	.123	14....	y	32	67839...68364	2307....	5322....	H2-1	
69	M539	L2x2x2	.294	10....	28	.050	5.086	y	3	12690...15908.4	402.563	867.54	H2-1	
70	M235	3/8" x 7/8"	.293	5.606	38	.031	0	y	3	10015.7	10631...	83.057	193.798	H1-1a
71	M74	L3X3X6	.292	0	33	.143	34....	y	31	67839...68364	2307....	5322....	H2-1	
72	M80	3/8" x 2 3/4"	.290	0	32	.027	0	y	34	26950...28856...225.439	1427....	H1-1b		
73	M134	3/8" x 2 3/4"	.286	0	30	.045	0	y	36	26950...28856...225.439	1427....	H1-1b		
74	M234	3/8" x 7/8"	.279	0	35	.035	8.719	y	3	9202....	10631...	83.057	193.798	H1-1a
75	M225	3/8" x 1"	.275	0	37	.049	5.611	y	34	9013....	12150	94.921	253.125	H1-1b
76	M131	3/8" x 2 3/4"	.275	0	28	.056	0	y	33	26950...28856...225.439	1427....	H1-1b		
77	M286	3/8" x 4"	.275	12....	35	.037	12....	y	12	36054...48600	379.688	4047....	H1-1a	
78	M219	3/8" x 4"	.274	12....	35	.045	12....	y	9	36054...48600	379.688	4050	H1-1a	
79	M335A	3/8" x 1"	.274	0	30	.120	2.635	y	29	10381...12150	94.921	253.125	H1-1b	
80	M220	3/8" x 4"	.273	7.998	36	.045	7.998	y	9	43042...48600	379.688	4050	H1-1a	
81	M289A	1/2" x 4"	.273	.227	33	.060	0	z	38	59858...64800	675	5400	H1-1b	
82	M232	3/8" x 1"	.272	0	34	.050	10....	y	9	9871....	12150	94.921	253.125	H1-1a
83	M132	3/8" x 2 3/4"	.271	0	30	.029	0	y	27	26950...28856...225.439	1427....	H1-1b		
84	MH1	PIPE_2.5	.270	75	32	.206	7.895	27	14558...50715	3596.25	3596.25	H1-1b		
85	M249	3/8" x 1"	.269	11.5	28	.026	11.5	y	...	9453....	12150	94.921	253.125	H1-1b
86	M287	3/8" x 4"	.268	7.998	34	.039	7.998	y	12	43042...48600	379.688	4050	H1-1a	
87	M255	1/2" x 4"	.264	11.5	3	.065	11.5	y	3	56267...64800	675	5400	H1-1b	
88	M538	L2x2x2	.263	10....	81	.051	5.354	y	81	12690...15908.4	402.563	867.54	H2-1	
89	M129	3/8" x 2 3/4"	.259	0	29	.031	0	y	31	26950...28856...225.439	1427....	H1-1b		
90	M540	L2x2x2	.256	10....	5	.042	5.086	z	5	12690...15908.4	402.563	844.628	H2-1	
91	M292	3/8" x 1"	.253	0	33	.045	5.611	y	36	9013....	12150	94.921	253.125	H1-1b
92	M228	3/8" x 1"	.249	0	37	.031	10....	y	3	9876....	12150	94.921	253.125	H1-1a
93	MP7	PIPE_2.5	.249	50....	27	.026	50....	12	22373...50715	3596.25	3596.25	H1-1b		
94	MP2	PIPE_2.5	.247	50....	32	.031	50....	8	22373...50715	3596.25	3596.25	H1-1b		
95	M233	3/8" x 7/8"	.247	6.999	27	.023	0	y	9	9687....	10631...	83.057	193.798	H1-1a
96	M317A	3/8" x 1"	.247	11.5	36	.026	11.5	y	...	9453....	12150	94.921	253.125	H1-1b
97	M321	3/8" x 1"	.244	11	27	.037	11	y	30	9657....	12150	94.921	253.125	H1-1b



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

Member	Shape	Code Check	Loc.....	Shea.....	Loc.....	phi*Pn.....	phi*Pn.....	phi*M.....	phi*M.....	Eqn					
98	M297	3/8" x 1"	.243	12....34	.035	0	y	12	9176....	12150	94.921	253.125	...	H1-1a	
99	M301	3/8" x 7/8"	.243	8.71932	.032	8.719	y	12	9202....	10631...	83.057	193.798	...	H1-1a	
100	M226	3/8" x 1"	.243	7.99837	.039	7.998	y	9	10760...	12150	94.921	253.125	...	H1-1b	
101	MP6	PIPE_2.5	.241	50....4	.038	50....	3	22373...	50715	3596.25	3596.25	...	...	H1-1b
102	M323	1/2" x 4"	.238	11.512	.053	11.5	y	5	56267...	64800	675	5400	...	H1-1b	
103	M301A	3/8" x 1"	.232	12....27	.033	12....	y	9	9176....	12150	94.921	253.125	...	H1-1a	
104	M298A	3/8" x 1"	.231	8.77130	.058	8.771	y	9	10499...	12150	94.921	253.125	...	H1-1b	
105	M307	3/8" x 3/4"	.229	0	.29	.019	7.145	y	38	8271....	9112.5	71.191	142.382	...	H1-1a
106	MP12	PIPE_2.5	.225	47....12	.025	50....	7	22373...	50715	3596.25	3596.25	...	...	H1-1b
107	MP10	PIPE_2.5	.225	47....6	.038	50....	6	22373...	50715	3596.25	3596.25	...	...	H1-1b
108	M293	3/8" x 1"	.224	7.99833	.033	7.998	y	12	10760...	12150	94.921	253.125	...	H1-1b	
109	MP8	PIPE_2.5	.222	47....4	.034	50....	9	22373...	50715	3596.25	3596.25	...	...	H1-1b
110	MH3	PIPE_2.5	.215	75 ...	.191	7.895	36	14558...	50715	3596.25	3596.25	...	...	H1-1b
111	M327A	1/2" x 4"	.215	0	.32	.038	0	y	8	56947...	64800	675	5400	...	H1-1b
112	MP9	PIPE_2.5	.206	50....31	.020	50....	3	22373...	50715	3596.25	3596.25	...	...	H1-1b
113	M222	3/8" x 1"	.194	0	.28	.042	5.493	y	28	9126....	12150	94.921	253.125	...	H1-1b
114	MP11	PIPE_2.5	.184	50....37	.028	50....	11	22373...	50715	3596.25	3596.25	...	...	H1-1b
115	M123	L3X3X6	.183	10....31	.114	34....	y	27	67839...	68364	2307....	5322....	...	H2-1	
116	M302	3/8" x 7/8"	.183	0	.33	.027	0	y	11	10015.7	10631...	83.057	193.798	...	H1-1b*
117	M326A	1/2" x 4"	.183	0	.8	.038	11.5	y	...	56267...	64800	675	5400	...	H1-1b
118	M300	3/8" x 7/8"	.182	0	.33	.021	0	y	11	9687....	10631...	83.057	193.798	...	H1-1b*
119	M122	L3X3X6	.182	0	.29	.129	34....	z	31	67839...	68364	2307....	5322....	...	H2-1
120	M308	3/8" x 3/4"	.180	0	.29	.015	4.437	y	38	8778....	9112.5	71.191	142.382	...	H1-1b*
121	M295	3/8" x 1"	.176	0	.33	.026	0	y	6	9876....	12150	94.921	253.125	...	H1-1b*
122	M320	3/8" x 1"	.173	11.538	.035	11.5	y	38	9453....	12150	94.921	253.125	...	H1-1b	
123	MP3	PIPE_2.5	.172	50....35	.033	50....	6	22373...	50715	3596.25	3596.25	...	...	H1-1b
124	M299A	3/8" x 1"	.172	0	.29	.014	0	y	11	9876....	12150	94.921	253.125	...	H1-1b*
125	M296A	3/8" x 1"	.170	0	.29	.042	5.611	y	38	9013....	12150	94.921	253.125	...	H1-1b
126	M289	3/8" x 1"	.170	0	.36	.040	5.493	y	36	9126....	12150	94.921	253.125	...	H1-1b
127	M299	3/8" x 1"	.158	0	.37	.045	10....	y	12	9871....	12150	94.921	253.125	...	H1-1b
128	M297A	3/8" x 1"	.157	7.99829	.032	7.998	y	38	10760...	12150	94.921	253.125	...	H1-1b	
129	M292A	3/8" x 4"	.156	8.90629	.058	0	y	9	41807...	48600	379.688	4050	...	H1-1b*	
130	MP5	PIPE_2.5	.152	50....35	.016	50....	35	22373...	50715	3596.25	3596.25	...	...	H1-1b
131	M54	HSS4X3...	.151	2.68138	.074	26....	z	35	83040...	91665	8190	10001....	...	H1-1b	
132	M304A	3/8" x 7/8"	.150	6.99938	.019	0	y	13	9687....	10631...	83.057	193.798	...	H1-1b	
133	M303A	3/8" x 1"	.144	0	.38	.039	10....	y	38	9871....	12150	94.921	253.125	...	H1-1b
134	M263	3/8" x 1"	.144	0	.37	.028	6.005	y	34	10373...	12150	94.921	253.125	...	H1-1b
135	MP1	PIPE_2.5	.136	50....31	.019	50....	3	22373...	50715	3596.25	3596.25	...	...	H1-1b
136	M331	3/8" x 1"	.135	0	.33	.026	6.005	y	36	10373...	12150	94.921	253.125	...	H1-1b
137	M306A	3/8" x 7/8"	.134	0	.29	.019	5.606	y	38	10015.7	10631...	83.057	193.798	...	H1-1b*
138	M77	HSS4X3...	.133	2.68132	.064	9.382	z	...	83040...	91665	8190	10001....	...	H1-1b	
139	MP14	PIPE_2.5	.133	50....27	.014	50....	11	22373...	50715	3596.25	3596.25	...	...	H1-1b
140	M268A	3/8" x 4"	.132	0	.9	.038	8.886	y	9	41835...	48600	379.688	4050	...	H1-1b
141	M334	3/8" x 1"	.131	8.88635	.031	8.886	y	12	10459...	12150	94.921	253.125	...	H1-1b	
142	M267A	3/8" x 1"	.129	8.88635	.036	8.886	y	9	10459...	12150	94.921	253.125	...	H1-1b	
143	M290A	3/8" x 4"	.129	0	.38	.023	12....	y	38	36054...	48600	379.688	4050	...	H1-1b
144	M293A	3/8" x 1"	.123	0	.31	.031	5.493	y	38	9126....	12150	94.921	253.125	...	H1-1b
145	MP13	PIPE_2.5	.123	50....27	.031	50....	9	22373...	50715	3596.25	3596.25	...	...	H1-1b
146	M536	L2x2x2	.121	13....37	.009	13....	y	11	11412...	15908.4	402.563	785.577	...	H2-1	
147	M291A	3/8" x 4"	.121	0	.27	.030	0	y	9	43042...	48600	379.688	4050	...	H1-1b
148	MP15	PIPE_2.5	.116	50....	.016	50....	5	22373...	50715	3596.25	3596.25	...	...	H1-1b
149	M126	HSS4X3...	.115	48....33	.050	26....	z	31	83040...	91665	8190	10001....	...	H1-1b	
150	M335	3/8" x 4"	.114	0	.11	.033	8.886	y	12	41835...	48600	379.688	4050	...	H1-1b
151	M216	1/2" x 4"	.111	.32329	.067	0	z	27	55166...	64800	675	5400	...	H1-1b	
152	M305A	3/8" x 7/8"	.110	8.71930	.023	8.719	y	38	9202....	10631...	83.057	193.798	...	H1-1b	
153	M127	3/8" x 3"	.106	7.2616	.094	0	y	28	32932...	36450	283.5	2278.8	...	H1-1b	
154	M535	L2x2x2	.105	26....31	.008	13....	z	8	11412...	15908.4	402.563	800.748	...	H2-1	



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

Member	Shape	Code Check	Loc.....	Shea.....	Loc.....	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Eqn				
155	M224	3/8" x 1"	.104	8.61931	.023	8.619	y ...	10552...	12150	94.921	253.125	...	H1-1b	
156	M239	3/8" x 5/8"	.101	0	37	.023	3.452	y 9	7423....	7593.75	59.327	98.877	...	H1-1b
157	M306	3/8" x 5/8"	.098	0	33	.017	3.452	y 5	7423....	7593.75	59.327	98.877	...	H1-1b
158	M537	L2x2x2	.097	10....	34	.007	13....	z 6	11412...	15908.44	402.563	777.481	...	H2-1
159	M283	1/2" x 4"	.096	5.49329	.056	0	z 37	55166...	64800	675	5400	...	H1-1b	
160	M223	3/8" x 1"	.089	0	28	.014	7.776	y 3	10832...	12150	94.921	253.125	...	H1-1b
161	M334A	3/8" x 1"	.088	0	29	.019	6.005	y 29	10373...	12150	94.921	253.125	...	H1-1b
162	M291	3/8" x 1"	.088	8.61927	.023	8.619	y ...	10552...	12150	94.921	253.125	...	H1-1b	
163	M295A	3/8" x 1"	.086	8.61934	.035	8.619	y 38	10552...	12150	94.921	253.125	...	H1-1b	
164	M74C	3/8" x 3"	.086	0	12	.113	0	y 28	32932...	36450	283.5	2278.8	...	H1-1b
165	M238	3/8" x 3/4"	.085	5.84637	.027	0	y 3	8540....	9112.5	71.191	142.382	...	H1-1b	
166	M339	3/8" x 4"	.083	4.20938	.017	4.209	y ...	41835...	48600	379.688	4050	...	H1-1b	
167	M261	3/8" x 4"	.082	0	9	.032	5.668	y 9	41711...	48600	379.688	4050	...	H1-1b
168	M78	3/8" x 3"	.080	0	3	.098	0	y 30	32932...	36450	283.5	2278.8	...	H1-1b
169	M338	3/8" x 1"	.080	8.88628	.028	8.886	y 38	10459...	12150	94.921	253.125	...	H1-1b	
170	M329	3/8" x 4"	.079	0	11	.023	5.668	y 12	41711...	48600	379.688	4050	...	H1-1b
171	M290	3/8" x 1"	.079	0	36	.012	0	y 12	10832...	12150	94.921	253.125	...	H1-1b
172	M262	1/2" x 4"	.078	0	27	.029	0	y 9	59284...	64800	675	5400	...	H1-1b
173	M66	3/8" x 3"	.076	0	35	.141	0	y 35	32932...	36450	283.5	2278.8	...	H1-1b
174	M305	3/8" x 3/4"	.076	0	32	.024	0	y 12	8540....	9112.5	71.191	142.382	...	H1-1b
175	M266A	3/8" x 1"	.075	0	37	.019	3.892	y 37	10524...	12150	94.921	253.125	...	H1-1b
176	M217	1/2" x 4"	.075	7.7763	.027	0	y 3	60749...	64800	675	5400	...	H1-1b	
177	M333	3/8" x 1"	.072	0	33	.016	3.892	y 36	10524...	12150	94.921	253.125	...	H1-1b
178	M330	1/2" x 4"	.072	0	34	.020	0	y 12	59284...	64800	675	5400	...	H1-1b
179	M128	3/8" x 3"	.072	0	32	.078	0	y 31	32932...	36450	283.5	2278.8	...	H1-1b
180	M309	3/8" x 3/4"	.068	5.84631	.018	0	y 38	8540....	9112.5	71.191	142.382	...	H1-1b	
181	M287A	1/2" x 4"	.068	.32337	.048	0	z 31	55166...	64800	675	5400	...	H1-1b	
182	M240	3/8" x 5/8"	.065	0	37	.005	4.766	y 12	7273....	7593.75	59.327	98.877	...	H1-1b
183	M333A	1/2" x 4"	.063	0	30	.018	6.005	y ...	59284...	64800	675	5400	...	H1-1b
184	M284	1/2" x 4"	.062	7.77612	.023	0	y 12	60749...	64800	675	5400	...	H1-1b	
185	M307A	3/8" x 5/8"	.061	0	34	.004	4.766	y 3	7273....	7593.75	59.327	98.877	...	H1-1b
186	M79	3/8" x 3"	.060	0	32	.070	0	y 34	32932...	36450	283.5	2278.8	...	H1-1b
187	M310	3/8" x 5/8"	.060	0	29	.014	3.452	y 38	7423....	7593.75	59.327	98.877	...	H1-1b
188	M332B	3/8" x 4"	.058	0	38	.017	0	y 9	41711...	48600	379.688	4050	...	H1-1b
189	M265A	1/2" x 4"	.056	0	33	.011	4.121	y 12	59770...	64800	675	5400	...	H1-1b
190	M294A	3/8" x 1"	.055	0	33	.011	7.776	y 30	10832...	12150	94.921	253.125	...	H1-1b
191	M288A	1/2" x 4"	.049	7.7768	.015	0	y ...	60749...	64800	675	5400	...	H1-1b	
192	M332A	1/2" x 4"	.048	0	37	.012	8.699	y 3	59770...	64800	675	5400	...	H1-1b
193	M337	3/8" x 1"	.048	0	30	.013	3.892	y 30	10524...	12150	94.921	253.125	...	H1-1b
194	M311	3/8" x 5/8"	.042	0	29	.005	4.766	y 30	7273....	7593.75	59.327	98.877	...	H1-1b
195	M336	1/2" x 4"	.042	0	31	.013	8.699	y 6	59770...	64800	675	5400	...	H1-1b
196	M514A	3/8" x 1"	.019	0	92	.001	4.125	y 89	11255...	12150	94.921	253.125	...	H1-1b
197	M527A	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
198	M527	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
199	M555	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
200	M493	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
201	M432	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
202	M513A	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
203	M489	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
204	M541	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
205	M371	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
206	M428	3/8" x 1"	.019	0	80	.001	4.125	y 77	11255...	12150	94.921	253.125	...	H1-1b
207	M367A	3/8" x 1"	.019	0	...	.001	4.125	y ...	11255...	12150	94.921	253.125	...	H1-1b
208	M497	3/8" x 1"	.014	0	...	.002	5.178	y ...	10771...	12150	94.921	253.125	...	H1-1b
209	M483A	3/8" x 1"	.014	0	...	.002	5.178	y ...	10771...	12150	94.921	253.125	...	H1-1b
210	M511B	3/8" x 1"	.014	0	...	.002	5.178	y ...	10771...	12150	94.921	253.125	...	H1-1b
211	M418	3/8" x 1"	.014	0	79	.002	5.178	y 85	10771...	12150	94.921	253.125	...	H1-1b



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

Mar 22, 2022
 6:35 PM
 Checked By: _____

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

Member	Shape	Code Check	Loc.....	Shea.....	Loc.....	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Eqn					
212	M422	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
213	M511	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
214	M525A	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
215	M510A	3/8" x 1"	.014	0	91	.002	5.178	y	97	10771...	12150	94.921	253.125	...	H1-1b
216	M361	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
217	M357	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
218	M539A	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
219	M479	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
220	M483	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
221	M525B	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
222	M553	3/8" x 1"	.014	0	...	.002	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
223	M513B	3/8" x 1"	.014	0	...	.000	4.125	y	15	11255...	12150	94.921	253.125	...	H1-1b
224	M485	3/8" x 1"	.014	0	...	.000	4.125	y	15	11255...	12150	94.921	253.125	...	H1-1b
225	M499A	3/8" x 1"	.014	0	...	.000	4.125	y	15	11255...	12150	94.921	253.125	...	H1-1b
226	M438	3/8" x 1"	.006	5.178	85	.001	5.178	z	17	10771...	12150	94.921	253.125	...	H1-1b
227	M442	3/8" x 1"	.006	5.178	...	.001	5.178	z	17	10771...	12150	94.921	253.125	...	H1-1b
228	M515A	3/8" x 1"	.006	5.178	...	.001	5.178	z	17	10771...	12150	94.921	253.125	...	H1-1b
229	M377	3/8" x 1"	.006	5.178	...	.001	5.178	z	19	10771...	12150	94.921	253.125	...	H1-1b
230	M529A	3/8" x 1"	.006	5.178	...	.001	5.178	z	17	10771...	12150	94.921	253.125	...	H1-1b
231	M381	3/8" x 1"	.006	5.178	...	.001	5.178	z	19	10771...	12150	94.921	253.125	...	H1-1b
232	M518A	3/8" x 1"	.006	5.178	97	.001	5.178	z	17	10771...	12150	94.921	253.125	...	H1-1b
233	M543	3/8" x 1"	.006	5.178	...	.001	5.178	z	19	10771...	12150	94.921	253.125	...	H1-1b
234	M499	3/8" x 1"	.006	5.178	...	.001	5.178	z	15	10771...	12150	94.921	253.125	...	H1-1b
235	M503	3/8" x 1"	.006	5.178	...	.001	5.178	z	15	10771...	12150	94.921	253.125	...	H1-1b
236	M529	3/8" x 1"	.006	5.178	...	.001	5.178	z	19	10771...	12150	94.921	253.125	...	H1-1b
237	M557	3/8" x 1"	.006	5.178	...	.001	5.178	z	19	10771...	12150	94.921	253.125	...	H1-1b
238	M501	3/8" x 1"	.006	5.178	...	.001	5.178	z	15	10771...	12150	94.921	253.125	...	H1-1b
239	M515D	3/8" x 1"	.006	5.178	...	.001	5.178	z	15	10771...	12150	94.921	253.125	...	H1-1b
240	M487	3/8" x 1"	.006	5.178	...	.001	5.178	z	15	10771...	12150	94.921	253.125	...	H1-1b
241	M502	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
242	M443	3/8" x 1"	.006	0	85	.001	5.178	y	85	10771...	12150	94.921	253.125	...	H1-1b
243	M447	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
244	M386	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
245	M516D	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
246	M516E	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
247	M488A	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
248	M382	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
249	M530A	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
250	M544	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
251	M520A	3/8" x 1"	.006	0	97	.001	5.178	y	97	10771...	12150	94.921	253.125	...	H1-1b
252	M508	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
253	M504	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
254	M530B	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
255	M558	3/8" x 1"	.006	0	...	.001	5.178	y	...	10771...	12150	94.921	253.125	...	H1-1b
256	M520	PIPE 2.0	.005	18	8	.001	18	8	28843...	32130	1871....	1871....	...	H1-1b	
257	M560	PIPE 2.0	.005	18	4	.001	18	5	28843...	32130	1871....	1871....	...	H1-1b	
258	M562	PIPE 2.0	.005	18	2	.001	18	2	28843...	32130	1871....	1871....	...	H1-1b	
259	M322A	3/8" x 1"	.004	0	11	.000	10....	y	21	9876....	12150	94.921	253.125	...	H1-1b
260	M254	3/8" x 1"	.004	0	11	.000	10....	y	25	9876....	12150	94.921	253.125	...	H1-1b
261	M325A	3/8" x 1"	.004	0	8	.000	0	z	20	9876....	12150	94.921	252.235	1	H1-1b
262	M512A	3/8" x 1"	.003	0	11	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
263	M512B	3/8" x 1"	.003	0	11	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
264	M526B	3/8" x 1"	.003	0	11	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
265	M423	3/8" x 1"	.003	0	11	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
266	M427	3/8" x 1"	.003	0	11	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
267	M531A	3/8" x 1"	.003	4.75	11	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
268	M517A	3/8" x 1"	.003	4.75	11	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b



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

Member	Shape	Code Check	Loc.....	Shea...	Loc.....	phi*Pn...	phi*Pn...	phi*M...	phi*M...	Eqn					
269	M448	3/8" x 1"	.003	4.75	11	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
270	M522	3/8" x 1"	.003	4.75	11	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
271	M452	3/8" x 1"	.003	4.75	11	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
272	M517B	3/8" x 1"	.003	4.75	3	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
273	M509	3/8" x 1"	.003	4.75	3	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
274	M513	3/8" x 1"	.003	4.75	3	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
275	M503A	3/8" x 1"	.003	4.75	3	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
276	M489A	3/8" x 1"	.003	4.75	3	.001	4.75	y	38	10978...	12150	94.921	253.125	...	H1-1b
277	M540A	3/8" x 1"	.003	0	7	.001	0	y	35	10978...	12150	94.921	253.125	...	H1-1b
278	M366	3/8" x 1"	.003	0	7	.001	0	y	29	10978...	12150	94.921	253.125	...	H1-1b
279	M526	3/8" x 1"	.003	0	7	.001	0	y	29	10978...	12150	94.921	253.125	...	H1-1b
280	M554	3/8" x 1"	.003	0	7	.001	0	y	29	10978...	12150	94.921	253.125	...	H1-1b
281	M362	3/8" x 1"	.003	0	7	.001	0	y	36	10978...	12150	94.921	253.125	...	H1-1b
282	M391	3/8" x 1"	.003	4.75	13	.001	4.75	y	29	10978...	12150	94.921	253.125	...	H1-1b
283	M531B	3/8" x 1"	.003	4.75	13	.001	4.75	y	29	10978...	12150	94.921	253.125	...	H1-1b
284	M559	3/8" x 1"	.003	4.75	13	.001	4.75	y	29	10978...	12150	94.921	253.125	...	H1-1b
285	M545	3/8" x 1"	.003	4.75	13	.001	4.75	y	35	10978...	12150	94.921	253.125	...	H1-1b
286	M387	3/8" x 1"	.003	4.75	13	.001	4.75	y	36	10978...	12150	94.921	253.125	...	H1-1b
287	M512C	3/8" x 1"	.003	0	3	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
288	M484	3/8" x 1"	.003	0	3	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
289	M488	3/8" x 1"	.003	0	3	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
290	M498A	3/8" x 1"	.003	0	3	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b
291	M484A	3/8" x 1"	.003	0	3	.001	0	y	38	10978...	12150	94.921	253.125	...	H1-1b

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

Member	Shape	Code ...	Loc[in]	LC Shear	Loc[in]	Dir LC	phi*Pn[lb]	phi*Tn[lb]	phi*Mny...	phi*Mnz...	phi*V...	phi*V...	Cb	Eqn
No Data to Print ...														

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	Mount Pipe	PIPE 2.5	Column	Pipe	Q235-GB	Typical	1.61	1.45	1.45	2.89
2	Horizontals	PIPE 2.5	Beam	None	Q235-GB	Typical	1.61	1.45	1.45	2.89
3	Angle Bracing	L3X3X6	Beam	None	Q345	Typical	2.11	1.75	1.75	.101
4	Walking Platform Br...	L2x2x2	Beam	None	Q345	Typical	.491	.189	.189	.003
5	Standoffs	HSS4X3X4	Beam	None	Q235-GB	Typical	2.91	3.91	6.15	7.96
6	Walking Platform	12X1.5	Beam	None	Q345	Typical	1.114	.134	18.399	.002
7	Standoff (Bottom C...	3/8" x 4"	Beam	None	Q345	Typical	1.5	.018	2	.066
8	Connection Plates	3/8" x 3"	Beam	None	Q345	Typical	1.125	.013	.844	.049
9	Platform Bracing	3/8" x 2 3/8"	Beam	None	Q345	Typical	.891	.01	.419	.038
10	Standoff Bracing 1	3/8" x 1"	Beam	None	Q345	Typical	.375	.004	.031	.013
11	Walking Platform C...	3/8" x 1"	Beam	None	Q345	Typical	.375	.004	.031	.013
12	Standoff (Top Chord)	1/2" x 4"	Beam	None	Q345	Typical	2	.042	2.667	.154
13	Standoff Bracing 2	3/8" x 7/8"	Beam	None	Q345	Typical	.328	.004	.021	.011
14	Standoff Bracing 3	3/8" x 3/4"	Beam	None	Q345	Typical	.281	.003	.013	.009
15	Standoff Bracing 4	3/8" x 5/8"	Beam	None	Q345	Typical	.234	.003	.008	.007
16	Mount Pipe 2.0	PIPE 2.0	Column	Pipe	Q235-GB	Typical	1.02	.627	.627	1.25

Cold Formed Steel Section Sets

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	CF1A	162T125-18	Beam	CU	A653 SS Gr33	Typical	.078	.013	.042	9e-6



Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
1	M31						Yes				None
2	M33						Yes				None
3	M34A						Yes				None
4	M45A						Yes				None
5	M50						Yes	** NA **			None
6	M51						Yes	** NA **			None
7	M52						Yes	** NA **			None
8	M53						Yes	** NA **			None
9	M54						Yes				None
10	M54A						Yes	** NA **			None
11	M55						Yes	** NA **			None
12	M56						Yes	** NA **			None
13	M57						Yes	** NA **			None
14	M57A						Yes	** NA **			None
15	M58						Yes	** NA **			None
16	M59						Yes	** NA **			None
17	M59A						Yes	** NA **			None
18	M60						Yes				None
19	M60A						Yes	** NA **			None
20	M61						Yes				None
21	M61A						Yes	** NA **			None
22	M62						Yes				None
23	M62A						Yes	** NA **			None
24	M63						Yes	** NA **			None
25	M63A						Yes	** NA **			None
26	M64						Yes	** NA **			None
27	M64A						Yes	** NA **			None
28	M65						Yes	** NA **			None
29	M65A						Yes	** NA **			None
30	M66						Yes				None
31	M66A						Yes	** NA **			None
32	M67						Yes	** NA **			None
33	M68						Yes				None
34	M70						Yes	** NA **			None
35	M73						Yes				None
36	M74						Yes				None
37	M74B						Yes				None
38	M74C						Yes				None
39	M75						Yes				None
40	M75B						Yes				None
41	M76						Yes				None
42	M77						Yes				None
43	M78						Yes				None
44	M79						Yes				None
45	M80						Yes				None
46	M81						Yes				None
47	M82						Yes				None
48	M83						Yes				None
49	M84						Yes				None
50	M85						Yes				None
51	M94		OOOXOO				Yes	** NA **			None
52	M95						Yes	** NA **			None
53	M96		OOOXOO				Yes	** NA **			None
54	M97						Yes	** NA **			None
55	M99						Yes	** NA **			None
56	M100						Yes	** NA **			None



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
57	M101						Yes	** NA **			None
58	M102						Yes	** NA **			None
59	M103						Yes	** NA **			None
60	M104						Yes	** NA **			None
61	M105						Yes	** NA **			None
62	M106						Yes	** NA **			None
63	M108						Yes	** NA **			None
64	M109						Yes	** NA **			None
65	M110						Yes	** NA **			None
66	M111						Yes	** NA **			None
67	M112						Yes	** NA **			None
68	M113						Yes	** NA **			None
69	M114						Yes	** NA **			None
70	M115						Yes	** NA **			None
71	M116		OOOXOO				Yes	** NA **			None
72	M117						Yes	** NA **			None
73	M118		OOOXOO				Yes	** NA **			None
74	M119						Yes	** NA **			None
75	M122						Yes				None
76	M123						Yes				None
77	M124						Yes				None
78	M125						Yes				None
79	M126						Yes				None
80	M127						Yes				None
81	M127A		OOOXOO				Yes	** NA **			None
82	M128						Yes				None
83	M128A						Yes	** NA **			None
84	M129						Yes				None
85	M129A		OOOXOO				Yes	** NA **			None
86	M130						Yes				None
87	M130A						Yes	** NA **			None
88	M131						Yes				None
89	M131A		OOOXOO				Yes	** NA **			None
90	M132						Yes				None
91	M132A						Yes	** NA **			None
92	M133						Yes				None
93	M133A		OOOXOO				Yes	** NA **			None
94	M134						Yes				None
95	M134A						Yes	** NA **			None
96	M136A		OOOXOO				Yes	** NA **			None
97	M137A						Yes	** NA **			None
98	M138A		OOOXOO				Yes	** NA **			None
99	M139A						Yes	** NA **			None
100	M140A		OOOXOO				Yes	** NA **			None
101	M141A						Yes	** NA **			None
102	M142		OOOXOO				Yes	** NA **			None
103	M143						Yes	** NA **			None
104	MH3						Yes	Default			None
105	MH1						Yes				None
106	MH2						Yes				None
107	M198						Yes	** NA **			None
108	M199						Yes	** NA **			None
109	M200						Yes	** NA **			None
110	M201						Yes	** NA **			None
111	M202						Yes	** NA **			None
112	M203						Yes	** NA **			None
113	M204						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic..
114	M205						Yes	** NA **			None
115	M206						Yes	** NA **			None
116	M207						Yes	** NA **			None
117	M208						Yes	** NA **			None
118	M209						Yes	** NA **			None
119	M210						Yes	** NA **			None
120	M211						Yes	** NA **			None
121	M212						Yes	** NA **			None
122	M213						Yes	** NA **			None
123	M214						Yes	** NA **			None
124	M215						Yes	** NA **			None
125	M216						Yes				None
126	M217						Yes				None
127	M218						Yes				None
128	M219						Yes				None
129	M220						Yes				None
130	M221						Yes				None
131	M222						Yes				None
132	M223						Yes				None
133	M224						Yes				None
134	M225						Yes				None
135	M226						Yes				None
136	M227						Yes				None
137	M228						Yes				None
138	M229						Yes	** NA **			None
139	M230						Yes				None
140	M231						Yes				None
141	M232						Yes				None
142	M233						Yes				None
143	M234						Yes				None
144	M235						Yes				None
145	M236						Yes				None
146	M237						Yes				None
147	M238						Yes				None
148	M239						Yes				None
149	M240						Yes				None
150	M241						Yes	** NA **			None
151	M242						Yes	** NA **			None
152	M243						Yes	** NA **			None
153	M244						Yes	** NA **			None
154	M245						Yes				None
155	M246						Yes	Default			None
156	M247						Yes				None
157	M248						Yes				None
158	M249						Yes				None
159	M250						Yes				None
160	M251						Yes				None
161	M252						Yes				None
162	M253						Yes				None
163	M254						Yes				None
164	M255						Yes				None
165	M256						Yes	Default			None
166	M257						Yes	** NA **			None
167	M258						Yes	** NA **			None
168	M259						Yes	** NA **			None
169	M260						Yes	** NA **			None
170	M261						Yes				None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
171	M262						Yes				None
172	M263						Yes				None
173	M264						Yes				None
174	M265						Yes	** NA **			None
175	M265A						Yes				None
176	M266						Yes	** NA **			None
177	M266A						Yes				None
178	M267						Yes	** NA **			None
179	M267A						Yes				None
180	M268						Yes	** NA **			None
181	M268A						Yes				None
182	M269						Yes	** NA **			None
183	M269A						Yes	** NA **			None
184	M270						Yes	** NA **			None
185	M270A						Yes	** NA **			None
186	M271						Yes	** NA **			None
187	M271A						Yes	** NA **			None
188	M272						Yes	** NA **			None
189	M272A						Yes	** NA **			None
190	M273						Yes	** NA **			None
191	M273A						Yes	** NA **			None
192	M274						Yes	** NA **			None
193	M274A						Yes	** NA **			None
194	M275						Yes	** NA **			None
195	M275A						Yes	** NA **			None
196	M276						Yes	** NA **			None
197	M276A						Yes	** NA **			None
198	M277						Yes	** NA **			None
199	M277A						Yes	** NA **			None
200	M278						Yes	** NA **			None
201	M278A						Yes	** NA **			None
202	M279						Yes	** NA **			None
203	M279A						Yes	** NA **			None
204	M280						Yes	** NA **			None
205	M280A						Yes	** NA **			None
206	M281						Yes	** NA **			None
207	M281A						Yes	** NA **			None
208	M282						Yes	** NA **			None
209	M282A						Yes	** NA **			None
210	M283						Yes				None
211	M283A						Yes	** NA **			None
212	M284						Yes				None
213	M284A						Yes	** NA **			None
214	M285						Yes				None
215	M285A						Yes	** NA **			None
216	M286						Yes				None
217	M286A						Yes	** NA **			None
218	M287						Yes				None
219	M287A						Yes				None
220	M288						Yes				None
221	M288A						Yes				None
222	M289						Yes				None
223	M289A						Yes				None
224	M290						Yes				None
225	M290A						Yes				None
226	M291						Yes				None
227	M291A						Yes				None



Company : Infinigy Engineering
 Designer : AT
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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
228	M292						Yes				None
229	M292A						Yes				None
230	M293						Yes				None
231	M293A						Yes				None
232	M294						Yes				None
233	M294A						Yes				None
234	M295						Yes				None
235	M295A						Yes				None
236	M296						Yes	** NA **			None
237	M296A						Yes				None
238	M297						Yes				None
239	M297A						Yes				None
240	M298						Yes				None
241	M298A						Yes				None
242	M299						Yes				None
243	M299A						Yes				None
244	M300						Yes				None
245	M300A						Yes	** NA **			None
246	M301						Yes				None
247	M301A						Yes				None
248	M302						Yes				None
249	M302A						Yes				None
250	M303						Yes				None
251	M303A						Yes				None
252	M304						Yes				None
253	M304A						Yes				None
254	M305						Yes				None
255	M305A						Yes				None
256	M306						Yes				None
257	M306A						Yes				None
258	M307						Yes				None
259	M307A						Yes				None
260	M308						Yes				None
261	M308A						Yes	** NA **			None
262	M309						Yes				None
263	M310						Yes				None
264	M310A						Yes	** NA **			None
265	M311						Yes				None
266	M311A						Yes	** NA **			None
267	M312						Yes	** NA **			None
268	M312A						Yes	** NA **			None
269	M313						Yes	** NA **			None
270	M313A						Yes				None
271	M314						Yes	** NA **			None
272	M314A						Yes	Default			None
273	M315						Yes	** NA **			None
274	M315A						Yes				None
275	M316						Yes				None
276	M316A						Yes				None
277	M317						Yes	Default			None
278	M317A						Yes				None
279	M318						Yes				None
280	M318A						Yes				None
281	M319						Yes				None
282	M319A						Yes				None
283	M320						Yes				None
284	M320A						Yes				None



Company : Infinigy Engineering
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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
285	M321						Yes				None
286	M321A						Yes				None
287	M322						Yes				None
288	M322A						Yes				None
289	M323						Yes				None
290	M323A						Yes				None
291	M324						Yes	Default			None
292	M324A						Yes				None
293	M325						Yes	** NA **			None
294	M325A						Yes				None
295	M326						Yes	** NA **			None
296	M326A						Yes				None
297	M327						Yes	** NA **			None
298	M327A						Yes	Default			None
299	M328						Yes	** NA **			None
300	M328A						Yes	** NA **			None
301	M329						Yes				None
302	M329A						Yes	** NA **			None
303	M330						Yes				None
304	M330A						Yes	** NA **			None
305	M331						Yes				None
306	M331A						Yes	** NA **			None
307	M332						Yes				None
308	M332A						Yes				None
309	M332B						Yes				None
310	M333						Yes				None
311	M333A						Yes				None
312	M334						Yes				None
313	M334A						Yes				None
314	M335						Yes	Default			None
315	M335A						Yes				None
316	M336						Yes				None
317	M337						Yes				None
318	M338						Yes				None
319	M339						Yes				None
320	M340						Yes	** NA **			None
321	M341						Yes	** NA **			None
322	M342						Yes	** NA **			None
323	M343						Yes	** NA **			None
324	M344						Yes	** NA **			None
325	M345						Yes	** NA **			None
326	M355						Yes	** NA **			None
327	M356						Yes	** NA **			None
328	M357						Yes				None
329	M361						Yes				None
330	M362						Yes				None
331	M366						Yes				None
332	M367					Compres...	Yes	** NA **			None
333	M367A						Yes				None
334	M368					Compres...	Yes	** NA **			None
335	M369					Compres...	Yes	** NA **			None
336	M371						Yes				None
337	M372						Yes	** NA **			None
338	M376						Yes	** NA **			None
339	M377						Yes				None
340	M381						Yes				None
341	M382						Yes				None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
342	M386						Yes				None
343	M387						Yes				None
344	M391						Yes				None
345	M392						Yes	** NA **			None
346	M393					Compres...	Yes	** NA **			None
347	M394						Yes	** NA **			None
348	M395						Yes	** NA **			None
349	M408						Yes	** NA **			None
350	M409						Yes	** NA **			None
351	M410					Compres...	Yes	** NA **			None
352	M411						Yes	** NA **			None
353	M412						Yes				None
354	M416						Yes	** NA **			None
355	M417						Yes	** NA **			None
356	M418						Yes				None
357	M422						Yes				None
358	M423						Yes				None
359	M427						Yes				None
360	M428						Yes				None
361	M432						Yes				None
362	M433						Yes	** NA **			None
363	M437						Yes	** NA **			None
364	M438						Yes				None
365	M442						Yes				None
366	M443						Yes				None
367	M447						Yes				None
368	M448						Yes				None
369	M452						Yes				None
370	M453						Yes	** NA **			None
371	M454					Compres...	Yes	** NA **			None
372	M455						Yes	** NA **			None
373	M456						Yes	** NA **			None
374	M469						Yes	** NA **			None
375	M470						Yes	** NA **			None
376	M471					Compres...	Yes	** NA **			None
377	M472						Yes	** NA **			None
378	M473						Yes	Default			None
379	M477						Yes	** NA **			None
380	M478						Yes	** NA **			None
381	M479						Yes				None
382	M483						Yes				None
383	M484						Yes				None
384	M488						Yes				None
385	M489						Yes				None
386	M493						Yes				None
387	M494						Yes	** NA **			None
388	M498						Yes	** NA **			None
389	M499						Yes				None
390	M503						Yes				None
391	M504						Yes				None
392	M505						Yes	** NA **			None
393	M507A						Yes	** NA **			None
394	M508						Yes				None
395	M508B						Yes	** NA **			None
396	M509						Yes				None
397	M510A						Yes				None
398	M511A						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
399	M512						Yes	** NA **			None
400	M512A						Yes				None
401	M513						Yes				None
402	M514						Yes	** NA **			None
403	M514A						Yes				None
404	M514C						Yes	** NA **			None
405	M514D						Yes	** NA **			None
406	M515					Compres...	Yes	** NA **			None
407	M515B						Yes	** NA **			None
408	M515C						Yes	** NA **			None
409	M516						Yes	** NA **			None
410	M516A						Yes	** NA **			None
411	M516B						Yes	** NA **			None
412	M516C						Yes	** NA **			None
413	M517						Yes	** NA **			None
414	M518A						Yes				None
415	M520A						Yes				None
416	M522						Yes				None
417	M523						Yes	** NA **			None
418	M524						Yes	** NA **			None
419	M525					Compres...	Yes	** NA **			None
420	M526A						Yes	** NA **			None
421	M530						Yes	** NA **			None
422	M531						Yes	** NA **			None
423	M532					Compres...	Yes	** NA **			None
424	M533						Yes	** NA **			None
425	M534						Yes				None
426	M535						Yes				None
427	M536						Yes				None
428	M537						Yes				None
429	M538						Yes				None
430	M539						Yes				None
431	M540						Yes				None
432	MP1						Yes	** NA **			None
433	MP4						Yes	** NA **			None
434	MP5						Yes	** NA **			None
435	MP6						Yes	** NA **			None
436	MP10						Yes	** NA **			None
437	MP11						Yes	** NA **			None
438	MP15						Yes	** NA **			None
439	R3						Yes	** NA **			None
440	R4						Yes	** NA **			None
441	R5						Yes	** NA **			None
442	R6						Yes	** NA **			None
443	R7						Yes	** NA **			None
444	R8						Yes	** NA **			None
445	R9						Yes	** NA **			None
446	R10						Yes	** NA **			None
447	M519						Yes	** NA **			None
448	M520						Yes	** NA **			None
449	M560						Yes	** NA **			None
450	M561						Yes	** NA **			None
451	M562						Yes	** NA **			None
452	M563						Yes	** NA **			None
453	M509A						Yes	** NA **			None
454	M510B						Yes	** NA **			None
455	M511						Yes				None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
456	M512B						Yes				None
457	M513A						Yes				None
458	M514B						Yes	** NA **			None
459	M515A						Yes				None
460	M516D						Yes				None
461	M517A						Yes				None
462	M518B						Yes	** NA **			None
463	M519A						Yes	** NA **			None
464	M520B					Compres...	Yes	** NA **			None
465	M521A						Yes	** NA **			None
466	MP3						Yes	** NA **			None
467	M523A						Yes	** NA **			None
468	M524A						Yes	** NA **			None
469	M525A						Yes				None
470	M526B						Yes				None
471	M527A						Yes				None
472	M528A						Yes	** NA **			None
473	M529A						Yes				None
474	M530A						Yes				None
475	M531A						Yes				None
476	M532A						Yes	** NA **			None
477	M533A						Yes	** NA **			None
478	M534A					Compres...	Yes	** NA **			None
479	M535A						Yes	** NA **			None
480	MP2						Yes	** NA **			None
481	M481						Yes	** NA **			None
482	M482						Yes	** NA **			None
483	M483A						Yes				None
484	M484A						Yes				None
485	M485						Yes				None
486	M486						Yes	** NA **			None
487	M487						Yes				None
488	M488A						Yes				None
489	M489A						Yes				None
490	M490						Yes	** NA **			None
491	M491						Yes	** NA **			None
492	M492					Compres...	Yes	** NA **			None
493	M493A						Yes	** NA **			None
494	MP14						Yes	** NA **			None
495	M495						Yes	** NA **			None
496	M496						Yes	** NA **			None
497	M497						Yes				None
498	M498A						Yes				None
499	M499A						Yes				None
500	M500						Yes	** NA **			None
501	M501						Yes				None
502	M502						Yes				None
503	M503A						Yes				None
504	M504A						Yes	** NA **			None
505	M505A						Yes	** NA **			None
506	M506					Compres...	Yes	** NA **			None
507	M507						Yes	** NA **			None
508	MP13						Yes	** NA **			None
509	M509B						Yes	** NA **			None
510	M510						Yes	** NA **			None
511	M511B						Yes				None
512	M512C						Yes				None



Hot Rolled Steel Design Parameters

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torq...	Kyy	Kzz	Cb	Function
1	M31	Platform Br...	19.907	6	6	Lbyy			.65	.65		Lateral
2	M33	Platform Br...	13.486	6	6	Lbyy			.65	.65		Lateral
3	M34A	Platform Br...	7	6	6	Lbyy			.65	.65		Lateral
4	M45A	Angle Braci...	34.973	Segment	Segment	Lbyy			.65	.65		Lateral
5	M54	Standoffs	50.932			Lbyy			1	1		Lateral
6	M60	Platform Br...	19.907	6	6	Lbyy			.65	.65		Lateral
7	M61	Platform Br...	13.486	6	6	Lbyy			.65	.65		Lateral
8	M62	Platform Br...	7	6	6	Lbyy			.65	.65		Lateral
9	M66	Connection ...	7.261			Lbyy			.65	.65		Lateral
10	M68	Angle Braci...	34.973	Segment	Segment	Lbyy			.65	.65		Lateral
11	M73	Angle Braci...	34.973	Segment	Segment	Lbyy			.65	.65		Lateral
12	M74	Angle Braci...	34.973	Segment	Segment	Lbyy			.65	.65		Lateral
13	M74B	Angle Braci...	28.63	Segment	Segment	Lbyy			.65	.65		Lateral
14	M74C	Connection ...	7.261			Lbyy			.65	.65		Lateral
15	M75	Angle Braci...	28.63	Segment	Segment	Lbyy			.65	.65		Lateral
16	M75B	Angle Braci...	28.63	Segment	Segment	Lbyy			.65	.65		Lateral
17	M76	Angle Braci...	28.63	Segment	Segment	Lbyy			.65	.65		Lateral
18	M77	Standoffs	50.932			Lbyy			1	1		Lateral
19	M78	Connection ...	7.261			Lbyy			.65	.65		Lateral
20	M79	Connection ...	7.261			Lbyy			.65	.65		Lateral
21	M80	Platform Br...	19.907	6	6	Lbyy			.65	.65		Lateral
22	M81	Platform Br...	13.486	6	6	Lbyy			.65	.65		Lateral
23	M82	Platform Br...	7	6	6	Lbyy			.65	.65		Lateral
24	M83	Platform Br...	19.907	6	6	Lbyy			.65	.65		Lateral
25	M84	Platform Br...	13.486	6	6	Lbyy			.65	.65		Lateral
26	M85	Platform Br...	7	6	6	Lbyy			.65	.65		Lateral
27	M122	Angle Braci...	34.973	Segment	Segment	Lbyy			.65	.65		Lateral
28	M123	Angle Braci...	34.973	Segment	Segment	Lbyy			.65	.65		Lateral
29	M124	Angle Braci...	28.63	Segment	Segment	Lbyy			.65	.65		Lateral
30	M125	Angle Braci...	28.63	Segment	Segment	Lbyy			.65	.65		Lateral
31	M126	Standoffs	50.932			Lbyy			1	1		Lateral
32	M127	Connection ...	7.261			Lbyy			.65	.65		Lateral
33	M128	Connection ...	7.261			Lbyy			.65	.65		Lateral
34	M129	Platform Br...	19.907	6	6	Lbyy			.65	.65		Lateral
35	M130	Platform Br...	13.486	6	6	Lbyy			.65	.65		Lateral
36	M131	Platform Br...	7	6	6	Lbyy			.65	.65		Lateral
37	M132	Platform Br...	19.907	6	6	Lbyy			.65	.65		Lateral
38	M133	Platform Br...	13.486	6	6	Lbyy			.65	.65		Lateral
39	M134	Platform Br...	7	6	6	Lbyy			.65	.65		Lateral
40	MH3	Horizontals	150			Lbyy						Lateral
41	MH1	Horizontals	150			Lbyy						Lateral
42	MH2	Horizontals	150			Lbyy						Lateral
43	M216	Standoff (T...	12.278			Lbyy			.65	.65		Lateral
44	M217	Standoff (T...	7.776			Lbyy			.65	.65		Lateral
45	M218	Standoff (T...	8.619			Lbyy			.65	.65		Lateral
46	M219	Standoff (B...	12.543			Lbyy			.65	.65		Lateral
47	M220	Standoff (B...	7.998			Lbyy			.65	.65		Lateral
48	M221	Standoff (B...	8.906			Lbyy			.65	.65		Lateral
49	M222	Standoff Br...	12.278			Lbyy			.65	.65		Lateral
50	M223	Standoff Br...	7.776			Lbyy			.65	.65		Lateral
51	M224	Standoff Br...	8.619			Lbyy			.65	.65		Lateral
52	M225	Standoff Br...	12.543			Lbyy			.65	.65		Lateral
53	M226	Standoff Br...	7.998			Lbyy			.65	.65		Lateral
54	M227	Standoff Br...	8.771			Lbyy			.65	.65		Lateral
55	M228	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
56	M230	Standoff Br...	12.161			Lbyy			.65	.65		Lateral



Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torq...	Kyy	Kzz	Cb	Function
57	M231	Standoff Br...	8.633			Lbyy			.65	.65		Lateral
58	M232	Standoff Br...	10.462			Lbyy			.65	.65		Lateral
59	M233	Standoff Br...	6.999			Lbyy			.65	.65		Lateral
60	M234	Standoff Br...	8.719			Lbyy			.65	.65		Lateral
61	M235	Standoff Br...	5.606			Lbyy			.65	.65		Lateral
62	M236	Standoff Br...	7.145			Lbyy			.65	.65		Lateral
63	M237	Standoff Br...	4.437			Lbyy			.65	.65		Lateral
64	M238	Standoff Br...	5.846			Lbyy			.65	.65		Lateral
65	M239	Standoff Br...	3.452			Lbyy			.65	.65		Lateral
66	M240	Standoff Br...	4.766			Lbyy			.65	.65		Lateral
67	M245	Standoff (B...	11.5			Lbyy			.65	.65		Lateral
68	M246	Standoff (B...	11			Lbyy			.65	.65		Lateral
69	M247	Standoff Br...	11.484			Lbyy			.65	.65		Lateral
70	M248	Standoff Br...	11			Lbyy			.65	.65		Lateral
71	M249	Standoff Br...	11.5			Lbyy			.65	.65		Lateral
72	M250	Standoff Br...	11			Lbyy			.65	.65		Lateral
73	M251	Standoff Br...	15.526			Lbyy			.65	.65		Lateral
74	M252	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
75	M253	Standoff Br...	15.171			Lbyy			.65	.65		Lateral
76	M254	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
77	M255	Standoff (T...	11.5			Lbyy			.65	.65		Lateral
78	M256	Standoff (T...	11			Lbyy			.65	.65		Lateral
79	M261	Standoff (B...	8.974			Lbyy			.65	.65		Lateral
80	M262	Standoff (T...	9.128			Lbyy			.65	.65		Lateral
81	M263	Standoff Br...	9.128			Lbyy			.65	.65		Lateral
82	M264	Standoff Br...	9.103			Lbyy			.65	.65		Lateral
83	M265A	Standoff (T...	8.699			Lbyy			.65	.65		Lateral
84	M266A	Standoff Br...	8.699			Lbyy			.65	.65		Lateral
85	M267A	Standoff Br...	8.886			Lbyy			.65	.65		Lateral
86	M268A	Standoff (B...	8.886			Lbyy			.65	.65		Lateral
87	M283	Standoff (T...	12.278			Lbyy			.65	.65		Lateral
88	M284	Standoff (T...	7.776			Lbyy			.65	.65		Lateral
89	M285	Standoff (T...	8.619			Lbyy			.65	.65		Lateral
90	M286	Standoff (B...	12.543			Lbyy			.65	.65		Lateral
91	M287	Standoff (B...	7.998			Lbyy			.65	.65		Lateral
92	M287A	Standoff (T...	12.278			Lbyy			.65	.65		Lateral
93	M288	Standoff (B...	8.906			Lbyy			.65	.65		Lateral
94	M288A	Standoff (T...	7.776			Lbyy			.65	.65		Lateral
95	M289	Standoff Br...	12.278			Lbyy			.65	.65		Lateral
96	M289A	Standoff (T...	8.619			Lbyy			.65	.65		Lateral
97	M290	Standoff Br...	7.776			Lbyy			.65	.65		Lateral
98	M290A	Standoff (B...	12.543			Lbyy			.65	.65		Lateral
99	M291	Standoff Br...	8.619			Lbyy			.65	.65		Lateral
100	M291A	Standoff (B...	7.998			Lbyy			.65	.65		Lateral
101	M292	Standoff Br...	12.543			Lbyy			.65	.65		Lateral
102	M292A	Standoff (B...	8.906			Lbyy			.65	.65		Lateral
103	M293	Standoff Br...	7.998			Lbyy			.65	.65		Lateral
104	M293A	Standoff Br...	12.278			Lbyy			.65	.65		Lateral
105	M294	Standoff Br...	8.771			Lbyy			.65	.65		Lateral
106	M294A	Standoff Br...	7.776			Lbyy			.65	.65		Lateral
107	M295	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
108	M295A	Standoff Br...	8.619			Lbyy			.65	.65		Lateral
109	M296A	Standoff Br...	12.543			Lbyy			.65	.65		Lateral
110	M297	Standoff Br...	12.161			Lbyy			.65	.65		Lateral
111	M297A	Standoff Br...	7.998			Lbyy			.65	.65		Lateral
112	M298	Standoff Br...	8.633			Lbyy			.65	.65		Lateral
113	M298A	Standoff Br...	8.771			Lbyy			.65	.65		Lateral



Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torg...	Kyy	Kzz	Cb	Function
114	M299	Standoff Br...	10.462			Lbyy			.65	.65		Lateral
115	M299A	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
116	M300	Standoff Br...	6.999			Lbyy			.65	.65		Lateral
117	M301	Standoff Br...	8.719			Lbyy			.65	.65		Lateral
118	M301A	Standoff Br...	12.161			Lbyy			.65	.65		Lateral
119	M302	Standoff Br...	5.606			Lbyy			.65	.65		Lateral
120	M302A	Standoff Br...	8.633			Lbyy			.65	.65		Lateral
121	M303	Standoff Br...	7.145			Lbyy			.65	.65		Lateral
122	M303A	Standoff Br...	10.462			Lbyy			.65	.65		Lateral
123	M304	Standoff Br...	4.437			Lbyy			.65	.65		Lateral
124	M304A	Standoff Br...	6.999			Lbyy			.65	.65		Lateral
125	M305	Standoff Br...	5.846			Lbyy			.65	.65		Lateral
126	M305A	Standoff Br...	8.719			Lbyy			.65	.65		Lateral
127	M306	Standoff Br...	3.452			Lbyy			.65	.65		Lateral
128	M306A	Standoff Br...	5.606			Lbyy			.65	.65		Lateral
129	M307	Standoff Br...	7.145			Lbyy			.65	.65		Lateral
130	M307A	Standoff Br...	4.766			Lbyy			.65	.65		Lateral
131	M308	Standoff Br...	4.437			Lbyy			.65	.65		Lateral
132	M309	Standoff Br...	5.846			Lbyy			.65	.65		Lateral
133	M310	Standoff Br...	3.452			Lbyy			.65	.65		Lateral
134	M311	Standoff Br...	4.766			Lbyy			.65	.65		Lateral
135	M313A	Standoff (B...	11.5			Lbyy			.65	.65		Lateral
136	M314A	Standoff (B...	11			Lbyy			.65	.65		Lateral
137	M315A	Standoff Br...	11.484			Lbyy			.65	.65		Lateral
138	M316	Standoff (B...	11.5			Lbyy			.65	.65		Lateral
139	M316A	Standoff Br...	11			Lbyy			.65	.65		Lateral
140	M317	Standoff (B...	11			Lbyy			.65	.65		Lateral
141	M317A	Standoff Br...	11.5			Lbyy			.65	.65		Lateral
142	M318	Standoff Br...	11.484			Lbyy			.65	.65		Lateral
143	M318A	Standoff Br...	11			Lbyy			.65	.65		Lateral
144	M319	Standoff Br...	11			Lbyy			.65	.65		Lateral
145	M319A	Standoff Br...	15.526			Lbyy			.65	.65		Lateral
146	M320	Standoff Br...	11.5			Lbyy			.65	.65		Lateral
147	M320A	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
148	M321	Standoff Br...	11			Lbyy			.65	.65		Lateral
149	M321A	Standoff Br...	15.171			Lbyy			.65	.65		Lateral
150	M322	Standoff Br...	15.526			Lbyy			.65	.65		Lateral
151	M322A	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
152	M323	Standoff (T...	11.5			Lbyy			.65	.65		Lateral
153	M323A	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
154	M324	Standoff (T...	11			Lbyy			.65	.65		Lateral
155	M324A	Standoff Br...	15.171			Lbyy			.65	.65		Lateral
156	M325A	Standoff Br...	10.449			Lbyy			.65	.65		Lateral
157	M326A	Standoff (T...	11.5			Lbyy			.65	.65		Lateral
158	M327A	Standoff (T...	11			Lbyy			.65	.65		Lateral
159	M329	Standoff (B...	8.974			Lbyy			.65	.65		Lateral
160	M330	Standoff (T...	9.128			Lbyy			.65	.65		Lateral
161	M331	Standoff Br...	9.128			Lbyy			.65	.65		Lateral
162	M332	Standoff Br...	9.103			Lbyy			.65	.65		Lateral
163	M332A	Standoff (T...	8.699			Lbyy			.65	.65		Lateral
164	M332B	Standoff (B...	8.974			Lbyy			.65	.65		Lateral
165	M333	Standoff Br...	8.699			Lbyy			.65	.65		Lateral
166	M333A	Standoff (T...	9.128			Lbyy			.65	.65		Lateral
167	M334	Standoff Br...	8.886			Lbyy			.65	.65		Lateral
168	M334A	Standoff Br...	9.128			Lbyy			.65	.65		Lateral
169	M335	Standoff (B...	8.886			Lbyy			.65	.65		Lateral
170	M335A	Standoff Br...	9.103			Lbyy			.65	.65		Lateral



Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torq...	Kyy	Kzz	Cb	Function
171	M336	Standoff (T...	8.699			Lbyy			.65	.65		Lateral
172	M337	Standoff Br...	8.699			Lbyy			.65	.65		Lateral
173	M338	Standoff Br...	8.886			Lbyy			.65	.65		Lateral
174	M339	Standoff (B...	8.886			Lbyy			.65	.65		Lateral
175	M357	Walking Pla...	5.178			Lbyy						Lateral
176	M361	Walking Pla...	5.178			Lbyy						Lateral
177	M362	Walking Pla...	4.75			Lbyy						Lateral
178	M366	Walking Pla...	4.75			Lbyy						Lateral
179	M367A	Walking Pla...	4.125			Lbyy						Lateral
180	M371	Walking Pla...	4.125			Lbyy						Lateral
181	M377	Walking Pla...	5.178			Lbyy						Lateral
182	M381	Walking Pla...	5.178			Lbyy						Lateral
183	M382	Walking Pla...	5.178			Lbyy						Lateral
184	M386	Walking Pla...	5.178			Lbyy						Lateral
185	M387	Walking Pla...	4.75			Lbyy						Lateral
186	M391	Walking Pla...	4.75			Lbyy						Lateral
187	M412	Walking Pla...	144	Segment	Segment	Lbyy						Lateral
188	M418	Walking Pla...	5.178			Lbyy						Lateral
189	M422	Walking Pla...	5.178			Lbyy						Lateral
190	M423	Walking Pla...	4.75			Lbyy						Lateral
191	M427	Walking Pla...	4.75			Lbyy						Lateral
192	M428	Walking Pla...	4.125			Lbyy						Lateral
193	M432	Walking Pla...	4.125			Lbyy						Lateral
194	M438	Walking Pla...	5.178			Lbyy						Lateral
195	M442	Walking Pla...	5.178			Lbyy						Lateral
196	M443	Walking Pla...	5.178			Lbyy						Lateral
197	M447	Walking Pla...	5.178			Lbyy						Lateral
198	M448	Walking Pla...	4.75			Lbyy						Lateral
199	M452	Walking Pla...	4.75			Lbyy						Lateral
200	M473	Walking Pla...	144	Segment	Segment	Lbyy						Lateral
201	M479	Walking Pla...	5.178			Lbyy						Lateral
202	M483	Walking Pla...	5.178			Lbyy						Lateral
203	M484	Walking Pla...	4.75			Lbyy						Lateral
204	M488	Walking Pla...	4.75			Lbyy						Lateral
205	M489	Walking Pla...	4.125			Lbyy						Lateral
206	M493	Walking Pla...	4.125			Lbyy						Lateral
207	M499	Walking Pla...	5.178			Lbyy						Lateral
208	M503	Walking Pla...	5.178			Lbyy						Lateral
209	M504	Walking Pla...	5.178			Lbyy						Lateral
210	M508	Walking Pla...	5.178			Lbyy						Lateral
211	M509	Walking Pla...	4.75			Lbyy						Lateral
212	M510A	Walking Pla...	5.178			Lbyy						Lateral
213	M512A	Walking Pla...	4.75			Lbyy						Lateral
214	M513	Walking Pla...	4.75			Lbyy						Lateral
215	M514A	Walking Pla...	4.125			Lbyy						Lateral
216	M518A	Walking Pla...	5.178			Lbyy						Lateral
217	M520A	Walking Pla...	5.178			Lbyy						Lateral
218	M522	Walking Pla...	4.75			Lbyy						Lateral
219	M534	Walking Pla...	144	Segment	Segment	Lbyy						Lateral
220	M535	Walking Pla...	26.627			Lbyy						Lateral
221	M536	Walking Pla...	26.627			Lbyy						Lateral
222	M537	Walking Pla...	26.627			Lbyy						Lateral
223	M538	Walking Pla...	10.173			Lbyy						Lateral
224	M539	Walking Pla...	10.173			Lbyy						Lateral
225	M540	Walking Pla...	10.173			Lbyy						Lateral
226	MP1	Mount Pipe	120			Lbyy						Lateral
227	MP4	Mount Pipe	120			Lbyy						Lateral



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torg...	Kyy	Kzz	Cb	Function
228	MP5	Mount Pipe	120				Lbyy				Lateral
229	MP6	Mount Pipe	120				Lbyy				Lateral
230	MP10	Mount Pipe	120				Lbyy				Lateral
231	MP11	Mount Pipe	120				Lbyy				Lateral
232	MP15	Mount Pipe	120				Lbyy				Lateral
233	M520	Mount Pipe ...	36				Lbyy				Lateral
234	M560	Mount Pipe ...	36				Lbyy				Lateral
235	M562	Mount Pipe ...	36				Lbyy				Lateral
236	M511	Walking Pla...	5.178				Lbyy				Lateral
237	M512B	Walking Pla...	4.75				Lbyy				Lateral
238	M513A	Walking Pla...	4.125				Lbyy				Lateral
239	M515A	Walking Pla...	5.178				Lbyy				Lateral
240	M516D	Walking Pla...	5.178				Lbyy				Lateral
241	M517A	Walking Pla...	4.75				Lbyy				Lateral
242	MP3	Mount Pipe	120				Lbyy				Lateral
243	M525A	Walking Pla...	5.178				Lbyy				Lateral
244	M526B	Walking Pla...	4.75				Lbyy				Lateral
245	M527A	Walking Pla...	4.125				Lbyy				Lateral
246	M529A	Walking Pla...	5.178				Lbyy				Lateral
247	M530A	Walking Pla...	5.178				Lbyy				Lateral
248	M531A	Walking Pla...	4.75				Lbyy				Lateral
249	MP2	Mount Pipe	120				Lbyy				Lateral
250	M483A	Walking Pla...	5.178				Lbyy				Lateral
251	M484A	Walking Pla...	4.75				Lbyy				Lateral
252	M485	Walking Pla...	4.125				Lbyy				Lateral
253	M487	Walking Pla...	5.178				Lbyy				Lateral
254	M488A	Walking Pla...	5.178				Lbyy				Lateral
255	M489A	Walking Pla...	4.75				Lbyy				Lateral
256	MP14	Mount Pipe	120				Lbyy				Lateral
257	M497	Walking Pla...	5.178				Lbyy				Lateral
258	M498A	Walking Pla...	4.75				Lbyy				Lateral
259	M499A	Walking Pla...	4.125				Lbyy				Lateral
260	M501	Walking Pla...	5.178				Lbyy				Lateral
261	M502	Walking Pla...	5.178				Lbyy				Lateral
262	M503A	Walking Pla...	4.75				Lbyy				Lateral
263	MP13	Mount Pipe	120				Lbyy				Lateral
264	M511B	Walking Pla...	5.178				Lbyy				Lateral
265	M512C	Walking Pla...	4.75				Lbyy				Lateral
266	M513B	Walking Pla...	4.125				Lbyy				Lateral
267	M515D	Walking Pla...	5.178				Lbyy				Lateral
268	M516E	Walking Pla...	5.178				Lbyy				Lateral
269	M517B	Walking Pla...	4.75				Lbyy				Lateral
270	MP12	Mount Pipe	120				Lbyy				Lateral
271	M525B	Walking Pla...	5.178				Lbyy				Lateral
272	M526	Walking Pla...	4.75				Lbyy				Lateral
273	M527	Walking Pla...	4.125				Lbyy				Lateral
274	M529	Walking Pla...	5.178				Lbyy				Lateral
275	M530B	Walking Pla...	5.178				Lbyy				Lateral
276	M531B	Walking Pla...	4.75				Lbyy				Lateral
277	MP9	Mount Pipe	120				Lbyy				Lateral
278	M539A	Walking Pla...	5.178				Lbyy				Lateral
279	M540A	Walking Pla...	4.75				Lbyy				Lateral
280	M541	Walking Pla...	4.125				Lbyy				Lateral
281	M543	Walking Pla...	5.178				Lbyy				Lateral
282	M544	Walking Pla...	5.178				Lbyy				Lateral
283	M545	Walking Pla...	4.75				Lbyy				Lateral
284	MP8	Mount Pipe	120				Lbyy				Lateral



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Joint Loads and Enforced Displacements (BLC 42 : Maintenance Load 9) (Continued)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N485A	L	Y	-500

Joint Loads and Enforced Displacements (BLC 43 : Maintenance Load 10)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N444	L	Y	-500

Joint Loads and Enforced Displacements (BLC 44 : Maintenance Load 11)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N458A	L	Y	-500

Joint Loads and Enforced Displacements (BLC 45 : Maintenance Load 12)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N472B	L	Y	-500

Joint Loads and Enforced Displacements (BLC 46 : Maintenance Load 13)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N487	L	Y	-500

Joint Loads and Enforced Displacements (BLC 47 : Maintenance Load 14)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N501A	L	Y	-500

Joint Loads and Enforced Displacements (BLC 48 : Maintenance Load 15)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N515	L	Y	-500

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP3	Y	-104	%25
2	MP3	Y	-55.4	%75
3	MP4	Y	-39.7	6
4	MP4	Y	-39.7	77.2
5	MP2	Y	-34.15	6
6	MP2	Y	-34.15	77.2
7	MP2	Y	-75	%25
8	MP2	Y	-59.9	%50
9	MP4	Y	-70	%25
10	MP4	Y	-53	%50
11	MP3	Y	-32.8	%50
12	MP7	Y	-104	%25
13	MP7	Y	-55.4	%75
14	MP8	Y	-39.7	6
15	MP8	Y	-39.7	77.2
16	MP6	Y	-34.15	6
17	MP6	Y	-34.15	77.2
18	MP6	Y	-75	%25
19	MP6	Y	-59.9	%50
20	MP8	Y	-70	%25
21	MP8	Y	-53	%50
22	MP7	Y	-32.8	%50
23	MP11	Y	-104	%25
24	MP11	Y	-55.4	%75



Member Point Loads (BLC 1 : Self Weight) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
25	MP12	Y	-39.7	6
26	MP12	Y	-39.7	77.2
27	MP10	Y	-34.15	6
28	MP10	Y	-34.15	77.2
29	MP10	Y	-75	%25
30	MP10	Y	-59.9	%50
31	MP12	Y	-70	%25
32	MP12	Y	-53	%50
33	MP11	Y	-32.8	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP3	X	0	%25
2	MP3	Z	-155.41	%25
3	MP3	X	0	%75
4	MP3	Z	-121.46	%75
5	MP4	X	0	6
6	MP4	Z	-184.98	6
7	MP4	X	0	77.2
8	MP4	Z	-184.98	77.2
9	MP2	X	0	6
10	MP2	Z	-184.98	6
11	MP2	X	0	77.2
12	MP2	Z	-184.98	77.2
13	MP2	X	0	%25
14	MP2	Z	-57.64	%25
15	MP2	X	0	%50
16	MP2	Z	-53.63	%50
17	MP4	X	0	%25
18	MP4	Z	-57.64	%25
19	MP4	X	0	%50
20	MP4	Z	-79.84	%50
21	MP3	X	0	%50
22	MP3	Z	-64.04	%50
23	MP7	X	0	%25
24	MP7	Z	-103.86	%25
25	MP7	X	0	%75
26	MP7	Z	-84.61	%75
27	MP8	X	0	6
28	MP8	Z	-124.39	6
29	MP8	X	0	77.2
30	MP8	Z	-124.39	77.2
31	MP6	X	0	6
32	MP6	Z	-124.39	6
33	MP6	X	0	77.2
34	MP6	Z	-124.39	77.2
35	MP6	X	0	%25
36	MP6	Z	-52.77	%25
37	MP6	X	0	%50
38	MP6	Z	-40.25	%50
39	MP8	X	0	%25
40	MP8	Z	-47.9	%25
41	MP8	X	0	%50
42	MP8	Z	-61.48	%50
43	MP7	X	0	%50
44	MP7	Z	-64.04	%50



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
45	MP11	X	0	%25
46	MP11	Z	-89.53	%25
47	MP11	X	0	%75
48	MP11	Z	-74.36	%75
49	MP12	X	0	6
50	MP12	Z	-107.54	6
51	MP12	X	0	77.2
52	MP12	Z	-107.54	77.2
53	MP10	X	0	6
54	MP10	Z	-107.54	6
55	MP10	X	0	77.2
56	MP10	Z	-107.54	77.2
57	MP10	X	0	%25
58	MP10	Z	-51.42	%25
59	MP10	X	0	%50
60	MP10	Z	-36.52	%50
61	MP12	X	0	%25
62	MP12	Z	-45.19	%25
63	MP12	X	0	%50
64	MP12	Z	-56.38	%50
65	MP11	X	0	%50
66	MP11	Z	-64.04	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP3	X	-66.73	%25
2	MP3	Z	-115.57	%25
3	MP3	X	-52.88	%75
4	MP3	Z	-91.59	%75
5	MP4	X	-79.59	6
6	MP4	Z	-137.85	6
7	MP4	X	-79.59	77.2
8	MP4	Z	-137.85	77.2
9	MP2	X	-79.59	6
10	MP2	Z	-137.85	6
11	MP2	X	-79.59	77.2
12	MP2	Z	-137.85	77.2
13	MP2	X	-27.78	%25
14	MP2	Z	-48.12	%25
15	MP2	X	-23.97	%50
16	MP2	Z	-41.51	%50
17	MP4	X	-26.74	%25
18	MP4	Z	-46.32	%25
19	MP4	X	-36.01	%50
20	MP4	Z	-62.37	%50
21	MP3	X	-32.02	%50
22	MP3	Z	-55.46	%50
23	MP7	X	-72.57	%25
24	MP7	Z	-125.69	%25
25	MP7	X	-57.06	%75
26	MP7	Z	-98.83	%75
27	MP8	X	-86.45	6
28	MP8	Z	-149.74	6
29	MP8	X	-86.45	77.2
30	MP8	Z	-149.74	77.2
31	MP6	X	-86.45	6



Member Point Loads (BLC 3 : Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
32	MP6	Z	-149.74	6
33	MP6	X	-86.45	77.2
34	MP6	Z	-149.74	77.2
35	MP6	X	-28.33	%25
36	MP6	Z	-49.08	%25
37	MP6	X	-25.48	%50
38	MP6	Z	-44.14	%50
39	MP8	X	-27.85	%25
40	MP8	Z	-48.23	%25
41	MP8	X	-38.09	%50
42	MP8	Z	-65.97	%50
43	MP7	X	-32.02	%50
44	MP7	Z	-55.46	%50
45	MP11	X	-33.78	%25
46	MP11	Z	-58.51	%25
47	MP11	X	-29.33	%75
48	MP11	Z	-50.8	%75
49	MP12	X	-40.86	6
50	MP12	Z	-70.78	6
51	MP12	X	-40.86	77.2
52	MP12	Z	-70.78	77.2
53	MP10	X	-40.86	6
54	MP10	Z	-70.78	6
55	MP10	X	-40.86	77.2
56	MP10	Z	-70.78	77.2
57	MP10	X	-24.67	%25
58	MP10	Z	-42.73	%25
59	MP10	X	-15.41	%50
60	MP10	Z	-26.69	%50
61	MP12	X	-20.52	%25
62	MP12	Z	-35.55	%25
63	MP12	X	-24.28	%50
64	MP12	Z	-42.05	%50
65	MP11	X	-32.02	%50
66	MP11	Z	-55.46	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP3	X	-77.53	%25
2	MP3	Z	-44.76	%25
3	MP3	X	-64.4	%75
4	MP3	Z	-37.18	%75
5	MP4	X	-93.14	6
6	MP4	Z	-53.77	6
7	MP4	X	-93.14	77.2
8	MP4	Z	-53.77	77.2
9	MP2	X	-93.14	6
10	MP2	Z	-53.77	6
11	MP2	X	-93.14	77.2
12	MP2	Z	-53.77	77.2
13	MP2	X	-44.53	%25
14	MP2	Z	-25.71	%25
15	MP2	X	-31.63	%50
16	MP2	Z	-18.26	%50
17	MP4	X	-39.14	%25
18	MP4	Z	-22.6	%25



Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
19	MP4	X	-48.82	%50
20	MP4	Z	-28.19	%50
21	MP3	X	-55.46	%50
22	MP3	Z	-32.02	%50
23	MP7	X	-132.3	%25
24	MP7	Z	-76.38	%25
25	MP7	X	-103.55	%75
26	MP7	Z	-59.78	%75
27	MP8	X	-157.51	6
28	MP8	Z	-90.94	6
29	MP8	X	-157.51	77.2
30	MP8	Z	-90.94	77.2
31	MP6	X	-157.51	6
32	MP6	Z	-90.94	6
33	MP6	X	-157.51	77.2
34	MP6	Z	-90.94	77.2
35	MP6	X	-49.7	%25
36	MP6	Z	-28.69	%25
37	MP6	X	-45.85	%50
38	MP6	Z	-26.47	%50
39	MP8	X	-49.48	%25
40	MP8	Z	-28.57	%25
41	MP8	X	-68.33	%50
42	MP8	Z	-39.45	%50
43	MP7	X	-55.46	%50
44	MP7	Z	-32.02	%50
45	MP11	X	-77.53	%25
46	MP11	Z	-44.76	%25
47	MP11	X	-64.4	%75
48	MP11	Z	-37.18	%75
49	MP12	X	-93.14	6
50	MP12	Z	-53.77	6
51	MP12	X	-93.14	77.2
52	MP12	Z	-53.77	77.2
53	MP10	X	-93.14	6
54	MP10	Z	-53.77	6
55	MP10	X	-93.14	77.2
56	MP10	Z	-53.77	77.2
57	MP10	X	-44.53	%25
58	MP10	Z	-25.71	%25
59	MP10	X	-31.63	%50
60	MP10	Z	-18.26	%50
61	MP12	X	-39.14	%25
62	MP12	Z	-22.6	%25
63	MP12	X	-48.82	%50
64	MP12	Z	-28.19	%50
65	MP11	X	-55.46	%50
66	MP11	Z	-32.02	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP3	X	-67.56	%25
2	MP3	Z	0	%25
3	MP3	X	-58.66	%75
4	MP3	Z	0	%75
5	MP4	X	-81.73	6



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
6	MP4	Z	0	6
7	MP4	X	-81.73	77.2
8	MP4	Z	0	77.2
9	MP2	X	-81.73	6
10	MP2	Z	0	6
11	MP2	X	-81.73	77.2
12	MP2	Z	0	77.2
13	MP2	X	-49.34	%25
14	MP2	Z	0	%25
15	MP2	X	-30.82	%50
16	MP2	Z	0	%50
17	MP4	X	-41.04	%25
18	MP4	Z	0	%25
19	MP4	X	-48.56	%50
20	MP4	Z	0	%50
21	MP3	X	-64.04	%50
22	MP3	Z	0	%50
23	MP7	X	-119.12	%25
24	MP7	Z	0	%25
25	MP7	X	-95.52	%75
26	MP7	Z	0	%75
27	MP8	X	-142.32	6
28	MP8	Z	0	6
29	MP8	X	-142.32	77.2
30	MP8	Z	0	77.2
31	MP6	X	-142.32	6
32	MP6	Z	0	6
33	MP6	X	-142.32	77.2
34	MP6	Z	0	77.2
35	MP6	X	-54.21	%25
36	MP6	Z	0	%25
37	MP6	X	-44.21	%50
38	MP6	Z	0	%50
39	MP8	X	-50.78	%25
40	MP8	Z	0	%25
41	MP8	X	-66.91	%50
42	MP8	Z	0	%50
43	MP7	X	-64.04	%50
44	MP7	Z	0	%50
45	MP11	X	-133.45	%25
46	MP11	Z	0	%25
47	MP11	X	-105.76	%75
48	MP11	Z	0	%75
49	MP12	X	-159.17	6
50	MP12	Z	0	6
51	MP12	X	-159.17	77.2
52	MP12	Z	0	77.2
53	MP10	X	-159.17	6
54	MP10	Z	0	6
55	MP10	X	-159.17	77.2
56	MP10	Z	0	77.2
57	MP10	X	-55.56	%25
58	MP10	Z	0	%25
59	MP10	X	-47.93	%50
60	MP10	Z	0	%50
61	MP12	X	-53.49	%25
62	MP12	Z	0	%25



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
63	MP12	X	-72.02	%50
64	MP12	Z	0	%50
65	MP11	X	-64.04	%50
66	MP11	Z	0	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP3	X	-77.53	%25
2	MP3	Z	44.76	%25
3	MP3	X	-64.4	%75
4	MP3	Z	37.18	%75
5	MP4	X	-93.14	6
6	MP4	Z	53.77	6
7	MP4	X	-93.14	77.2
8	MP4	Z	53.77	77.2
9	MP2	X	-93.14	6
10	MP2	Z	53.77	6
11	MP2	X	-93.14	77.2
12	MP2	Z	53.77	77.2
13	MP2	X	-44.53	%25
14	MP2	Z	25.71	%25
15	MP2	X	-31.63	%50
16	MP2	Z	18.26	%50
17	MP4	X	-39.14	%25
18	MP4	Z	22.6	%25
19	MP4	X	-48.82	%50
20	MP4	Z	28.19	%50
21	MP3	X	-55.46	%50
22	MP3	Z	32.02	%50
23	MP7	X	-67.41	%25
24	MP7	Z	38.92	%25
25	MP7	X	-57.17	%75
26	MP7	Z	33.01	%75
27	MP8	X	-81.24	6
28	MP8	Z	46.9	6
29	MP8	X	-81.24	77.2
30	MP8	Z	46.9	77.2
31	MP6	X	-81.24	6
32	MP6	Z	46.9	6
33	MP6	X	-81.24	77.2
34	MP6	Z	46.9	77.2
35	MP6	X	-43.57	%25
36	MP6	Z	25.16	%25
37	MP6	X	-29	%50
38	MP6	Z	16.74	%50
39	MP8	X	-37.23	%25
40	MP8	Z	21.49	%25
41	MP8	X	-45.22	%50
42	MP8	Z	26.11	%50
43	MP7	X	-55.46	%50
44	MP7	Z	32.02	%50
45	MP11	X	-134.59	%25
46	MP11	Z	77.71	%25
47	MP11	X	-105.19	%75
48	MP11	Z	60.73	%75
49	MP12	X	-160.2	6



Member Point Loads (BLC 6 : Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
50	MP12	Z	92.49	6
51	MP12	X	-160.2	77.2
52	MP12	Z	92.49	77.2
53	MP10	X	-160.2	6
54	MP10	Z	92.49	6
55	MP10	X	-160.2	77.2
56	MP10	Z	92.49	77.2
57	MP10	X	-49.92	%25
58	MP10	Z	28.82	%25
59	MP10	X	-46.45	%50
60	MP10	Z	26.82	%50
61	MP12	X	-49.92	%25
62	MP12	Z	28.82	%25
63	MP12	X	-69.14	%50
64	MP12	Z	39.92	%50
65	MP11	X	-55.46	%50
66	MP11	Z	32.02	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP3	X	-66.73	%25
2	MP3	Z	115.57	%25
3	MP3	X	-52.88	%75
4	MP3	Z	91.59	%75
5	MP4	X	-79.59	6
6	MP4	Z	137.85	6
7	MP4	X	-79.59	77.2
8	MP4	Z	137.85	77.2
9	MP2	X	-79.59	6
10	MP2	Z	137.85	6
11	MP2	X	-79.59	77.2
12	MP2	Z	137.85	77.2
13	MP2	X	-27.78	%25
14	MP2	Z	48.12	%25
15	MP2	X	-23.97	%50
16	MP2	Z	41.51	%50
17	MP4	X	-26.74	%25
18	MP4	Z	46.32	%25
19	MP4	X	-36.01	%50
20	MP4	Z	62.37	%50
21	MP3	X	-32.02	%50
22	MP3	Z	55.46	%50
23	MP7	X	-35.11	%25
24	MP7	Z	60.81	%25
25	MP7	X	-30.28	%75
26	MP7	Z	52.44	%75
27	MP8	X	-42.42	6
28	MP8	Z	73.48	6
29	MP8	X	-42.42	77.2
30	MP8	Z	73.48	77.2
31	MP6	X	-42.42	6
32	MP6	Z	73.48	6
33	MP6	X	-42.42	77.2
34	MP6	Z	73.48	77.2
35	MP6	X	-24.8	%25
36	MP6	Z	42.95	%25



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Member Point Loads (BLC 7 : Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
37	MP6	X	-15.75	%50
38	MP6	Z	27.29	%50
39	MP8	X	-20.77	%25
40	MP8	Z	35.98	%25
41	MP8	X	-24.75	%50
42	MP8	Z	42.87	%50
43	MP7	X	-32.02	%50
44	MP7	Z	55.46	%50
45	MP11	X	-66.73	%25
46	MP11	Z	115.57	%25
47	MP11	X	-52.88	%75
48	MP11	Z	91.59	%75
49	MP12	X	-79.59	6
50	MP12	Z	137.85	6
51	MP12	X	-79.59	77.2
52	MP12	Z	137.85	77.2
53	MP10	X	-79.59	6
54	MP10	Z	137.85	6
55	MP10	X	-79.59	77.2
56	MP10	Z	137.85	77.2
57	MP10	X	-27.78	%25
58	MP10	Z	48.12	%25
59	MP10	X	-23.97	%50
60	MP10	Z	41.51	%50
61	MP12	X	-26.74	%25
62	MP12	Z	46.32	%25
63	MP12	X	-36.01	%50
64	MP12	Z	62.37	%50
65	MP11	X	-32.02	%50
66	MP11	Z	55.46	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP3	X	0	%25
2	MP3	Z	155.41	%25
3	MP3	X	0	%75
4	MP3	Z	121.46	%75
5	MP4	X	0	6
6	MP4	Z	184.98	6
7	MP4	X	0	77.2
8	MP4	Z	184.98	77.2
9	MP2	X	0	6
10	MP2	Z	184.98	6
11	MP2	X	0	77.2
12	MP2	Z	184.98	77.2
13	MP2	X	0	%25
14	MP2	Z	57.64	%25
15	MP2	X	0	%50
16	MP2	Z	53.63	%50
17	MP4	X	0	%25
18	MP4	Z	57.64	%25
19	MP4	X	0	%50
20	MP4	Z	79.84	%50
21	MP3	X	0	%50
22	MP3	Z	64.04	%50
23	MP7	X	0	%25



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
24	MP7	Z	103.86	%25
25	MP7	X	0	%75
26	MP7	Z	84.61	%75
27	MP8	X	0	6
28	MP8	Z	124.39	6
29	MP8	X	0	77.2
30	MP8	Z	124.39	77.2
31	MP6	X	0	6
32	MP6	Z	124.39	6
33	MP6	X	0	77.2
34	MP6	Z	124.39	77.2
35	MP6	X	0	%25
36	MP6	Z	52.77	%25
37	MP6	X	0	%50
38	MP6	Z	40.25	%50
39	MP8	X	0	%25
40	MP8	Z	47.9	%25
41	MP8	X	0	%50
42	MP8	Z	61.48	%50
43	MP7	X	0	%50
44	MP7	Z	64.04	%50
45	MP11	X	0	%25
46	MP11	Z	89.53	%25
47	MP11	X	0	%75
48	MP11	Z	74.36	%75
49	MP12	X	0	6
50	MP12	Z	107.54	6
51	MP12	X	0	77.2
52	MP12	Z	107.54	77.2
53	MP10	X	0	6
54	MP10	Z	107.54	6
55	MP10	X	0	77.2
56	MP10	Z	107.54	77.2
57	MP10	X	0	%25
58	MP10	Z	51.42	%25
59	MP10	X	0	%50
60	MP10	Z	36.52	%50
61	MP12	X	0	%25
62	MP12	Z	45.19	%25
63	MP12	X	0	%50
64	MP12	Z	56.38	%50
65	MP11	X	0	%50
66	MP11	Z	64.04	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP3	X	66.73	%25
2	MP3	Z	115.57	%25
3	MP3	X	52.88	%75
4	MP3	Z	91.59	%75
5	MP4	X	79.59	6
6	MP4	Z	137.85	6
7	MP4	X	79.59	77.2
8	MP4	Z	137.85	77.2
9	MP2	X	79.59	6
10	MP2	Z	137.85	6



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Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
11	MP2	X	79.59	77.2
12	MP2	Z	137.85	77.2
13	MP2	X	27.78	%25
14	MP2	Z	48.12	%25
15	MP2	X	23.97	%50
16	MP2	Z	41.51	%50
17	MP4	X	26.74	%25
18	MP4	Z	46.32	%25
19	MP4	X	36.01	%50
20	MP4	Z	62.37	%50
21	MP3	X	32.02	%50
22	MP3	Z	55.46	%50
23	MP7	X	72.57	%25
24	MP7	Z	125.69	%25
25	MP7	X	57.06	%75
26	MP7	Z	98.83	%75
27	MP8	X	86.45	6
28	MP8	Z	149.74	6
29	MP8	X	86.45	77.2
30	MP8	Z	149.74	77.2
31	MP6	X	86.45	6
32	MP6	Z	149.74	6
33	MP6	X	86.45	77.2
34	MP6	Z	149.74	77.2
35	MP6	X	28.33	%25
36	MP6	Z	49.08	%25
37	MP6	X	25.48	%50
38	MP6	Z	44.14	%50
39	MP8	X	27.85	%25
40	MP8	Z	48.23	%25
41	MP8	X	38.09	%50
42	MP8	Z	65.97	%50
43	MP7	X	32.02	%50
44	MP7	Z	55.46	%50
45	MP11	X	33.78	%25
46	MP11	Z	58.51	%25
47	MP11	X	29.33	%75
48	MP11	Z	50.8	%75
49	MP12	X	40.86	6
50	MP12	Z	70.78	6
51	MP12	X	40.86	77.2
52	MP12	Z	70.78	77.2
53	MP10	X	40.86	6
54	MP10	Z	70.78	6
55	MP10	X	40.86	77.2
56	MP10	Z	70.78	77.2
57	MP10	X	24.67	%25
58	MP10	Z	42.73	%25
59	MP10	X	15.41	%50
60	MP10	Z	26.69	%50
61	MP12	X	20.52	%25
62	MP12	Z	35.55	%25
63	MP12	X	24.28	%50
64	MP12	Z	42.05	%50
65	MP11	X	32.02	%50
66	MP11	Z	55.46	%50



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP3	X	77.53	%25
2	MP3	Z	44.76	%25
3	MP3	X	64.4	%75
4	MP3	Z	37.18	%75
5	MP4	X	93.14	6
6	MP4	Z	53.77	6
7	MP4	X	93.14	77.2
8	MP4	Z	53.77	77.2
9	MP2	X	93.14	6
10	MP2	Z	53.77	6
11	MP2	X	93.14	77.2
12	MP2	Z	53.77	77.2
13	MP2	X	44.53	%25
14	MP2	Z	25.71	%25
15	MP2	X	31.63	%50
16	MP2	Z	18.26	%50
17	MP4	X	39.14	%25
18	MP4	Z	22.6	%25
19	MP4	X	48.82	%50
20	MP4	Z	28.19	%50
21	MP3	X	55.46	%50
22	MP3	Z	32.02	%50
23	MP7	X	132.3	%25
24	MP7	Z	76.38	%25
25	MP7	X	103.55	%75
26	MP7	Z	59.78	%75
27	MP8	X	157.51	6
28	MP8	Z	90.94	6
29	MP8	X	157.51	77.2
30	MP8	Z	90.94	77.2
31	MP6	X	157.51	6
32	MP6	Z	90.94	6
33	MP6	X	157.51	77.2
34	MP6	Z	90.94	77.2
35	MP6	X	49.7	%25
36	MP6	Z	28.69	%25
37	MP6	X	45.85	%50
38	MP6	Z	26.47	%50
39	MP8	X	49.48	%25
40	MP8	Z	28.57	%25
41	MP8	X	68.33	%50
42	MP8	Z	39.45	%50
43	MP7	X	55.46	%50
44	MP7	Z	32.02	%50
45	MP11	X	77.53	%25
46	MP11	Z	44.76	%25
47	MP11	X	64.4	%75
48	MP11	Z	37.18	%75
49	MP12	X	93.14	6
50	MP12	Z	53.77	6
51	MP12	X	93.14	77.2
52	MP12	Z	53.77	77.2
53	MP10	X	93.14	6
54	MP10	Z	53.77	6
55	MP10	X	93.14	77.2
56	MP10	Z	53.77	77.2
57	MP10	X	44.53	%25



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Member Point Loads (BLC 10 : Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
58	MP10	Z	25.71	%25
59	MP10	X	31.63	%50
60	MP10	Z	18.26	%50
61	MP12	X	39.14	%25
62	MP12	Z	22.6	%25
63	MP12	X	48.82	%50
64	MP12	Z	28.19	%50
65	MP11	X	55.46	%50
66	MP11	Z	32.02	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP3	X	67.56	%25
2	MP3	Z	0	%25
3	MP3	X	58.66	%75
4	MP3	Z	0	%75
5	MP4	X	81.73	6
6	MP4	Z	0	6
7	MP4	X	81.73	77.2
8	MP4	Z	0	77.2
9	MP2	X	81.73	6
10	MP2	Z	0	6
11	MP2	X	81.73	77.2
12	MP2	Z	0	77.2
13	MP2	X	49.34	%25
14	MP2	Z	0	%25
15	MP2	X	30.82	%50
16	MP2	Z	0	%50
17	MP4	X	41.04	%25
18	MP4	Z	0	%25
19	MP4	X	48.56	%50
20	MP4	Z	0	%50
21	MP3	X	64.04	%50
22	MP3	Z	0	%50
23	MP7	X	119.12	%25
24	MP7	Z	0	%25
25	MP7	X	95.52	%75
26	MP7	Z	0	%75
27	MP8	X	142.32	6
28	MP8	Z	0	6
29	MP8	X	142.32	77.2
30	MP8	Z	0	77.2
31	MP6	X	142.32	6
32	MP6	Z	0	6
33	MP6	X	142.32	77.2
34	MP6	Z	0	77.2
35	MP6	X	54.21	%25
36	MP6	Z	0	%25
37	MP6	X	44.21	%50
38	MP6	Z	0	%50
39	MP8	X	50.78	%25
40	MP8	Z	0	%25
41	MP8	X	66.91	%50
42	MP8	Z	0	%50
43	MP7	X	64.04	%50
44	MP7	Z	0	%50



Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
45	MP11	X	133.45	%25
46	MP11	Z	0	%25
47	MP11	X	105.76	%75
48	MP11	Z	0	%75
49	MP12	X	159.17	6
50	MP12	Z	0	6
51	MP12	X	159.17	77.2
52	MP12	Z	0	77.2
53	MP10	X	159.17	6
54	MP10	Z	0	6
55	MP10	X	159.17	77.2
56	MP10	Z	0	77.2
57	MP10	X	55.56	%25
58	MP10	Z	0	%25
59	MP10	X	47.93	%50
60	MP10	Z	0	%50
61	MP12	X	53.49	%25
62	MP12	Z	0	%25
63	MP12	X	72.02	%50
64	MP12	Z	0	%50
65	MP11	X	64.04	%50
66	MP11	Z	0	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP3	X	77.53	%25
2	MP3	Z	-44.76	%25
3	MP3	X	64.4	%75
4	MP3	Z	-37.18	%75
5	MP4	X	93.14	6
6	MP4	Z	-53.77	6
7	MP4	X	93.14	77.2
8	MP4	Z	-53.77	77.2
9	MP2	X	93.14	6
10	MP2	Z	-53.77	6
11	MP2	X	93.14	77.2
12	MP2	Z	-53.77	77.2
13	MP2	X	44.53	%25
14	MP2	Z	-25.71	%25
15	MP2	X	31.63	%50
16	MP2	Z	-18.26	%50
17	MP4	X	39.14	%25
18	MP4	Z	-22.6	%25
19	MP4	X	48.82	%50
20	MP4	Z	-28.19	%50
21	MP3	X	55.46	%50
22	MP3	Z	-32.02	%50
23	MP7	X	67.41	%25
24	MP7	Z	-38.92	%25
25	MP7	X	57.17	%75
26	MP7	Z	-33.01	%75
27	MP8	X	81.24	6
28	MP8	Z	-46.9	6
29	MP8	X	81.24	77.2
30	MP8	Z	-46.9	77.2
31	MP6	X	81.24	6



Member Point Loads (BLC 12 : Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
32	MP6	Z	-46.9	6
33	MP6	X	81.24	77.2
34	MP6	Z	-46.9	77.2
35	MP6	X	43.57	%25
36	MP6	Z	-25.16	%25
37	MP6	X	29	%50
38	MP6	Z	-16.74	%50
39	MP8	X	37.23	%25
40	MP8	Z	-21.49	%25
41	MP8	X	45.22	%50
42	MP8	Z	-26.11	%50
43	MP7	X	55.46	%50
44	MP7	Z	-32.02	%50
45	MP11	X	134.59	%25
46	MP11	Z	-77.71	%25
47	MP11	X	105.19	%75
48	MP11	Z	-60.73	%75
49	MP12	X	160.2	6
50	MP12	Z	-92.49	6
51	MP12	X	160.2	77.2
52	MP12	Z	-92.49	77.2
53	MP10	X	160.2	6
54	MP10	Z	-92.49	6
55	MP10	X	160.2	77.2
56	MP10	Z	-92.49	77.2
57	MP10	X	49.92	%25
58	MP10	Z	-28.82	%25
59	MP10	X	46.45	%50
60	MP10	Z	-26.82	%50
61	MP12	X	49.92	%25
62	MP12	Z	-28.82	%25
63	MP12	X	69.14	%50
64	MP12	Z	-39.92	%50
65	MP11	X	55.46	%50
66	MP11	Z	-32.02	%50

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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP3	X	66.73	%25
2	MP3	Z	-115.57	%25
3	MP3	X	52.88	%75
4	MP3	Z	-91.59	%75
5	MP4	X	79.59	6
6	MP4	Z	-137.85	6
7	MP4	X	79.59	77.2
8	MP4	Z	-137.85	77.2
9	MP2	X	79.59	6
10	MP2	Z	-137.85	6
11	MP2	X	79.59	77.2
12	MP2	Z	-137.85	77.2
13	MP2	X	27.78	%25
14	MP2	Z	-48.12	%25
15	MP2	X	23.97	%50
16	MP2	Z	-41.51	%50
17	MP4	X	26.74	%25
18	MP4	Z	-46.32	%25



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

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
19	MP4	X	36.01	%50
20	MP4	Z	-62.37	%50
21	MP3	X	32.02	%50
22	MP3	Z	-55.46	%50
23	MP7	X	35.11	%25
24	MP7	Z	-60.81	%25
25	MP7	X	30.28	%75
26	MP7	Z	-52.44	%75
27	MP8	X	42.42	6
28	MP8	Z	-73.48	6
29	MP8	X	42.42	77.2
30	MP8	Z	-73.48	77.2
31	MP6	X	42.42	6
32	MP6	Z	-73.48	6
33	MP6	X	42.42	77.2
34	MP6	Z	-73.48	77.2
35	MP6	X	24.8	%25
36	MP6	Z	-42.95	%25
37	MP6	X	15.75	%50
38	MP6	Z	-27.29	%50
39	MP8	X	20.77	%25
40	MP8	Z	-35.98	%25
41	MP8	X	24.75	%50
42	MP8	Z	-42.87	%50
43	MP7	X	32.02	%50
44	MP7	Z	-55.46	%50
45	MP11	X	66.73	%25
46	MP11	Z	-115.57	%25
47	MP11	X	52.88	%75
48	MP11	Z	-91.59	%75
49	MP12	X	79.59	6
50	MP12	Z	-137.85	6
51	MP12	X	79.59	77.2
52	MP12	Z	-137.85	77.2
53	MP10	X	79.59	6
54	MP10	Z	-137.85	6
55	MP10	X	79.59	77.2
56	MP10	Z	-137.85	77.2
57	MP10	X	27.78	%25
58	MP10	Z	-48.12	%25
59	MP10	X	23.97	%50
60	MP10	Z	-41.51	%50
61	MP12	X	26.74	%25
62	MP12	Z	-46.32	%25
63	MP12	X	36.01	%50
64	MP12	Z	-62.37	%50
65	MP11	X	32.02	%50
66	MP11	Z	-55.46	%50

Member Point Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP3	Y	-140.724	%25
2	MP3	Y	-112.604	%75
3	MP4	Y	-136.902	6
4	MP4	Y	-136.902	77.2
5	MP2	Y	-136.902	6



Member Point Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
6	MP2	Y	-136.902	77.2
7	MP2	Y	-80.598	%25
8	MP2	Y	-63.772	%50
9	MP4	Y	-73.483	%25
10	MP4	Y	-83.5	%50
11	MP3	Y	-88.245	%50
12	MP7	Y	-140.724	%25
13	MP7	Y	-112.604	%75
14	MP8	Y	-136.902	6
15	MP8	Y	-136.902	77.2
16	MP6	Y	-136.902	6
17	MP6	Y	-136.902	77.2
18	MP6	Y	-80.598	%25
19	MP6	Y	-63.772	%50
20	MP8	Y	-73.483	%25
21	MP8	Y	-83.5	%50
22	MP7	Y	-88.245	%50
23	MP11	Y	-140.724	%25
24	MP11	Y	-112.604	%75
25	MP12	Y	-136.902	6
26	MP12	Y	-136.902	77.2
27	MP10	Y	-136.902	6
28	MP10	Y	-136.902	77.2
29	MP10	Y	-80.598	%25
30	MP10	Y	-63.772	%50
31	MP12	Y	-73.483	%25
32	MP12	Y	-83.5	%50
33	MP11	Y	-88.245	%50

Member Point Loads (BLC 17 : Ice Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP3	X	0	%25
2	MP3	Z	-15.22	%25
3	MP3	X	0	%75
4	MP3	Z	-12.36	%75
5	MP4	X	0	6
6	MP4	Z	-16.98	6
7	MP4	X	0	77.2
8	MP4	Z	-16.98	77.2
9	MP2	X	0	6
10	MP2	Z	-16.98	6
11	MP2	X	0	77.2
12	MP2	Z	-16.98	77.2
13	MP2	X	0	%25
14	MP2	Z	-6.98	%25
15	MP2	X	0	%50
16	MP2	Z	-6.53	%50
17	MP4	X	0	%25
18	MP4	Z	-6.98	%25
19	MP4	X	0	%50
20	MP4	Z	-9.64	%50
21	MP3	X	0	%50
22	MP3	Z	-8.3	%50
23	MP7	X	0	%25
24	MP7	Z	-11.95	%25
25	MP7	X	0	%75



Member Point Loads (BLC 17 : Ice Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
26	MP7	Z	-10.5	%75
27	MP8	X	0	6
28	MP8	Z	-13.67	6
29	MP8	X	0	77.2
30	MP8	Z	-13.67	77.2
31	MP6	X	0	6
32	MP6	Z	-13.67	6
33	MP6	X	0	77.2
34	MP6	Z	-13.67	77.2
35	MP6	X	0	%25
36	MP6	Z	-6.73	%25
37	MP6	X	0	%50
38	MP6	Z	-5.79	%50
39	MP8	X	0	%25
40	MP8	Z	-6.46	%25
41	MP8	X	0	%50
42	MP8	Z	-8.65	%50
43	MP7	X	0	%50
44	MP7	Z	-8.3	%50
45	MP11	X	0	%25
46	MP11	Z	-11.04	%25
47	MP11	X	0	%75
48	MP11	Z	-9.99	%75
49	MP12	X	0	6
50	MP12	Z	-12.75	6
51	MP12	X	0	77.2
52	MP12	Z	-12.75	77.2
53	MP10	X	0	6
54	MP10	Z	-12.75	6
55	MP10	X	0	77.2
56	MP10	Z	-12.75	77.2
57	MP10	X	0	%25
58	MP10	Z	-6.66	%25
59	MP10	X	0	%50
60	MP10	Z	-5.58	%50
61	MP12	X	0	%25
62	MP12	Z	-6.32	%25
63	MP12	X	0	%50
64	MP12	Z	-8.38	%50
65	MP11	X	0	%50
66	MP11	Z	-8.3	%50

Member Point Loads (BLC 18 : Ice Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP3	X	-6.92	%25
2	MP3	Z	-11.98	%25
3	MP3	X	-5.79	%75
4	MP3	Z	-10.02	%75
5	MP4	X	-7.79	6
6	MP4	Z	-13.49	6
7	MP4	X	-7.79	77.2
8	MP4	Z	-13.49	77.2
9	MP2	X	-7.79	6
10	MP2	Z	-13.49	6
11	MP2	X	-7.79	77.2
12	MP2	Z	-13.49	77.2



Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
13	MP2	X	-3.43	%25
14	MP2	Z	-5.95	%25
15	MP2	X	-3.11	%50
16	MP2	Z	-5.38	%50
17	MP4	X	-3.38	%25
18	MP4	Z	-5.85	%25
19	MP4	X	-4.61	%50
20	MP4	Z	-7.98	%50
21	MP3	X	-4.15	%50
22	MP3	Z	-7.19	%50
23	MP7	X	-7.29	%25
24	MP7	Z	-12.62	%25
25	MP7	X	-6	%75
26	MP7	Z	-10.39	%75
27	MP8	X	-8.16	6
28	MP8	Z	-14.14	6
29	MP8	X	-8.16	77.2
30	MP8	Z	-14.14	77.2
31	MP6	X	-8.16	6
32	MP6	Z	-14.14	6
33	MP6	X	-8.16	77.2
34	MP6	Z	-14.14	77.2
35	MP6	X	-3.46	%25
36	MP6	Z	-6	%25
37	MP6	X	-3.19	%50
38	MP6	Z	-5.52	%50
39	MP8	X	-3.44	%25
40	MP8	Z	-5.95	%25
41	MP8	X	-4.72	%50
42	MP8	Z	-8.17	%50
43	MP7	X	-4.15	%50
44	MP7	Z	-7.19	%50
45	MP11	X	-4.82	%25
46	MP11	Z	-8.36	%25
47	MP11	X	-4.6	%75
48	MP11	Z	-7.96	%75
49	MP12	X	-5.67	6
50	MP12	Z	-9.82	6
51	MP12	X	-5.67	77.2
52	MP12	Z	-9.82	77.2
53	MP10	X	-5.67	6
54	MP10	Z	-9.82	6
55	MP10	X	-5.67	77.2
56	MP10	Z	-9.82	77.2
57	MP10	X	-3.28	%25
58	MP10	Z	-5.67	%25
59	MP10	X	-2.63	%50
60	MP10	Z	-4.56	%50
61	MP12	X	-3.05	%25
62	MP12	Z	-5.28	%25
63	MP12	X	-3.98	%50
64	MP12	Z	-6.89	%50
65	MP11	X	-4.15	%50
66	MP11	Z	-7.19	%50

Member Point Loads (BLC 19 : Ice Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
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Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP3	X	-9.56	%25
2	MP3	Z	-5.52	%25
3	MP3	X	-8.65	%75
4	MP3	Z	-4.99	%75
5	MP4	X	-11.04	6
6	MP4	Z	-6.37	6
7	MP4	X	-11.04	77.2
8	MP4	Z	-6.37	77.2
9	MP2	X	-11.04	6
10	MP2	Z	-6.37	6
11	MP2	X	-11.04	77.2
12	MP2	Z	-6.37	77.2
13	MP2	X	-5.77	%25
14	MP2	Z	-3.33	%25
15	MP2	X	-4.83	%50
16	MP2	Z	-2.79	%50
17	MP4	X	-5.47	%25
18	MP4	Z	-3.16	%25
19	MP4	X	-7.25	%50
20	MP4	Z	-4.19	%50
21	MP3	X	-7.19	%50
22	MP3	Z	-4.15	%50
23	MP7	X	-13.04	%25
24	MP7	Z	-7.53	%25
25	MP7	X	-10.62	%75
26	MP7	Z	-6.13	%75
27	MP8	X	-14.56	6
28	MP8	Z	-8.41	6
29	MP8	X	-14.56	77.2
30	MP8	Z	-8.41	77.2
31	MP6	X	-14.56	6
32	MP6	Z	-8.41	6
33	MP6	X	-14.56	77.2
34	MP6	Z	-8.41	77.2
35	MP6	X	-6.03	%25
36	MP6	Z	-3.48	%25
37	MP6	X	-5.62	%50
38	MP6	Z	-3.24	%50
39	MP8	X	-6.02	%25
40	MP8	Z	-3.47	%25
41	MP8	X	-8.3	%50
42	MP8	Z	-4.79	%50
43	MP7	X	-7.19	%50
44	MP7	Z	-4.15	%50
45	MP11	X	-9.56	%25
46	MP11	Z	-5.52	%25
47	MP11	X	-8.65	%75
48	MP11	Z	-4.99	%75
49	MP12	X	-11.04	6
50	MP12	Z	-6.37	6
51	MP12	X	-11.04	77.2
52	MP12	Z	-6.37	77.2
53	MP10	X	-11.04	6
54	MP10	Z	-6.37	6
55	MP10	X	-11.04	77.2
56	MP10	Z	-6.37	77.2
57	MP10	X	-5.77	%25



Member Point Loads (BLC 19 : Ice Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
58	MP10	Z	-3.33	%25
59	MP10	X	-4.83	%50
60	MP10	Z	-2.79	%50
61	MP12	X	-5.47	%25
62	MP12	Z	-3.16	%25
63	MP12	X	-7.25	%50
64	MP12	Z	-4.19	%50
65	MP11	X	-7.19	%50
66	MP11	Z	-4.15	%50

Member Point Loads (BLC 20 : Ice Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP3	X	-9.65	%25
2	MP3	Z	0	%25
3	MP3	X	-9.19	%75
4	MP3	Z	0	%75
5	MP4	X	-11.34	6
6	MP4	Z	0	6
7	MP4	X	-11.34	77.2
8	MP4	Z	0	77.2
9	MP2	X	-11.34	6
10	MP2	Z	0	6
11	MP2	X	-11.34	77.2
12	MP2	Z	0	77.2
13	MP2	X	-6.55	%25
14	MP2	Z	0	%25
15	MP2	X	-5.27	%50
16	MP2	Z	0	%50
17	MP4	X	-6.1	%25
18	MP4	Z	0	%25
19	MP4	X	-7.96	%50
20	MP4	Z	0	%50
21	MP3	X	-8.3	%50
22	MP3	Z	0	%50
23	MP7	X	-12.92	%25
24	MP7	Z	0	%25
25	MP7	X	-11.05	%75
26	MP7	Z	0	%75
27	MP8	X	-14.65	6
28	MP8	Z	0	6
29	MP8	X	-14.65	77.2
30	MP8	Z	0	77.2
31	MP6	X	-14.65	6
32	MP6	Z	0	6
33	MP6	X	-14.65	77.2
34	MP6	Z	0	77.2
35	MP6	X	-6.8	%25
36	MP6	Z	0	%25
37	MP6	X	-6.01	%50
38	MP6	Z	0	%50
39	MP8	X	-6.61	%25
40	MP8	Z	0	%25
41	MP8	X	-8.94	%50
42	MP8	Z	0	%50
43	MP7	X	-8.3	%50
44	MP7	Z	0	%50



Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
45	MP11	X	-13.83	%25
46	MP11	Z	0	%25
47	MP11	X	-11.57	%75
48	MP11	Z	0	%75
49	MP12	X	-15.57	6
50	MP12	Z	0	6
51	MP12	X	-15.57	77.2
52	MP12	Z	0	77.2
53	MP10	X	-15.57	6
54	MP10	Z	0	6
55	MP10	X	-15.57	77.2
56	MP10	Z	0	77.2
57	MP10	X	-6.87	%25
58	MP10	Z	0	%25
59	MP10	X	-6.21	%50
60	MP10	Z	0	%50
61	MP12	X	-6.76	%25
62	MP12	Z	0	%25
63	MP12	X	-9.22	%50
64	MP12	Z	0	%50
65	MP11	X	-8.3	%50
66	MP11	Z	0	%50

Member Point Loads (BLC 21 : Ice Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP3	X	-9.56	%25
2	MP3	Z	5.52	%25
3	MP3	X	-8.65	%75
4	MP3	Z	4.99	%75
5	MP4	X	-11.04	6
6	MP4	Z	6.37	6
7	MP4	X	-11.04	77.2
8	MP4	Z	6.37	77.2
9	MP2	X	-11.04	6
10	MP2	Z	6.37	6
11	MP2	X	-11.04	77.2
12	MP2	Z	6.37	77.2
13	MP2	X	-5.77	%25
14	MP2	Z	3.33	%25
15	MP2	X	-4.83	%50
16	MP2	Z	2.79	%50
17	MP4	X	-5.47	%25
18	MP4	Z	3.16	%25
19	MP4	X	-7.25	%50
20	MP4	Z	4.19	%50
21	MP3	X	-7.19	%50
22	MP3	Z	4.15	%50
23	MP7	X	-8.92	%25
24	MP7	Z	5.15	%25
25	MP7	X	-8.28	%75
26	MP7	Z	4.78	%75
27	MP8	X	-10.39	6
28	MP8	Z	6	6
29	MP8	X	-10.39	77.2
30	MP8	Z	6	77.2
31	MP6	X	-10.39	6



Member Point Loads (BLC 21 : Ice Wind Load AZI 120) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
32	MP6	Z	6	6
33	MP6	X	-10.39	77.2
34	MP6	Z	6	77.2
35	MP6	X	-5.72	%25
36	MP6	Z	3.3	%25
37	MP6	X	-4.69	%50
38	MP6	Z	2.71	%50
39	MP8	X	-5.37	%25
40	MP8	Z	3.1	%25
41	MP8	X	-7.06	%50
42	MP8	Z	4.08	%50
43	MP7	X	-7.19	%50
44	MP7	Z	4.15	%50
45	MP11	X	-13.19	%25
46	MP11	Z	7.61	%25
47	MP11	X	-10.71	%75
48	MP11	Z	6.18	%75
49	MP12	X	-14.71	6
50	MP12	Z	8.49	6
51	MP12	X	-14.71	77.2
52	MP12	Z	8.49	77.2
53	MP10	X	-14.71	6
54	MP10	Z	8.49	6
55	MP10	X	-14.71	77.2
56	MP10	Z	8.49	77.2
57	MP10	X	-6.04	%25
58	MP10	Z	3.49	%25
59	MP10	X	-5.65	%50
60	MP10	Z	3.26	%50
61	MP12	X	-6.04	%25
62	MP12	Z	3.49	%25
63	MP12	X	-8.34	%50
64	MP12	Z	4.82	%50
65	MP11	X	-7.19	%50
66	MP11	Z	4.15	%50

Member Point Loads (BLC 22 : Ice Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP3	X	-6.92	%25
2	MP3	Z	11.98	%25
3	MP3	X	-5.79	%75
4	MP3	Z	10.02	%75
5	MP4	X	-7.79	6
6	MP4	Z	13.49	6
7	MP4	X	-7.79	77.2
8	MP4	Z	13.49	77.2
9	MP2	X	-7.79	6
10	MP2	Z	13.49	6
11	MP2	X	-7.79	77.2
12	MP2	Z	13.49	77.2
13	MP2	X	-3.43	%25
14	MP2	Z	5.95	%25
15	MP2	X	-3.11	%50
16	MP2	Z	5.38	%50
17	MP4	X	-3.38	%25
18	MP4	Z	5.85	%25



Member Point Loads (BLC 22 : Ice Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
19	MP4	X	-4.61	%50
20	MP4	Z	7.98	%50
21	MP3	X	-4.15	%50
22	MP3	Z	7.19	%50
23	MP7	X	-4.91	%25
24	MP7	Z	8.5	%25
25	MP7	X	-4.64	%75
26	MP7	Z	8.04	%75
27	MP8	X	-5.75	6
28	MP8	Z	9.97	6
29	MP8	X	-5.75	77.2
30	MP8	Z	9.97	77.2
31	MP6	X	-5.75	6
32	MP6	Z	9.97	6
33	MP6	X	-5.75	77.2
34	MP6	Z	9.97	77.2
35	MP6	X	-3.28	%25
36	MP6	Z	5.68	%25
37	MP6	X	-2.65	%50
38	MP6	Z	4.59	%50
39	MP8	X	-3.06	%25
40	MP8	Z	5.3	%25
41	MP8	X	-4	%50
42	MP8	Z	6.93	%50
43	MP7	X	-4.15	%50
44	MP7	Z	7.19	%50
45	MP11	X	-6.92	%25
46	MP11	Z	11.98	%25
47	MP11	X	-5.79	%75
48	MP11	Z	10.02	%75
49	MP12	X	-7.79	6
50	MP12	Z	13.49	6
51	MP12	X	-7.79	77.2
52	MP12	Z	13.49	77.2
53	MP10	X	-7.79	6
54	MP10	Z	13.49	6
55	MP10	X	-7.79	77.2
56	MP10	Z	13.49	77.2
57	MP10	X	-3.43	%25
58	MP10	Z	5.95	%25
59	MP10	X	-3.11	%50
60	MP10	Z	5.38	%50
61	MP12	X	-3.38	%25
62	MP12	Z	5.85	%25
63	MP12	X	-4.61	%50
64	MP12	Z	7.98	%50
65	MP11	X	-4.15	%50
66	MP11	Z	7.19	%50

Member Point Loads (BLC 23 : Ice Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP3	X	0	%25
2	MP3	Z	15.22	%25
3	MP3	X	0	%75
4	MP3	Z	12.36	%75
5	MP4	X	0	6



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 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb.-ft]	Location[in, %]
6	MP4	Z	16.98	6
7	MP4	X	0	77.2
8	MP4	Z	16.98	77.2
9	MP2	X	0	6
10	MP2	Z	16.98	6
11	MP2	X	0	77.2
12	MP2	Z	16.98	77.2
13	MP2	X	0	%25
14	MP2	Z	6.98	%25
15	MP2	X	0	%50
16	MP2	Z	6.53	%50
17	MP4	X	0	%25
18	MP4	Z	6.98	%25
19	MP4	X	0	%50
20	MP4	Z	9.64	%50
21	MP3	X	0	%50
22	MP3	Z	8.3	%50
23	MP7	X	0	%25
24	MP7	Z	11.95	%25
25	MP7	X	0	%75
26	MP7	Z	10.5	%75
27	MP8	X	0	6
28	MP8	Z	13.67	6
29	MP8	X	0	77.2
30	MP8	Z	13.67	77.2
31	MP6	X	0	6
32	MP6	Z	13.67	6
33	MP6	X	0	77.2
34	MP6	Z	13.67	77.2
35	MP6	X	0	%25
36	MP6	Z	6.73	%25
37	MP6	X	0	%50
38	MP6	Z	5.79	%50
39	MP8	X	0	%25
40	MP8	Z	6.46	%25
41	MP8	X	0	%50
42	MP8	Z	8.65	%50
43	MP7	X	0	%50
44	MP7	Z	8.3	%50
45	MP11	X	0	%25
46	MP11	Z	11.04	%25
47	MP11	X	0	%75
48	MP11	Z	9.99	%75
49	MP12	X	0	6
50	MP12	Z	12.75	6
51	MP12	X	0	77.2
52	MP12	Z	12.75	77.2
53	MP10	X	0	6
54	MP10	Z	12.75	6
55	MP10	X	0	77.2
56	MP10	Z	12.75	77.2
57	MP10	X	0	%25
58	MP10	Z	6.66	%25
59	MP10	X	0	%50
60	MP10	Z	5.58	%50
61	MP12	X	0	%25
62	MP12	Z	6.32	%25



Member Point Loads (BLC 23 : Ice Wind Load AZI 180) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
63	MP12	X	0	%50
64	MP12	Z	8.38	%50
65	MP11	X	0	%50
66	MP11	Z	8.3	%50

Member Point Loads (BLC 24 : Ice Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP3	X	6.92	%25
2	MP3	Z	11.98	%25
3	MP3	X	5.79	%75
4	MP3	Z	10.02	%75
5	MP4	X	7.79	6
6	MP4	Z	13.49	6
7	MP4	X	7.79	77.2
8	MP4	Z	13.49	77.2
9	MP2	X	7.79	6
10	MP2	Z	13.49	6
11	MP2	X	7.79	77.2
12	MP2	Z	13.49	77.2
13	MP2	X	3.43	%25
14	MP2	Z	5.95	%25
15	MP2	X	3.11	%50
16	MP2	Z	5.38	%50
17	MP4	X	3.38	%25
18	MP4	Z	5.85	%25
19	MP4	X	4.61	%50
20	MP4	Z	7.98	%50
21	MP3	X	4.15	%50
22	MP3	Z	7.19	%50
23	MP7	X	7.29	%25
24	MP7	Z	12.62	%25
25	MP7	X	6	%75
26	MP7	Z	10.39	%75
27	MP8	X	8.16	6
28	MP8	Z	14.14	6
29	MP8	X	8.16	77.2
30	MP8	Z	14.14	77.2
31	MP6	X	8.16	6
32	MP6	Z	14.14	6
33	MP6	X	8.16	77.2
34	MP6	Z	14.14	77.2
35	MP6	X	3.46	%25
36	MP6	Z	6	%25
37	MP6	X	3.19	%50
38	MP6	Z	5.52	%50
39	MP8	X	3.44	%25
40	MP8	Z	5.95	%25
41	MP8	X	4.72	%50
42	MP8	Z	8.17	%50
43	MP7	X	4.15	%50
44	MP7	Z	7.19	%50
45	MP11	X	4.82	%25
46	MP11	Z	8.36	%25
47	MP11	X	4.6	%75
48	MP11	Z	7.96	%75
49	MP12	X	5.67	6



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 Model Name : CLT01028

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Member Point Loads (BLC 24 : Ice Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
50	MP12	Z	9.82	6
51	MP12	X	5.67	77.2
52	MP12	Z	9.82	77.2
53	MP10	X	5.67	6
54	MP10	Z	9.82	6
55	MP10	X	5.67	77.2
56	MP10	Z	9.82	77.2
57	MP10	X	3.28	%25
58	MP10	Z	5.67	%25
59	MP10	X	2.63	%50
60	MP10	Z	4.56	%50
61	MP12	X	3.05	%25
62	MP12	Z	5.28	%25
63	MP12	X	3.98	%50
64	MP12	Z	6.89	%50
65	MP11	X	4.15	%50
66	MP11	Z	7.19	%50

Member Point Loads (BLC 25 : Ice Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP3	X	9.56	%25
2	MP3	Z	5.52	%25
3	MP3	X	8.65	%75
4	MP3	Z	4.99	%75
5	MP4	X	11.04	6
6	MP4	Z	6.37	6
7	MP4	X	11.04	77.2
8	MP4	Z	6.37	77.2
9	MP2	X	11.04	6
10	MP2	Z	6.37	6
11	MP2	X	11.04	77.2
12	MP2	Z	6.37	77.2
13	MP2	X	5.77	%25
14	MP2	Z	3.33	%25
15	MP2	X	4.83	%50
16	MP2	Z	2.79	%50
17	MP4	X	5.47	%25
18	MP4	Z	3.16	%25
19	MP4	X	7.25	%50
20	MP4	Z	4.19	%50
21	MP3	X	7.19	%50
22	MP3	Z	4.15	%50
23	MP7	X	13.04	%25
24	MP7	Z	7.53	%25
25	MP7	X	10.62	%75
26	MP7	Z	6.13	%75
27	MP8	X	14.56	6
28	MP8	Z	8.41	6
29	MP8	X	14.56	77.2
30	MP8	Z	8.41	77.2
31	MP6	X	14.56	6
32	MP6	Z	8.41	6
33	MP6	X	14.56	77.2
34	MP6	Z	8.41	77.2
35	MP6	X	6.03	%25
36	MP6	Z	3.48	%25



Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
37	MP6	X	5.62	%50
38	MP6	Z	3.24	%50
39	MP8	X	6.02	%25
40	MP8	Z	3.47	%25
41	MP8	X	8.3	%50
42	MP8	Z	4.79	%50
43	MP7	X	7.19	%50
44	MP7	Z	4.15	%50
45	MP11	X	9.56	%25
46	MP11	Z	5.52	%25
47	MP11	X	8.65	%75
48	MP11	Z	4.99	%75
49	MP12	X	11.04	6
50	MP12	Z	6.37	6
51	MP12	X	11.04	77.2
52	MP12	Z	6.37	77.2
53	MP10	X	11.04	6
54	MP10	Z	6.37	6
55	MP10	X	11.04	77.2
56	MP10	Z	6.37	77.2
57	MP10	X	5.77	%25
58	MP10	Z	3.33	%25
59	MP10	X	4.83	%50
60	MP10	Z	2.79	%50
61	MP12	X	5.47	%25
62	MP12	Z	3.16	%25
63	MP12	X	7.25	%50
64	MP12	Z	4.19	%50
65	MP11	X	7.19	%50
66	MP11	Z	4.15	%50

Member Point Loads (BLC 26 : Ice Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in, %]
1	MP3	X	9.65	%25
2	MP3	Z	0	%25
3	MP3	X	9.19	%75
4	MP3	Z	0	%75
5	MP4	X	11.34	6
6	MP4	Z	0	6
7	MP4	X	11.34	77.2
8	MP4	Z	0	77.2
9	MP2	X	11.34	6
10	MP2	Z	0	6
11	MP2	X	11.34	77.2
12	MP2	Z	0	77.2
13	MP2	X	6.55	%25
14	MP2	Z	0	%25
15	MP2	X	5.27	%50
16	MP2	Z	0	%50
17	MP4	X	6.1	%25
18	MP4	Z	0	%25
19	MP4	X	7.96	%50
20	MP4	Z	0	%50
21	MP3	X	8.3	%50
22	MP3	Z	0	%50
23	MP7	X	12.92	%25



Member Point Loads (BLC 26 : Ice Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb.-ft]	Location[in.-%]
24	MP7	Z	0	%25
25	MP7	X	11.05	%75
26	MP7	Z	0	%75
27	MP8	X	14.65	6
28	MP8	Z	0	6
29	MP8	X	14.65	77.2
30	MP8	Z	0	77.2
31	MP6	X	14.65	6
32	MP6	Z	0	6
33	MP6	X	14.65	77.2
34	MP6	Z	0	77.2
35	MP6	X	6.8	%25
36	MP6	Z	0	%25
37	MP6	X	6.01	%50
38	MP6	Z	0	%50
39	MP8	X	6.61	%25
40	MP8	Z	0	%25
41	MP8	X	8.94	%50
42	MP8	Z	0	%50
43	MP7	X	8.3	%50
44	MP7	Z	0	%50
45	MP11	X	13.83	%25
46	MP11	Z	0	%25
47	MP11	X	11.57	%75
48	MP11	Z	0	%75
49	MP12	X	15.57	6
50	MP12	Z	0	6
51	MP12	X	15.57	77.2
52	MP12	Z	0	77.2
53	MP10	X	15.57	6
54	MP10	Z	0	6
55	MP10	X	15.57	77.2
56	MP10	Z	0	77.2
57	MP10	X	6.87	%25
58	MP10	Z	0	%25
59	MP10	X	6.21	%50
60	MP10	Z	0	%50
61	MP12	X	6.76	%25
62	MP12	Z	0	%25
63	MP12	X	9.22	%50
64	MP12	Z	0	%50
65	MP11	X	8.3	%50
66	MP11	Z	0	%50

Member Point Loads (BLC 27 : Ice Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb.-ft]	Location[in.-%]
1	MP3	X	9.56	%25
2	MP3	Z	-5.52	%25
3	MP3	X	8.65	%75
4	MP3	Z	-4.99	%75
5	MP4	X	11.04	6
6	MP4	Z	-6.37	6
7	MP4	X	11.04	77.2
8	MP4	Z	-6.37	77.2
9	MP2	X	11.04	6
10	MP2	Z	-6.37	6



Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
11	MP2	X	11.04	77.2
12	MP2	Z	-6.37	77.2
13	MP2	X	5.77	%25
14	MP2	Z	-3.33	%25
15	MP2	X	4.83	%50
16	MP2	Z	-2.79	%50
17	MP4	X	5.47	%25
18	MP4	Z	-3.16	%25
19	MP4	X	7.25	%50
20	MP4	Z	-4.19	%50
21	MP3	X	7.19	%50
22	MP3	Z	-4.15	%50
23	MP7	X	8.92	%25
24	MP7	Z	-5.15	%25
25	MP7	X	8.28	%75
26	MP7	Z	-4.78	%75
27	MP8	X	10.39	6
28	MP8	Z	-6	6
29	MP8	X	10.39	77.2
30	MP8	Z	-6	77.2
31	MP6	X	10.39	6
32	MP6	Z	-6	6
33	MP6	X	10.39	77.2
34	MP6	Z	-6	77.2
35	MP6	X	5.72	%25
36	MP6	Z	-3.3	%25
37	MP6	X	4.69	%50
38	MP6	Z	-2.71	%50
39	MP8	X	5.37	%25
40	MP8	Z	-3.1	%25
41	MP8	X	7.06	%50
42	MP8	Z	-4.08	%50
43	MP7	X	7.19	%50
44	MP7	Z	-4.15	%50
45	MP11	X	13.19	%25
46	MP11	Z	-7.61	%25
47	MP11	X	10.71	%75
48	MP11	Z	-6.18	%75
49	MP12	X	14.71	6
50	MP12	Z	-8.49	6
51	MP12	X	14.71	77.2
52	MP12	Z	-8.49	77.2
53	MP10	X	14.71	6
54	MP10	Z	-8.49	6
55	MP10	X	14.71	77.2
56	MP10	Z	-8.49	77.2
57	MP10	X	6.04	%25
58	MP10	Z	-3.49	%25
59	MP10	X	5.65	%50
60	MP10	Z	-3.26	%50
61	MP12	X	6.04	%25
62	MP12	Z	-3.49	%25
63	MP12	X	8.34	%50
64	MP12	Z	-4.82	%50
65	MP11	X	7.19	%50
66	MP11	Z	-4.15	%50



Member Point Loads (BLC 28 : Ice Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
1	MP3	X	6.92	%25
2	MP3	Z	-11.98	%25
3	MP3	X	5.79	%75
4	MP3	Z	-10.02	%75
5	MP4	X	7.79	6
6	MP4	Z	-13.49	6
7	MP4	X	7.79	77.2
8	MP4	Z	-13.49	77.2
9	MP2	X	7.79	6
10	MP2	Z	-13.49	6
11	MP2	X	7.79	77.2
12	MP2	Z	-13.49	77.2
13	MP2	X	3.43	%25
14	MP2	Z	-5.95	%25
15	MP2	X	3.11	%50
16	MP2	Z	-5.38	%50
17	MP4	X	3.38	%25
18	MP4	Z	-5.85	%25
19	MP4	X	4.61	%50
20	MP4	Z	-7.98	%50
21	MP3	X	4.15	%50
22	MP3	Z	-7.19	%50
23	MP7	X	4.91	%25
24	MP7	Z	-8.5	%25
25	MP7	X	4.64	%75
26	MP7	Z	-8.04	%75
27	MP8	X	5.75	6
28	MP8	Z	-9.97	6
29	MP8	X	5.75	77.2
30	MP8	Z	-9.97	77.2
31	MP6	X	5.75	6
32	MP6	Z	-9.97	6
33	MP6	X	5.75	77.2
34	MP6	Z	-9.97	77.2
35	MP6	X	3.28	%25
36	MP6	Z	-5.68	%25
37	MP6	X	2.65	%50
38	MP6	Z	-4.59	%50
39	MP8	X	3.06	%25
40	MP8	Z	-5.3	%25
41	MP8	X	4	%50
42	MP8	Z	-6.93	%50
43	MP7	X	4.15	%50
44	MP7	Z	-7.19	%50
45	MP11	X	6.92	%25
46	MP11	Z	-11.98	%25
47	MP11	X	5.79	%75
48	MP11	Z	-10.02	%75
49	MP12	X	7.79	6
50	MP12	Z	-13.49	6
51	MP12	X	7.79	77.2
52	MP12	Z	-13.49	77.2
53	MP10	X	7.79	6
54	MP10	Z	-13.49	6
55	MP10	X	7.79	77.2
56	MP10	Z	-13.49	77.2
57	MP10	X	3.43	%25



Member Point Loads (BLC 28 : Ice Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
58	MP10	Z	-5.95	%25
59	MP10	X	3.11	%50
60	MP10	Z	-5.38	%50
61	MP12	X	3.38	%25
62	MP12	Z	-5.85	%25
63	MP12	X	4.61	%50
64	MP12	Z	-7.98	%50
65	MP11	X	4.15	%50
66	MP11	Z	-7.19	%50

Member Point Loads (BLC 31 : Seismic Load Z)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP3	Z	-31.949	%25
2	MP3	Z	-17.019	%75
3	MP4	Z	-12.196	6
4	MP4	Z	-12.196	77.2
5	MP2	Z	-10.491	6
6	MP2	Z	-10.491	77.2
7	MP2	Z	-23.04	%25
8	MP2	Z	-18.401	%50
9	MP4	Z	-21.504	%25
10	MP4	Z	-16.282	%50
11	MP3	Z	-10.076	%50
12	MP7	Z	-31.949	%25
13	MP7	Z	-17.019	%75
14	MP8	Z	-12.196	6
15	MP8	Z	-12.196	77.2
16	MP6	Z	-10.491	6
17	MP6	Z	-10.491	77.2
18	MP6	Z	-23.04	%25
19	MP6	Z	-18.401	%50
20	MP8	Z	-21.504	%25
21	MP8	Z	-16.282	%50
22	MP7	Z	-10.076	%50
23	MP11	Z	-31.949	%25
24	MP11	Z	-17.019	%75
25	MP12	Z	-12.196	6
26	MP12	Z	-12.196	77.2
27	MP10	Z	-10.491	6
28	MP10	Z	-10.491	77.2
29	MP10	Z	-23.04	%25
30	MP10	Z	-18.401	%50
31	MP12	Z	-21.504	%25
32	MP12	Z	-16.282	%50
33	MP11	Z	-10.076	%50

Member Point Loads (BLC 32 : Seismic Load X)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP3	X	-31.949	%25
2	MP3	X	-17.019	%75
3	MP4	X	-12.196	6
4	MP4	X	-12.196	77.2
5	MP2	X	-10.491	6
6	MP2	X	-10.491	77.2
7	MP2	X	-23.04	%25
8	MP2	X	-18.401	%50



Member Point Loads (BLC 32 : Seismic Load X) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.-%]
9	MP4	X	-21.504	%25
10	MP4	X	-16.282	%50
11	MP3	X	-10.076	%50
12	MP7	X	-31.949	%25
13	MP7	X	-17.019	%75
14	MP8	X	-12.196	6
15	MP8	X	-12.196	77.2
16	MP6	X	-10.491	6
17	MP6	X	-10.491	77.2
18	MP6	X	-23.04	%25
19	MP6	X	-18.401	%50
20	MP8	X	-21.504	%25
21	MP8	X	-16.282	%50
22	MP7	X	-10.076	%50
23	MP11	X	-31.949	%25
24	MP11	X	-17.019	%75
25	MP12	X	-12.196	6
26	MP12	X	-12.196	77.2
27	MP10	X	-10.491	6
28	MP10	X	-10.491	77.2
29	MP10	X	-23.04	%25
30	MP10	X	-18.401	%50
31	MP12	X	-21.504	%25
32	MP12	X	-16.282	%50
33	MP11	X	-10.076	%50

Member Distributed Loads (BLC 14 : Distr. Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in.-%]	End Location[in.-%]
1	M31	SZ	-64.689	-64.689	0	%100
2	M33	SZ	-64.689	-64.689	0	%100
3	M34A	SZ	-64.689	-64.689	0	%100
4	M45A	SZ	-64.689	-64.689	0	%100
5	M50	SZ	0	0	0	%100
6	M51	SZ	0	0	0	%100
7	M52	SZ	0	0	0	%100
8	M53	SZ	0	0	0	%100
9	M54	SZ	-64.689	-64.689	0	%100
10	M54A	SZ	0	0	0	%100
11	M55	SZ	0	0	0	%100
12	M56	SZ	0	0	0	%100
13	M57	SZ	0	0	0	%100
14	M57A	SZ	0	0	0	%100
15	M58	SZ	0	0	0	%100
16	M59	SZ	0	0	0	%100
17	M59A	SZ	0	0	0	%100
18	M60	SZ	-64.689	-64.689	0	%100
19	M60A	SZ	0	0	0	%100
20	M61	SZ	-64.689	-64.689	0	%100
21	M61A	SZ	0	0	0	%100
22	M62	SZ	-64.689	-64.689	0	%100
23	M62A	SZ	0	0	0	%100
24	M63	SZ	0	0	0	%100
25	M63A	SZ	0	0	0	%100
26	M64	SZ	0	0	0	%100
27	M64A	SZ	0	0	0	%100



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 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
28	M65	SZ	0	0	%100
29	M65A	SZ	0	0	%100
30	M66	SZ	-64.689	-64.689	0
31	M66A	SZ	0	0	%100
32	M67	SZ	0	0	%100
33	M68	SZ	-64.689	-64.689	0
34	M70	SZ	0	0	%100
35	M73	SZ	-64.689	-64.689	0
36	M74	SZ	-64.689	-64.689	0
37	M74B	SZ	-64.689	-64.689	0
38	M74C	SZ	-64.689	-64.689	0
39	M75	SZ	-64.689	-64.689	0
40	M75B	SZ	-64.689	-64.689	0
41	M76	SZ	-64.689	-64.689	0
42	M77	SZ	-64.689	-64.689	0
43	M78	SZ	-64.689	-64.689	0
44	M79	SZ	-64.689	-64.689	0
45	M80	SZ	-64.689	-64.689	0
46	M81	SZ	-64.689	-64.689	0
47	M82	SZ	-64.689	-64.689	0
48	M83	SZ	-64.689	-64.689	0
49	M84	SZ	-64.689	-64.689	0
50	M85	SZ	-64.689	-64.689	0
51	M94	SZ	0	0	%100
52	M95	SZ	0	0	%100
53	M96	SZ	0	0	%100
54	M97	SZ	0	0	%100
55	M99	SZ	0	0	%100
56	M100	SZ	0	0	%100
57	M101	SZ	0	0	%100
58	M102	SZ	0	0	%100
59	M103	SZ	0	0	%100
60	M104	SZ	0	0	%100
61	M105	SZ	0	0	%100
62	M106	SZ	0	0	%100
63	M108	SZ	0	0	%100
64	M109	SZ	0	0	%100
65	M110	SZ	0	0	%100
66	M111	SZ	0	0	%100
67	M112	SZ	0	0	%100
68	M113	SZ	0	0	%100
69	M114	SZ	0	0	%100
70	M115	SZ	0	0	%100
71	M116	SZ	0	0	%100
72	M117	SZ	0	0	%100
73	M118	SZ	0	0	%100
74	M119	SZ	0	0	%100
75	M122	SZ	-64.689	-64.689	0
76	M123	SZ	-64.689	-64.689	0
77	M124	SZ	-64.689	-64.689	0
78	M125	SZ	-64.689	-64.689	0
79	M126	SZ	-64.689	-64.689	0
80	M127	SZ	-64.689	-64.689	0
81	M127A	SZ	0	0	%100
82	M128	SZ	-64.689	-64.689	0
83	M128A	SZ	0	0	%100
84	M129	SZ	-64.689	-64.689	0



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
85	M129A	SZ	0	0	%100
86	M130	SZ	-64.689	-64.689	%100
87	M130A	SZ	0	0	%100
88	M131	SZ	-64.689	-64.689	%100
89	M131A	SZ	0	0	%100
90	M132	SZ	-64.689	-64.689	%100
91	M132A	SZ	0	0	%100
92	M133	SZ	-64.689	-64.689	%100
93	M133A	SZ	0	0	%100
94	M134	SZ	-64.689	-64.689	%100
95	M134A	SZ	0	0	%100
96	M136A	SZ	0	0	%100
97	M137A	SZ	0	0	%100
98	M138A	SZ	0	0	%100
99	M139A	SZ	0	0	%100
100	M140A	SZ	0	0	%100
101	M141A	SZ	0	0	%100
102	M142	SZ	0	0	%100
103	M143	SZ	0	0	%100
104	MH3	SZ	-38.813	-38.813	%100
105	MH1	SZ	-38.813	-38.813	%100
106	MH2	SZ	-38.813	-38.813	%100
107	M198	SZ	0	0	%100
108	M199	SZ	0	0	%100
109	M200	SZ	0	0	%100
110	M201	SZ	0	0	%100
111	M202	SZ	0	0	%100
112	M203	SZ	0	0	%100
113	M204	SZ	0	0	%100
114	M205	SZ	0	0	%100
115	M206	SZ	0	0	%100
116	M207	SZ	0	0	%100
117	M208	SZ	0	0	%100
118	M209	SZ	0	0	%100
119	M210	SZ	0	0	%100
120	M211	SZ	0	0	%100
121	M212	SZ	0	0	%100
122	M213	SZ	0	0	%100
123	M214	SZ	0	0	%100
124	M215	SZ	0	0	%100
125	M216	SZ	-64.689	-64.689	%100
126	M217	SZ	-64.689	-64.689	%100
127	M218	SZ	-64.689	-64.689	%100
128	M219	SZ	-64.689	-64.689	%100
129	M220	SZ	-64.689	-64.689	%100
130	M221	SZ	-64.689	-64.689	%100
131	M222	SZ	-64.689	-64.689	%100
132	M223	SZ	-64.689	-64.689	%100
133	M224	SZ	-64.689	-64.689	%100
134	M225	SZ	-64.689	-64.689	%100
135	M226	SZ	-64.689	-64.689	%100
136	M227	SZ	-64.689	-64.689	%100
137	M228	SZ	-64.689	-64.689	%100
138	M229	SZ	0	0	%100
139	M230	SZ	-64.689	-64.689	%100
140	M231	SZ	-64.689	-64.689	%100
141	M232	SZ	-64.689	-64.689	%100



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
142	M233	SZ	-64.689	-64.689	0 %100
143	M234	SZ	-64.689	-64.689	0 %100
144	M235	SZ	-64.689	-64.689	0 %100
145	M236	SZ	-64.689	-64.689	0 %100
146	M237	SZ	-64.689	-64.689	0 %100
147	M238	SZ	-64.689	-64.689	0 %100
148	M239	SZ	-64.689	-64.689	0 %100
149	M240	SZ	-64.689	-64.689	0 %100
150	M241	SZ	0	0	0 %100
151	M242	SZ	0	0	0 %100
152	M243	SZ	0	0	0 %100
153	M244	SZ	0	0	0 %100
154	M245	SZ	-64.689	-64.689	0 %100
155	M246	SZ	-64.689	-64.689	0 %100
156	M247	SZ	-64.689	-64.689	0 %100
157	M248	SZ	-64.689	-64.689	0 %100
158	M249	SZ	-64.689	-64.689	0 %100
159	M250	SZ	-64.689	-64.689	0 %100
160	M251	SZ	-64.689	-64.689	0 %100
161	M252	SZ	-64.689	-64.689	0 %100
162	M253	SZ	-64.689	-64.689	0 %100
163	M254	SZ	-64.689	-64.689	0 %100
164	M255	SZ	-64.689	-64.689	0 %100
165	M256	SZ	-64.689	-64.689	0 %100
166	M257	SZ	0	0	0 %100
167	M258	SZ	0	0	0 %100
168	M259	SZ	0	0	0 %100
169	M260	SZ	0	0	0 %100
170	M261	SZ	-64.689	-64.689	0 %100
171	M262	SZ	-64.689	-64.689	0 %100
172	M263	SZ	-64.689	-64.689	0 %100
173	M264	SZ	-64.689	-64.689	0 %100
174	M265	SZ	0	0	0 %100
175	M265A	SZ	-64.689	-64.689	0 %100
176	M266	SZ	0	0	0 %100
177	M266A	SZ	-64.689	-64.689	0 %100
178	M267	SZ	0	0	0 %100
179	M267A	SZ	-64.689	-64.689	0 %100
180	M268	SZ	0	0	0 %100
181	M268A	SZ	-64.689	-64.689	0 %100
182	M269	SZ	0	0	0 %100
183	M269A	SZ	0	0	0 %100
184	M270	SZ	0	0	0 %100
185	M270A	SZ	0	0	0 %100
186	M271	SZ	0	0	0 %100
187	M271A	SZ	0	0	0 %100
188	M272	SZ	0	0	0 %100
189	M272A	SZ	0	0	0 %100
190	M273	SZ	0	0	0 %100
191	M273A	SZ	0	0	0 %100
192	M274	SZ	0	0	0 %100
193	M274A	SZ	0	0	0 %100
194	M275	SZ	0	0	0 %100
195	M275A	SZ	0	0	0 %100
196	M276	SZ	0	0	0 %100
197	M276A	SZ	0	0	0 %100
198	M277	SZ	0	0	0 %100



Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
199	M277A	SZ	0	0	%100
200	M278	SZ	0	0	%100
201	M278A	SZ	0	0	%100
202	M279	SZ	0	0	%100
203	M279A	SZ	0	0	%100
204	M280	SZ	0	0	%100
205	M280A	SZ	0	0	%100
206	M281	SZ	0	0	%100
207	M281A	SZ	0	0	%100
208	M282	SZ	0	0	%100
209	M282A	SZ	0	0	%100
210	M283	SZ	-64.689	-64.689	%100
211	M283A	SZ	0	0	%100
212	M284	SZ	-64.689	-64.689	%100
213	M284A	SZ	0	0	%100
214	M285	SZ	-64.689	-64.689	%100
215	M285A	SZ	0	0	%100
216	M286	SZ	-64.689	-64.689	%100
217	M286A	SZ	0	0	%100
218	M287	SZ	-64.689	-64.689	%100
219	M287A	SZ	-64.689	-64.689	%100
220	M288	SZ	-64.689	-64.689	%100
221	M288A	SZ	-64.689	-64.689	%100
222	M289	SZ	-64.689	-64.689	%100
223	M289A	SZ	-64.689	-64.689	%100
224	M290	SZ	-64.689	-64.689	%100
225	M290A	SZ	-64.689	-64.689	%100
226	M291	SZ	-64.689	-64.689	%100
227	M291A	SZ	-64.689	-64.689	%100
228	M292	SZ	-64.689	-64.689	%100
229	M292A	SZ	-64.689	-64.689	%100
230	M293	SZ	-64.689	-64.689	%100
231	M293A	SZ	-64.689	-64.689	%100
232	M294	SZ	-64.689	-64.689	%100
233	M294A	SZ	-64.689	-64.689	%100
234	M295	SZ	-64.689	-64.689	%100
235	M295A	SZ	-64.689	-64.689	%100
236	M296	SZ	0	0	%100
237	M296A	SZ	-64.689	-64.689	%100
238	M297	SZ	-64.689	-64.689	%100
239	M297A	SZ	-64.689	-64.689	%100
240	M298	SZ	-64.689	-64.689	%100
241	M298A	SZ	-64.689	-64.689	%100
242	M299	SZ	-64.689	-64.689	%100
243	M299A	SZ	-64.689	-64.689	%100
244	M300	SZ	-64.689	-64.689	%100
245	M300A	SZ	0	0	%100
246	M301	SZ	-64.689	-64.689	%100
247	M301A	SZ	-64.689	-64.689	%100
248	M302	SZ	-64.689	-64.689	%100
249	M302A	SZ	-64.689	-64.689	%100
250	M303	SZ	-64.689	-64.689	%100
251	M303A	SZ	-64.689	-64.689	%100
252	M304	SZ	-64.689	-64.689	%100
253	M304A	SZ	-64.689	-64.689	%100
254	M305	SZ	-64.689	-64.689	%100
255	M305A	SZ	-64.689	-64.689	%100



Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
256	M306	SZ	-64.689	-64.689	0 %100
257	M306A	SZ	-64.689	-64.689	0 %100
258	M307	SZ	-64.689	-64.689	0 %100
259	M307A	SZ	-64.689	-64.689	0 %100
260	M308	SZ	-64.689	-64.689	0 %100
261	M308A	SZ	0	0	0 %100
262	M309	SZ	-64.689	-64.689	0 %100
263	M310	SZ	-64.689	-64.689	0 %100
264	M310A	SZ	0	0	0 %100
265	M311	SZ	-64.689	-64.689	0 %100
266	M311A	SZ	0	0	0 %100
267	M312	SZ	0	0	0 %100
268	M312A	SZ	0	0	0 %100
269	M313	SZ	0	0	0 %100
270	M313A	SZ	-64.689	-64.689	0 %100
271	M314	SZ	0	0	0 %100
272	M314A	SZ	-64.689	-64.689	0 %100
273	M315	SZ	0	0	0 %100
274	M315A	SZ	-64.689	-64.689	0 %100
275	M316	SZ	-64.689	-64.689	0 %100
276	M316A	SZ	-64.689	-64.689	0 %100
277	M317	SZ	-64.689	-64.689	0 %100
278	M317A	SZ	-64.689	-64.689	0 %100
279	M318	SZ	-64.689	-64.689	0 %100
280	M318A	SZ	-64.689	-64.689	0 %100
281	M319	SZ	-64.689	-64.689	0 %100
282	M319A	SZ	-64.689	-64.689	0 %100
283	M320	SZ	-64.689	-64.689	0 %100
284	M320A	SZ	-64.689	-64.689	0 %100
285	M321	SZ	-64.689	-64.689	0 %100
286	M321A	SZ	-64.689	-64.689	0 %100
287	M322	SZ	-64.689	-64.689	0 %100
288	M322A	SZ	-64.689	-64.689	0 %100
289	M323	SZ	-64.689	-64.689	0 %100
290	M323A	SZ	-64.689	-64.689	0 %100
291	M324	SZ	-64.689	-64.689	0 %100
292	M324A	SZ	-64.689	-64.689	0 %100
293	M325	SZ	0	0	0 %100
294	M325A	SZ	-64.689	-64.689	0 %100
295	M326	SZ	0	0	0 %100
296	M326A	SZ	-64.689	-64.689	0 %100
297	M327	SZ	0	0	0 %100
298	M327A	SZ	-64.689	-64.689	0 %100
299	M328	SZ	0	0	0 %100
300	M328A	SZ	0	0	0 %100
301	M329	SZ	-64.689	-64.689	0 %100
302	M329A	SZ	0	0	0 %100
303	M330	SZ	-64.689	-64.689	0 %100
304	M330A	SZ	0	0	0 %100
305	M331	SZ	-64.689	-64.689	0 %100
306	M331A	SZ	0	0	0 %100
307	M332	SZ	-64.689	-64.689	0 %100
308	M332A	SZ	-64.689	-64.689	0 %100
309	M332B	SZ	-64.689	-64.689	0 %100
310	M333	SZ	-64.689	-64.689	0 %100
311	M333A	SZ	-64.689	-64.689	0 %100
312	M334	SZ	-64.689	-64.689	0 %100



Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
313	M334A	SZ	-64.689	-64.689	0 %100
314	M335	SZ	-64.689	-64.689	0 %100
315	M335A	SZ	-64.689	-64.689	0 %100
316	M336	SZ	-64.689	-64.689	0 %100
317	M337	SZ	-64.689	-64.689	0 %100
318	M338	SZ	-64.689	-64.689	0 %100
319	M339	SZ	-64.689	-64.689	0 %100
320	M340	SZ	0	0	0 %100
321	M341	SZ	0	0	0 %100
322	M342	SZ	0	0	0 %100
323	M343	SZ	0	0	0 %100
324	M344	SZ	0	0	0 %100
325	M345	SZ	0	0	0 %100
326	M355	SZ	0	0	0 %100
327	M356	SZ	0	0	0 %100
328	M357	SZ	-64.689	-64.689	0 %100
329	M361	SZ	-64.689	-64.689	0 %100
330	M362	SZ	-64.689	-64.689	0 %100
331	M366	SZ	-64.689	-64.689	0 %100
332	M367	SZ	0	0	0 %100
333	M367A	SZ	-64.689	-64.689	0 %100
334	M368	SZ	0	0	0 %100
335	M369	SZ	0	0	0 %100
336	M371	SZ	-64.689	-64.689	0 %100
337	M372	SZ	0	0	0 %100
338	M376	SZ	0	0	0 %100
339	M377	SZ	-64.689	-64.689	0 %100
340	M381	SZ	-64.689	-64.689	0 %100
341	M382	SZ	-64.689	-64.689	0 %100
342	M386	SZ	-64.689	-64.689	0 %100
343	M387	SZ	-64.689	-64.689	0 %100
344	M391	SZ	-64.689	-64.689	0 %100
345	M392	SZ	0	0	0 %100
346	M393	SZ	0	0	0 %100
347	M394	SZ	0	0	0 %100
348	M395	SZ	0	0	0 %100
349	M408	SZ	0	0	0 %100
350	M409	SZ	0	0	0 %100
351	M410	SZ	0	0	0 %100
352	M411	SZ	0	0	0 %100
353	M412	SZ	-64.689	-64.689	0 %100
354	M416	SZ	0	0	0 %100
355	M417	SZ	0	0	0 %100
356	M418	SZ	-64.689	-64.689	0 %100
357	M422	SZ	-64.689	-64.689	0 %100
358	M423	SZ	-64.689	-64.689	0 %100
359	M427	SZ	-64.689	-64.689	0 %100
360	M428	SZ	-64.689	-64.689	0 %100
361	M432	SZ	-64.689	-64.689	0 %100
362	M433	SZ	0	0	0 %100
363	M437	SZ	0	0	0 %100
364	M438	SZ	-64.689	-64.689	0 %100
365	M442	SZ	-64.689	-64.689	0 %100
366	M443	SZ	-64.689	-64.689	0 %100
367	M447	SZ	-64.689	-64.689	0 %100
368	M448	SZ	-64.689	-64.689	0 %100
369	M452	SZ	-64.689	-64.689	0 %100



Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
370	M453	SZ	0	0	%100
371	M454	SZ	0	0	%100
372	M455	SZ	0	0	%100
373	M456	SZ	0	0	%100
374	M469	SZ	0	0	%100
375	M470	SZ	0	0	%100
376	M471	SZ	0	0	%100
377	M472	SZ	0	0	%100
378	M473	SZ	-64.689	-64.689	%100
379	M477	SZ	0	0	%100
380	M478	SZ	0	0	%100
381	M479	SZ	-64.689	-64.689	%100
382	M483	SZ	-64.689	-64.689	%100
383	M484	SZ	-64.689	-64.689	%100
384	M488	SZ	-64.689	-64.689	%100
385	M489	SZ	-64.689	-64.689	%100
386	M493	SZ	-64.689	-64.689	%100
387	M494	SZ	0	0	%100
388	M498	SZ	0	0	%100
389	M499	SZ	-64.689	-64.689	%100
390	M503	SZ	-64.689	-64.689	%100
391	M504	SZ	-64.689	-64.689	%100
392	M505	SZ	0	0	%100
393	M507A	SZ	0	0	%100
394	M508	SZ	-64.689	-64.689	%100
395	M508B	SZ	0	0	%100
396	M509	SZ	-64.689	-64.689	%100
397	M510A	SZ	-64.689	-64.689	%100
398	M511A	SZ	0	0	%100
399	M512	SZ	0	0	%100
400	M512A	SZ	-64.689	-64.689	%100
401	M513	SZ	-64.689	-64.689	%100
402	M514	SZ	0	0	%100
403	M514A	SZ	-64.689	-64.689	%100
404	M514C	SZ	0	0	%100
405	M514D	SZ	0	0	%100
406	M515	SZ	0	0	%100
407	M515B	SZ	0	0	%100
408	M515C	SZ	0	0	%100
409	M516	SZ	0	0	%100
410	M516A	SZ	0	0	%100
411	M516B	SZ	0	0	%100
412	M516C	SZ	0	0	%100
413	M517	SZ	0	0	%100
414	M518A	SZ	-64.689	-64.689	%100
415	M520A	SZ	-64.689	-64.689	%100
416	M522	SZ	-64.689	-64.689	%100
417	M523	SZ	0	0	%100
418	M524	SZ	0	0	%100
419	M525	SZ	0	0	%100
420	M526A	SZ	0	0	%100
421	M530	SZ	0	0	%100
422	M531	SZ	0	0	%100
423	M532	SZ	0	0	%100
424	M533	SZ	0	0	%100
425	M534	SZ	-64.689	-64.689	%100
426	M535	SZ	-64.689	-64.689	%100



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
427	M536	SZ	-64.689	-64.689	0 %100
428	M537	SZ	-64.689	-64.689	0 %100
429	M538	SZ	-64.689	-64.689	0 %100
430	M539	SZ	-64.689	-64.689	0 %100
431	M540	SZ	-64.689	-64.689	0 %100
432	MP1	SZ	-38.813	-38.813	0 %100
433	MP4	SZ	-38.813	-38.813	0 %100
434	MP5	SZ	-38.813	-38.813	0 %100
435	MP6	SZ	-38.813	-38.813	0 %100
436	MP10	SZ	-38.813	-38.813	0 %100
437	MP11	SZ	-38.813	-38.813	0 %100
438	MP15	SZ	-38.813	-38.813	0 %100
439	R3	SZ	0	0	0 %100
440	R4	SZ	0	0	0 %100
441	R5	SZ	0	0	0 %100
442	R6	SZ	0	0	0 %100
443	R7	SZ	0	0	0 %100
444	R8	SZ	0	0	0 %100
445	R9	SZ	0	0	0 %100
446	R10	SZ	0	0	0 %100
447	M519	SZ	0	0	0 %100
448	M520	SZ	-38.813	-38.813	0 %100
449	M560	SZ	-38.813	-38.813	0 %100
450	M561	SZ	0	0	0 %100
451	M562	SZ	-38.813	-38.813	0 %100
452	M563	SZ	0	0	0 %100
453	M509A	SZ	0	0	0 %100
454	M510B	SZ	0	0	0 %100
455	M511	SZ	-64.689	-64.689	0 %100
456	M512B	SZ	-64.689	-64.689	0 %100
457	M513A	SZ	-64.689	-64.689	0 %100
458	M514B	SZ	0	0	0 %100
459	M515A	SZ	-64.689	-64.689	0 %100
460	M516D	SZ	-64.689	-64.689	0 %100
461	M517A	SZ	-64.689	-64.689	0 %100
462	M518B	SZ	0	0	0 %100
463	M519A	SZ	0	0	0 %100
464	M520B	SZ	0	0	0 %100
465	M521A	SZ	0	0	0 %100
466	MP3	SZ	-38.813	-38.813	0 %100
467	M523A	SZ	0	0	0 %100
468	M524A	SZ	0	0	0 %100
469	M525A	SZ	-64.689	-64.689	0 %100
470	M526B	SZ	-64.689	-64.689	0 %100
471	M527A	SZ	-64.689	-64.689	0 %100
472	M528A	SZ	0	0	0 %100
473	M529A	SZ	-64.689	-64.689	0 %100
474	M530A	SZ	-64.689	-64.689	0 %100
475	M531A	SZ	-64.689	-64.689	0 %100
476	M532A	SZ	0	0	0 %100
477	M533A	SZ	0	0	0 %100
478	M534A	SZ	0	0	0 %100
479	M535A	SZ	0	0	0 %100
480	MP2	SZ	-38.813	-38.813	0 %100
481	M481	SZ	0	0	0 %100
482	M482	SZ	0	0	0 %100
483	M483A	SZ	-64.689	-64.689	0 %100



Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
484	M484A	SZ	-64.689	-64.689	0 %100
485	M485	SZ	-64.689	-64.689	0 %100
486	M486	SZ	0	0	0 %100
487	M487	SZ	-64.689	-64.689	0 %100
488	M488A	SZ	-64.689	-64.689	0 %100
489	M489A	SZ	-64.689	-64.689	0 %100
490	M490	SZ	0	0	0 %100
491	M491	SZ	0	0	0 %100
492	M492	SZ	0	0	0 %100
493	M493A	SZ	0	0	0 %100
494	MP14	SZ	-38.813	-38.813	0 %100
495	M495	SZ	0	0	0 %100
496	M496	SZ	0	0	0 %100
497	M497	SZ	-64.689	-64.689	0 %100
498	M498A	SZ	-64.689	-64.689	0 %100
499	M499A	SZ	-64.689	-64.689	0 %100
500	M500	SZ	0	0	0 %100
501	M501	SZ	-64.689	-64.689	0 %100
502	M502	SZ	-64.689	-64.689	0 %100
503	M503A	SZ	-64.689	-64.689	0 %100
504	M504A	SZ	0	0	0 %100
505	M505A	SZ	0	0	0 %100
506	M506	SZ	0	0	0 %100
507	M507	SZ	0	0	0 %100
508	MP13	SZ	-38.813	-38.813	0 %100
509	M509B	SZ	0	0	0 %100
510	M510	SZ	0	0	0 %100
511	M511B	SZ	-64.689	-64.689	0 %100
512	M512C	SZ	-64.689	-64.689	0 %100
513	M513B	SZ	-64.689	-64.689	0 %100
514	M514E	SZ	0	0	0 %100
515	M515D	SZ	-64.689	-64.689	0 %100
516	M516E	SZ	-64.689	-64.689	0 %100
517	M517B	SZ	-64.689	-64.689	0 %100
518	M518	SZ	0	0	0 %100
519	M519B	SZ	0	0	0 %100
520	M520C	SZ	0	0	0 %100
521	M521	SZ	0	0	0 %100
522	MP12	SZ	-38.813	-38.813	0 %100
523	M523B	SZ	0	0	0 %100
524	M524B	SZ	0	0	0 %100
525	M525B	SZ	-64.689	-64.689	0 %100
526	M526	SZ	-64.689	-64.689	0 %100
527	M527	SZ	-64.689	-64.689	0 %100
528	M528	SZ	0	0	0 %100
529	M529	SZ	-64.689	-64.689	0 %100
530	M530B	SZ	-64.689	-64.689	0 %100
531	M531B	SZ	-64.689	-64.689	0 %100
532	M532B	SZ	0	0	0 %100
533	M533B	SZ	0	0	0 %100
534	M534B	SZ	0	0	0 %100
535	M535B	SZ	0	0	0 %100
536	MP9	SZ	-38.813	-38.813	0 %100
537	M537A	SZ	0	0	0 %100
538	M538A	SZ	0	0	0 %100
539	M539A	SZ	-64.689	-64.689	0 %100
540	M540A	SZ	-64.689	-64.689	0 %100



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Member Distributed Loads (BLC 14 : Distr. Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
541	M541	SZ	-64.689	-64.689	0	%100
542	M542	SZ	0	0	0	%100
543	M543	SZ	-64.689	-64.689	0	%100
544	M544	SZ	-64.689	-64.689	0	%100
545	M545	SZ	-64.689	-64.689	0	%100
546	M546	SZ	0	0	0	%100
547	M547	SZ	0	0	0	%100
548	M548	SZ	0	0	0	%100
549	M549	SZ	0	0	0	%100
550	MP8	SZ	-38.813	-38.813	0	%100
551	M551	SZ	0	0	0	%100
552	M552	SZ	0	0	0	%100
553	M553	SZ	-64.689	-64.689	0	%100
554	M554	SZ	-64.689	-64.689	0	%100
555	M555	SZ	-64.689	-64.689	0	%100
556	M556	SZ	0	0	0	%100
557	M557	SZ	-64.689	-64.689	0	%100
558	M558	SZ	-64.689	-64.689	0	%100
559	M559	SZ	-64.689	-64.689	0	%100
560	M560A	SZ	0	0	0	%100
561	M561A	SZ	0	0	0	%100
562	M562A	SZ	0	0	0	%100
563	M563A	SZ	0	0	0	%100
564	MP7	SZ	-38.813	-38.813	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
1	M31	SX	-64.689	-64.689	0	%100
2	M33	SX	-64.689	-64.689	0	%100
3	M34A	SX	-64.689	-64.689	0	%100
4	M45A	SX	-64.689	-64.689	0	%100
5	M50	SX	0	0	0	%100
6	M51	SX	0	0	0	%100
7	M52	SX	0	0	0	%100
8	M53	SX	0	0	0	%100
9	M54	SX	-64.689	-64.689	0	%100
10	M54A	SX	0	0	0	%100
11	M55	SX	0	0	0	%100
12	M56	SX	0	0	0	%100
13	M57	SX	0	0	0	%100
14	M57A	SX	0	0	0	%100
15	M58	SX	0	0	0	%100
16	M59	SX	0	0	0	%100
17	M59A	SX	0	0	0	%100
18	M60	SX	-64.689	-64.689	0	%100
19	M60A	SX	0	0	0	%100
20	M61	SX	-64.689	-64.689	0	%100
21	M61A	SX	0	0	0	%100
22	M62	SX	-64.689	-64.689	0	%100
23	M62A	SX	0	0	0	%100
24	M63	SX	0	0	0	%100
25	M63A	SX	0	0	0	%100
26	M64	SX	0	0	0	%100
27	M64A	SX	0	0	0	%100
28	M65	SX	0	0	0	%100
29	M65A	SX	0	0	0	%100



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Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
30	M66	SX	-64.689	-64.689	0 %100
31	M66A	SX	0	0	0 %100
32	M67	SX	0	0	0 %100
33	M68	SX	-64.689	-64.689	0 %100
34	M70	SX	0	0	0 %100
35	M73	SX	-64.689	-64.689	0 %100
36	M74	SX	-64.689	-64.689	0 %100
37	M74B	SX	-64.689	-64.689	0 %100
38	M74C	SX	-64.689	-64.689	0 %100
39	M75	SX	-64.689	-64.689	0 %100
40	M75B	SX	-64.689	-64.689	0 %100
41	M76	SX	-64.689	-64.689	0 %100
42	M77	SX	-64.689	-64.689	0 %100
43	M78	SX	-64.689	-64.689	0 %100
44	M79	SX	-64.689	-64.689	0 %100
45	M80	SX	-64.689	-64.689	0 %100
46	M81	SX	-64.689	-64.689	0 %100
47	M82	SX	-64.689	-64.689	0 %100
48	M83	SX	-64.689	-64.689	0 %100
49	M84	SX	-64.689	-64.689	0 %100
50	M85	SX	-64.689	-64.689	0 %100
51	M94	SX	0	0	0 %100
52	M95	SX	0	0	0 %100
53	M96	SX	0	0	0 %100
54	M97	SX	0	0	0 %100
55	M99	SX	0	0	0 %100
56	M100	SX	0	0	0 %100
57	M101	SX	0	0	0 %100
58	M102	SX	0	0	0 %100
59	M103	SX	0	0	0 %100
60	M104	SX	0	0	0 %100
61	M105	SX	0	0	0 %100
62	M106	SX	0	0	0 %100
63	M108	SX	0	0	0 %100
64	M109	SX	0	0	0 %100
65	M110	SX	0	0	0 %100
66	M111	SX	0	0	0 %100
67	M112	SX	0	0	0 %100
68	M113	SX	0	0	0 %100
69	M114	SX	0	0	0 %100
70	M115	SX	0	0	0 %100
71	M116	SX	0	0	0 %100
72	M117	SX	0	0	0 %100
73	M118	SX	0	0	0 %100
74	M119	SX	0	0	0 %100
75	M122	SX	-64.689	-64.689	0 %100
76	M123	SX	-64.689	-64.689	0 %100
77	M124	SX	-64.689	-64.689	0 %100
78	M125	SX	-64.689	-64.689	0 %100
79	M126	SX	-64.689	-64.689	0 %100
80	M127	SX	-64.689	-64.689	0 %100
81	M127A	SX	0	0	0 %100
82	M128	SX	-64.689	-64.689	0 %100
83	M128A	SX	0	0	0 %100
84	M129	SX	-64.689	-64.689	0 %100
85	M129A	SX	0	0	0 %100
86	M130	SX	-64.689	-64.689	0 %100



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Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
87	M130A	SX	0	0	%100
88	M131	SX	-64.689	-64.689	%100
89	M131A	SX	0	0	%100
90	M132	SX	-64.689	-64.689	%100
91	M132A	SX	0	0	%100
92	M133	SX	-64.689	-64.689	%100
93	M133A	SX	0	0	%100
94	M134	SX	-64.689	-64.689	%100
95	M134A	SX	0	0	%100
96	M136A	SX	0	0	%100
97	M137A	SX	0	0	%100
98	M138A	SX	0	0	%100
99	M139A	SX	0	0	%100
100	M140A	SX	0	0	%100
101	M141A	SX	0	0	%100
102	M142	SX	0	0	%100
103	M143	SX	0	0	%100
104	MH3	SX	-38.813	-38.813	%100
105	MH1	SX	-38.813	-38.813	%100
106	MH2	SX	-38.813	-38.813	%100
107	M198	SX	0	0	%100
108	M199	SX	0	0	%100
109	M200	SX	0	0	%100
110	M201	SX	0	0	%100
111	M202	SX	0	0	%100
112	M203	SX	0	0	%100
113	M204	SX	0	0	%100
114	M205	SX	0	0	%100
115	M206	SX	0	0	%100
116	M207	SX	0	0	%100
117	M208	SX	0	0	%100
118	M209	SX	0	0	%100
119	M210	SX	0	0	%100
120	M211	SX	0	0	%100
121	M212	SX	0	0	%100
122	M213	SX	0	0	%100
123	M214	SX	0	0	%100
124	M215	SX	0	0	%100
125	M216	SX	-64.689	-64.689	%100
126	M217	SX	-64.689	-64.689	%100
127	M218	SX	-64.689	-64.689	%100
128	M219	SX	-64.689	-64.689	%100
129	M220	SX	-64.689	-64.689	%100
130	M221	SX	-64.689	-64.689	%100
131	M222	SX	-64.689	-64.689	%100
132	M223	SX	-64.689	-64.689	%100
133	M224	SX	-64.689	-64.689	%100
134	M225	SX	-64.689	-64.689	%100
135	M226	SX	-64.689	-64.689	%100
136	M227	SX	-64.689	-64.689	%100
137	M228	SX	-64.689	-64.689	%100
138	M229	SX	0	0	%100
139	M230	SX	-64.689	-64.689	%100
140	M231	SX	-64.689	-64.689	%100
141	M232	SX	-64.689	-64.689	%100
142	M233	SX	-64.689	-64.689	%100
143	M234	SX	-64.689	-64.689	%100



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Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]
201	M278A	SX	0	0	%100
202	M279	SX	0	0	%100
203	M279A	SX	0	0	%100
204	M280	SX	0	0	%100
205	M280A	SX	0	0	%100
206	M281	SX	0	0	%100
207	M281A	SX	0	0	%100
208	M282	SX	0	0	%100
209	M282A	SX	0	0	%100
210	M283	SX	-64.689	-64.689	%100
211	M283A	SX	0	0	%100
212	M284	SX	-64.689	-64.689	%100
213	M284A	SX	0	0	%100
214	M285	SX	-64.689	-64.689	%100
215	M285A	SX	0	0	%100
216	M286	SX	-64.689	-64.689	%100
217	M286A	SX	0	0	%100
218	M287	SX	-64.689	-64.689	%100
219	M287A	SX	-64.689	-64.689	%100
220	M288	SX	-64.689	-64.689	%100
221	M288A	SX	-64.689	-64.689	%100
222	M289	SX	-64.689	-64.689	%100
223	M289A	SX	-64.689	-64.689	%100
224	M290	SX	-64.689	-64.689	%100
225	M290A	SX	-64.689	-64.689	%100
226	M291	SX	-64.689	-64.689	%100
227	M291A	SX	-64.689	-64.689	%100
228	M292	SX	-64.689	-64.689	%100
229	M292A	SX	-64.689	-64.689	%100
230	M293	SX	-64.689	-64.689	%100
231	M293A	SX	-64.689	-64.689	%100
232	M294	SX	-64.689	-64.689	%100
233	M294A	SX	-64.689	-64.689	%100
234	M295	SX	-64.689	-64.689	%100
235	M295A	SX	-64.689	-64.689	%100
236	M296	SX	0	0	%100
237	M296A	SX	-64.689	-64.689	%100
238	M297	SX	-64.689	-64.689	%100
239	M297A	SX	-64.689	-64.689	%100
240	M298	SX	-64.689	-64.689	%100
241	M298A	SX	-64.689	-64.689	%100
242	M299	SX	-64.689	-64.689	%100
243	M299A	SX	-64.689	-64.689	%100
244	M300	SX	-64.689	-64.689	%100
245	M300A	SX	0	0	%100
246	M301	SX	-64.689	-64.689	%100
247	M301A	SX	-64.689	-64.689	%100
248	M302	SX	-64.689	-64.689	%100
249	M302A	SX	-64.689	-64.689	%100
250	M303	SX	-64.689	-64.689	%100
251	M303A	SX	-64.689	-64.689	%100
252	M304	SX	-64.689	-64.689	%100
253	M304A	SX	-64.689	-64.689	%100
254	M305	SX	-64.689	-64.689	%100
255	M305A	SX	-64.689	-64.689	%100
256	M306	SX	-64.689	-64.689	%100
257	M306A	SX	-64.689	-64.689	%100



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Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in,%]	End Location[in,%]
258	M307	SX	-64.689	-64.689	0 %100
259	M307A	SX	-64.689	-64.689	0 %100
260	M308	SX	-64.689	-64.689	0 %100
261	M308A	SX	0	0	0 %100
262	M309	SX	-64.689	-64.689	0 %100
263	M310	SX	-64.689	-64.689	0 %100
264	M310A	SX	0	0	0 %100
265	M311	SX	-64.689	-64.689	0 %100
266	M311A	SX	0	0	0 %100
267	M312	SX	0	0	0 %100
268	M312A	SX	0	0	0 %100
269	M313	SX	0	0	0 %100
270	M313A	SX	-64.689	-64.689	0 %100
271	M314	SX	0	0	0 %100
272	M314A	SX	-64.689	-64.689	0 %100
273	M315	SX	0	0	0 %100
274	M315A	SX	-64.689	-64.689	0 %100
275	M316	SX	-64.689	-64.689	0 %100
276	M316A	SX	-64.689	-64.689	0 %100
277	M317	SX	-64.689	-64.689	0 %100
278	M317A	SX	-64.689	-64.689	0 %100
279	M318	SX	-64.689	-64.689	0 %100
280	M318A	SX	-64.689	-64.689	0 %100
281	M319	SX	-64.689	-64.689	0 %100
282	M319A	SX	-64.689	-64.689	0 %100
283	M320	SX	-64.689	-64.689	0 %100
284	M320A	SX	-64.689	-64.689	0 %100
285	M321	SX	-64.689	-64.689	0 %100
286	M321A	SX	-64.689	-64.689	0 %100
287	M322	SX	-64.689	-64.689	0 %100
288	M322A	SX	-64.689	-64.689	0 %100
289	M323	SX	-64.689	-64.689	0 %100
290	M323A	SX	-64.689	-64.689	0 %100
291	M324	SX	-64.689	-64.689	0 %100
292	M324A	SX	-64.689	-64.689	0 %100
293	M325	SX	0	0	0 %100
294	M325A	SX	-64.689	-64.689	0 %100
295	M326	SX	0	0	0 %100
296	M326A	SX	-64.689	-64.689	0 %100
297	M327	SX	0	0	0 %100
298	M327A	SX	-64.689	-64.689	0 %100
299	M328	SX	0	0	0 %100
300	M328A	SX	0	0	0 %100
301	M329	SX	-64.689	-64.689	0 %100
302	M329A	SX	0	0	0 %100
303	M330	SX	-64.689	-64.689	0 %100
304	M330A	SX	0	0	0 %100
305	M331	SX	-64.689	-64.689	0 %100
306	M331A	SX	0	0	0 %100
307	M332	SX	-64.689	-64.689	0 %100
308	M332A	SX	-64.689	-64.689	0 %100
309	M332B	SX	-64.689	-64.689	0 %100
310	M333	SX	-64.689	-64.689	0 %100
311	M333A	SX	-64.689	-64.689	0 %100
312	M334	SX	-64.689	-64.689	0 %100
313	M334A	SX	-64.689	-64.689	0 %100
314	M335	SX	-64.689	-64.689	0 %100



Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
315	M335A	SX	-64.689	-64.689	0 %100
316	M336	SX	-64.689	-64.689	0 %100
317	M337	SX	-64.689	-64.689	0 %100
318	M338	SX	-64.689	-64.689	0 %100
319	M339	SX	-64.689	-64.689	0 %100
320	M340	SX	0	0	0 %100
321	M341	SX	0	0	0 %100
322	M342	SX	0	0	0 %100
323	M343	SX	0	0	0 %100
324	M344	SX	0	0	0 %100
325	M345	SX	0	0	0 %100
326	M355	SX	0	0	0 %100
327	M356	SX	0	0	0 %100
328	M357	SX	-64.689	-64.689	0 %100
329	M361	SX	-64.689	-64.689	0 %100
330	M362	SX	-64.689	-64.689	0 %100
331	M366	SX	-64.689	-64.689	0 %100
332	M367	SX	0	0	0 %100
333	M367A	SX	-64.689	-64.689	0 %100
334	M368	SX	0	0	0 %100
335	M369	SX	0	0	0 %100
336	M371	SX	-64.689	-64.689	0 %100
337	M372	SX	0	0	0 %100
338	M376	SX	0	0	0 %100
339	M377	SX	-64.689	-64.689	0 %100
340	M381	SX	-64.689	-64.689	0 %100
341	M382	SX	-64.689	-64.689	0 %100
342	M386	SX	-64.689	-64.689	0 %100
343	M387	SX	-64.689	-64.689	0 %100
344	M391	SX	-64.689	-64.689	0 %100
345	M392	SX	0	0	0 %100
346	M393	SX	0	0	0 %100
347	M394	SX	0	0	0 %100
348	M395	SX	0	0	0 %100
349	M408	SX	0	0	0 %100
350	M409	SX	0	0	0 %100
351	M410	SX	0	0	0 %100
352	M411	SX	0	0	0 %100
353	M412	SX	-64.689	-64.689	0 %100
354	M416	SX	0	0	0 %100
355	M417	SX	0	0	0 %100
356	M418	SX	-64.689	-64.689	0 %100
357	M422	SX	-64.689	-64.689	0 %100
358	M423	SX	-64.689	-64.689	0 %100
359	M427	SX	-64.689	-64.689	0 %100
360	M428	SX	-64.689	-64.689	0 %100
361	M432	SX	-64.689	-64.689	0 %100
362	M433	SX	0	0	0 %100
363	M437	SX	0	0	0 %100
364	M438	SX	-64.689	-64.689	0 %100
365	M442	SX	-64.689	-64.689	0 %100
366	M443	SX	-64.689	-64.689	0 %100
367	M447	SX	-64.689	-64.689	0 %100
368	M448	SX	-64.689	-64.689	0 %100
369	M452	SX	-64.689	-64.689	0 %100
370	M453	SX	0	0	0 %100
371	M454	SX	0	0	0 %100



Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
372	M455	SX	0	0	%100
373	M456	SX	0	0	%100
374	M469	SX	0	0	%100
375	M470	SX	0	0	%100
376	M471	SX	0	0	%100
377	M472	SX	0	0	%100
378	M473	SX	-64.689	-64.689	%100
379	M477	SX	0	0	%100
380	M478	SX	0	0	%100
381	M479	SX	-64.689	-64.689	%100
382	M483	SX	-64.689	-64.689	%100
383	M484	SX	-64.689	-64.689	%100
384	M488	SX	-64.689	-64.689	%100
385	M489	SX	-64.689	-64.689	%100
386	M493	SX	-64.689	-64.689	%100
387	M494	SX	0	0	%100
388	M498	SX	0	0	%100
389	M499	SX	-64.689	-64.689	%100
390	M503	SX	-64.689	-64.689	%100
391	M504	SX	-64.689	-64.689	%100
392	M505	SX	0	0	%100
393	M507A	SX	0	0	%100
394	M508	SX	-64.689	-64.689	%100
395	M508B	SX	0	0	%100
396	M509	SX	-64.689	-64.689	%100
397	M510A	SX	-64.689	-64.689	%100
398	M511A	SX	0	0	%100
399	M512	SX	0	0	%100
400	M512A	SX	-64.689	-64.689	%100
401	M513	SX	-64.689	-64.689	%100
402	M514	SX	0	0	%100
403	M514A	SX	-64.689	-64.689	%100
404	M514C	SX	0	0	%100
405	M514D	SX	0	0	%100
406	M515	SX	0	0	%100
407	M515B	SX	0	0	%100
408	M515C	SX	0	0	%100
409	M516	SX	0	0	%100
410	M516A	SX	0	0	%100
411	M516B	SX	0	0	%100
412	M516C	SX	0	0	%100
413	M517	SX	0	0	%100
414	M518A	SX	-64.689	-64.689	%100
415	M520A	SX	-64.689	-64.689	%100
416	M522	SX	-64.689	-64.689	%100
417	M523	SX	0	0	%100
418	M524	SX	0	0	%100
419	M525	SX	0	0	%100
420	M526A	SX	0	0	%100
421	M530	SX	0	0	%100
422	M531	SX	0	0	%100
423	M532	SX	0	0	%100
424	M533	SX	0	0	%100
425	M534	SX	-64.689	-64.689	%100
426	M535	SX	-64.689	-64.689	%100
427	M536	SX	-64.689	-64.689	%100
428	M537	SX	-64.689	-64.689	%100



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
429	M538	SX	-64.689	-64.689	0 %100
430	M539	SX	-64.689	-64.689	0 %100
431	M540	SX	-64.689	-64.689	0 %100
432	MP1	SX	-38.813	-38.813	0 %100
433	MP4	SX	-38.813	-38.813	0 %100
434	MP5	SX	-38.813	-38.813	0 %100
435	MP6	SX	-38.813	-38.813	0 %100
436	MP10	SX	-38.813	-38.813	0 %100
437	MP11	SX	-38.813	-38.813	0 %100
438	MP15	SX	-38.813	-38.813	0 %100
439	R3	SX	0	0	0 %100
440	R4	SX	0	0	0 %100
441	R5	SX	0	0	0 %100
442	R6	SX	0	0	0 %100
443	R7	SX	0	0	0 %100
444	R8	SX	0	0	0 %100
445	R9	SX	0	0	0 %100
446	R10	SX	0	0	0 %100
447	M519	SX	0	0	0 %100
448	M520	SX	-38.813	-38.813	0 %100
449	M560	SX	-38.813	-38.813	0 %100
450	M561	SX	0	0	0 %100
451	M562	SX	-38.813	-38.813	0 %100
452	M563	SX	0	0	0 %100
453	M509A	SX	0	0	0 %100
454	M510B	SX	0	0	0 %100
455	M511	SX	-64.689	-64.689	0 %100
456	M512B	SX	-64.689	-64.689	0 %100
457	M513A	SX	-64.689	-64.689	0 %100
458	M514B	SX	0	0	0 %100
459	M515A	SX	-64.689	-64.689	0 %100
460	M516D	SX	-64.689	-64.689	0 %100
461	M517A	SX	-64.689	-64.689	0 %100
462	M518B	SX	0	0	0 %100
463	M519A	SX	0	0	0 %100
464	M520B	SX	0	0	0 %100
465	M521A	SX	0	0	0 %100
466	MP3	SX	-38.813	-38.813	0 %100
467	M523A	SX	0	0	0 %100
468	M524A	SX	0	0	0 %100
469	M525A	SX	-64.689	-64.689	0 %100
470	M526B	SX	-64.689	-64.689	0 %100
471	M527A	SX	-64.689	-64.689	0 %100
472	M528A	SX	0	0	0 %100
473	M529A	SX	-64.689	-64.689	0 %100
474	M530A	SX	-64.689	-64.689	0 %100
475	M531A	SX	-64.689	-64.689	0 %100
476	M532A	SX	0	0	0 %100
477	M533A	SX	0	0	0 %100
478	M534A	SX	0	0	0 %100
479	M535A	SX	0	0	0 %100
480	MP2	SX	-38.813	-38.813	0 %100
481	M481	SX	0	0	0 %100
482	M482	SX	0	0	0 %100
483	M483A	SX	-64.689	-64.689	0 %100
484	M484A	SX	-64.689	-64.689	0 %100
485	M485	SX	-64.689	-64.689	0 %100



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
486	M486	SX	0	0	%100
487	M487	SX	-64.689	-64.689	%100
488	M488A	SX	-64.689	-64.689	%100
489	M489A	SX	-64.689	-64.689	%100
490	M490	SX	0	0	%100
491	M491	SX	0	0	%100
492	M492	SX	0	0	%100
493	M493A	SX	0	0	%100
494	MP14	SX	-38.813	-38.813	%100
495	M495	SX	0	0	%100
496	M496	SX	0	0	%100
497	M497	SX	-64.689	-64.689	%100
498	M498A	SX	-64.689	-64.689	%100
499	M499A	SX	-64.689	-64.689	%100
500	M500	SX	0	0	%100
501	M501	SX	-64.689	-64.689	%100
502	M502	SX	-64.689	-64.689	%100
503	M503A	SX	-64.689	-64.689	%100
504	M504A	SX	0	0	%100
505	M505A	SX	0	0	%100
506	M506	SX	0	0	%100
507	M507	SX	0	0	%100
508	MP13	SX	-38.813	-38.813	%100
509	M509B	SX	0	0	%100
510	M510	SX	0	0	%100
511	M511B	SX	-64.689	-64.689	%100
512	M512C	SX	-64.689	-64.689	%100
513	M513B	SX	-64.689	-64.689	%100
514	M514E	SX	0	0	%100
515	M515D	SX	-64.689	-64.689	%100
516	M516E	SX	-64.689	-64.689	%100
517	M517B	SX	-64.689	-64.689	%100
518	M518	SX	0	0	%100
519	M519B	SX	0	0	%100
520	M520C	SX	0	0	%100
521	M521	SX	0	0	%100
522	MP12	SX	-38.813	-38.813	%100
523	M523B	SX	0	0	%100
524	M524B	SX	0	0	%100
525	M525B	SX	-64.689	-64.689	%100
526	M526	SX	-64.689	-64.689	%100
527	M527	SX	-64.689	-64.689	%100
528	M528	SX	0	0	%100
529	M529	SX	-64.689	-64.689	%100
530	M530B	SX	-64.689	-64.689	%100
531	M531B	SX	-64.689	-64.689	%100
532	M532B	SX	0	0	%100
533	M533B	SX	0	0	%100
534	M534B	SX	0	0	%100
535	M535B	SX	0	0	%100
536	MP9	SX	-38.813	-38.813	%100
537	M537A	SX	0	0	%100
538	M538A	SX	0	0	%100
539	M539A	SX	-64.689	-64.689	%100
540	M540A	SX	-64.689	-64.689	%100
541	M541	SX	-64.689	-64.689	%100
542	M542	SX	0	0	%100



Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
543	M543	SX	-64.689	-64.689	0	%100
544	M544	SX	-64.689	-64.689	0	%100
545	M545	SX	-64.689	-64.689	0	%100
546	M546	SX	0	0	0	%100
547	M547	SX	0	0	0	%100
548	M548	SX	0	0	0	%100
549	M549	SX	0	0	0	%100
550	MP8	SX	-38.813	-38.813	0	%100
551	M551	SX	0	0	0	%100
552	M552	SX	0	0	0	%100
553	M553	SX	-64.689	-64.689	0	%100
554	M554	SX	-64.689	-64.689	0	%100
555	M555	SX	-64.689	-64.689	0	%100
556	M556	SX	0	0	0	%100
557	M557	SX	-64.689	-64.689	0	%100
558	M558	SX	-64.689	-64.689	0	%100
559	M559	SX	-64.689	-64.689	0	%100
560	M560A	SX	0	0	0	%100
561	M561A	SX	0	0	0	%100
562	M562A	SX	0	0	0	%100
563	M563A	SX	0	0	0	%100
564	MP7	SX	-38.813	-38.813	0	%100

Member Distributed Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M31	Y	-8.33	-8.33	0	%100
2	M33	Y	-8.33	-8.33	0	%100
3	M34A	Y	-8.33	-8.33	0	%100
4	M45A	Y	-12.087	-12.087	0	%100
5	M50	Y	-3.417	-3.417	0	%100
6	M51	Y	-3.417	-3.417	0	%100
7	M52	Y	-3.417	-3.417	0	%100
8	M53	Y	-3.417	-3.417	0	%100
9	M54	Y	-13.634	-13.634	0	%100
10	M54A	Y	-3.417	-3.417	0	%100
11	M55	Y	-3.417	-3.417	0	%100
12	M56	Y	-3.417	-3.417	0	%100
13	M57	Y	-3.417	-3.417	0	%100
14	M57A	Y	-3.417	-3.417	0	%100
15	M58	Y	-3.417	-3.417	0	%100
16	M59	Y	-3.417	-3.417	0	%100
17	M59A	Y	-3.417	-3.417	0	%100
18	M60	Y	-8.33	-8.33	0	%100
19	M60A	Y	-3.417	-3.417	0	%100
20	M61	Y	-8.33	-8.33	0	%100
21	M61A	Y	-3.417	-3.417	0	%100
22	M62	Y	-8.33	-8.33	0	%100
23	M62A	Y	-3.417	-3.417	0	%100
24	M63	Y	-3.417	-3.417	0	%100
25	M63A	Y	-3.417	-3.417	0	%100
26	M64	Y	-3.417	-3.417	0	%100
27	M64A	Y	-3.417	-3.417	0	%100
28	M65	Y	-3.417	-3.417	0	%100
29	M65A	Y	-3.417	-3.417	0	%100
30	M66	Y	-9.595	-9.595	0	%100
31	M66A	Y	-3.417	-3.417	0	%100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
89	M131A	-3.417	-3.417	0	%100
90	M132	-8.33	-8.33	0	%100
91	M132A	-3.417	-3.417	0	%100
92	M133	-8.33	-8.33	0	%100
93	M133A	-3.417	-3.417	0	%100
94	M134	-8.33	-8.33	0	%100
95	M134A	-3.417	-3.417	0	%100
96	M136A	-3.417	-3.417	0	%100
97	M137A	-3.417	-3.417	0	%100
98	M138A	-3.417	-3.417	0	%100
99	M139A	-3.417	-3.417	0	%100
100	M140A	-3.417	-3.417	0	%100
101	M141A	-3.417	-3.417	0	%100
102	M142	-3.417	-3.417	0	%100
103	M143	-3.417	-3.417	0	%100
104	MH3	-9.292	-9.292	0	%100
105	MH1	-9.292	-9.292	0	%100
106	MH2	-9.292	-9.292	0	%100
107	M198	-3.417	-3.417	0	%100
108	M199	-3.417	-3.417	0	%100
109	M200	-3.417	-3.417	0	%100
110	M201	-3.417	-3.417	0	%100
111	M202	-3.417	-3.417	0	%100
112	M203	-3.417	-3.417	0	%100
113	M204	-3.417	-3.417	0	%100
114	M205	-3.417	-3.417	0	%100
115	M206	-3.417	-3.417	0	%100
116	M207	-3.417	-3.417	0	%100
117	M208	-3.417	-3.417	0	%100
118	M209	-3.417	-3.417	0	%100
119	M210	-3.417	-3.417	0	%100
120	M211	-3.417	-3.417	0	%100
121	M212	-3.417	-3.417	0	%100
122	M213	-3.417	-3.417	0	%100
123	M214	-3.417	-3.417	0	%100
124	M215	-3.417	-3.417	0	%100
125	M216	-11.654	-11.654	0	%100
126	M217	-11.654	-11.654	0	%100
127	M218	-11.654	-11.654	0	%100
128	M219	-11.627	-11.627	0	%100
129	M220	-11.627	-11.627	0	%100
130	M221	-11.627	-11.627	0	%100
131	M222	-5.6	-5.6	0	%100
132	M223	-5.6	-5.6	0	%100
133	M224	-5.6	-5.6	0	%100
134	M225	-5.6	-5.6	0	%100
135	M226	-5.6	-5.6	0	%100
136	M227	-5.6	-5.6	0	%100
137	M228	-5.6	-5.6	0	%100
138	M229	-3.417	-3.417	0	%100
139	M230	-5.6	-5.6	0	%100
140	M231	-5.6	-5.6	0	%100
141	M232	-5.6	-5.6	0	%100
142	M233	-5.363	-5.363	0	%100
143	M234	-5.363	-5.363	0	%100
144	M235	-5.363	-5.363	0	%100
145	M236	-5.131	-5.131	0	%100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
146	M237	Y	-5.131	-5.131	0 %100
147	M238	Y	-5.131	-5.131	0 %100
148	M239	Y	-4.907	-4.907	0 %100
149	M240	Y	-4.907	-4.907	0 %100
150	M241	Y	-3.417	-3.417	0 %100
151	M242	Y	-3.417	-3.417	0 %100
152	M243	Y	-3.417	-3.417	0 %100
153	M244	Y	-3.417	-3.417	0 %100
154	M245	Y	-11.627	-11.627	0 %100
155	M246	Y	-11.627	-11.627	0 %100
156	M247	Y	-5.6	-5.6	0 %100
157	M248	Y	-5.6	-5.6	0 %100
158	M249	Y	-5.6	-5.6	0 %100
159	M250	Y	-5.6	-5.6	0 %100
160	M251	Y	-5.6	-5.6	0 %100
161	M252	Y	-5.6	-5.6	0 %100
162	M253	Y	-5.6	-5.6	0 %100
163	M254	Y	-5.6	-5.6	0 %100
164	M255	Y	-11.654	-11.654	0 %100
165	M256	Y	-11.654	-11.654	0 %100
166	M257	Y	-3.417	-3.417	0 %100
167	M258	Y	-3.417	-3.417	0 %100
168	M259	Y	-3.417	-3.417	0 %100
169	M260	Y	-3.417	-3.417	0 %100
170	M261	Y	-11.627	-11.627	0 %100
171	M262	Y	-11.654	-11.654	0 %100
172	M263	Y	-5.6	-5.6	0 %100
173	M264	Y	-5.6	-5.6	0 %100
174	M265	Y	-3.417	-3.417	0 %100
175	M265A	Y	-11.654	-11.654	0 %100
176	M266	Y	-3.417	-3.417	0 %100
177	M266A	Y	-5.6	-5.6	0 %100
178	M267	Y	-3.417	-3.417	0 %100
179	M267A	Y	-5.6	-5.6	0 %100
180	M268	Y	-3.417	-3.417	0 %100
181	M268A	Y	-11.627	-11.627	0 %100
182	M269	Y	-3.417	-3.417	0 %100
183	M269A	Y	-3.417	-3.417	0 %100
184	M270	Y	-3.417	-3.417	0 %100
185	M270A	Y	-3.417	-3.417	0 %100
186	M271	Y	-3.417	-3.417	0 %100
187	M271A	Y	-3.417	-3.417	0 %100
188	M272	Y	-3.417	-3.417	0 %100
189	M272A	Y	-3.417	-3.417	0 %100
190	M273	Y	-3.417	-3.417	0 %100
191	M273A	Y	-3.417	-3.417	0 %100
192	M274	Y	-3.417	-3.417	0 %100
193	M274A	Y	-3.417	-3.417	0 %100
194	M275	Y	-3.417	-3.417	0 %100
195	M275A	Y	-3.417	-3.417	0 %100
196	M276	Y	-3.417	-3.417	0 %100
197	M276A	Y	-3.417	-3.417	0 %100
198	M277	Y	-3.417	-3.417	0 %100
199	M277A	Y	-3.417	-3.417	0 %100
200	M278	Y	-3.417	-3.417	0 %100
201	M278A	Y	-3.417	-3.417	0 %100
202	M279	Y	-3.417	-3.417	0 %100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
203	M279A	-3.417	-3.417	0	%100
204	M280	-3.417	-3.417	0	%100
205	M280A	-3.417	-3.417	0	%100
206	M281	-3.417	-3.417	0	%100
207	M281A	-3.417	-3.417	0	%100
208	M282	-3.417	-3.417	0	%100
209	M282A	-3.417	-3.417	0	%100
210	M283	-11.654	-11.654	0	%100
211	M283A	-3.417	-3.417	0	%100
212	M284	-11.654	-11.654	0	%100
213	M284A	-3.417	-3.417	0	%100
214	M285	-11.654	-11.654	0	%100
215	M285A	-3.417	-3.417	0	%100
216	M286	-11.627	-11.627	0	%100
217	M286A	-3.417	-3.417	0	%100
218	M287	-11.627	-11.627	0	%100
219	M287A	-11.654	-11.654	0	%100
220	M288	-11.627	-11.627	0	%100
221	M288A	-11.654	-11.654	0	%100
222	M289	-5.6	-5.6	0	%100
223	M289A	-11.654	-11.654	0	%100
224	M290	-5.6	-5.6	0	%100
225	M290A	-11.627	-11.627	0	%100
226	M291	-5.6	-5.6	0	%100
227	M291A	-11.627	-11.627	0	%100
228	M292	-5.6	-5.6	0	%100
229	M292A	-11.627	-11.627	0	%100
230	M293	-5.6	-5.6	0	%100
231	M293A	-5.6	-5.6	0	%100
232	M294	-5.6	-5.6	0	%100
233	M294A	-5.6	-5.6	0	%100
234	M295	-5.6	-5.6	0	%100
235	M295A	-5.6	-5.6	0	%100
236	M296	-3.417	-3.417	0	%100
237	M296A	-5.6	-5.6	0	%100
238	M297	-5.6	-5.6	0	%100
239	M297A	-5.6	-5.6	0	%100
240	M298	-5.6	-5.6	0	%100
241	M298A	-5.6	-5.6	0	%100
242	M299	-5.6	-5.6	0	%100
243	M299A	-5.6	-5.6	0	%100
244	M300	-5.363	-5.363	0	%100
245	M300A	-3.417	-3.417	0	%100
246	M301	-5.363	-5.363	0	%100
247	M301A	-5.6	-5.6	0	%100
248	M302	-5.363	-5.363	0	%100
249	M302A	-5.6	-5.6	0	%100
250	M303	-5.131	-5.131	0	%100
251	M303A	-5.6	-5.6	0	%100
252	M304	-5.131	-5.131	0	%100
253	M304A	-5.363	-5.363	0	%100
254	M305	-5.131	-5.131	0	%100
255	M305A	-5.363	-5.363	0	%100
256	M306	-4.907	-4.907	0	%100
257	M306A	-5.363	-5.363	0	%100
258	M307	-5.131	-5.131	0	%100
259	M307A	-4.907	-4.907	0	%100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
260	M308	Y	-5.131	-5.131	0 %100
261	M308A	Y	-3.417	-3.417	0 %100
262	M309	Y	-5.131	-5.131	0 %100
263	M310	Y	-4.907	-4.907	0 %100
264	M310A	Y	-3.417	-3.417	0 %100
265	M311	Y	-4.907	-4.907	0 %100
266	M311A	Y	-3.417	-3.417	0 %100
267	M312	Y	-3.417	-3.417	0 %100
268	M312A	Y	-3.417	-3.417	0 %100
269	M313	Y	-3.417	-3.417	0 %100
270	M313A	Y	-11.627	-11.627	0 %100
271	M314	Y	-3.417	-3.417	0 %100
272	M314A	Y	-11.627	-11.627	0 %100
273	M315	Y	-3.417	-3.417	0 %100
274	M315A	Y	-5.6	-5.6	0 %100
275	M316	Y	-11.627	-11.627	0 %100
276	M316A	Y	-5.6	-5.6	0 %100
277	M317	Y	-11.627	-11.627	0 %100
278	M317A	Y	-5.6	-5.6	0 %100
279	M318	Y	-5.6	-5.6	0 %100
280	M318A	Y	-5.6	-5.6	0 %100
281	M319	Y	-5.6	-5.6	0 %100
282	M319A	Y	-5.6	-5.6	0 %100
283	M320	Y	-5.6	-5.6	0 %100
284	M320A	Y	-5.6	-5.6	0 %100
285	M321	Y	-5.6	-5.6	0 %100
286	M321A	Y	-5.6	-5.6	0 %100
287	M322	Y	-5.6	-5.6	0 %100
288	M322A	Y	-5.6	-5.6	0 %100
289	M323	Y	-11.654	-11.654	0 %100
290	M323A	Y	-5.6	-5.6	0 %100
291	M324	Y	-11.654	-11.654	0 %100
292	M324A	Y	-5.6	-5.6	0 %100
293	M325	Y	-3.417	-3.417	0 %100
294	M325A	Y	-5.6	-5.6	0 %100
295	M326	Y	-3.417	-3.417	0 %100
296	M326A	Y	-11.654	-11.654	0 %100
297	M327	Y	-3.417	-3.417	0 %100
298	M327A	Y	-11.654	-11.654	0 %100
299	M328	Y	-3.417	-3.417	0 %100
300	M328A	Y	-3.417	-3.417	0 %100
301	M329	Y	-11.627	-11.627	0 %100
302	M329A	Y	-3.417	-3.417	0 %100
303	M330	Y	-11.654	-11.654	0 %100
304	M330A	Y	-3.417	-3.417	0 %100
305	M331	Y	-5.6	-5.6	0 %100
306	M331A	Y	-3.417	-3.417	0 %100
307	M332	Y	-5.6	-5.6	0 %100
308	M332A	Y	-11.654	-11.654	0 %100
309	M332B	Y	-11.627	-11.627	0 %100
310	M333	Y	-5.6	-5.6	0 %100
311	M333A	Y	-11.654	-11.654	0 %100
312	M334	Y	-5.6	-5.6	0 %100
313	M334A	Y	-5.6	-5.6	0 %100
314	M335	Y	-11.627	-11.627	0 %100
315	M335A	Y	-5.6	-5.6	0 %100
316	M336	Y	-11.654	-11.654	0 %100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
317	M337	Y	-5.6	-5.6	0 %100
318	M338	Y	-5.6	-5.6	0 %100
319	M339	Y	-11.627	-11.627	0 %100
320	M340	Y	-3.417	-3.417	0 %100
321	M341	Y	-3.417	-3.417	0 %100
322	M342	Y	-3.417	-3.417	0 %100
323	M343	Y	-3.417	-3.417	0 %100
324	M344	Y	-3.417	-3.417	0 %100
325	M345	Y	-3.417	-3.417	0 %100
326	M355	Y	-3.417	-3.417	0 %100
327	M356	Y	-3.417	-3.417	0 %100
328	M357	Y	-5.6	-5.6	0 %100
329	M361	Y	-5.6	-5.6	0 %100
330	M362	Y	-5.6	-5.6	0 %100
331	M366	Y	-5.6	-5.6	0 %100
332	M367	Y	-3.417	-3.417	0 %100
333	M367A	Y	-5.6	-5.6	0 %100
334	M368	Y	-3.417	-3.417	0 %100
335	M369	Y	-3.417	-3.417	0 %100
336	M371	Y	-5.6	-5.6	0 %100
337	M372	Y	-3.417	-3.417	0 %100
338	M376	Y	-3.417	-3.417	0 %100
339	M377	Y	-5.6	-5.6	0 %100
340	M381	Y	-5.6	-5.6	0 %100
341	M382	Y	-5.6	-5.6	0 %100
342	M386	Y	-5.6	-5.6	0 %100
343	M387	Y	-5.6	-5.6	0 %100
344	M391	Y	-5.6	-5.6	0 %100
345	M392	Y	-3.417	-3.417	0 %100
346	M393	Y	-3.417	-3.417	0 %100
347	M394	Y	-3.417	-3.417	0 %100
348	M395	Y	-3.417	-3.417	0 %100
349	M408	Y	-3.417	-3.417	0 %100
350	M409	Y	-3.417	-3.417	0 %100
351	M410	Y	-3.417	-3.417	0 %100
352	M411	Y	-3.417	-3.417	0 %100
353	M412	Y	-28.128	-28.128	0 %100
354	M416	Y	-3.417	-3.417	0 %100
355	M417	Y	-3.417	-3.417	0 %100
356	M418	Y	-5.6	-5.6	0 %100
357	M422	Y	-5.6	-5.6	0 %100
358	M423	Y	-5.6	-5.6	0 %100
359	M427	Y	-5.6	-5.6	0 %100
360	M428	Y	-5.6	-5.6	0 %100
361	M432	Y	-5.6	-5.6	0 %100
362	M433	Y	-3.417	-3.417	0 %100
363	M437	Y	-3.417	-3.417	0 %100
364	M438	Y	-5.6	-5.6	0 %100
365	M442	Y	-5.6	-5.6	0 %100
366	M443	Y	-5.6	-5.6	0 %100
367	M447	Y	-5.6	-5.6	0 %100
368	M448	Y	-5.6	-5.6	0 %100
369	M452	Y	-5.6	-5.6	0 %100
370	M453	Y	-3.417	-3.417	0 %100
371	M454	Y	-3.417	-3.417	0 %100
372	M455	Y	-3.417	-3.417	0 %100
373	M456	Y	-3.417	-3.417	0 %100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
374	M469	-3.417	-3.417	0	%100
375	M470	-3.417	-3.417	0	%100
376	M471	-3.417	-3.417	0	%100
377	M472	-3.417	-3.417	0	%100
378	M473	-28.128	-28.128	0	%100
379	M477	-3.417	-3.417	0	%100
380	M478	-3.417	-3.417	0	%100
381	M479	-5.6	-5.6	0	%100
382	M483	-5.6	-5.6	0	%100
383	M484	-5.6	-5.6	0	%100
384	M488	-5.6	-5.6	0	%100
385	M489	-5.6	-5.6	0	%100
386	M493	-5.6	-5.6	0	%100
387	M494	-3.417	-3.417	0	%100
388	M498	-3.417	-3.417	0	%100
389	M499	-5.6	-5.6	0	%100
390	M503	-5.6	-5.6	0	%100
391	M504	-5.6	-5.6	0	%100
392	M505	-3.417	-3.417	0	%100
393	M507A	-3.417	-3.417	0	%100
394	M508	-5.6	-5.6	0	%100
395	M508B	-3.417	-3.417	0	%100
396	M509	-5.6	-5.6	0	%100
397	M510A	-5.6	-5.6	0	%100
398	M511A	-3.417	-3.417	0	%100
399	M512	-3.417	-3.417	0	%100
400	M512A	-5.6	-5.6	0	%100
401	M513	-5.6	-5.6	0	%100
402	M514	-3.417	-3.417	0	%100
403	M514A	-5.6	-5.6	0	%100
404	M514C	-3.417	-3.417	0	%100
405	M514D	-3.417	-3.417	0	%100
406	M515	-3.417	-3.417	0	%100
407	M515B	-3.417	-3.417	0	%100
408	M515C	-3.417	-3.417	0	%100
409	M516	-3.417	-3.417	0	%100
410	M516A	-3.417	-3.417	0	%100
411	M516B	-3.417	-3.417	0	%100
412	M516C	-3.417	-3.417	0	%100
413	M517	-3.417	-3.417	0	%100
414	M518A	-5.6	-5.6	0	%100
415	M520A	-5.6	-5.6	0	%100
416	M522	-5.6	-5.6	0	%100
417	M523	-3.417	-3.417	0	%100
418	M524	-3.417	-3.417	0	%100
419	M525	-3.417	-3.417	0	%100
420	M526A	-3.417	-3.417	0	%100
421	M530	-3.417	-3.417	0	%100
422	M531	-3.417	-3.417	0	%100
423	M532	-3.417	-3.417	0	%100
424	M533	-3.417	-3.417	0	%100
425	M534	-28.128	-28.128	0	%100
426	M535	-9.197	-9.197	0	%100
427	M536	-9.197	-9.197	0	%100
428	M537	-9.197	-9.197	0	%100
429	M538	-9.197	-9.197	0	%100
430	M539	-9.197	-9.197	0	%100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
431	M540	-9.197	-9.197	0	%100
432	MP1	-9.292	-9.292	0	%100
433	MP4	-9.292	-9.292	0	%100
434	MP5	-9.292	-9.292	0	%100
435	MP6	-9.292	-9.292	0	%100
436	MP10	-9.292	-9.292	0	%100
437	MP11	-9.292	-9.292	0	%100
438	MP15	-9.292	-9.292	0	%100
439	R3	-3.417	-3.417	0	%100
440	R4	-3.417	-3.417	0	%100
441	R5	-3.417	-3.417	0	%100
442	R6	-3.417	-3.417	0	%100
443	R7	-3.417	-3.417	0	%100
444	R8	-3.417	-3.417	0	%100
445	R9	-3.417	-3.417	0	%100
446	R10	-3.417	-3.417	0	%100
447	M519	-3.417	-3.417	0	%100
448	M520	-8.27	-8.27	0	%100
449	M560	-8.27	-8.27	0	%100
450	M561	-3.417	-3.417	0	%100
451	M562	-8.27	-8.27	0	%100
452	M563	-3.417	-3.417	0	%100
453	M509A	-3.417	-3.417	0	%100
454	M510B	-3.417	-3.417	0	%100
455	M511	-5.6	-5.6	0	%100
456	M512B	-5.6	-5.6	0	%100
457	M513A	-5.6	-5.6	0	%100
458	M514B	-3.417	-3.417	0	%100
459	M515A	-5.6	-5.6	0	%100
460	M516D	-5.6	-5.6	0	%100
461	M517A	-5.6	-5.6	0	%100
462	M518B	-3.417	-3.417	0	%100
463	M519A	-3.417	-3.417	0	%100
464	M520B	-3.417	-3.417	0	%100
465	M521A	-3.417	-3.417	0	%100
466	MP3	-9.292	-9.292	0	%100
467	M523A	-3.417	-3.417	0	%100
468	M524A	-3.417	-3.417	0	%100
469	M525A	-5.6	-5.6	0	%100
470	M526B	-5.6	-5.6	0	%100
471	M527A	-5.6	-5.6	0	%100
472	M528A	-3.417	-3.417	0	%100
473	M529A	-5.6	-5.6	0	%100
474	M530A	-5.6	-5.6	0	%100
475	M531A	-5.6	-5.6	0	%100
476	M532A	-3.417	-3.417	0	%100
477	M533A	-3.417	-3.417	0	%100
478	M534A	-3.417	-3.417	0	%100
479	M535A	-3.417	-3.417	0	%100
480	MP2	-9.292	-9.292	0	%100
481	M481	-3.417	-3.417	0	%100
482	M482	-3.417	-3.417	0	%100
483	M483A	-5.6	-5.6	0	%100
484	M484A	-5.6	-5.6	0	%100
485	M485	-5.6	-5.6	0	%100
486	M486	-3.417	-3.417	0	%100
487	M487	-5.6	-5.6	0	%100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[in, %]	End Location[in, %]
488	M488A	Y	-5.6	-5.6	0 %100
489	M489A	Y	-5.6	-5.6	0 %100
490	M490	Y	-3.417	-3.417	0 %100
491	M491	Y	-3.417	-3.417	0 %100
492	M492	Y	-3.417	-3.417	0 %100
493	M493A	Y	-3.417	-3.417	0 %100
494	MP14	Y	-9.292	-9.292	0 %100
495	M495	Y	-3.417	-3.417	0 %100
496	M496	Y	-3.417	-3.417	0 %100
497	M497	Y	-5.6	-5.6	0 %100
498	M498A	Y	-5.6	-5.6	0 %100
499	M499A	Y	-5.6	-5.6	0 %100
500	M500	Y	-3.417	-3.417	0 %100
501	M501	Y	-5.6	-5.6	0 %100
502	M502	Y	-5.6	-5.6	0 %100
503	M503A	Y	-5.6	-5.6	0 %100
504	M504A	Y	-3.417	-3.417	0 %100
505	M505A	Y	-3.417	-3.417	0 %100
506	M506	Y	-3.417	-3.417	0 %100
507	M507	Y	-3.417	-3.417	0 %100
508	MP13	Y	-9.292	-9.292	0 %100
509	M509B	Y	-3.417	-3.417	0 %100
510	M510	Y	-3.417	-3.417	0 %100
511	M511B	Y	-5.6	-5.6	0 %100
512	M512C	Y	-5.6	-5.6	0 %100
513	M513B	Y	-5.6	-5.6	0 %100
514	M514E	Y	-3.417	-3.417	0 %100
515	M515D	Y	-5.6	-5.6	0 %100
516	M516E	Y	-5.6	-5.6	0 %100
517	M517B	Y	-5.6	-5.6	0 %100
518	M518	Y	-3.417	-3.417	0 %100
519	M519B	Y	-3.417	-3.417	0 %100
520	M520C	Y	-3.417	-3.417	0 %100
521	M521	Y	-3.417	-3.417	0 %100
522	MP12	Y	-9.292	-9.292	0 %100
523	M523B	Y	-3.417	-3.417	0 %100
524	M524B	Y	-3.417	-3.417	0 %100
525	M525B	Y	-5.6	-5.6	0 %100
526	M526	Y	-5.6	-5.6	0 %100
527	M527	Y	-5.6	-5.6	0 %100
528	M528	Y	-3.417	-3.417	0 %100
529	M529	Y	-5.6	-5.6	0 %100
530	M530B	Y	-5.6	-5.6	0 %100
531	M531B	Y	-5.6	-5.6	0 %100
532	M532B	Y	-3.417	-3.417	0 %100
533	M533B	Y	-3.417	-3.417	0 %100
534	M534B	Y	-3.417	-3.417	0 %100
535	M535B	Y	-3.417	-3.417	0 %100
536	MP9	Y	-9.292	-9.292	0 %100
537	M537A	Y	-3.417	-3.417	0 %100
538	M538A	Y	-3.417	-3.417	0 %100
539	M539A	Y	-5.6	-5.6	0 %100
540	M540A	Y	-5.6	-5.6	0 %100
541	M541	Y	-5.6	-5.6	0 %100
542	M542	Y	-3.417	-3.417	0 %100
543	M543	Y	-5.6	-5.6	0 %100
544	M544	Y	-5.6	-5.6	0 %100



Member Distributed Loads (BLC 16 : Ice Weight) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in.%]	End Location[in.%]
545	M545	Y	-5.6	-5.6	0	%100
546	M546	Y	-3.417	-3.417	0	%100
547	M547	Y	-3.417	-3.417	0	%100
548	M548	Y	-3.417	-3.417	0	%100
549	M549	Y	-3.417	-3.417	0	%100
550	MP8	Y	-9.292	-9.292	0	%100
551	M551	Y	-3.417	-3.417	0	%100
552	M552	Y	-3.417	-3.417	0	%100
553	M553	Y	-5.6	-5.6	0	%100
554	M554	Y	-5.6	-5.6	0	%100
555	M555	Y	-5.6	-5.6	0	%100
556	M556	Y	-3.417	-3.417	0	%100
557	M557	Y	-5.6	-5.6	0	%100
558	M558	Y	-5.6	-5.6	0	%100
559	M559	Y	-5.6	-5.6	0	%100
560	M560A	Y	-3.417	-3.417	0	%100
561	M561A	Y	-3.417	-3.417	0	%100
562	M562A	Y	-3.417	-3.417	0	%100
563	M563A	Y	-3.417	-3.417	0	%100
564	MP7	Y	-9.292	-9.292	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in.%]	End Location[in.%]
1	M31	SZ	-16.95	-16.95	0	%100
2	M33	SZ	-16.95	-16.95	0	%100
3	M34A	SZ	-16.95	-16.95	0	%100
4	M45A	SZ	-12.677	-12.677	0	%100
5	M50	SZ	0	0	0	%100
6	M51	SZ	0	0	0	%100
7	M52	SZ	0	0	0	%100
8	M53	SZ	0	0	0	%100
9	M54	SZ	-11.83	-11.83	0	%100
10	M54A	SZ	0	0	0	%100
11	M55	SZ	0	0	0	%100
12	M56	SZ	0	0	0	%100
13	M57	SZ	0	0	0	%100
14	M57A	SZ	0	0	0	%100
15	M58	SZ	0	0	0	%100
16	M59	SZ	0	0	0	%100
17	M59A	SZ	0	0	0	%100
18	M60	SZ	-16.95	-16.95	0	%100
19	M60A	SZ	0	0	0	%100
20	M61	SZ	-16.95	-16.95	0	%100
21	M61A	SZ	0	0	0	%100
22	M62	SZ	-16.95	-16.95	0	%100
23	M62A	SZ	0	0	0	%100
24	M63	SZ	0	0	0	%100
25	M63A	SZ	0	0	0	%100
26	M64	SZ	0	0	0	%100
27	M64A	SZ	0	0	0	%100
28	M65	SZ	0	0	0	%100
29	M65A	SZ	0	0	0	%100
30	M66	SZ	-14.931	-14.931	0	%100
31	M66A	SZ	0	0	0	%100
32	M67	SZ	0	0	0	%100
33	M68	SZ	-12.677	-12.677	0	%100



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Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
34	M70	SZ	0	0	%100
35	M73	SZ	-12.677	-12.677	%100
36	M74	SZ	-12.677	-12.677	%100
37	M74B	SZ	-12.677	-12.677	%100
38	M74C	SZ	-14.931	-14.931	%100
39	M75	SZ	-12.677	-12.677	%100
40	M75B	SZ	-12.677	-12.677	%100
41	M76	SZ	-12.677	-12.677	%100
42	M77	SZ	-11.83	-11.83	%100
43	M78	SZ	-14.931	-14.931	%100
44	M79	SZ	-14.931	-14.931	%100
45	M80	SZ	-16.95	-16.95	%100
46	M81	SZ	-16.95	-16.95	%100
47	M82	SZ	-16.95	-16.95	%100
48	M83	SZ	-16.95	-16.95	%100
49	M84	SZ	-16.95	-16.95	%100
50	M85	SZ	-16.95	-16.95	%100
51	M94	SZ	0	0	%100
52	M95	SZ	0	0	%100
53	M96	SZ	0	0	%100
54	M97	SZ	0	0	%100
55	M99	SZ	0	0	%100
56	M100	SZ	0	0	%100
57	M101	SZ	0	0	%100
58	M102	SZ	0	0	%100
59	M103	SZ	0	0	%100
60	M104	SZ	0	0	%100
61	M105	SZ	0	0	%100
62	M106	SZ	0	0	%100
63	M108	SZ	0	0	%100
64	M109	SZ	0	0	%100
65	M110	SZ	0	0	%100
66	M111	SZ	0	0	%100
67	M112	SZ	0	0	%100
68	M113	SZ	0	0	%100
69	M114	SZ	0	0	%100
70	M115	SZ	0	0	%100
71	M116	SZ	0	0	%100
72	M117	SZ	0	0	%100
73	M118	SZ	0	0	%100
74	M119	SZ	0	0	%100
75	M122	SZ	-12.677	-12.677	%100
76	M123	SZ	-12.677	-12.677	%100
77	M124	SZ	-12.677	-12.677	%100
78	M125	SZ	-12.677	-12.677	%100
79	M126	SZ	-11.83	-11.83	%100
80	M127	SZ	-14.931	-14.931	%100
81	M127A	SZ	0	0	%100
82	M128	SZ	-14.931	-14.931	%100
83	M128A	SZ	0	0	%100
84	M129	SZ	-16.95	-16.95	%100
85	M129A	SZ	0	0	%100
86	M130	SZ	-16.95	-16.95	%100
87	M130A	SZ	0	0	%100
88	M131	SZ	-16.95	-16.95	%100
89	M131A	SZ	0	0	%100
90	M132	SZ	-16.95	-16.95	%100



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Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
91	M132A	SZ	0	0	%100
92	M133	SZ	-16.95	-16.95	%100
93	M133A	SZ	0	0	%100
94	M134	SZ	-16.95	-16.95	%100
95	M134A	SZ	0	0	%100
96	M136A	SZ	0	0	%100
97	M137A	SZ	0	0	%100
98	M138A	SZ	0	0	%100
99	M139A	SZ	0	0	%100
100	M140A	SZ	0	0	%100
101	M141A	SZ	0	0	%100
102	M142	SZ	0	0	%100
103	M143	SZ	0	0	%100
104	MH3	SZ	-15.335	-15.335	%100
105	MH1	SZ	-15.335	-15.335	%100
106	MH2	SZ	-15.335	-15.335	%100
107	M198	SZ	0	0	%100
108	M199	SZ	0	0	%100
109	M200	SZ	0	0	%100
110	M201	SZ	0	0	%100
111	M202	SZ	0	0	%100
112	M203	SZ	0	0	%100
113	M204	SZ	0	0	%100
114	M205	SZ	0	0	%100
115	M206	SZ	0	0	%100
116	M207	SZ	0	0	%100
117	M208	SZ	0	0	%100
118	M209	SZ	0	0	%100
119	M210	SZ	0	0	%100
120	M211	SZ	0	0	%100
121	M212	SZ	0	0	%100
122	M213	SZ	0	0	%100
123	M214	SZ	0	0	%100
124	M215	SZ	0	0	%100
125	M216	SZ	-12.97	-12.97	%100
126	M217	SZ	-12.97	-12.97	%100
127	M218	SZ	-12.97	-12.97	%100
128	M219	SZ	-12.99	-12.99	%100
129	M220	SZ	-12.99	-12.99	%100
130	M221	SZ	-12.99	-12.99	%100
131	M222	SZ	-29.289	-29.289	%100
132	M223	SZ	-29.289	-29.289	%100
133	M224	SZ	-29.289	-29.289	%100
134	M225	SZ	-29.289	-29.289	%100
135	M226	SZ	-29.289	-29.289	%100
136	M227	SZ	-29.289	-29.289	%100
137	M228	SZ	-29.289	-29.289	%100
138	M229	SZ	0	0	%100
139	M230	SZ	-29.289	-29.289	%100
140	M231	SZ	-29.289	-29.289	%100
141	M232	SZ	-29.289	-29.289	%100
142	M233	SZ	-31.995	-31.995	%100
143	M234	SZ	-31.995	-31.995	%100
144	M235	SZ	-31.995	-31.995	%100
145	M236	SZ	-35.365	-35.365	%100
146	M237	SZ	-35.365	-35.365	%100
147	M238	SZ	-35.365	-35.365	%100



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Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
148	M239	SZ	-39.619	-39.619	0 %100
149	M240	SZ	-39.619	-39.619	0 %100
150	M241	SZ	0	0	0 %100
151	M242	SZ	0	0	0 %100
152	M243	SZ	0	0	0 %100
153	M244	SZ	0	0	0 %100
154	M245	SZ	-12.99	-12.99	0 %100
155	M246	SZ	-12.99	-12.99	0 %100
156	M247	SZ	-29.289	-29.289	0 %100
157	M248	SZ	-29.289	-29.289	0 %100
158	M249	SZ	-29.289	-29.289	0 %100
159	M250	SZ	-29.289	-29.289	0 %100
160	M251	SZ	-29.289	-29.289	0 %100
161	M252	SZ	-29.289	-29.289	0 %100
162	M253	SZ	-29.289	-29.289	0 %100
163	M254	SZ	-29.289	-29.289	0 %100
164	M255	SZ	-12.97	-12.97	0 %100
165	M256	SZ	-12.97	-12.97	0 %100
166	M257	SZ	0	0	0 %100
167	M258	SZ	0	0	0 %100
168	M259	SZ	0	0	0 %100
169	M260	SZ	0	0	0 %100
170	M261	SZ	-12.99	-12.99	0 %100
171	M262	SZ	-12.97	-12.97	0 %100
172	M263	SZ	-29.289	-29.289	0 %100
173	M264	SZ	-29.289	-29.289	0 %100
174	M265	SZ	0	0	0 %100
175	M265A	SZ	-12.97	-12.97	0 %100
176	M266	SZ	0	0	0 %100
177	M266A	SZ	-29.289	-29.289	0 %100
178	M267	SZ	0	0	0 %100
179	M267A	SZ	-29.289	-29.289	0 %100
180	M268	SZ	0	0	0 %100
181	M268A	SZ	-12.99	-12.99	0 %100
182	M269	SZ	0	0	0 %100
183	M269A	SZ	0	0	0 %100
184	M270	SZ	0	0	0 %100
185	M270A	SZ	0	0	0 %100
186	M271	SZ	0	0	0 %100
187	M271A	SZ	0	0	0 %100
188	M272	SZ	0	0	0 %100
189	M272A	SZ	0	0	0 %100
190	M273	SZ	0	0	0 %100
191	M273A	SZ	0	0	0 %100
192	M274	SZ	0	0	0 %100
193	M274A	SZ	0	0	0 %100
194	M275	SZ	0	0	0 %100
195	M275A	SZ	0	0	0 %100
196	M276	SZ	0	0	0 %100
197	M276A	SZ	0	0	0 %100
198	M277	SZ	0	0	0 %100
199	M277A	SZ	0	0	0 %100
200	M278	SZ	0	0	0 %100
201	M278A	SZ	0	0	0 %100
202	M279	SZ	0	0	0 %100
203	M279A	SZ	0	0	0 %100
204	M280	SZ	0	0	0 %100



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Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
205	M280A	SZ	0	0	%100
206	M281	SZ	0	0	%100
207	M281A	SZ	0	0	%100
208	M282	SZ	0	0	%100
209	M282A	SZ	0	0	%100
210	M283	SZ	-12.97	-12.97	%100
211	M283A	SZ	0	0	%100
212	M284	SZ	-12.97	-12.97	%100
213	M284A	SZ	0	0	%100
214	M285	SZ	-12.97	-12.97	%100
215	M285A	SZ	0	0	%100
216	M286	SZ	-12.99	-12.99	%100
217	M286A	SZ	0	0	%100
218	M287	SZ	-12.99	-12.99	%100
219	M287A	SZ	-12.97	-12.97	%100
220	M288	SZ	-12.99	-12.99	%100
221	M288A	SZ	-12.97	-12.97	%100
222	M289	SZ	-29.289	-29.289	%100
223	M289A	SZ	-12.97	-12.97	%100
224	M290	SZ	-29.289	-29.289	%100
225	M290A	SZ	-12.99	-12.99	%100
226	M291	SZ	-29.289	-29.289	%100
227	M291A	SZ	-12.99	-12.99	%100
228	M292	SZ	-29.289	-29.289	%100
229	M292A	SZ	-12.99	-12.99	%100
230	M293	SZ	-29.289	-29.289	%100
231	M293A	SZ	-29.289	-29.289	%100
232	M294	SZ	-29.289	-29.289	%100
233	M294A	SZ	-29.289	-29.289	%100
234	M295	SZ	-29.289	-29.289	%100
235	M295A	SZ	-29.289	-29.289	%100
236	M296	SZ	0	0	%100
237	M296A	SZ	-29.289	-29.289	%100
238	M297	SZ	-29.289	-29.289	%100
239	M297A	SZ	-29.289	-29.289	%100
240	M298	SZ	-29.289	-29.289	%100
241	M298A	SZ	-29.289	-29.289	%100
242	M299	SZ	-29.289	-29.289	%100
243	M299A	SZ	-29.289	-29.289	%100
244	M300	SZ	-31.995	-31.995	%100
245	M300A	SZ	0	0	%100
246	M301	SZ	-31.995	-31.995	%100
247	M301A	SZ	-29.289	-29.289	%100
248	M302	SZ	-31.995	-31.995	%100
249	M302A	SZ	-29.289	-29.289	%100
250	M303	SZ	-35.365	-35.365	%100
251	M303A	SZ	-29.289	-29.289	%100
252	M304	SZ	-35.365	-35.365	%100
253	M304A	SZ	-31.995	-31.995	%100
254	M305	SZ	-35.365	-35.365	%100
255	M305A	SZ	-31.995	-31.995	%100
256	M306	SZ	-39.619	-39.619	%100
257	M306A	SZ	-31.995	-31.995	%100
258	M307	SZ	-35.365	-35.365	%100
259	M307A	SZ	-39.619	-39.619	%100
260	M308	SZ	-35.365	-35.365	%100
261	M308A	SZ	0	0	%100



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Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
262	M309	SZ	-35.365	-35.365	0 %100
263	M310	SZ	-39.619	-39.619	0 %100
264	M310A	SZ	0	0	0 %100
265	M311	SZ	-39.619	-39.619	0 %100
266	M311A	SZ	0	0	0 %100
267	M312	SZ	0	0	0 %100
268	M312A	SZ	0	0	0 %100
269	M313	SZ	0	0	0 %100
270	M313A	SZ	-12.99	-12.99	0 %100
271	M314	SZ	0	0	0 %100
272	M314A	SZ	-12.99	-12.99	0 %100
273	M315	SZ	0	0	0 %100
274	M315A	SZ	-29.289	-29.289	0 %100
275	M316	SZ	-12.99	-12.99	0 %100
276	M316A	SZ	-29.289	-29.289	0 %100
277	M317	SZ	-12.99	-12.99	0 %100
278	M317A	SZ	-29.289	-29.289	0 %100
279	M318	SZ	-29.289	-29.289	0 %100
280	M318A	SZ	-29.289	-29.289	0 %100
281	M319	SZ	-29.289	-29.289	0 %100
282	M319A	SZ	-29.289	-29.289	0 %100
283	M320	SZ	-29.289	-29.289	0 %100
284	M320A	SZ	-29.289	-29.289	0 %100
285	M321	SZ	-29.289	-29.289	0 %100
286	M321A	SZ	-29.289	-29.289	0 %100
287	M322	SZ	-29.289	-29.289	0 %100
288	M322A	SZ	-29.289	-29.289	0 %100
289	M323	SZ	-12.97	-12.97	0 %100
290	M323A	SZ	-29.289	-29.289	0 %100
291	M324	SZ	-12.97	-12.97	0 %100
292	M324A	SZ	-29.289	-29.289	0 %100
293	M325	SZ	0	0	0 %100
294	M325A	SZ	-29.289	-29.289	0 %100
295	M326	SZ	0	0	0 %100
296	M326A	SZ	-12.97	-12.97	0 %100
297	M327	SZ	0	0	0 %100
298	M327A	SZ	-12.97	-12.97	0 %100
299	M328	SZ	0	0	0 %100
300	M328A	SZ	0	0	0 %100
301	M329	SZ	-12.99	-12.99	0 %100
302	M329A	SZ	0	0	0 %100
303	M330	SZ	-12.97	-12.97	0 %100
304	M330A	SZ	0	0	0 %100
305	M331	SZ	-29.289	-29.289	0 %100
306	M331A	SZ	0	0	0 %100
307	M332	SZ	-29.289	-29.289	0 %100
308	M332A	SZ	-12.97	-12.97	0 %100
309	M332B	SZ	-12.99	-12.99	0 %100
310	M333	SZ	-29.289	-29.289	0 %100
311	M333A	SZ	-12.97	-12.97	0 %100
312	M334	SZ	-29.289	-29.289	0 %100
313	M334A	SZ	-29.289	-29.289	0 %100
314	M335	SZ	-12.99	-12.99	0 %100
315	M335A	SZ	-29.289	-29.289	0 %100
316	M336	SZ	-12.97	-12.97	0 %100
317	M337	SZ	-29.289	-29.289	0 %100
318	M338	SZ	-29.289	-29.289	0 %100



Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
319	M339	SZ	-12.99	-12.99	0 %100
320	M340	SZ	0	0	0 %100
321	M341	SZ	0	0	0 %100
322	M342	SZ	0	0	0 %100
323	M343	SZ	0	0	0 %100
324	M344	SZ	0	0	0 %100
325	M345	SZ	0	0	0 %100
326	M355	SZ	0	0	0 %100
327	M356	SZ	0	0	0 %100
328	M357	SZ	-29.289	-29.289	0 %100
329	M361	SZ	-29.289	-29.289	0 %100
330	M362	SZ	-29.289	-29.289	0 %100
331	M366	SZ	-29.289	-29.289	0 %100
332	M367	SZ	0	0	0 %100
333	M367A	SZ	-29.289	-29.289	0 %100
334	M368	SZ	0	0	0 %100
335	M369	SZ	0	0	0 %100
336	M371	SZ	-29.289	-29.289	0 %100
337	M372	SZ	0	0	0 %100
338	M376	SZ	0	0	0 %100
339	M377	SZ	-29.289	-29.289	0 %100
340	M381	SZ	-29.289	-29.289	0 %100
341	M382	SZ	-29.289	-29.289	0 %100
342	M386	SZ	-29.289	-29.289	0 %100
343	M387	SZ	-29.289	-29.289	0 %100
344	M391	SZ	-29.289	-29.289	0 %100
345	M392	SZ	0	0	0 %100
346	M393	SZ	0	0	0 %100
347	M394	SZ	0	0	0 %100
348	M395	SZ	0	0	0 %100
349	M408	SZ	0	0	0 %100
350	M409	SZ	0	0	0 %100
351	M410	SZ	0	0	0 %100
352	M411	SZ	0	0	0 %100
353	M412	SZ	-9.049	-9.049	0 %100
354	M416	SZ	0	0	0 %100
355	M417	SZ	0	0	0 %100
356	M418	SZ	-29.289	-29.289	0 %100
357	M422	SZ	-29.289	-29.289	0 %100
358	M423	SZ	-29.289	-29.289	0 %100
359	M427	SZ	-29.289	-29.289	0 %100
360	M428	SZ	-29.289	-29.289	0 %100
361	M432	SZ	-29.289	-29.289	0 %100
362	M433	SZ	0	0	0 %100
363	M437	SZ	0	0	0 %100
364	M438	SZ	-29.289	-29.289	0 %100
365	M442	SZ	-29.289	-29.289	0 %100
366	M443	SZ	-29.289	-29.289	0 %100
367	M447	SZ	-29.289	-29.289	0 %100
368	M448	SZ	-29.289	-29.289	0 %100
369	M452	SZ	-29.289	-29.289	0 %100
370	M453	SZ	0	0	0 %100
371	M454	SZ	0	0	0 %100
372	M455	SZ	0	0	0 %100
373	M456	SZ	0	0	0 %100
374	M469	SZ	0	0	0 %100
375	M470	SZ	0	0	0 %100



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Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]	
376	M471	SZ	0	0	0	%100
377	M472	SZ	0	0	0	%100
378	M473	SZ	-9.049	-9.049	0	%100
379	M477	SZ	0	0	0	%100
380	M478	SZ	0	0	0	%100
381	M479	SZ	-29.289	-29.289	0	%100
382	M483	SZ	-29.289	-29.289	0	%100
383	M484	SZ	-29.289	-29.289	0	%100
384	M488	SZ	-29.289	-29.289	0	%100
385	M489	SZ	-29.289	-29.289	0	%100
386	M493	SZ	-29.289	-29.289	0	%100
387	M494	SZ	0	0	0	%100
388	M498	SZ	0	0	0	%100
389	M499	SZ	-29.289	-29.289	0	%100
390	M503	SZ	-29.289	-29.289	0	%100
391	M504	SZ	-29.289	-29.289	0	%100
392	M505	SZ	0	0	0	%100
393	M507A	SZ	0	0	0	%100
394	M508	SZ	-29.289	-29.289	0	%100
395	M508B	SZ	0	0	0	%100
396	M509	SZ	-29.289	-29.289	0	%100
397	M510A	SZ	-29.289	-29.289	0	%100
398	M511A	SZ	0	0	0	%100
399	M512	SZ	0	0	0	%100
400	M512A	SZ	-29.289	-29.289	0	%100
401	M513	SZ	-29.289	-29.289	0	%100
402	M514	SZ	0	0	0	%100
403	M514A	SZ	-29.289	-29.289	0	%100
404	M514C	SZ	0	0	0	%100
405	M514D	SZ	0	0	0	%100
406	M515	SZ	0	0	0	%100
407	M515B	SZ	0	0	0	%100
408	M515C	SZ	0	0	0	%100
409	M516	SZ	0	0	0	%100
410	M516A	SZ	0	0	0	%100
411	M516B	SZ	0	0	0	%100
412	M516C	SZ	0	0	0	%100
413	M517	SZ	0	0	0	%100
414	M518A	SZ	-29.289	-29.289	0	%100
415	M520A	SZ	-29.289	-29.289	0	%100
416	M522	SZ	-29.289	-29.289	0	%100
417	M523	SZ	0	0	0	%100
418	M524	SZ	0	0	0	%100
419	M525	SZ	0	0	0	%100
420	M526A	SZ	0	0	0	%100
421	M530	SZ	0	0	0	%100
422	M531	SZ	0	0	0	%100
423	M532	SZ	0	0	0	%100
424	M533	SZ	0	0	0	%100
425	M534	SZ	-9.049	-9.049	0	%100
426	M535	SZ	-15.471	-15.471	0	%100
427	M536	SZ	-15.471	-15.471	0	%100
428	M537	SZ	-15.471	-15.471	0	%100
429	M538	SZ	-15.471	-15.471	0	%100
430	M539	SZ	-15.471	-15.471	0	%100
431	M540	SZ	-15.471	-15.471	0	%100
432	MP1	SZ	-15.335	-15.335	0	%100



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Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
490	M490	SZ	0	0	%100
491	M491	SZ	0	0	%100
492	M492	SZ	0	0	%100
493	M493A	SZ	0	0	%100
494	MP14	SZ	-15.335	-15.335	%100
495	M495	SZ	0	0	%100
496	M496	SZ	0	0	%100
497	M497	SZ	-29.289	-29.289	%100
498	M498A	SZ	-29.289	-29.289	%100
499	M499A	SZ	-29.289	-29.289	%100
500	M500	SZ	0	0	%100
501	M501	SZ	-29.289	-29.289	%100
502	M502	SZ	-29.289	-29.289	%100
503	M503A	SZ	-29.289	-29.289	%100
504	M504A	SZ	0	0	%100
505	M505A	SZ	0	0	%100
506	M506	SZ	0	0	%100
507	M507	SZ	0	0	%100
508	MP13	SZ	-15.335	-15.335	%100
509	M509B	SZ	0	0	%100
510	M510	SZ	0	0	%100
511	M511B	SZ	-29.289	-29.289	%100
512	M512C	SZ	-29.289	-29.289	%100
513	M513B	SZ	-29.289	-29.289	%100
514	M514E	SZ	0	0	%100
515	M515D	SZ	-29.289	-29.289	%100
516	M516E	SZ	-29.289	-29.289	%100
517	M517B	SZ	-29.289	-29.289	%100
518	M518	SZ	0	0	%100
519	M519B	SZ	0	0	%100
520	M520C	SZ	0	0	%100
521	M521	SZ	0	0	%100
522	MP12	SZ	-15.335	-15.335	%100
523	M523B	SZ	0	0	%100
524	M524B	SZ	0	0	%100
525	M525B	SZ	-29.289	-29.289	%100
526	M526	SZ	-29.289	-29.289	%100
527	M527	SZ	-29.289	-29.289	%100
528	M528	SZ	0	0	%100
529	M529	SZ	-29.289	-29.289	%100
530	M530B	SZ	-29.289	-29.289	%100
531	M531B	SZ	-29.289	-29.289	%100
532	M532B	SZ	0	0	%100
533	M533B	SZ	0	0	%100
534	M534B	SZ	0	0	%100
535	M535B	SZ	0	0	%100
536	MP9	SZ	-15.335	-15.335	%100
537	M537A	SZ	0	0	%100
538	M538A	SZ	0	0	%100
539	M539A	SZ	-29.289	-29.289	%100
540	M540A	SZ	-29.289	-29.289	%100
541	M541	SZ	-29.289	-29.289	%100
542	M542	SZ	0	0	%100
543	M543	SZ	-29.289	-29.289	%100
544	M544	SZ	-29.289	-29.289	%100
545	M545	SZ	-29.289	-29.289	%100
546	M546	SZ	0	0	%100



Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
547	M547	SZ	0	0	0	%100
548	M548	SZ	0	0	0	%100
549	M549	SZ	0	0	0	%100
550	MP8	SZ	-15.335	-15.335	0	%100
551	M551	SZ	0	0	0	%100
552	M552	SZ	0	0	0	%100
553	M553	SZ	-29.289	-29.289	0	%100
554	M554	SZ	-29.289	-29.289	0	%100
555	M555	SZ	-29.289	-29.289	0	%100
556	M556	SZ	0	0	0	%100
557	M557	SZ	-29.289	-29.289	0	%100
558	M558	SZ	-29.289	-29.289	0	%100
559	M559	SZ	-29.289	-29.289	0	%100
560	M560A	SZ	0	0	0	%100
561	M561A	SZ	0	0	0	%100
562	M562A	SZ	0	0	0	%100
563	M563A	SZ	0	0	0	%100
564	MP7	SZ	-15.335	-15.335	0	%100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M31	SX	-16.95	-16.95	0	%100
2	M33	SX	-16.95	-16.95	0	%100
3	M34A	SX	-16.95	-16.95	0	%100
4	M45A	SX	-12.677	-12.677	0	%100
5	M50	SX	0	0	0	%100
6	M51	SX	0	0	0	%100
7	M52	SX	0	0	0	%100
8	M53	SX	0	0	0	%100
9	M54	SX	-11.83	-11.83	0	%100
10	M54A	SX	0	0	0	%100
11	M55	SX	0	0	0	%100
12	M56	SX	0	0	0	%100
13	M57	SX	0	0	0	%100
14	M57A	SX	0	0	0	%100
15	M58	SX	0	0	0	%100
16	M59	SX	0	0	0	%100
17	M59A	SX	0	0	0	%100
18	M60	SX	-16.95	-16.95	0	%100
19	M60A	SX	0	0	0	%100
20	M61	SX	-16.95	-16.95	0	%100
21	M61A	SX	0	0	0	%100
22	M62	SX	-16.95	-16.95	0	%100
23	M62A	SX	0	0	0	%100
24	M63	SX	0	0	0	%100
25	M63A	SX	0	0	0	%100
26	M64	SX	0	0	0	%100
27	M64A	SX	0	0	0	%100
28	M65	SX	0	0	0	%100
29	M65A	SX	0	0	0	%100
30	M66	SX	-14.931	-14.931	0	%100
31	M66A	SX	0	0	0	%100
32	M67	SX	0	0	0	%100
33	M68	SX	-12.677	-12.677	0	%100
34	M70	SX	0	0	0	%100
35	M73	SX	-12.677	-12.677	0	%100



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Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
93	M133A	SX	0	0	%100
94	M134	SX	-16.95	-16.95	%100
95	M134A	SX	0	0	%100
96	M136A	SX	0	0	%100
97	M137A	SX	0	0	%100
98	M138A	SX	0	0	%100
99	M139A	SX	0	0	%100
100	M140A	SX	0	0	%100
101	M141A	SX	0	0	%100
102	M142	SX	0	0	%100
103	M143	SX	0	0	%100
104	MH3	SX	-15.335	-15.335	%100
105	MH1	SX	-15.335	-15.335	%100
106	MH2	SX	-15.335	-15.335	%100
107	M198	SX	0	0	%100
108	M199	SX	0	0	%100
109	M200	SX	0	0	%100
110	M201	SX	0	0	%100
111	M202	SX	0	0	%100
112	M203	SX	0	0	%100
113	M204	SX	0	0	%100
114	M205	SX	0	0	%100
115	M206	SX	0	0	%100
116	M207	SX	0	0	%100
117	M208	SX	0	0	%100
118	M209	SX	0	0	%100
119	M210	SX	0	0	%100
120	M211	SX	0	0	%100
121	M212	SX	0	0	%100
122	M213	SX	0	0	%100
123	M214	SX	0	0	%100
124	M215	SX	0	0	%100
125	M216	SX	-12.97	-12.97	%100
126	M217	SX	-12.97	-12.97	%100
127	M218	SX	-12.97	-12.97	%100
128	M219	SX	-12.99	-12.99	%100
129	M220	SX	-12.99	-12.99	%100
130	M221	SX	-12.99	-12.99	%100
131	M222	SX	-29.289	-29.289	%100
132	M223	SX	-29.289	-29.289	%100
133	M224	SX	-29.289	-29.289	%100
134	M225	SX	-29.289	-29.289	%100
135	M226	SX	-29.289	-29.289	%100
136	M227	SX	-29.289	-29.289	%100
137	M228	SX	-29.289	-29.289	%100
138	M229	SX	0	0	%100
139	M230	SX	-29.289	-29.289	%100
140	M231	SX	-29.289	-29.289	%100
141	M232	SX	-29.289	-29.289	%100
142	M233	SX	-31.995	-31.995	%100
143	M234	SX	-31.995	-31.995	%100
144	M235	SX	-31.995	-31.995	%100
145	M236	SX	-35.365	-35.365	%100
146	M237	SX	-35.365	-35.365	%100
147	M238	SX	-35.365	-35.365	%100
148	M239	SX	-39.619	-39.619	%100
149	M240	SX	-39.619	-39.619	%100



Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
150	M241	SX	0	0	%100
151	M242	SX	0	0	%100
152	M243	SX	0	0	%100
153	M244	SX	0	0	%100
154	M245	SX	-12.99	-12.99	%100
155	M246	SX	-12.99	-12.99	%100
156	M247	SX	-29.289	-29.289	%100
157	M248	SX	-29.289	-29.289	%100
158	M249	SX	-29.289	-29.289	%100
159	M250	SX	-29.289	-29.289	%100
160	M251	SX	-29.289	-29.289	%100
161	M252	SX	-29.289	-29.289	%100
162	M253	SX	-29.289	-29.289	%100
163	M254	SX	-29.289	-29.289	%100
164	M255	SX	-12.97	-12.97	%100
165	M256	SX	-12.97	-12.97	%100
166	M257	SX	0	0	%100
167	M258	SX	0	0	%100
168	M259	SX	0	0	%100
169	M260	SX	0	0	%100
170	M261	SX	-12.99	-12.99	%100
171	M262	SX	-12.97	-12.97	%100
172	M263	SX	-29.289	-29.289	%100
173	M264	SX	-29.289	-29.289	%100
174	M265	SX	0	0	%100
175	M265A	SX	-12.97	-12.97	%100
176	M266	SX	0	0	%100
177	M266A	SX	-29.289	-29.289	%100
178	M267	SX	0	0	%100
179	M267A	SX	-29.289	-29.289	%100
180	M268	SX	0	0	%100
181	M268A	SX	-12.99	-12.99	%100
182	M269	SX	0	0	%100
183	M269A	SX	0	0	%100
184	M270	SX	0	0	%100
185	M270A	SX	0	0	%100
186	M271	SX	0	0	%100
187	M271A	SX	0	0	%100
188	M272	SX	0	0	%100
189	M272A	SX	0	0	%100
190	M273	SX	0	0	%100
191	M273A	SX	0	0	%100
192	M274	SX	0	0	%100
193	M274A	SX	0	0	%100
194	M275	SX	0	0	%100
195	M275A	SX	0	0	%100
196	M276	SX	0	0	%100
197	M276A	SX	0	0	%100
198	M277	SX	0	0	%100
199	M277A	SX	0	0	%100
200	M278	SX	0	0	%100
201	M278A	SX	0	0	%100
202	M279	SX	0	0	%100
203	M279A	SX	0	0	%100
204	M280	SX	0	0	%100
205	M280A	SX	0	0	%100
206	M281	SX	0	0	%100



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Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
207	M281A	SX	0	0	0	%100
208	M282	SX	0	0	0	%100
209	M282A	SX	0	0	0	%100
210	M283	SX	-12.97	-12.97	0	%100
211	M283A	SX	0	0	0	%100
212	M284	SX	-12.97	-12.97	0	%100
213	M284A	SX	0	0	0	%100
214	M285	SX	-12.97	-12.97	0	%100
215	M285A	SX	0	0	0	%100
216	M286	SX	-12.99	-12.99	0	%100
217	M286A	SX	0	0	0	%100
218	M287	SX	-12.99	-12.99	0	%100
219	M287A	SX	-12.97	-12.97	0	%100
220	M288	SX	-12.99	-12.99	0	%100
221	M288A	SX	-12.97	-12.97	0	%100
222	M289	SX	-29.289	-29.289	0	%100
223	M289A	SX	-12.97	-12.97	0	%100
224	M290	SX	-29.289	-29.289	0	%100
225	M290A	SX	-12.99	-12.99	0	%100
226	M291	SX	-29.289	-29.289	0	%100
227	M291A	SX	-12.99	-12.99	0	%100
228	M292	SX	-29.289	-29.289	0	%100
229	M292A	SX	-12.99	-12.99	0	%100
230	M293	SX	-29.289	-29.289	0	%100
231	M293A	SX	-29.289	-29.289	0	%100
232	M294	SX	-29.289	-29.289	0	%100
233	M294A	SX	-29.289	-29.289	0	%100
234	M295	SX	-29.289	-29.289	0	%100
235	M295A	SX	-29.289	-29.289	0	%100
236	M296	SX	0	0	0	%100
237	M296A	SX	-29.289	-29.289	0	%100
238	M297	SX	-29.289	-29.289	0	%100
239	M297A	SX	-29.289	-29.289	0	%100
240	M298	SX	-29.289	-29.289	0	%100
241	M298A	SX	-29.289	-29.289	0	%100
242	M299	SX	-29.289	-29.289	0	%100
243	M299A	SX	-29.289	-29.289	0	%100
244	M300	SX	-31.995	-31.995	0	%100
245	M300A	SX	0	0	0	%100
246	M301	SX	-31.995	-31.995	0	%100
247	M301A	SX	-29.289	-29.289	0	%100
248	M302	SX	-31.995	-31.995	0	%100
249	M302A	SX	-29.289	-29.289	0	%100
250	M303	SX	-35.365	-35.365	0	%100
251	M303A	SX	-29.289	-29.289	0	%100
252	M304	SX	-35.365	-35.365	0	%100
253	M304A	SX	-31.995	-31.995	0	%100
254	M305	SX	-35.365	-35.365	0	%100
255	M305A	SX	-31.995	-31.995	0	%100
256	M306	SX	-39.619	-39.619	0	%100
257	M306A	SX	-31.995	-31.995	0	%100
258	M307	SX	-35.365	-35.365	0	%100
259	M307A	SX	-39.619	-39.619	0	%100
260	M308	SX	-35.365	-35.365	0	%100
261	M308A	SX	0	0	0	%100
262	M309	SX	-35.365	-35.365	0	%100
263	M310	SX	-39.619	-39.619	0	%100



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Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]	
264	M310A	SX	0	0	0	%100
265	M311	SX	-39.619	-39.619	0	%100
266	M311A	SX	0	0	0	%100
267	M312	SX	0	0	0	%100
268	M312A	SX	0	0	0	%100
269	M313	SX	0	0	0	%100
270	M313A	SX	-12.99	-12.99	0	%100
271	M314	SX	0	0	0	%100
272	M314A	SX	-12.99	-12.99	0	%100
273	M315	SX	0	0	0	%100
274	M315A	SX	-29.289	-29.289	0	%100
275	M316	SX	-12.99	-12.99	0	%100
276	M316A	SX	-29.289	-29.289	0	%100
277	M317	SX	-12.99	-12.99	0	%100
278	M317A	SX	-29.289	-29.289	0	%100
279	M318	SX	-29.289	-29.289	0	%100
280	M318A	SX	-29.289	-29.289	0	%100
281	M319	SX	-29.289	-29.289	0	%100
282	M319A	SX	-29.289	-29.289	0	%100
283	M320	SX	-29.289	-29.289	0	%100
284	M320A	SX	-29.289	-29.289	0	%100
285	M321	SX	-29.289	-29.289	0	%100
286	M321A	SX	-29.289	-29.289	0	%100
287	M322	SX	-29.289	-29.289	0	%100
288	M322A	SX	-29.289	-29.289	0	%100
289	M323	SX	-12.97	-12.97	0	%100
290	M323A	SX	-29.289	-29.289	0	%100
291	M324	SX	-12.97	-12.97	0	%100
292	M324A	SX	-29.289	-29.289	0	%100
293	M325	SX	0	0	0	%100
294	M325A	SX	-29.289	-29.289	0	%100
295	M326	SX	0	0	0	%100
296	M326A	SX	-12.97	-12.97	0	%100
297	M327	SX	0	0	0	%100
298	M327A	SX	-12.97	-12.97	0	%100
299	M328	SX	0	0	0	%100
300	M328A	SX	0	0	0	%100
301	M329	SX	-12.99	-12.99	0	%100
302	M329A	SX	0	0	0	%100
303	M330	SX	-12.97	-12.97	0	%100
304	M330A	SX	0	0	0	%100
305	M331	SX	-29.289	-29.289	0	%100
306	M331A	SX	0	0	0	%100
307	M332	SX	-29.289	-29.289	0	%100
308	M332A	SX	-12.97	-12.97	0	%100
309	M332B	SX	-12.99	-12.99	0	%100
310	M333	SX	-29.289	-29.289	0	%100
311	M333A	SX	-12.97	-12.97	0	%100
312	M334	SX	-29.289	-29.289	0	%100
313	M334A	SX	-29.289	-29.289	0	%100
314	M335	SX	-12.99	-12.99	0	%100
315	M335A	SX	-29.289	-29.289	0	%100
316	M336	SX	-12.97	-12.97	0	%100
317	M337	SX	-29.289	-29.289	0	%100
318	M338	SX	-29.289	-29.289	0	%100
319	M339	SX	-12.99	-12.99	0	%100
320	M340	SX	0	0	0	%100



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
321	M341	SX	0	0	%100
322	M342	SX	0	0	%100
323	M343	SX	0	0	%100
324	M344	SX	0	0	%100
325	M345	SX	0	0	%100
326	M355	SX	0	0	%100
327	M356	SX	0	0	%100
328	M357	SX	-29.289	-29.289	%100
329	M361	SX	-29.289	-29.289	%100
330	M362	SX	-29.289	-29.289	%100
331	M366	SX	-29.289	-29.289	%100
332	M367	SX	0	0	%100
333	M367A	SX	-29.289	-29.289	%100
334	M368	SX	0	0	%100
335	M369	SX	0	0	%100
336	M371	SX	-29.289	-29.289	%100
337	M372	SX	0	0	%100
338	M376	SX	0	0	%100
339	M377	SX	-29.289	-29.289	%100
340	M381	SX	-29.289	-29.289	%100
341	M382	SX	-29.289	-29.289	%100
342	M386	SX	-29.289	-29.289	%100
343	M387	SX	-29.289	-29.289	%100
344	M391	SX	-29.289	-29.289	%100
345	M392	SX	0	0	%100
346	M393	SX	0	0	%100
347	M394	SX	0	0	%100
348	M395	SX	0	0	%100
349	M408	SX	0	0	%100
350	M409	SX	0	0	%100
351	M410	SX	0	0	%100
352	M411	SX	0	0	%100
353	M412	SX	-9.049	-9.049	%100
354	M416	SX	0	0	%100
355	M417	SX	0	0	%100
356	M418	SX	-29.289	-29.289	%100
357	M422	SX	-29.289	-29.289	%100
358	M423	SX	-29.289	-29.289	%100
359	M427	SX	-29.289	-29.289	%100
360	M428	SX	-29.289	-29.289	%100
361	M432	SX	-29.289	-29.289	%100
362	M433	SX	0	0	%100
363	M437	SX	0	0	%100
364	M438	SX	-29.289	-29.289	%100
365	M442	SX	-29.289	-29.289	%100
366	M443	SX	-29.289	-29.289	%100
367	M447	SX	-29.289	-29.289	%100
368	M448	SX	-29.289	-29.289	%100
369	M452	SX	-29.289	-29.289	%100
370	M453	SX	0	0	%100
371	M454	SX	0	0	%100
372	M455	SX	0	0	%100
373	M456	SX	0	0	%100
374	M469	SX	0	0	%100
375	M470	SX	0	0	%100
376	M471	SX	0	0	%100
377	M472	SX	0	0	%100



Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
378	M473	SX	-9.049	-9.049	0 %100
379	M477	SX	0	0	0 %100
380	M478	SX	0	0	0 %100
381	M479	SX	-29.289	-29.289	0 %100
382	M483	SX	-29.289	-29.289	0 %100
383	M484	SX	-29.289	-29.289	0 %100
384	M488	SX	-29.289	-29.289	0 %100
385	M489	SX	-29.289	-29.289	0 %100
386	M493	SX	-29.289	-29.289	0 %100
387	M494	SX	0	0	0 %100
388	M498	SX	0	0	0 %100
389	M499	SX	-29.289	-29.289	0 %100
390	M503	SX	-29.289	-29.289	0 %100
391	M504	SX	-29.289	-29.289	0 %100
392	M505	SX	0	0	0 %100
393	M507A	SX	0	0	0 %100
394	M508	SX	-29.289	-29.289	0 %100
395	M508B	SX	0	0	0 %100
396	M509	SX	-29.289	-29.289	0 %100
397	M510A	SX	-29.289	-29.289	0 %100
398	M511A	SX	0	0	0 %100
399	M512	SX	0	0	0 %100
400	M512A	SX	-29.289	-29.289	0 %100
401	M513	SX	-29.289	-29.289	0 %100
402	M514	SX	0	0	0 %100
403	M514A	SX	-29.289	-29.289	0 %100
404	M514C	SX	0	0	0 %100
405	M514D	SX	0	0	0 %100
406	M515	SX	0	0	0 %100
407	M515B	SX	0	0	0 %100
408	M515C	SX	0	0	0 %100
409	M516	SX	0	0	0 %100
410	M516A	SX	0	0	0 %100
411	M516B	SX	0	0	0 %100
412	M516C	SX	0	0	0 %100
413	M517	SX	0	0	0 %100
414	M518A	SX	-29.289	-29.289	0 %100
415	M520A	SX	-29.289	-29.289	0 %100
416	M522	SX	-29.289	-29.289	0 %100
417	M523	SX	0	0	0 %100
418	M524	SX	0	0	0 %100
419	M525	SX	0	0	0 %100
420	M526A	SX	0	0	0 %100
421	M530	SX	0	0	0 %100
422	M531	SX	0	0	0 %100
423	M532	SX	0	0	0 %100
424	M533	SX	0	0	0 %100
425	M534	SX	-9.049	-9.049	0 %100
426	M535	SX	-15.471	-15.471	0 %100
427	M536	SX	-15.471	-15.471	0 %100
428	M537	SX	-15.471	-15.471	0 %100
429	M538	SX	-15.471	-15.471	0 %100
430	M539	SX	-15.471	-15.471	0 %100
431	M540	SX	-15.471	-15.471	0 %100
432	MP1	SX	-15.335	-15.335	0 %100
433	MP4	SX	-15.335	-15.335	0 %100
434	MP5	SX	-15.335	-15.335	0 %100



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 Designer : AT
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Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in,%]	End Location[in,%]
492	M492	0	0	0	%100
493	M493A	0	0	0	%100
494	MP14	-15.335	-15.335	0	%100
495	M495	0	0	0	%100
496	M496	0	0	0	%100
497	M497	-29.289	-29.289	0	%100
498	M498A	-29.289	-29.289	0	%100
499	M499A	-29.289	-29.289	0	%100
500	M500	0	0	0	%100
501	M501	-29.289	-29.289	0	%100
502	M502	-29.289	-29.289	0	%100
503	M503A	-29.289	-29.289	0	%100
504	M504A	0	0	0	%100
505	M505A	0	0	0	%100
506	M506	0	0	0	%100
507	M507	0	0	0	%100
508	MP13	-15.335	-15.335	0	%100
509	M509B	0	0	0	%100
510	M510	0	0	0	%100
511	M511B	-29.289	-29.289	0	%100
512	M512C	-29.289	-29.289	0	%100
513	M513B	-29.289	-29.289	0	%100
514	M514E	0	0	0	%100
515	M515D	-29.289	-29.289	0	%100
516	M516E	-29.289	-29.289	0	%100
517	M517B	-29.289	-29.289	0	%100
518	M518	0	0	0	%100
519	M519B	0	0	0	%100
520	M520C	0	0	0	%100
521	M521	0	0	0	%100
522	MP12	-15.335	-15.335	0	%100
523	M523B	0	0	0	%100
524	M524B	0	0	0	%100
525	M525B	-29.289	-29.289	0	%100
526	M526	-29.289	-29.289	0	%100
527	M527	-29.289	-29.289	0	%100
528	M528	0	0	0	%100
529	M529	-29.289	-29.289	0	%100
530	M530B	-29.289	-29.289	0	%100
531	M531B	-29.289	-29.289	0	%100
532	M532B	0	0	0	%100
533	M533B	0	0	0	%100
534	M534B	0	0	0	%100
535	M535B	0	0	0	%100
536	MP9	-15.335	-15.335	0	%100
537	M537A	0	0	0	%100
538	M538A	0	0	0	%100
539	M539A	-29.289	-29.289	0	%100
540	M540A	-29.289	-29.289	0	%100
541	M541	-29.289	-29.289	0	%100
542	M542	0	0	0	%100
543	M543	-29.289	-29.289	0	%100
544	M544	-29.289	-29.289	0	%100
545	M545	-29.289	-29.289	0	%100
546	M546	0	0	0	%100
547	M547	0	0	0	%100
548	M548	0	0	0	%100



Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
549	M549	SX	0	0	0	%100
550	MP8	SX	-15.335	-15.335	0	%100
551	M551	SX	0	0	0	%100
552	M552	SX	0	0	0	%100
553	M553	SX	-29.289	-29.289	0	%100
554	M554	SX	-29.289	-29.289	0	%100
555	M555	SX	-29.289	-29.289	0	%100
556	M556	SX	0	0	0	%100
557	M557	SX	-29.289	-29.289	0	%100
558	M558	SX	-29.289	-29.289	0	%100
559	M559	SX	-29.289	-29.289	0	%100
560	M560A	SX	0	0	0	%100
561	M561A	SX	0	0	0	%100
562	M562A	SX	0	0	0	%100
563	M563A	SX	0	0	0	%100
564	MP7	SX	-15.335	-15.335	0	%100

Member Distributed Loads (BLC 49 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M31	Y	-.329	-1.561	0	3.981
2	M31	Y	-1.561	-2.05	3.981	7.963
3	M31	Y	-2.05	-1.499	7.963	11.944
4	M31	Y	-1.499	-1.238	11.944	15.926
5	M31	Y	-1.238	-1.566	15.926	19.907
6	M33	Y	-1.001	-1.191	0	2.697
7	M33	Y	-1.191	-1.143	2.697	5.394
8	M33	Y	-1.143	-1.291	5.394	8.092
9	M33	Y	-1.291	-1.523	8.092	10.789
10	M33	Y	-1.523	-1.406	10.789	13.486
11	M34A	Y	-1.45	-.437	0	1.4
12	M34A	Y	-.437	-.411	1.4	2.8
13	M34A	Y	-.411	-1.112	2.8	4.2
14	M34A	Y	-1.112	-1.522	4.2	5.6
15	M34A	Y	-1.522	-1.904	5.6	7
16	M45A	Y	-.436	-.327	0	6.995
17	M45A	Y	-.327	-.451	6.995	13.989
18	M45A	Y	-.451	-.578	13.989	20.984
19	M45A	Y	-.578	-.361	20.984	27.979
20	M45A	Y	-.361	-.029	27.979	34.973
21	M54	Y	-.035	-.393	0	13.582
22	M54	Y	-.393	-.541	13.582	27.164
23	M54	Y	-.541	-.359	27.164	40.746
24	M74C	Y	-.178	-.568	0	2.42
25	M74C	Y	-.568	-.56	2.42	4.84
26	M74C	Y	-.56	-.153	4.84	7.261
27	M75B	Y	-.248	-.435	0	5.726
28	M75B	Y	-.435	-.37	5.726	11.452
29	M75B	Y	-.37	-.332	11.452	17.178
30	M75B	Y	-.332	-.509	17.178	22.904
31	M75B	Y	-.509	-.623	22.904	28.63
32	R6	Y	-1.37	-.641	0	1.708
33	R6	Y	-.641	.018	1.708	3.415
34	R7	Y	-1.127	-.681	0	1.137
35	R7	Y	-.681	-.39	1.137	2.273
36	R7	Y	-.39	-.255	2.273	3.41
37	R8	Y	-.045	-1.034	0	.854



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 Designer : AT
 Job Number :
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Member Distributed Loads (BLC 49 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]	
209	M126	Y	-0.035	-0.393	0	13.582
210	M126	Y	-0.393	-0.54	13.582	27.164
211	M126	Y	-0.54	-0.36	27.164	40.746
212	M127	Y	-0.178	-0.568	0	2.42
213	M127	Y	-0.568	-0.56	2.42	4.84
214	M127	Y	-0.56	-0.153	4.84	7.261
215	M132	Y	-0.331	-1.564	0	3.981
216	M132	Y	-1.564	-2.053	3.981	7.963
217	M132	Y	-2.053	-1.502	7.963	11.944
218	M132	Y	-1.502	-1.213	11.944	15.926
219	M132	Y	-1.213	-1.484	15.926	19.907
220	M133	Y	-1.001	-1.191	0	2.697
221	M133	Y	-1.191	-1.143	2.697	5.394
222	M133	Y	-1.143	-1.291	5.394	8.092
223	M133	Y	-1.291	-1.523	8.092	10.789
224	M133	Y	-1.523	-1.406	10.789	13.486
225	M134	Y	-1.45	-0.437	0	1.4
226	M134	Y	-0.437	-0.411	1.4	2.8
227	M134	Y	-0.411	-1.112	2.8	4.2
228	M134	Y	-1.112	-1.522	4.2	5.6
229	M134	Y	-1.522	-1.905	5.6	7
230	M102	Y	-1.376	-0.642	0	1.708
231	M102	Y	-0.642	0.018	1.708	3.415
232	M103	Y	-1.121	-0.676	0	1.137
233	M103	Y	-0.676	-0.39	1.137	2.273
234	M103	Y	-0.39	-0.263	2.273	3.41
235	M104	Y	0.005	-1.016	0	0.853
236	M104	Y	-1.016	-1.03	0.853	1.707
237	M104	Y	-1.03	-0.556	1.707	2.56
238	M104	Y	-0.556	-1.129	2.56	3.414
239	M122	Y	-0.435	-0.327	0	6.995
240	M122	Y	-0.327	-0.452	6.995	13.989
241	M122	Y	-0.452	-0.579	13.989	20.984
242	M122	Y	-0.579	-0.361	20.984	27.979
243	M122	Y	-0.361	-0.028	27.979	34.973
244	M125	Y	-0.248	-0.435	0	5.726
245	M125	Y	-0.435	-0.37	5.726	11.452
246	M125	Y	-0.37	-0.329	11.452	17.178
247	M125	Y	-0.329	-0.505	17.178	22.904
248	M125	Y	-0.505	-0.623	22.904	28.63
249	M128	Y	-0.183	-0.572	0	2.42
250	M128	Y	-0.572	-0.562	2.42	4.84
251	M128	Y	-0.562	-0.152	4.84	7.261
252	M129	Y	-0.328	-1.559	0	3.981
253	M129	Y	-1.559	-2.049	3.981	7.963
254	M129	Y	-2.049	-1.497	7.963	11.944
255	M129	Y	-1.497	-1.235	11.944	15.926
256	M129	Y	-1.235	-1.566	15.926	19.907
257	M130	Y	-1	-1.191	0	2.697
258	M130	Y	-1.191	-1.145	2.697	5.394
259	M130	Y	-1.145	-1.294	5.394	8.092
260	M130	Y	-1.294	-1.525	8.092	10.789
261	M130	Y	-1.525	-1.406	10.789	13.486
262	M131	Y	-1.454	-0.438	0	1.4
263	M131	Y	-0.438	-0.412	1.4	2.8
264	M131	Y	-0.412	-1.113	2.8	4.2
265	M131	Y	-1.113	-1.524	4.2	5.6



Member Distributed Loads (BLC 49 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
266	M131	-1.524	-1.911	5.6	7
267	M99	-0.154	-0.154	0	2
268	M100	-0.285	-0.285	1.382e-10	2
269	M101	-0.42	-0.42	0	2
270	M105	-0.076	-0.076	0	2
271	M106	-0.213	-0.213	2.974e-9	2
272	M108	-0.154	-0.154	0	2
273	M109	-0.285	-0.285	0	2
274	M110	-0.42	-0.42	1.375e-10	2
275	M114	-0.076	-0.076	0	2
276	M115	-0.213	-0.213	1.871e-5	2
277	M122	-0.022	-0.022	0	6.751
278	M123	-0.022	-0.022	0	6.751
279	M126	-0.386	-0.458	0	10.186
280	M126	-0.458	-0.51	10.186	20.373
281	M126	-0.51	-0.455	20.373	30.559
282	M126	-0.455	-0.376	30.559	40.746
283	M126	-0.376	-0.359	40.746	50.932
284	M456	-0.779	-0.451	0	2.375
285	M456	-0.451	-0.287	2.375	4.75
286	M456	-0.287	-0.451	4.75	7.125
287	M456	-0.451	-0.779	7.125	9.5
288	M472	-0.779	-0.451	2.452e-6	2.375
289	M472	-0.451	-0.287	2.375	4.75
290	M472	-0.287	-0.451	4.75	7.125
291	M472	-0.451	-0.779	7.125	9.5
292	M473	-0.352	-1.045	2.25	4.5
293	M473	-1.045	-1.391	4.5	6.75
294	M473	-1.391	-1.391	6.75	9
295	M473	-1.391	-1.391	9	11.25
296	M473	-1.391	-1.391	11.25	13.5
297	M473	-1.391	-1.391	13.5	15.75
298	M473	-1.391	-1.391	15.75	18
299	M473	-1.391	-1.391	18	20.25
300	M473	-1.391	-1.391	20.25	22.5
301	M473	-1.391	-1.391	22.5	24.75
302	M473	-1.391	-1.391	24.75	27
303	M473	-1.391	-1.391	27	29.25
304	M473	-1.391	-1.045	29.25	31.5
305	M473	-1.045	-0.352	31.5	33.75
306	M473	-0.352	-0.006	33.75	36
307	M473	-0.006	-0.352	36	38.25
308	M473	-0.352	-1.045	38.25	40.5
309	M473	-1.045	-1.391	40.5	42.75
310	M473	-1.391	-1.391	42.75	45
311	M473	-1.391	-1.391	45	47.25
312	M473	-1.391	-1.391	47.25	49.5
313	M473	-1.391	-1.391	49.5	51.75
314	M473	-1.391	-1.391	51.75	54
315	M473	-1.391	-1.391	54	56.25
316	M473	-1.391	-1.391	56.25	58.5
317	M473	-1.391	-1.391	58.5	60.75
318	M473	-1.391	-1.391	60.75	63
319	M473	-1.391	-1.391	63	65.25
320	M473	-1.391	-1.045	65.25	67.5
321	M473	-1.045	-0.352	67.5	69.75
322	M473	-0.352	-0.006	69.75	72



Member Distributed Loads (BLC 49 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in.%]	End Location[in.%]	
323	M473	Y	-0.006	-0.352	72	74.25
324	M473	Y	-0.352	-1.045	74.25	76.5
325	M473	Y	-1.045	-1.391	76.5	78.75
326	M473	Y	-1.391	-1.391	78.75	81
327	M473	Y	-1.391	-1.391	81	83.25
328	M473	Y	-1.391	-1.391	83.25	85.5
329	M473	Y	-1.391	-1.391	85.5	87.75
330	M473	Y	-1.391	-1.391	87.75	90
331	M473	Y	-1.391	-1.391	90	92.25
332	M473	Y	-1.391	-1.391	92.25	94.5
333	M473	Y	-1.391	-1.391	94.5	96.75
334	M473	Y	-1.391	-1.391	96.75	99
335	M473	Y	-1.391	-1.391	99	101.25
336	M473	Y	-1.391	-1.045	101.25	103.5
337	M473	Y	-1.045	-0.352	103.5	105.75
338	M473	Y	-0.352	-0.006	105.75	108
339	M473	Y	-0.006	-0.352	108	110.25
340	M473	Y	-0.352	-1.045	110.25	112.5
341	M473	Y	-1.045	-1.391	112.5	114.75
342	M473	Y	-1.391	-1.391	114.75	117
343	M473	Y	-1.391	-1.391	117	119.25
344	M473	Y	-1.391	-1.391	119.25	121.5
345	M473	Y	-1.391	-1.391	121.5	123.75
346	M473	Y	-1.391	-1.391	123.75	126
347	M473	Y	-1.391	-1.391	126	128.25
348	M473	Y	-1.391	-1.391	128.25	130.5
349	M473	Y	-1.391	-1.391	130.5	132.75
350	M473	Y	-1.391	-1.391	132.75	135
351	M473	Y	-1.391	-1.391	135	137.25
352	M473	Y	-1.391	-1.045	137.25	139.5
353	M473	Y	-1.045	-0.352	139.5	141.75
354	M523	Y	-1.559	-0.902	0	2.375
355	M523	Y	-0.902	-0.574	2.375	4.75
356	M523	Y	-0.574	-0.902	4.75	7.125
357	M523	Y	-0.902	-1.559	7.125	9.5
358	M518B	Y	-1.559	-0.902	0	2.375
359	M518B	Y	-0.902	-0.574	2.375	4.75
360	M518B	Y	-0.574	-0.902	4.75	7.125
361	M518B	Y	-0.902	-1.559	7.125	9.5
362	M532A	Y	-1.559	-0.902	0	2.375
363	M532A	Y	-0.902	-0.574	2.375	4.75
364	M532A	Y	-0.574	-0.902	4.75	7.125
365	M532A	Y	-0.902	-1.559	7.125	9.5
366	M517	Y	-0.779	-0.451	2.135e-12	2.375
367	M517	Y	-0.451	-0.287	2.375	4.75
368	M517	Y	-0.287	-0.451	4.75	7.125
369	M517	Y	-0.451	-0.779	7.125	9.5
370	M533	Y	-0.779	-0.451	3.017e-6	2.375
371	M533	Y	-0.451	-0.287	2.375	4.75
372	M533	Y	-0.287	-0.451	4.75	7.125
373	M533	Y	-0.451	-0.779	7.125	9.5
374	M534	Y	-0.352	-1.045	2.25	4.5
375	M534	Y	-1.045	-1.391	4.5	6.75
376	M534	Y	-1.391	-1.391	6.75	9
377	M534	Y	-1.391	-1.391	9	11.25
378	M534	Y	-1.391	-1.391	11.25	13.5
379	M534	Y	-1.391	-1.391	13.5	15.75



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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 Checked By: _____

Member Distributed Loads (BLC 49 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
380	M534	Y	-1.391	-1.391	15.75 18
381	M534	Y	-1.391	-1.391	18 20.25
382	M534	Y	-1.391	-1.391	20.25 22.5
383	M534	Y	-1.391	-1.391	22.5 24.75
384	M534	Y	-1.391	-1.391	24.75 27
385	M534	Y	-1.391	-1.391	27 29.25
386	M534	Y	-1.391	-1.045	29.25 31.5
387	M534	Y	-1.045	-.352	31.5 33.75
388	M534	Y	-.352	-.006	33.75 36
389	M534	Y	-.006	-.352	36 38.25
390	M534	Y	-.352	-1.045	38.25 40.5
391	M534	Y	-1.045	-1.391	40.5 42.75
392	M534	Y	-1.391	-1.391	42.75 45
393	M534	Y	-1.391	-1.391	45 47.25
394	M534	Y	-1.391	-1.391	47.25 49.5
395	M534	Y	-1.391	-1.391	49.5 51.75
396	M534	Y	-1.391	-1.391	51.75 54
397	M534	Y	-1.391	-1.391	54 56.25
398	M534	Y	-1.391	-1.391	56.25 58.5
399	M534	Y	-1.391	-1.391	58.5 60.75
400	M534	Y	-1.391	-1.391	60.75 63
401	M534	Y	-1.391	-1.391	63 65.25
402	M534	Y	-1.391	-1.045	65.25 67.5
403	M534	Y	-1.045	-.352	67.5 69.75
404	M534	Y	-.352	-.006	69.75 72
405	M534	Y	-.006	-.352	72 74.25
406	M534	Y	-.352	-1.045	74.25 76.5
407	M534	Y	-1.045	-1.391	76.5 78.75
408	M534	Y	-1.391	-1.391	78.75 81
409	M534	Y	-1.391	-1.391	81 83.25
410	M534	Y	-1.391	-1.391	83.25 85.5
411	M534	Y	-1.391	-1.391	85.5 87.75
412	M534	Y	-1.391	-1.391	87.75 90
413	M534	Y	-1.391	-1.391	90 92.25
414	M534	Y	-1.391	-1.391	92.25 94.5
415	M534	Y	-1.391	-1.391	94.5 96.75
416	M534	Y	-1.391	-1.391	96.75 99
417	M534	Y	-1.391	-1.391	99 101.25
418	M534	Y	-1.391	-1.045	101.25 103.5
419	M534	Y	-1.045	-.352	103.5 105.75
420	M534	Y	-.352	-.006	105.75 108
421	M534	Y	-.006	-.352	108 110.25
422	M534	Y	-.352	-1.045	110.25 112.5
423	M534	Y	-1.045	-1.391	112.5 114.75
424	M534	Y	-1.391	-1.391	114.75 117
425	M534	Y	-1.391	-1.391	117 119.25
426	M534	Y	-1.391	-1.391	119.25 121.5
427	M534	Y	-1.391	-1.391	121.5 123.75
428	M534	Y	-1.391	-1.391	123.75 126
429	M534	Y	-1.391	-1.391	126 128.25
430	M534	Y	-1.391	-1.391	128.25 130.5
431	M534	Y	-1.391	-1.391	130.5 132.75
432	M534	Y	-1.391	-1.391	132.75 135
433	M534	Y	-1.391	-1.391	135 137.25
434	M534	Y	-1.391	-1.045	137.25 139.5
435	M534	Y	-1.045	-.352	139.5 141.75
436	M490	Y	-1.559	-.902	0 2.375



Member Distributed Loads (BLC 49 : BLC 1 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
437	M490	- .902	- .574	2.375	4.75
438	M490	- .574	- .902	4.75	7.125
439	M490	- .902	- 1.559	7.125	9.5
440	M504A	- 1.559	- .902	0	2.375
441	M504A	- .902	- .574	2.375	4.75
442	M504A	- .574	- .902	4.75	7.125
443	M504A	- .902	- 1.559	7.125	9.5
444	M518	- 1.559	- .902	0	2.375
445	M518	- .902	- .574	2.375	4.75
446	M518	- .574	- .902	4.75	7.125
447	M518	- .902	- 1.559	7.125	9.5
448	M395	- .779	- .451	3.997e-15	2.375
449	M395	- .451	- .287	2.375	4.75
450	M395	- .287	- .451	4.75	7.125
451	M395	- .451	- .779	7.125	9.5
452	M411	- .779	- .451	3.017e-6	2.375
453	M411	- .451	- .287	2.375	4.75
454	M411	- .287	- .451	4.75	7.125
455	M411	- .451	- .779	7.125	9.5
456	M412	- .352	- 1.045	2.25	4.5
457	M412	- 1.045	- 1.391	4.5	6.75
458	M412	- 1.391	- 1.391	6.75	9
459	M412	- 1.391	- 1.391	9	11.25
460	M412	- 1.391	- 1.391	11.25	13.5
461	M412	- 1.391	- 1.391	13.5	15.75
462	M412	- 1.391	- 1.391	15.75	18
463	M412	- 1.391	- 1.391	18	20.25
464	M412	- 1.391	- 1.391	20.25	22.5
465	M412	- 1.391	- 1.391	22.5	24.75
466	M412	- 1.391	- 1.391	24.75	27
467	M412	- 1.391	- 1.391	27	29.25
468	M412	- 1.391	- 1.045	29.25	31.5
469	M412	- 1.045	- .352	31.5	33.75
470	M412	- .352	- .006	33.75	36
471	M412	- .006	- .352	36	38.25
472	M412	- .352	- 1.045	38.25	40.5
473	M412	- 1.045	- 1.391	40.5	42.75
474	M412	- 1.391	- 1.391	42.75	45
475	M412	- 1.391	- 1.391	45	47.25
476	M412	- 1.391	- 1.391	47.25	49.5
477	M412	- 1.391	- 1.391	49.5	51.75
478	M412	- 1.391	- 1.391	51.75	54
479	M412	- 1.391	- 1.391	54	56.25
480	M412	- 1.391	- 1.391	56.25	58.5
481	M412	- 1.391	- 1.391	58.5	60.75
482	M412	- 1.391	- 1.391	60.75	63
483	M412	- 1.391	- 1.391	63	65.25
484	M412	- 1.391	- 1.045	65.25	67.5
485	M412	- 1.045	- .352	67.5	69.75
486	M412	- .352	- .006	69.75	72
487	M412	- .006	- .352	72	74.25
488	M412	- .352	- 1.045	74.25	76.5
489	M412	- 1.045	- 1.391	76.5	78.75
490	M412	- 1.391	- 1.391	78.75	81
491	M412	- 1.391	- 1.391	81	83.25
492	M412	- 1.391	- 1.391	83.25	85.5
493	M412	- 1.391	- 1.391	85.5	87.75



Member Distributed Loads (BLC 49 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
494	M412	Y	-1.391	-1.391	87.75	90
495	M412	Y	-1.391	-1.391	90	92.25
496	M412	Y	-1.391	-1.391	92.25	94.5
497	M412	Y	-1.391	-1.391	94.5	96.75
498	M412	Y	-1.391	-1.391	96.75	99
499	M412	Y	-1.391	-1.391	99	101.25
500	M412	Y	-1.391	-1.045	101.25	103.5
501	M412	Y	-1.045	-.352	103.5	105.75
502	M412	Y	-.352	-.006	105.75	108
503	M412	Y	-.006	-.352	108	110.25
504	M412	Y	-.352	-1.045	110.25	112.5
505	M412	Y	-1.045	-1.391	112.5	114.75
506	M412	Y	-1.391	-1.391	114.75	117
507	M412	Y	-1.391	-1.391	117	119.25
508	M412	Y	-1.391	-1.391	119.25	121.5
509	M412	Y	-1.391	-1.391	121.5	123.75
510	M412	Y	-1.391	-1.391	123.75	126
511	M412	Y	-1.391	-1.391	126	128.25
512	M412	Y	-1.391	-1.391	128.25	130.5
513	M412	Y	-1.391	-1.391	130.5	132.75
514	M412	Y	-1.391	-1.391	132.75	135
515	M412	Y	-1.391	-1.391	135	137.25
516	M412	Y	-1.391	-1.045	137.25	139.5
517	M412	Y	-1.045	-.352	139.5	141.75
518	M532B	Y	-1.559	-.902	0	2.375
519	M532B	Y	-.902	-.574	2.375	4.75
520	M532B	Y	-.574	-.902	4.75	7.125
521	M532B	Y	-.902	-1.559	7.125	9.5
522	M546	Y	-1.559	-.902	0	2.375
523	M546	Y	-.902	-.574	2.375	4.75
524	M546	Y	-.574	-.902	4.75	7.125
525	M546	Y	-.902	-1.559	7.125	9.5
526	M560A	Y	-1.559	-.902	0	2.375
527	M560A	Y	-.902	-.574	2.375	4.75
528	M560A	Y	-.574	-.902	4.75	7.125
529	M560A	Y	-.902	-1.559	7.125	9.5

Member Distributed Loads (BLC 50 : BLC 16 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
1	M31	Y	-2.932	-13.919	0	3.981
2	M31	Y	-13.919	-18.275	3.981	7.963
3	M31	Y	-18.275	-13.359	7.963	11.944
4	M31	Y	-13.359	-11.039	11.944	15.926
5	M31	Y	-11.039	-13.96	15.926	19.907
6	M33	Y	-8.926	-10.615	0	2.697
7	M33	Y	-10.615	-10.19	2.697	5.394
8	M33	Y	-10.19	-11.512	5.394	8.092
9	M33	Y	-11.512	-13.578	8.092	10.789
10	M33	Y	-13.578	-12.529	10.789	13.486
11	M34A	Y	-12.928	-3.895	0	1.4
12	M34A	Y	-3.895	-3.668	1.4	2.8
13	M34A	Y	-3.668	-9.91	2.8	4.2
14	M34A	Y	-9.91	-13.566	4.2	5.6
15	M34A	Y	-13.566	-16.973	5.6	7
16	M45A	Y	-3.885	-2.918	0	6.995
17	M45A	Y	-2.918	-4.018	6.995	13.989



Member Distributed Loads (BLC 50 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
75	M74B	-3.298	-2.933	11.452	17.178
76	M74B	-2.933	-4.513	17.178	22.904
77	M74B	-4.513	-5.574	22.904	28.63
78	M45A	-.201	-.201	0	6.751
79	M54	-3.44	-4.083	0	10.186
80	M54	-4.083	-4.545	10.186	20.373
81	M54	-4.545	-4.059	20.373	30.559
82	M54	-4.059	-3.35	30.559	40.746
83	M54	-3.35	-3.186	40.746	50.932
84	M57	-1.376	-1.376	0	2
85	M58	-2.545	-2.545	1.903e-12	2
86	M59	-3.743	-3.743	0	2.001
87	M67	-.677	-.677	0	2
88	M68	-.201	-.201	0	6.751
89	M70	-1.898	-1.898	0	2
90	R3	-1.376	-1.376	0	2
91	R4	-2.545	-2.545	1.744e-13	2
92	R5	-3.85	-3.85	6.114e-5	1.945
93	R9	-.677	-.677	0	2
94	R10	-1.898	-1.898	6.79e-8	2
95	M62A	-12.268	-5.723	0	1.708
96	M62A	-5.723	.165	1.708	3.415
97	M63A	-10.23	-6.107	0	1.137
98	M63A	-6.107	-3.478	1.137	2.273
99	M63A	-3.478	-2.343	2.273	3.41
100	M64A	-.316	-9.251	0	.854
101	M64A	-9.251	-8.359	.854	1.707
102	M64A	-8.359	-5.275	1.707	2.561
103	M64A	-5.275	-9.826	2.561	3.414
104	M74	-3.879	-2.916	0	6.995
105	M74	-2.916	-4.025	6.995	13.989
106	M74	-4.025	-5.16	13.989	20.984
107	M74	-5.16	-3.218	20.984	27.979
108	M74	-3.218	-.246	27.979	34.973
109	M75	-2.21	-3.879	0	5.726
110	M75	-3.879	-3.3	5.726	11.452
111	M75	-3.3	-2.95	11.452	17.178
112	M75	-2.95	-4.52	17.178	22.904
113	M75	-4.52	-5.534	22.904	28.63
114	M77	-.312	-3.499	0	13.582
115	M77	-3.499	-4.812	13.582	27.164
116	M77	-4.812	-3.211	27.164	40.746
117	M78	-1.634	-5.097	0	2.42
118	M78	-5.097	-5.005	2.42	4.84
119	M78	-5.005	-1.359	4.84	7.261
120	M83	-2.924	-13.902	0	3.981
121	M83	-13.902	-18.27	3.981	7.963
122	M83	-18.27	-13.345	7.963	11.944
123	M83	-13.345	-10.99	11.944	15.926
124	M83	-10.99	-13.89	15.926	19.907
125	M84	-8.915	-10.621	0	2.697
126	M84	-10.621	-10.208	2.697	5.394
127	M84	-10.208	-11.531	5.394	8.092
128	M84	-11.531	-13.59	8.092	10.789
129	M84	-13.59	-12.532	10.789	13.486
130	M85	-12.959	-3.903	0	1.4
131	M85	-3.903	-3.677	1.4	2.8



Member Distributed Loads (BLC 50 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
132	M85	-3.677	-9.919	2.8	4.2
133	M85	-9.919	-13.584	4.2	5.6
134	M85	-13.584	-17.034	5.6	7
135	M53	-12.268	-5.723	0	1.708
136	M53	-5.723	.165	1.708	3.415
137	M54A	-9.991	-6.027	0	1.137
138	M54A	-6.027	-3.478	1.137	2.273
139	M54A	-3.478	-2.344	2.273	3.41
140	M55	-.316	-9.251	0	.854
141	M55	-9.251	-8.359	.854	1.707
142	M55	-8.359	-5.275	1.707	2.561
143	M55	-5.275	-9.826	2.561	3.414
144	M73	-3.879	-2.916	0	6.995
145	M73	-2.916	-4.025	6.995	13.989
146	M73	-4.025	-5.16	13.989	20.984
147	M73	-5.16	-3.22	20.984	27.979
148	M73	-3.22	-.252	27.979	34.973
149	M76	-2.21	-3.879	0	5.726
150	M76	-3.879	-3.3	5.726	11.452
151	M76	-3.3	-2.95	11.452	17.178
152	M76	-2.95	-4.52	17.178	22.904
153	M76	-4.52	-5.534	22.904	28.63
154	M79	-1.628	-5.095	0	2.42
155	M79	-5.095	-5.006	2.42	4.84
156	M79	-5.006	-1.359	4.84	7.261
157	M80	-2.922	-13.899	0	3.981
158	M80	-13.899	-18.268	3.981	7.963
159	M80	-18.268	-13.342	7.963	11.944
160	M80	-13.342	-11.013	11.944	15.926
161	M80	-11.013	-13.964	15.926	19.907
162	M81	-8.915	-10.621	0	2.697
163	M81	-10.621	-10.208	2.697	5.394
164	M81	-10.208	-11.531	5.394	8.092
165	M81	-11.531	-13.59	8.092	10.789
166	M81	-13.59	-12.532	10.789	13.486
167	M82	-12.959	-3.903	0	1.4
168	M82	-3.903	-3.677	1.4	2.8
169	M82	-3.677	-9.919	2.8	4.2
170	M82	-9.919	-13.584	4.2	5.6
171	M82	-13.584	-17.034	5.6	7
172	M50	-1.376	-1.376	0	2
173	M51	-2.542	-2.542	0	2
174	M52	-3.746	-3.746	0	2
175	M56	-.677	-.677	0	2
176	M57A	-1.903	-1.903	0	2
177	M59A	-1.376	-1.376	0	2
178	M60A	-2.542	-2.542	4.996e-16	2
179	M61A	-3.746	-3.746	0	2
180	M65A	-.677	-.677	0	2
181	M66A	-1.903	-1.903	0	2
182	M73	-.201	-.201	0	6.751
183	M74	-.201	-.201	0	6.751
184	M77	-3.439	-4.082	0	10.186
185	M77	-4.082	-4.542	10.186	20.373
186	M77	-4.542	-4.052	20.373	30.559
187	M77	-4.052	-3.351	30.559	40.746
188	M77	-3.351	-3.203	40.746	50.932



Company : Infinigy Engineering
 Designer : AT
 Job Number :
 Model Name : CLT01028

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 Checked By: _____

Member Distributed Loads (BLC 50 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
189	M111	-12.206	-5.71	0	1.708
190	M111	-5.71	.157	1.708	3.415
191	M112	-8.794	-8.24	0	.852
192	M112	-8.24	-6.178	.852	1.705
193	M112	-6.178	-3.541	1.705	2.557
194	M112	-3.541	-1.836	2.557	3.41
195	M113	-.406	-9.221	0	.854
196	M113	-9.221	-8.328	.854	1.707
197	M113	-8.328	-5.279	1.707	2.561
198	M113	-5.279	-9.784	2.561	3.414
199	M123	-3.885	-2.918	0	6.995
200	M123	-2.918	-4.018	6.995	13.989
201	M123	-4.018	-5.153	13.989	20.984
202	M123	-5.153	-3.222	20.984	27.979
203	M123	-3.222	-.257	27.979	34.973
204	M124	-2.21	-3.879	0	5.726
205	M124	-3.879	-3.3	5.726	11.452
206	M124	-3.3	-2.956	11.452	17.178
207	M124	-2.956	-4.535	17.178	22.904
208	M124	-4.535	-5.556	22.904	28.63
209	M126	-.313	-3.502	0	13.582
210	M126	-3.502	-4.815	13.582	27.164
211	M126	-4.815	-3.206	27.164	40.746
212	M127	-1.59	-5.064	0	2.42
213	M127	-5.064	-4.988	2.42	4.84
214	M127	-4.988	-1.362	4.84	7.261
215	M132	-2.946	-13.94	0	3.981
216	M132	-13.94	-18.305	3.981	7.963
217	M132	-18.305	-13.39	7.963	11.944
218	M132	-13.39	-10.815	11.944	15.926
219	M132	-10.815	-13.233	15.926	19.907
220	M133	-8.926	-10.615	0	2.697
221	M133	-10.615	-10.19	2.697	5.394
222	M133	-10.19	-11.512	5.394	8.092
223	M133	-11.512	-13.578	8.092	10.789
224	M133	-13.578	-12.529	10.789	13.486
225	M134	-12.924	-3.893	0	1.4
226	M134	-3.893	-3.667	1.4	2.8
227	M134	-3.667	-9.909	2.8	4.2
228	M134	-9.909	-13.568	4.2	5.6
229	M134	-13.568	-16.979	5.6	7
230	M102	-12.268	-5.723	0	1.708
231	M102	-5.723	.165	1.708	3.415
232	M103	-9.991	-6.027	0	1.137
233	M103	-6.027	-3.478	1.137	2.273
234	M103	-3.478	-2.344	2.273	3.41
235	M104	.044	-9.06	0	.853
236	M104	-9.06	-9.185	.853	1.707
237	M104	-9.185	-4.958	1.707	2.56
238	M104	-4.958	-10.065	2.56	3.414
239	M122	-3.879	-2.916	0	6.995
240	M122	-2.916	-4.025	6.995	13.989
241	M122	-4.025	-5.16	13.989	20.984
242	M122	-5.16	-3.22	20.984	27.979
243	M122	-3.22	-.252	27.979	34.973
244	M125	-2.208	-3.877	0	5.726
245	M125	-3.877	-3.298	5.726	11.452



Member Distributed Loads (BLC 50 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
303	M473	-12.4	-12.4	27	29.25
304	M473	-12.4	-9.312	29.25	31.5
305	M473	-9.312	-3.137	31.5	33.75
306	M473	-3.137	-.05	33.75	36
307	M473	-.05	-3.137	36	38.25
308	M473	-3.137	-9.312	38.25	40.5
309	M473	-9.312	-12.4	40.5	42.75
310	M473	-12.4	-12.4	42.75	45
311	M473	-12.4	-12.4	45	47.25
312	M473	-12.4	-12.4	47.25	49.5
313	M473	-12.4	-12.4	49.5	51.75
314	M473	-12.4	-12.4	51.75	54
315	M473	-12.4	-12.4	54	56.25
316	M473	-12.4	-12.4	56.25	58.5
317	M473	-12.4	-12.4	58.5	60.75
318	M473	-12.4	-12.4	60.75	63
319	M473	-12.4	-12.4	63	65.25
320	M473	-12.4	-9.312	65.25	67.5
321	M473	-9.312	-3.137	67.5	69.75
322	M473	-3.137	-.05	69.75	72
323	M473	-.05	-3.137	72	74.25
324	M473	-3.137	-9.312	74.25	76.5
325	M473	-9.312	-12.4	76.5	78.75
326	M473	-12.4	-12.4	78.75	81
327	M473	-12.4	-12.4	81	83.25
328	M473	-12.4	-12.4	83.25	85.5
329	M473	-12.4	-12.4	85.5	87.75
330	M473	-12.4	-12.4	87.75	90
331	M473	-12.4	-12.4	90	92.25
332	M473	-12.4	-12.4	92.25	94.5
333	M473	-12.4	-12.4	94.5	96.75
334	M473	-12.4	-12.4	96.75	99
335	M473	-12.4	-12.4	99	101.25
336	M473	-12.4	-9.312	101.25	103.5
337	M473	-9.312	-3.137	103.5	105.75
338	M473	-3.137	-.05	105.75	108
339	M473	-.05	-3.137	108	110.25
340	M473	-3.137	-9.312	110.25	112.5
341	M473	-9.312	-12.4	112.5	114.75
342	M473	-12.4	-12.4	114.75	117
343	M473	-12.4	-12.4	117	119.25
344	M473	-12.4	-12.4	119.25	121.5
345	M473	-12.4	-12.4	121.5	123.75
346	M473	-12.4	-12.4	123.75	126
347	M473	-12.4	-12.4	126	128.25
348	M473	-12.4	-12.4	128.25	130.5
349	M473	-12.4	-12.4	130.5	132.75
350	M473	-12.4	-12.4	132.75	135
351	M473	-12.4	-12.4	135	137.25
352	M473	-12.4	-9.312	137.25	139.5
353	M473	-9.312	-3.137	139.5	141.75
354	M523	-13.894	-8.044	0	2.375
355	M523	-8.044	-5.119	2.375	4.75
356	M523	-5.119	-8.044	4.75	7.125
357	M523	-8.044	-13.894	7.125	9.5
358	M518B	-13.894	-8.044	0	2.375
359	M518B	-8.044	-5.119	2.375	4.75



Member Distributed Loads (BLC 50 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[in, %]	End Location[in, %]
360	M518B	Y	-5.119	-8.044	4.75 7.125
361	M518B	Y	-8.044	-13.894	7.125 9.5
362	M532A	Y	-13.894	-8.044	0 2.375
363	M532A	Y	-8.044	-5.119	2.375 4.75
364	M532A	Y	-5.119	-8.044	4.75 7.125
365	M532A	Y	-8.044	-13.894	7.125 9.5
366	M517	Y	-6.947	-4.022	2.135e-12 2.375
367	M517	Y	-4.022	-2.559	2.375 4.75
368	M517	Y	-2.559	-4.022	4.75 7.125
369	M517	Y	-4.022	-6.947	7.125 9.5
370	M533	Y	-6.947	-4.022	3.017e-6 2.375
371	M533	Y	-4.022	-2.559	2.375 4.75
372	M533	Y	-2.559	-4.022	4.75 7.125
373	M533	Y	-4.022	-6.947	7.125 9.5
374	M534	Y	-3.137	-9.312	2.25 4.5
375	M534	Y	-9.312	-12.4	4.5 6.75
376	M534	Y	-12.4	-12.4	6.75 9
377	M534	Y	-12.4	-12.4	9 11.25
378	M534	Y	-12.4	-12.4	11.25 13.5
379	M534	Y	-12.4	-12.4	13.5 15.75
380	M534	Y	-12.4	-12.4	15.75 18
381	M534	Y	-12.4	-12.4	18 20.25
382	M534	Y	-12.4	-12.4	20.25 22.5
383	M534	Y	-12.4	-12.4	22.5 24.75
384	M534	Y	-12.4	-12.4	24.75 27
385	M534	Y	-12.4	-12.4	27 29.25
386	M534	Y	-12.4	-9.312	29.25 31.5
387	M534	Y	-9.312	-3.137	31.5 33.75
388	M534	Y	-3.137	-.05	33.75 36
389	M534	Y	-.05	-3.137	36 38.25
390	M534	Y	-3.137	-9.312	38.25 40.5
391	M534	Y	-9.312	-12.4	40.5 42.75
392	M534	Y	-12.4	-12.4	42.75 45
393	M534	Y	-12.4	-12.4	45 47.25
394	M534	Y	-12.4	-12.4	47.25 49.5
395	M534	Y	-12.4	-12.4	49.5 51.75
396	M534	Y	-12.4	-12.4	51.75 54
397	M534	Y	-12.4	-12.4	54 56.25
398	M534	Y	-12.4	-12.4	56.25 58.5
399	M534	Y	-12.4	-12.4	58.5 60.75
400	M534	Y	-12.4	-12.4	60.75 63
401	M534	Y	-12.4	-12.4	63 65.25
402	M534	Y	-12.4	-9.312	65.25 67.5
403	M534	Y	-9.312	-3.137	67.5 69.75
404	M534	Y	-3.137	-.05	69.75 72
405	M534	Y	-.05	-3.137	72 74.25
406	M534	Y	-3.137	-9.312	74.25 76.5
407	M534	Y	-9.312	-12.4	76.5 78.75
408	M534	Y	-12.4	-12.4	78.75 81
409	M534	Y	-12.4	-12.4	81 83.25
410	M534	Y	-12.4	-12.4	83.25 85.5
411	M534	Y	-12.4	-12.4	85.5 87.75
412	M534	Y	-12.4	-12.4	87.75 90
413	M534	Y	-12.4	-12.4	90 92.25
414	M534	Y	-12.4	-12.4	92.25 94.5
415	M534	Y	-12.4	-12.4	94.5 96.75
416	M534	Y	-12.4	-12.4	96.75 99



Member Distributed Loads (BLC 50 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
417	M534	-12.4	-12.4	99	101.25
418	M534	-12.4	-9.312	101.25	103.5
419	M534	-9.312	-3.137	103.5	105.75
420	M534	-3.137	-.05	105.75	108
421	M534	-.05	-3.137	108	110.25
422	M534	-3.137	-9.312	110.25	112.5
423	M534	-9.312	-12.4	112.5	114.75
424	M534	-12.4	-12.4	114.75	117
425	M534	-12.4	-12.4	117	119.25
426	M534	-12.4	-12.4	119.25	121.5
427	M534	-12.4	-12.4	121.5	123.75
428	M534	-12.4	-12.4	123.75	126
429	M534	-12.4	-12.4	126	128.25
430	M534	-12.4	-12.4	128.25	130.5
431	M534	-12.4	-12.4	130.5	132.75
432	M534	-12.4	-12.4	132.75	135
433	M534	-12.4	-12.4	135	137.25
434	M534	-12.4	-9.312	137.25	139.5
435	M534	-9.312	-3.137	139.5	141.75
436	M490	-13.894	-8.044	0	2.375
437	M490	-8.044	-5.119	2.375	4.75
438	M490	-5.119	-8.044	4.75	7.125
439	M490	-8.044	-13.894	7.125	9.5
440	M504A	-13.894	-8.044	0	2.375
441	M504A	-8.044	-5.119	2.375	4.75
442	M504A	-5.119	-8.044	4.75	7.125
443	M504A	-8.044	-13.894	7.125	9.5
444	M518	-13.894	-8.044	0	2.375
445	M518	-8.044	-5.119	2.375	4.75
446	M518	-5.119	-8.044	4.75	7.125
447	M518	-8.044	-13.894	7.125	9.5
448	M395	-6.947	-4.022	3.997e-15	2.375
449	M395	-4.022	-2.559	2.375	4.75
450	M395	-2.559	-4.022	4.75	7.125
451	M395	-4.022	-6.947	7.125	9.5
452	M411	-6.947	-4.022	3.017e-6	2.375
453	M411	-4.022	-2.559	2.375	4.75
454	M411	-2.559	-4.022	4.75	7.125
455	M411	-4.022	-6.947	7.125	9.5
456	M412	-3.137	-9.312	2.25	4.5
457	M412	-9.312	-12.4	4.5	6.75
458	M412	-12.4	-12.4	6.75	9
459	M412	-12.4	-12.4	9	11.25
460	M412	-12.4	-12.4	11.25	13.5
461	M412	-12.4	-12.4	13.5	15.75
462	M412	-12.4	-12.4	15.75	18
463	M412	-12.4	-12.4	18	20.25
464	M412	-12.4	-12.4	20.25	22.5
465	M412	-12.4	-12.4	22.5	24.75
466	M412	-12.4	-12.4	24.75	27
467	M412	-12.4	-12.4	27	29.25
468	M412	-12.4	-9.312	29.25	31.5
469	M412	-9.312	-3.137	31.5	33.75
470	M412	-3.137	-.05	33.75	36
471	M412	-.05	-3.137	36	38.25
472	M412	-3.137	-9.312	38.25	40.5
473	M412	-9.312	-12.4	40.5	42.75



Member Distributed Loads (BLC 50 : BLC 16 Transient Area Loads) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[in, %]	End Location[in, %]
474	M412	-12.4	-12.4	42.75	45
475	M412	-12.4	-12.4	45	47.25
476	M412	-12.4	-12.4	47.25	49.5
477	M412	-12.4	-12.4	49.5	51.75
478	M412	-12.4	-12.4	51.75	54
479	M412	-12.4	-12.4	54	56.25
480	M412	-12.4	-12.4	56.25	58.5
481	M412	-12.4	-12.4	58.5	60.75
482	M412	-12.4	-12.4	60.75	63
483	M412	-12.4	-12.4	63	65.25
484	M412	-12.4	-9.312	65.25	67.5
485	M412	-9.312	-3.137	67.5	69.75
486	M412	-3.137	-.05	69.75	72
487	M412	-.05	-3.137	72	74.25
488	M412	-3.137	-9.312	74.25	76.5
489	M412	-9.312	-12.4	76.5	78.75
490	M412	-12.4	-12.4	78.75	81
491	M412	-12.4	-12.4	81	83.25
492	M412	-12.4	-12.4	83.25	85.5
493	M412	-12.4	-12.4	85.5	87.75
494	M412	-12.4	-12.4	87.75	90
495	M412	-12.4	-12.4	90	92.25
496	M412	-12.4	-12.4	92.25	94.5
497	M412	-12.4	-12.4	94.5	96.75
498	M412	-12.4	-12.4	96.75	99
499	M412	-12.4	-12.4	99	101.25
500	M412	-12.4	-9.312	101.25	103.5
501	M412	-9.312	-3.137	103.5	105.75
502	M412	-3.137	-.05	105.75	108
503	M412	-.05	-3.137	108	110.25
504	M412	-3.137	-9.312	110.25	112.5
505	M412	-9.312	-12.4	112.5	114.75
506	M412	-12.4	-12.4	114.75	117
507	M412	-12.4	-12.4	117	119.25
508	M412	-12.4	-12.4	119.25	121.5
509	M412	-12.4	-12.4	121.5	123.75
510	M412	-12.4	-12.4	123.75	126
511	M412	-12.4	-12.4	126	128.25
512	M412	-12.4	-12.4	128.25	130.5
513	M412	-12.4	-12.4	130.5	132.75
514	M412	-12.4	-12.4	132.75	135
515	M412	-12.4	-12.4	135	137.25
516	M412	-12.4	-9.312	137.25	139.5
517	M412	-9.312	-3.137	139.5	141.75
518	M532B	-13.894	-8.044	0	2.375
519	M532B	-8.044	-5.119	2.375	4.75
520	M532B	-5.119	-8.044	4.75	7.125
521	M532B	-8.044	-13.894	7.125	9.5
522	M546	-13.894	-8.044	0	2.375
523	M546	-8.044	-5.119	2.375	4.75
524	M546	-5.119	-8.044	4.75	7.125
525	M546	-8.044	-13.894	7.125	9.5
526	M560A	-13.894	-8.044	0	2.375
527	M560A	-8.044	-5.119	2.375	4.75
528	M560A	-5.119	-8.044	4.75	7.125
529	M560A	-8.044	-13.894	7.125	9.5



Member Area Loads (BLC 1 : Self Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N17	N18	N33	N19	Y	Two Way	-1.75
2	N29	N30	N32	N31	Y	Two Way	-1.75
3	N17	N19	N31	N29	Y	Two Way	-1.75
4	N66	N64	N63	N65	Y	Two Way	-1.75
5	N53	N67	N52	N51	Y	Two Way	-1.75
6	N63	N51	N53	N65	Y	Two Way	-1.75
7	N104	N102	N103	N106	Y	Two Way	-1.75
8	N92	N107	N91	N90	Y	Two Way	-1.75
9	N90	N102	N104	N92	Y	Two Way	-1.75
10	N369	N370	N372	N371	Y	Two Way	-1.75
11	N391	N389	N390	N392	Y	Two Way	-1.75
12	N341	N342	N346	N345	Y	Two Way	-1.75

Member Area Loads (BLC 16 : Ice Weight)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	N17	N18	N33	N19	Y	Two Way	-15.6
2	N29	N30	N32	N31	Y	Two Way	-15.6
3	N17	N19	N31	N29	Y	Two Way	-15.6
4	N66	N64	N63	N65	Y	Two Way	-15.6
5	N53	N67	N52	N51	Y	Two Way	-15.6
6	N63	N51	N53	N65	Y	Two Way	-15.6
7	N104	N102	N103	N106	Y	Two Way	-15.6
8	N92	N107	N91	N90	Y	Two Way	-15.6
9	N90	N102	N104	N92	Y	Two Way	-15.6
10	N369	N370	N372	N371	Y	Two Way	-15.6
11	N391	N389	N390	N392	Y	Two Way	-15.6
12	N341	N342	N346	N345	Y	Two Way	-15.6

Bolt Calculation Tool, V1.5.1

PROJECT DATA	
Site Name:	New Britain Farmington Ave.
Site Number:	CTL01028
Connection Description:	Mount to Tower Connection

MAXIMUM BOLT LOADS		
Bolt Tension:	4021.21	lbs
Bolt Shear:	384.00	lbs

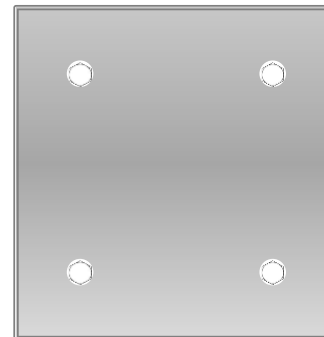
WORST CASE BOLT LOADS ¹		
Bolt Tension:	4021.21	lbs
Bolt Shear:	85.68	lbs

BOLT PROPERTIES		
Bolt Type:	Bolt	-
Bolt Diameter:	0.625	in
Bolt Grade:	A325	-
# of Bolts:	4	-
Threads Excluded?	No	-

¹ Worst case bolt loads correspond to Load combination #28 on member M256 in RISA-3D, which causes the maximum demand on the bolts.

Member Information
I nodes of M246, M256, M314A, M317, M324, M327A

BOLT CHECK		
Tensile Strength	20340.15	
Shear Strength	13805.83	
Max Tensile Usage	19.8%	
Max Shear Usage	2.8%	
Interaction Check (Worst Case)	0.04	≤1.05
Result	Pass	

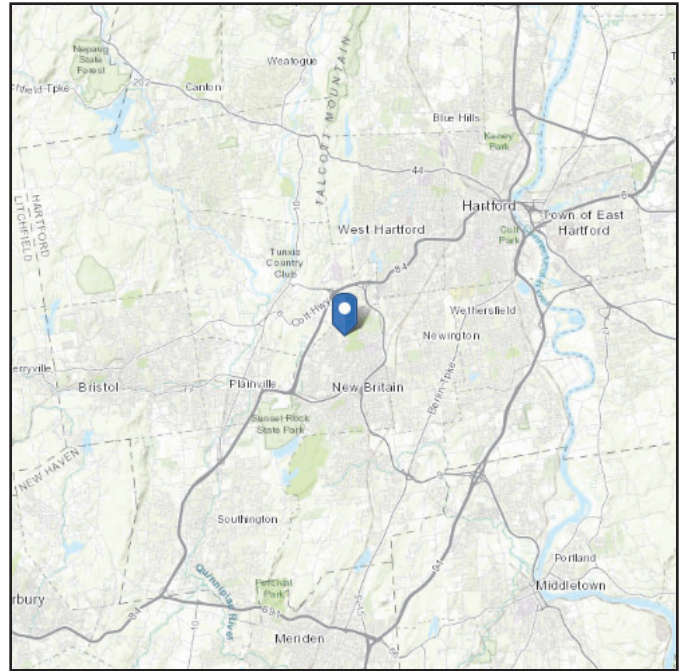
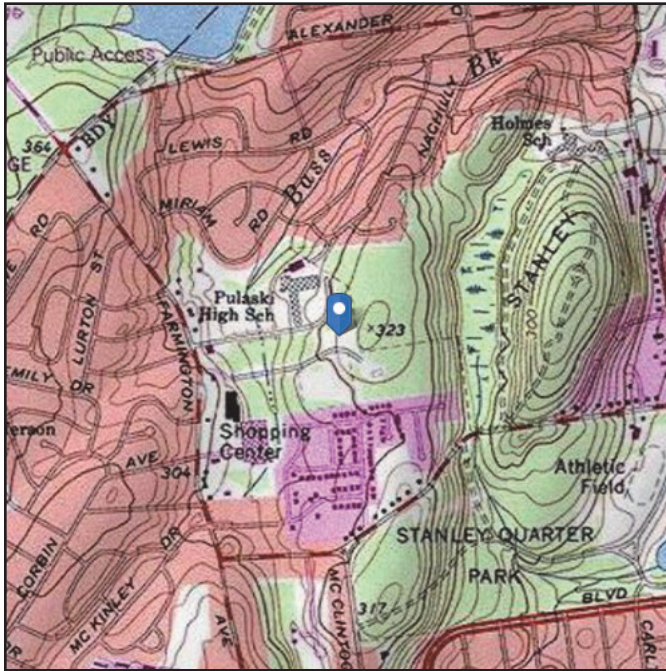


ASCE 7 Hazards Report

Address:
No Address at This Location

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

Elevation: 311.01 ft (NAVD 88)
Latitude: 41.698325
Longitude: -72.786193



Wind

Results:

Wind Speed:	117 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	97 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Tue Nov 02 2021

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

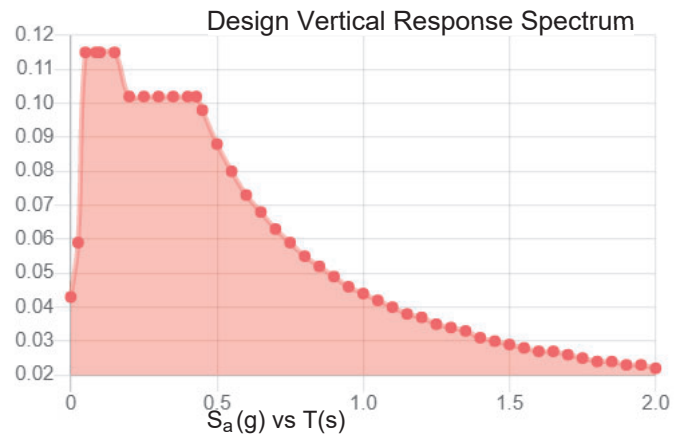
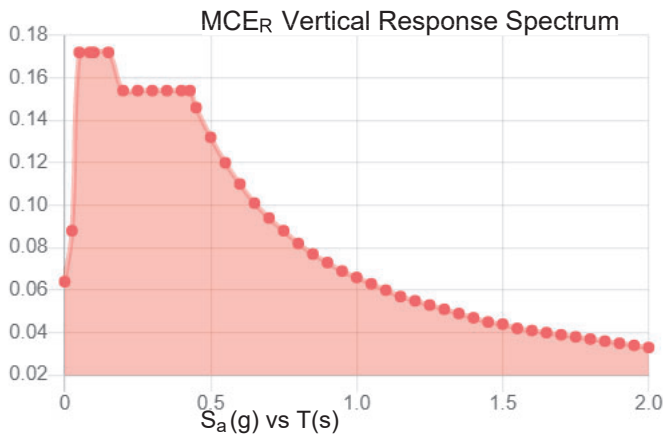
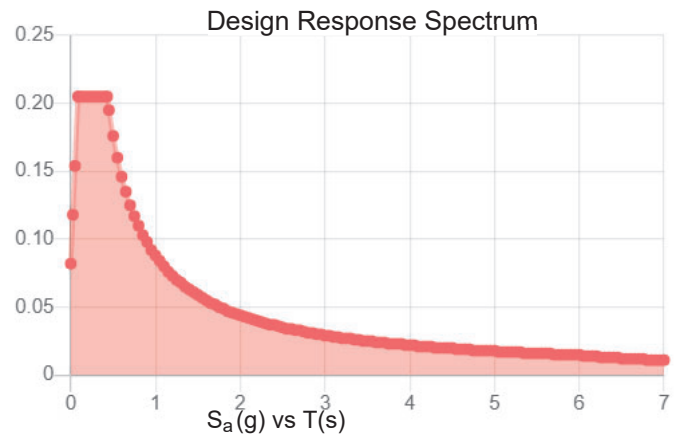
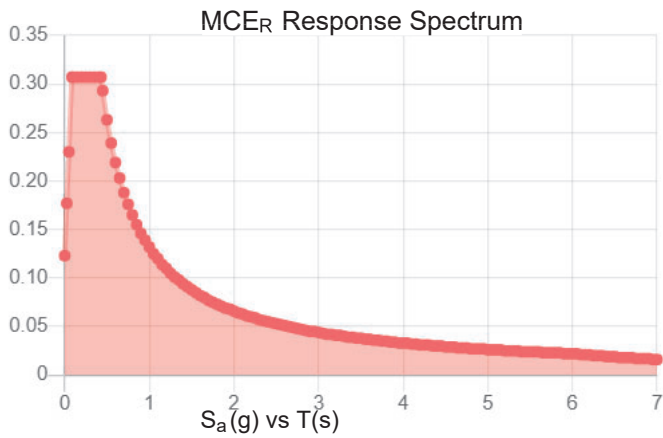
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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

Results:

S_s :	0.192	S_{D1} :	0.088
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.104
F_v :	2.4	PGA _M :	0.166
S_{MS} :	0.307	F_{PGA} :	1.591
S_{M1} :	0.132	I_e :	1
S_{DS} :	0.205	C_v :	0.7

Seismic Design Category B



Data Accessed:

Tue Nov 02 2021

Date Source:

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

Ice

Results:

Ice Thickness: 1.50 in.
Concurrent Temperature: 15 F
Gust Speed: 50 mph

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

Date Accessed: Tue Nov 02 2021

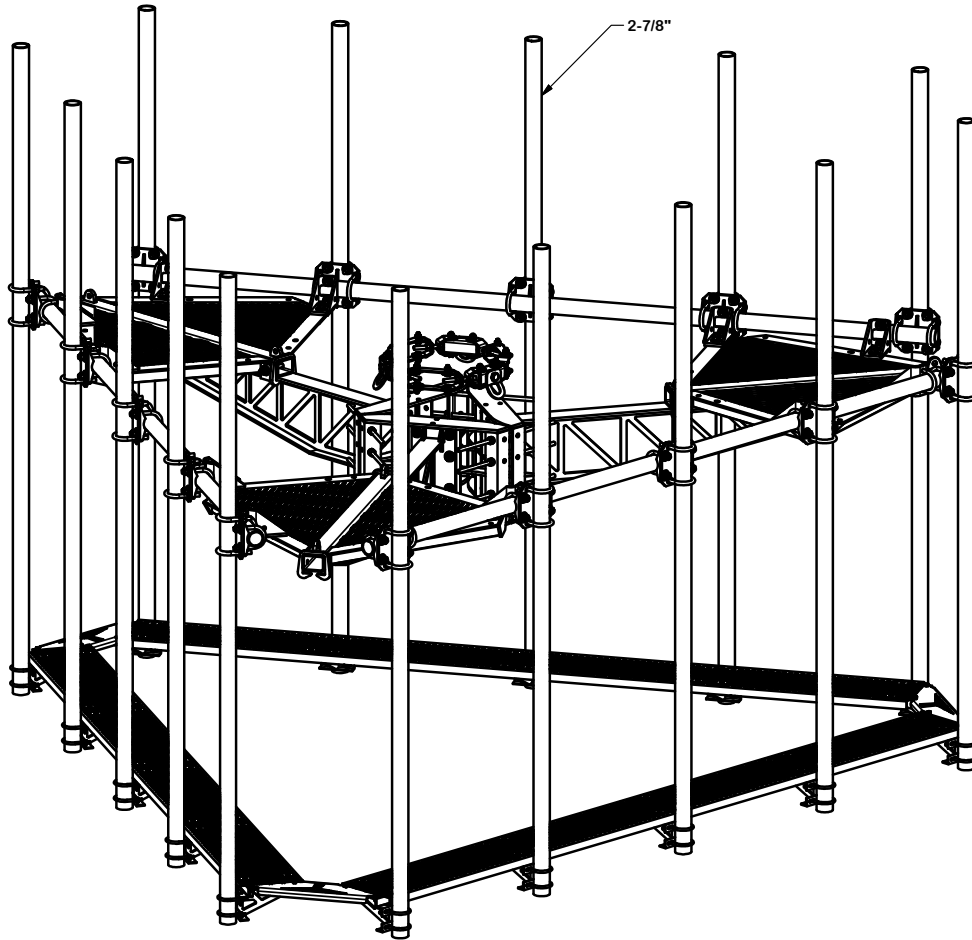
Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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

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PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LPP-SA12	SIDE ARM WELDMENT FOR 12' LOW PROFILE PLATFORMS		119.21	357.63
2	3	X-LPP-CW	LOW PROFILE PLATFORM CORNER WELDMENT		198.75	596.26
3	3	X-RM3HD	WELDMENT FOR 3-SIDED HEAVY DUTY RING MOUNT		84.42	253.25
4	3	X-WWSP3	WALKWAY CORNER SUPPORT PLATE FOR 3-SIDED PLATFORM	12 in	9.00	27.01
5	12	X-LPP-PC	FACE PIPE CONNECTION BRACKET FORTRESS PLATFORM		7.01	84.11
6	15	X-WWSB	WALKWAY SUPPORT BRACKET		6.73	100.94
7	15	X-SCX3-FR	FORTRESS CROSSOVER PLATE		6.61	99.21
8	12	X-LPP-A7	CORNER WELDMENT ATTACHMENT ANGLE	2 1/2 in	1.27	15.25
9	3	GRS12-12	12" WIDE GRIP STRUT	120 in	31.00	93.00
10	3	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	230.81
11	15	P30120	2-7/8" X 120" (2-1/2" SCH. 40) GALVANIZED PIPE	120 in	58.07	870.99
12	12	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	4.79
12	12	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	4.79
13	6	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	4.18
14	36	G58214	5/8" x 2-1/4" HDG HEX BOLT GR5		0.29	10.49
15	12	X-UB5304	5/8" X 3" X 4-1/4" X 2-1/2" U-BOLT (HDG.)		0.98	11.70
16	60	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	68.97
17	30	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	30.00
18	192	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	13.53
19	216	G58LW	5/8" HDG LOCKWASHER		0.03	5.64
20	216	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	28.06
21	30	X-UB3312	3/8" X 3-1/2" X 4-3/4" X 2" U-BOLT (HDG.)		0.73	21.95
22	60	G3802	3/8" x 2" HDG HEX BOLT GR5		0.09	5.26
23	48	SQW38	3/8" SQUARE WASHER	2 in	0.29	13.89
24	120	G38FW	3/8" HDG USS FLATWASHER		0.01	1.41
25	120	G38LW	3/8" HDG LOCKWASHER		0.01	0.80
26	120	G38NUT	3/8" HDG HEAVY 2H HEX NUT		0.03	4.06
27	1	HALO	HALO		40.35	40.35
					TOTAL WT. #	3023.66

TOLERANCE NOTES

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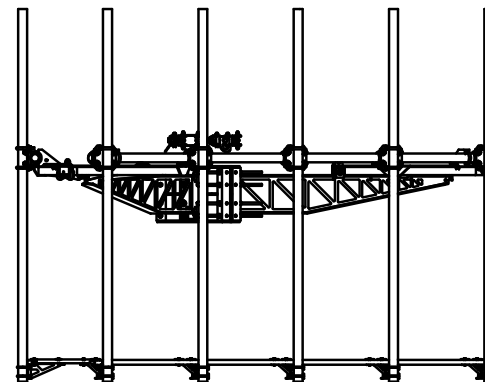
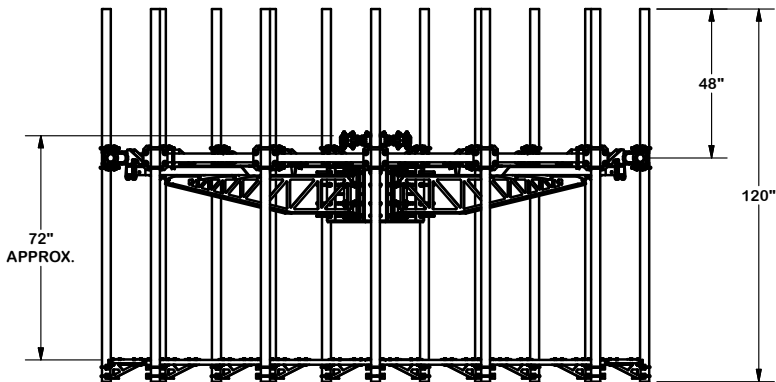
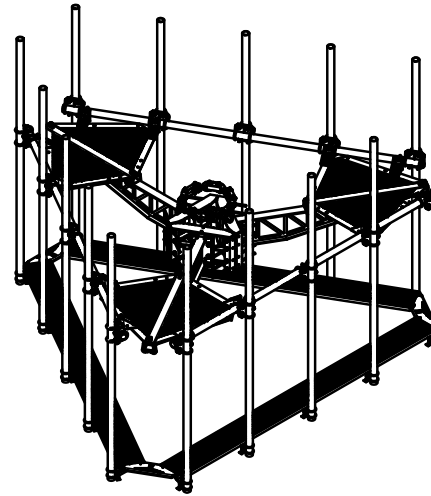
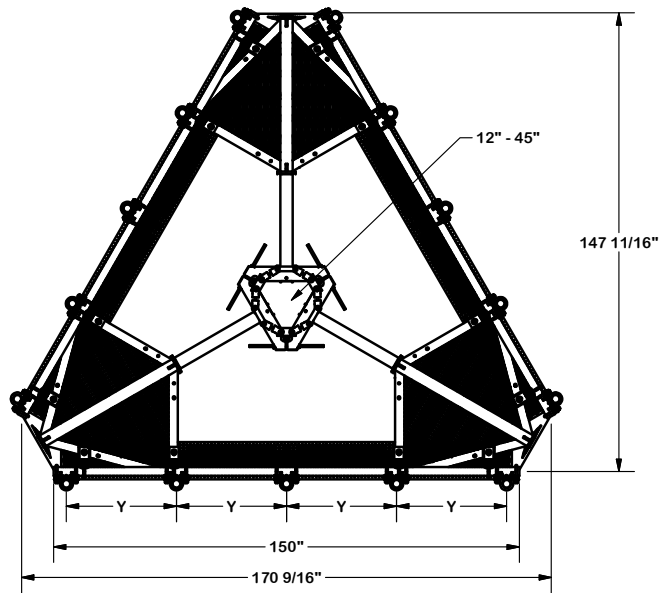
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	Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
	A valmont COMPANY	

CPD NO.	DRAWN BY	ENG. APPROVAL
	CEK 10/26/2017	
CLASS	SUB	DRAWING USAGE
81	02	CUSTOMER
	CHECKED BY	
	BMC 11/1/2017	

PART NO.	F3P-12-WLL	PAGE
DWG. NO.	F3P-12-WLL	1 OF 4



TOLERANCE NOTES

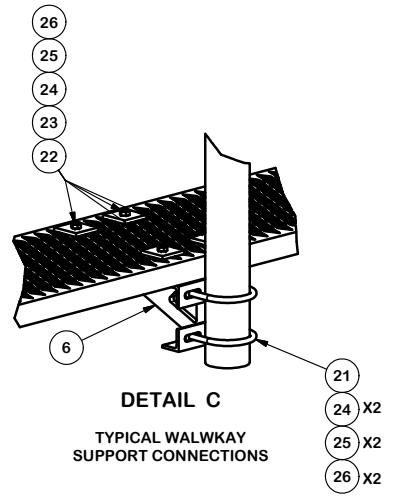
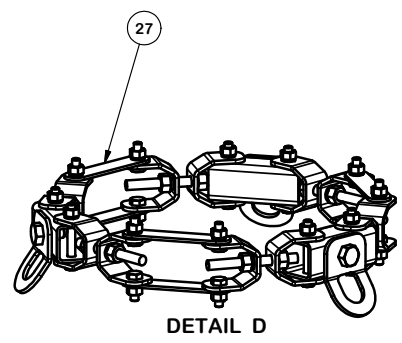
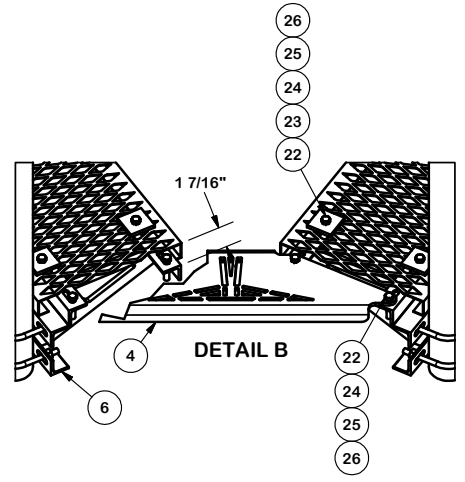
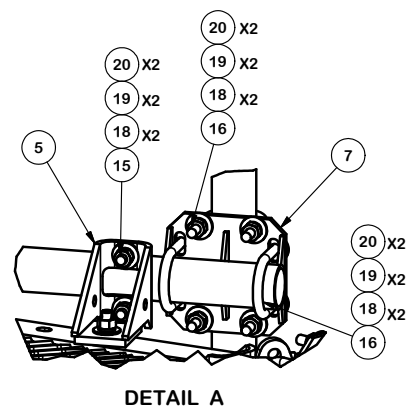
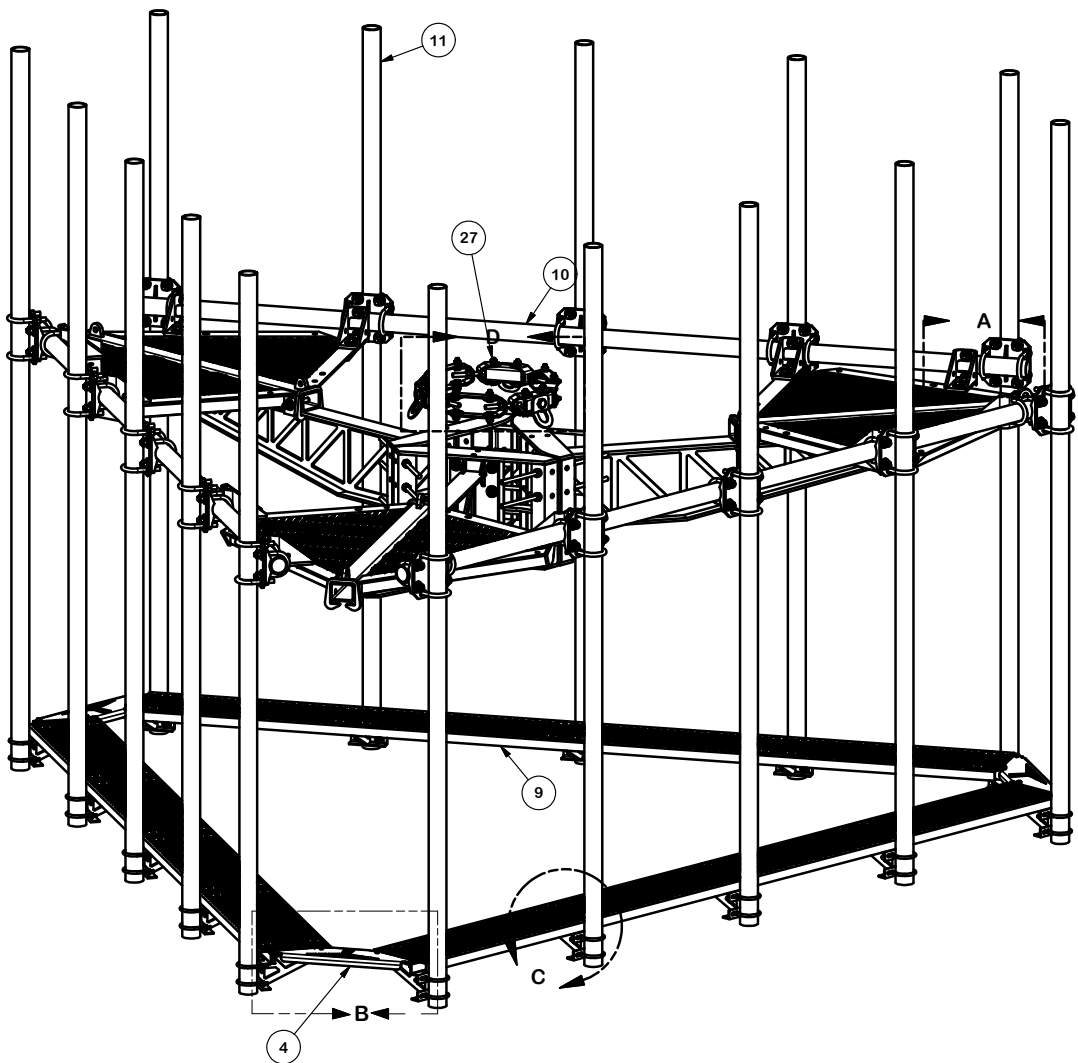
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CLASS	DRAWING USAGE	CHECKED BY
81	CUSTOMER	BMC

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	PART NO. F3P-12-WLL	
DWG. NO. F3P-12-WLL		PAGE 2 OF 4



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CLASS	DRAWING USAGE	CHECKED BY
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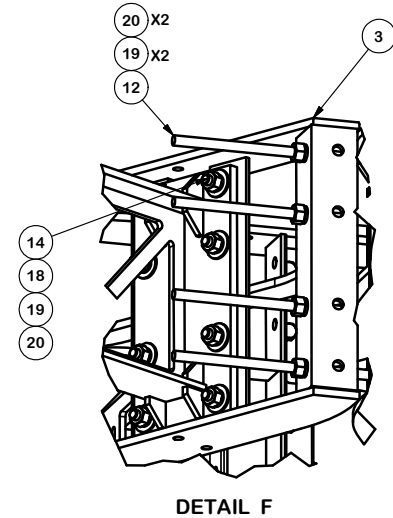
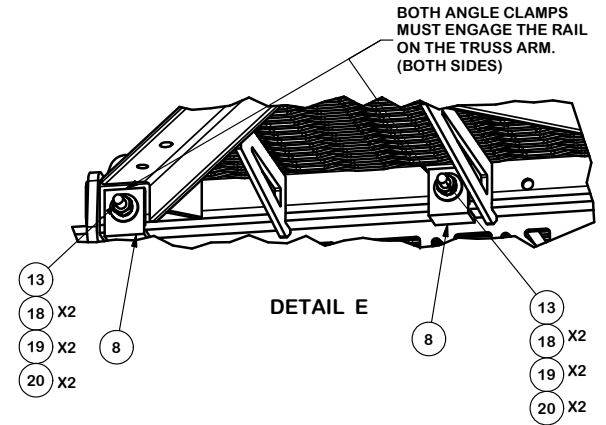
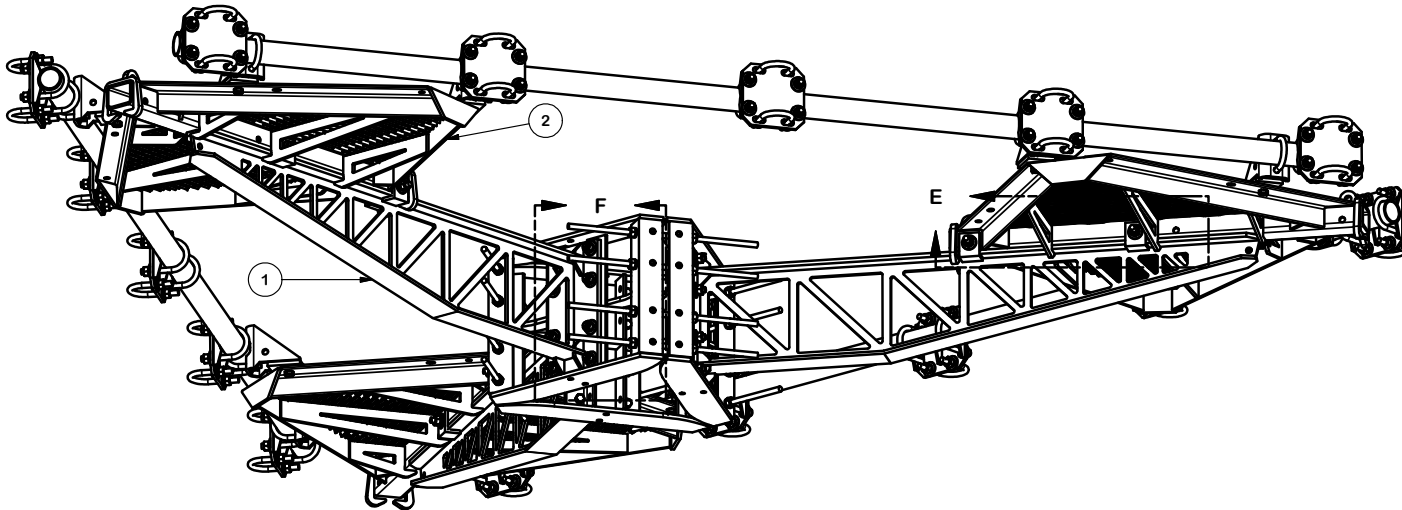
SITE PRO 1
 Engineering Support Team:
 1-888-753-7446

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

PART NO.	F3P-12-WLL	PAGE 3 OF 4
DWG. NO.	F3P-12-WLL	

NOTE:

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CLASS 81	SUB 02	DRAWING USAGE CUSTOMER
	CHECKED BY BMC 11/1/2017	



Engineering
Support Team:
1-888-753-7446

Locations:
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Plymouth, IN
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PART NO.	F3P-12-WLL
DWG. NO.	F3P-12-WLL

Track Another Package +

Tracking Number: 9500110019662158569017

[Remove X](#)

Your item has been delivered and is available at a PO Box at 7:49 am on June 11, 2022 in ESSEX, CT 06426.

USPS Tracking Plus® Available ∨

Feedback

Delivered, PO Box

June 11, 2022 at 7:49 am
ESSEX, CT 06426

Get Updates ∨

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Tracking History



USPS Tracking Plus®



FedEx Shipment 777060084513: Your package has been delivered

TrackingUpdates@fedex.com <TrackingUpdates@fedex.com>

Thu 6/9/2022 9:39 AM

To:

- Kristina Cottone <kristina.cottone@smartlinkllc.com>



FedEx



Hi. Your package was delivered Thu, 06/09/2022 at 9:35am.



Delivered to 27 W MAIN ST, NEW BRITAIN, CT 06051

Received by A.CARLIE

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER

[777060084513](#)

FROM

Smartlink LLC
85 Rangeway Road
Building 3 Suite 102
NORTH BILLERICA, MA, US, 01862

TO

City of New Britian
ATTN: Mayor Erin E. Stewart
27 West Main Street
NEW BRITAIN, CT, US, 06051

REFERENCE CTL01028 - New Britian

SHIPPER REFERENCE CTL01028 - New Britian

SHIP DATE Tue 6/07/2022 06:47 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

ORIGIN NORTH BILLERICA, MA, US, 01862

DESTINATION NEW BRITAIN, CT, US, 06051

SPECIAL HANDLING Deliver Weekday

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 1.00 LB

SERVICE TYPE FedEx 2Day



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- Kristina Cottone <kristina.cottone@smartlinkllc.com>



FedEx

 Hi. Your package was delivered Thu, 06/09/2022 at  9:35am.

Delivered to 27 W MAIN ST, NEW BRITAIN, CT 06051

Received by A.CARLIE

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER [777060045148](#)

FROM Smartlink LLC
85 Rangeway Road
Building 3 Suite 102
NORTH BILLERICA, MA, US, 01862

TO City of New Britian
ATTN: David Zajac Building Departme
27 West Main Street

Room 404
NEW BRITAIN, CT, US, 06051

REFERENCE CTL01028 - New Britian

SHIPPER REFERENCE CTL01028 - New Britian

SHIP DATE Tue 6/07/2022 06:47 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

ORIGIN NORTH BILLERICA, MA, US, 01862

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NUMBER OF PIECES 1

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Kristina Cottone

From: TrackingUpdates@fedex.com
Sent: Thursday, June 9, 2022 10:06 AM
To: Kristina Cottone
Subject: FedEx Shipment 777060145622: Your package has been delivered



Hi. Your package was delivered Thu, 06/09/2022 at 10:04am.



Delivered to 8051 CONGRESS AVE, BOCA RATON, FL 33487
Received by J.HAWKINS

OBTAIN PROOF OF DELIVERY

TRACKING NUMBER [777060145622](#)

FROM Smartlink LLC
85 Rangeway Road
Building 3 Suite 102
NORTH BILLERICA, MA, US, 01862

TO SBA Site Management
George O'Neil

8051 Congress Ave
BOCA RATON, FL, US, 33487

REFERENCE CTL01028 - New Britian

SHIPPER REFERENCE CTL01028 - New Britian

SHIP DATE Tue 6/07/2022 06:47 PM

DELIVERED TO Mailroom

PACKAGING TYPE FedEx Envelope

ORIGIN NORTH BILLERICA, MA, US, 01862

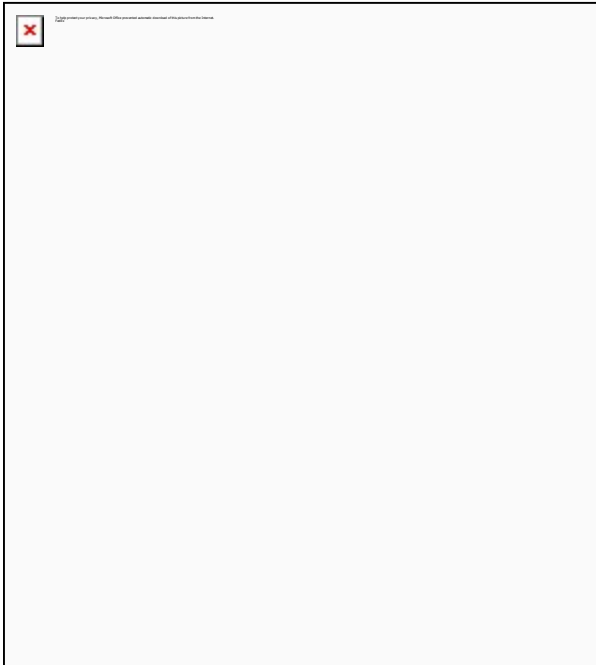
DESTINATION BOCA RATON, FL, US, 33487

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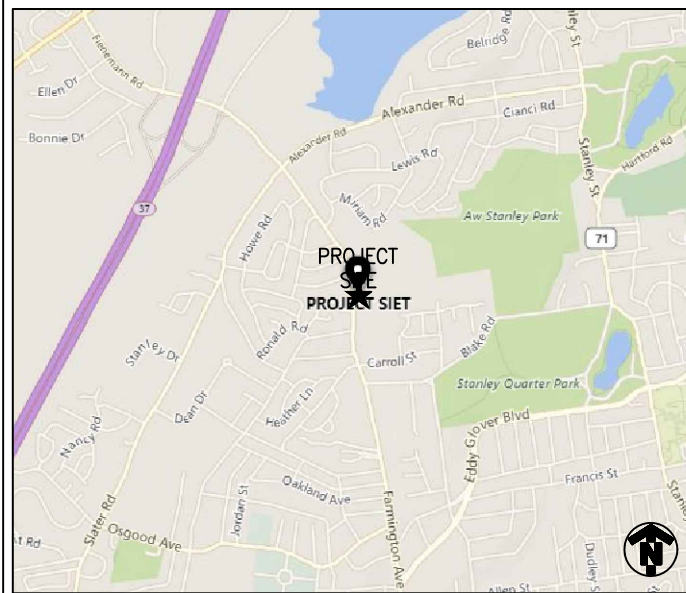
SHEET INDEX	
NO.	DESCRIPTION
T1	TITLE SHEET
C1	GENERAL NOTES
C2	OVERALL & ENLARGED SITE PLAN
C3	ELEVATION VIEW
C4	ANTENNA ORIENTATION PLAN
C5	EQUIPMENT DETAILS
C6	EQUIPMENT DETAILS
C6.1	EQUIPMENT DETAILS
C6.2	EQUIPMENT DETAILS
C6.3	EQUIPMENT DETAILS
C7	PLUMBING DIAGRAM
C8	GROUNDING DETAILS

DRIVING DIRECTIONS

FROM 550 COCHITUATE RD.:

GET ON I-90 WEST/MASSACHUSETTS TURNPIKE. HEAD SOUTHWEST. TURN LEFT TOWARD MCCALL CONN. TURN LEFT ONTO MCCALL CONN. CONTINUE ONTO BURR STREET. TURN LEFT ONTO COCHITUATE ROAD. USE THE RIGHT LANE TO TAKE THE RAMP TO I-90 EAST/MASSPIKE WEST/SPRINGFIELD/BOSTON. KEEP LEFT AT THE FORK. FOLLOW SIGNS FOR I-90 WEST/MASSACHUSETTS TURNPIKE/WORCESTER/SPRINGFIELD AND MERGE ONTO I-90 WEST/MASSACHUSETTS TURNPIKE. FOLLOW I-90 WEST/MASSACHUSETTS TURNPIKE AND I-84 TO FIENEMANN ROAD IN FARMINGTON. TAKE EXIT 37 FROM I-84. MERGE ONTO I-90 WEST/MASSACHUSETTS TURNPIKE. USE THE RIGHT 2 LANES TO TAKE EXIT 9 FOR I-84 TOWARD US-20/HARTFORD/NEW YORK CITY. CONTINUE I-84. KEEP RIGHT TO STAY ON I-84. TAKE EXIT TO STAY ON I-84. TAKE EXIT 37 FOR FIENEMANN ROAD. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR CENTRAL CONN STATE UNIVERSITY AND MERGE ONTO FIENEMANN ROAD. CONTINUE ON FIENEMANN ROAD TO YOUR DESTINATION IN NEW BRITAIN. MERGE ONTO FIENEMANN ROAD. CONTINUE ONTO FARMINGTON AVE. TURN LEFT.

LOCATION MAP



PROJECT
5G NR 1SR CBAND/LTE 6C
/5G NR 1SR CBAND/4TXRX ANTENNA RETROFIT

SITE NAME
NEW BRITAIN FARMINGTON AVE.

CELL SITE ID
CTL01028

FA SITE NUMBER
10065751

PACE ID
**MRCTB052219/MRCTB051101/
 MRCTB050901/MRCTB051420**

SITE ADDRESS
**723 FARMINGTON AVENUE
 NEW BRITAIN, CT 06503**

STRUCTURE TYPE
MONOPOLE

PROJECT TEAM



PROJECT MANAGER



1033 Watervliet Shaker Rd
 Albany, NY 12205
 Office # (518) 690-0790
 Fax # (518) 690-0793

ENGINEER

- SCOPE OF WORK (PER LTE RFDS, DATED: 3/25/2022, V3.00):**
- HANDICAP ACCESS REQUIREMENTS ARE NOT REQUIRED.
 - FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
 - FACILITY HAS NO PLUMBING OR REFRIGERANTS.
 - THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.
 - ALL NEW MATERIAL SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. EQUIPMENT, ANTENNAS/RRU AND CABLES FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
- TOWER SCOPE**
- REMOVE (9) PANEL ANTENNAS ((3) 7770 POWERWAVE ANTENNAS, (3) QS66512-2 QUINTEL ANTENNAS & (3) OPA-65R-LCUU-H6 ANTENNAS)
 - INSTALL (12) PANEL ANTENNAS ((3) TPA-65R-BU6DA-K ANTENNAS, (3) AIR6449 B77D ERICSSON ANTENNAS, (3) AIR6419 B77G ERICSSON ANTENNAS & (3) DMP65R-BU6DA CCI ANTENNAS)
 - REMOVE (3) RRUS-11 B12
 - DISCONNECT (3) RRUS 4478 B5 DECOM UMTS
 - INSTALL (3) RRUS 4478 B14 & (3) RRUS 4449 B5/B12
 - INSTALL (1) DC6 SQUID WITH (1) 18 PAIR FIBER AND (2) 4 AWG DC CABLES
 - REPLACE ANTENNA MOUNT W/ NEW MOUNT
 - ADD (6) Y CABLES
 - REMOVE ALL DIPLEXERS; REMOVE ALL TMAS
 - REMOVE (6) COAX CABLES (6) COAX CABLES TO REMAIN
 - INSTALL TOWER REINFORCEMENT PER STRUCTURAL DRAWINGS AND ANALYSIS
- GROUND SCOPE**
- ADD (1) 6648 FHG WITH XCEDE LINK
 - ADD (3) RECTIFIERS & (1) DC12 SURGE SUPPRESSOR

PROJECT SUMMARY

SITE NAME: NEW BRITAIN FARMINGTON AVE.

CELL SITE ID: CTL01028

FA SITE #: 10065751

SITE ADDRESS: 723 FARMINGTON AVENUE
NEW BRITAIN, CT 06503

COUNTY: HARTFORD

SITE COORDINATES:

LATITUDE: 41.6983250° N (NAD 83)

LONGITUDE: 72.7861931° W (NAD 83)

ELEVATION: ±315' (AMSL)

RAD CENTER: ±98' (AGL)

LANDLORD: SBA COMMUNICATIONS CORP.
8051 CONGRESS AVE.
BOCA RATON, FL 33487
SITE ID#: CT08558-S

APPLICANT: AT&T MOBILITY
550 COCHITUATE RD.
FRAMINGHAM, MA 01701

CLIENT REPRESENTATIVE: SMARTLINK, LLC
85 RANGEWAY RD. SUITE 102, SUITE 102
NORTH BILLERICA, MA 01862

CONTACT: KRISTINA COTTONE
(978) 551-8627

ENGINEER: INFINIGY
1033 WATERVLIET SHAKER ROAD
ALBANY, NY 12205

CONTACT: ALEXANDRE MATOUT
AMATOUT@INFINIGY.COM

BUILDING CODE: CT BUILDING CODE
UNIFORM BUILDING CODE
BUILDING OFFICIALS & CODE ADMINISTRATORS
UNIFORM MECHANICAL CODE
UNIFORM PLUMBING CODE
LOCAL BUILDING CODE
CITY/COUNTY ORDINANCES

ELECTRICAL CODE: NATIONAL ELECTRICAL CODE (LATEST EDITION)



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CONNECTICUT STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE



INFINIGY ENGINEERING, PLLC
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Project Number: 499-006

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NEW BRITAIN FARMINGTON AVE.
CTL01028
FA# 10065751
 723 FARMINGTON AVENUE
 NEW BRITAIN, CT 06503

Prepared For:



Drawing Scale:
AS NOTED

Date:
 12/8/21

Drawing Title:
TITLE PAGE

Drawing Number:
T1

GENERAL NOTES

PART 1 – GENERAL REQUIREMENTS

- 1.1 THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
 - A. GR-63-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION
 - B. GR-78-CORE GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
 - C. NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NFPA) INCLUDING NFPA 70 (NATIONAL ELECTRICAL CODE – "NEC").
 - D. AND NFPA 101 (LIFE SAFETY CODE).
 - E. AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTM).
 - F. INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS (IEEE).
- 1.2 DEFINITIONS:
 - A. WORK: THE SUM OF TASKS AND RESPONSIBILITIES IDENTIFIED IN THE CONTRACT DOCUMENTS.
 - B. COMPANY: AT&T CORPORATION
 - C. ENGINEER: SYNONYMOUS WITH ARCHITECT & ENGINEER AND "A&E". THE DESIGN PROFESSIONAL HAVING PROFESSIONAL RESPONSIBILITY FOR DESIGN OF THE PROJECT.
 - D. CONTRACTOR: CONSTRUCTION CONTRACTOR; CONSTRUCTION VENDOR; INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCOMPLISH THE WORK.
 - E. THIRD PARTY VENDOR OR AGENCY: A VENDOR OR AGENCY ENGAGED SEPARATELY BY THE COMPANY, A&E, OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPLISH SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.
- 1.3 POINT OF CONTACT: COMMUNICATION BETWEEN THE COMPANY AND THE CONTRACTOR SHALL FLOW THROUGH THE SINGLE COMPANY SITE DEVELOPMENT SPECIALIST OR OTHER PROJECT COORDINATOR APPOINTED TO MANAGE THE PROJECT FOR THE COMPANY.
- 1.4 ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.
- 1.5 DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE: THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES, AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.
 - A. THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE CLEARLY MARKED DAILY IN PENCIL WITH ANY CHANGES IN CONSTRUCTION OVER WHAT IS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THIS JOBSITE MARKUP SET SHALL BE DELIVERED TO THE COMPANY OR COMPANY'S DESIGNATED REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S A&E VENDOR FOR PRODUCTION OF "AS-BUILT" DRAWINGS.
- 1.6 USE OF JOB SITE: THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION AND RELATED OPERATIONS INCLUDING STAGING AND STORAGE OF MATERIALS AND EQUIPMENT, PARKING, TEMPORARY FACILITIES, AND WASTE STORAGE TO THE LEASE PARCEL UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS.
- 1.7 NOTICE TO PROCEED:
 - A. NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED.
 - B. UPON RECEIVING NOTICE TO PROCEED, CONTRACTOR SHALL FULLY PERFORM ALL WORK NECESSARY TO PROVIDE AT&T WITH AN OPERATIONAL WIRELESS FACILITY.

PART 2 – EXECUTION

- 2.1 TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY EXCEPT AS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS. TEMPORARY UTILITIES AND FACILITIES INCLUDE, POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, WASTE DISPOSAL FACILITIES, AND TELEPHONE/COMMUNICATION SERVICES. PROVIDE TEMPORARY UTILITIES AND FACILITIES IN ACCORDANCE WITH OSHA AND THE AUTHORITY HAVING JURISDICTION. CONTRACTOR MAY UTILIZE THE COMPANY ELECTRICAL SERVICE IN THE COMPLETION OF THE WORK WHEN IT BECOMES AVAILABLE. USE OF THE LESSORS OR SITE OWNER'S UTILITIES OR FACILITIES IS EXPRESSLY FORBIDDEN EXCEPT AS OTHERWISE ALLOWED IN THE CONTRACT DOCUMENTS.
- 2.2 ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO THE JOB SITE FOR AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.
- 2.3 TESTING: REQUIREMENTS FOR TESTING BY THIS CONTRACTOR SHALL BE AS INDICATED HERewith, ON THE CONSTRUCTION DRAWINGS, AND IN THE INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS. SHOULD COMPANY CHOOSE TO ENGAGE ANY THIRD-PARTY TO CONDUCT ADDITIONAL TESTING, THE CONTRACTOR SHALL COOPERATE WITH AND PROVIDE A WORK AREA FOR COMPANY'S TEST AGENCY.

- 2.4 COMPANY FURNISHED MATERIAL AND EQUIPMENT: ALL HANDLING, STORAGE AND INSTALLATION OF COMPANY FURNISHED MATERIAL AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
 - A. CONTRACTOR SHALL PROCURE ALL OTHER REQUIRED WORK RELATED MATERIALS NOT PROVIDED BY AT&T TO SUCCESSFULLY CONSTRUCT A WIRELESS FACILITY.
- 2.5 DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH FIELD DIMENSIONS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT SCALE DRAWINGS.
- 2.6 EXISTING CONDITIONS: NOTIFY THE COMPANY REPRESENTATIVE OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS. DO NOT REMOVE OR ALTER STRUCTURAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.

PART 3 – RECEIPT OF MATERIAL & EQUIPMENT

- 3.1 RECEIPT OF MATERIAL AND EQUIPMENT: CONTRACTOR IS RESPONSIBLE FOR AT&T PROVIDED MATERIAL AND EQUIPMENT AND UPON RECEIPT SHALL:
 - A. ACCEPT DELIVERIES AS SHIPPED AND TAKE RECEIPT.
 - B. VERIFY COMPLETENESS AND CONDITION OF ALL DELIVERIES.
 - C. TAKE RESPONSIBILITY FOR EQUIPMENT AND PROVIDE INSURANCE PROTECTION AS REQUIRED IN AGREEMENT.
 - D. RECORD ANY DEFECTS OR DAMAGES AND WITHIN TWENTY-FOUR HOURS AFTER RECEIPT, REPORT TO AT&T OR ITS DESIGNATED PROJECT REPRESENTATIVE OF SUCH.
 - E. PROVIDE SECURE AND NECESSARY WEATHER PROTECTED WAREHOUSING.
 - F. COORDINATE SAFE AND SECURE TRANSPORTATION OF MATERIAL AND EQUIPMENT, DELIVERING AND OFF-LOADING FROM CONTRACTOR'S WAREHOUSE TO SITE.

PART 4 – GENERAL REQUIREMENTS FOR CONSTRUCTION

- 4.1 CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.
- 4.2 EQUIPMENT ROOMS SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.
- 4.3 CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.
 - A. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN ABATED OR OTHERWISE MITIGATED, CONTRACTOR AND ALL OTHER PERSONS SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.
 - B. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.
- 4.4 CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREAS OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION.
- 4.5 CONDUCT TESTING AS REQUIRED HEREIN.

PART 5 – TESTS AND INSPECTIONS

- 5.1 TESTS AND INSPECTIONS:
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
 - B. CONTRACTOR SHALL COORDINATE TEST AND INSPECTION SCHEDULES WITH COMPANY'S REPRESENTATIVE WHO MUST BE ON SITE TO WITNESS SUCH TESTS AND INSPECTIONS.
 - C. WHEN THE USE OF A THIRD PARTY INDEPENDENT TESTING AGENCY IS REQUIRED, THE AGENCY THAT IS SELECTED MUST PERFORM SUCH WORK ON A REGULAR BASIS IN THE STATE WHERE THE PROJECT IS LOCATED AND HAVE A THOROUGH UNDERSTANDING OF LOCAL AVAILABLE MATERIALS, INCLUDING THE SOIL, ROCK, AND GROUNDWATER CONDITIONS.
 - D. THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE REQUIREMENTS FOR THE TESTS TO BE DONE, EQUIPMENT TO BE USED, AND ASSOCIATED HEALTH AND SAFETY ISSUES.
 - E. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.

- F. ANTENNA AND COAX SWEEP TESTS PER EXHIBIT: ANTENNA TRANSMISSION LINE ACCEPTANCE STANDARDS.
- G. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

PART 6 – TRENCHING AND BACKFILLING

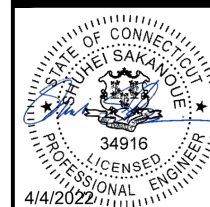
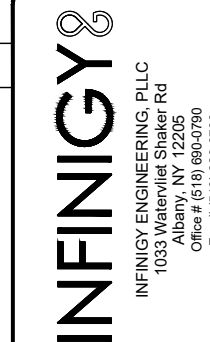
- 6.1 TRENCHING AND BACKFILLING: THE CONTRACTOR SHALL PERFORM ALL EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED, TO THE DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS OTHERWISE SPECIFIED.
 - A. PROTECTION OF EXISTING UTILITIES: THE CONTRACTOR SHALL CHECK WITH THE LOCAL UTILITIES AND THE RESPECTIVE UTILITY LOCATOR COMPANIES PRIOR TO STARTING EXCAVATION OPERATIONS IN EACH RESPECTIVE AREA TO ASCERTAIN THE LOCATIONS OF KNOWN UTILITY LINES. THE LOCATIONS, NUMBER AND TYPES OF EXISTING UTILITY LINES DETAILED ON THE CONSTRUCTION DRAWINGS ARE APPROXIMATE AND DO NOT REPRESENT EXACT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LINES DAMAGED DURING EXCAVATION AND ALL ASSOCIATED OPERATIONS. ALL UTILITY LINES UNCOVERED DURING THE EXCAVATION OPERATIONS, SHALL BE PROTECTED FROM DAMAGE DURING EXCAVATION AND ASSOCIATED OPERATIONS. ALL REPAIRS SHALL BE APPROVED BY THE UTILITY COMPANY.
 - B. HAND DIGGING: UNLESS APPROVED IN WRITING OTHERWISE, ALL DIGGING WITHIN AN EXISTING CELL SITE COMPOUND IS TO BE DONE BY HAND.
 - C. DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE STOCKPILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF THE TRENCH TO AVOID OVERLOADING AND TO PREVENT SLIDES OR CAVE-INS. ALL EXCAVATED MATERIALS NOT REQUIRED OR SUITABLE FOR BACKFILL SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 - D. GRADING SHALL BE DONE AS MAY BE NECESSARY TO PREVENT SURFACE WATER FROM FLOWING INTO TRENCHES OR OTHER EXCAVATIONS, AND ANY WATER ACCUMULATING THEREIN SHALL BE REMOVED BY PUMPING OR BY OTHER APPROVED METHOD.
 - E. SHEETING AND SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. UNLESS OTHERWISE INDICATED, EXCAVATION SHALL BE BY OPEN CUT, EXCEPT THAT SHORT SECTIONS OF A TRENCH MAY BE TUNNELED IF, THE CONDUIT CAN BE SAFELY AND PROPERLY INSTALLED AND BACKFILL CAN BE PROPERLY TAMPED IN SUCH TUNNEL SECTIONS. EARTH EXCAVATION SHALL COMPRISE ALL MATERIALS AND SHALL INCLUDE CLAY, SILT, SAND, MUCK, GRAVEL, HARDPAN, LOOSE SHALE, AND LOOSE STONE.
 - F. TRENCHES SHALL BE OF NECESSARY WIDTH FOR THE PROPER LAYING OF THE CONDUIT OR CABLE, AND THE BANKS SHALL BE AS NEARLY VERTICAL AS PRACTICABLE. THE BOTTOM OF THE TRENCHES SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF THE CONDUIT OR CABLE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH. EXCEPT WHERE ROCK IS ENCOUNTERED, CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED. WHERE ROCK EXCAVATIONS ARE NECESSARY, THE ROCK SHALL BE EXCAVATED TO A MINIMUM OVER DEPTH OF 6 INCHES BELOW THE TRENCH DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR SPECIFIED. OVER DEPTHS IN THE ROCK EXCAVATION AND UNAUTHORIZED OVER DEPTHS SHALL BE THOROUGHLY BACK FILLED AND TAMPED TO THE APPROPRIATE GRADE. WHENEVER WET OR OTHERWISE UNSTABLE SOIL THAT IS INCAPABLE OF PROPERLY SUPPORTING THE CONDUIT OR CABLE IS ENCOUNTERED IN THE BOTTOM OF THE TRENCH, SUCH SOLID SHALL BE REMOVED TO A MINIMUM OVER DEPTH OF 6 INCHES AND THE TRENCH BACKFILLED TO THE PROPER GRADE WITH EARTH OF OTHER SUITABLE MATERIAL, AS HEREINAFTER SPECIFIED.
 - G. BACKFILLING OF TRENCHES. TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL SPECIFIED TESTS HAVE BEEN PERFORMED AND ACCEPTED. WHERE COMPACTED BACKFILL IS NOT INDICATED THE TRENCHES SHALL BE CAREFULLY BACKFILLED WITH SELECT MATERIAL SUCH AS EXCAVATED SOILS THAT ARE FREE OF ROOTS, SOD, RUBBISH OR STONES, DEPOSITED IN 6 INCH LAYERS AND THOROUGHLY AND CAREFULLY RAMMED UNTIL THE CONDUIT OR CABLE HAS A COVER OF NOT LESS THAN 1 FOOT. THE REMAINDER OF THE BACKFILL MATERIAL SHALL BE GRANULAR IN NATURE AND SHALL NOT CONTAIN ROOTS, SOD, RUBBING, OR STONES OF 2-1/2 INCH MAXIMUM DIMENSION. BACKFILL SHALL BE CAREFULLY PLACED IN THE TRENCH AND IN 1 FOOT LAYERS AND EACH LAYER TAMPED. SETTLING THE BACKFILL WITH WATER WILL BE PERMITTED. THE SURFACE SHALL BE GRADED TO A REASONABLE UNIFORMITY AND THE MOUNDING OVER THE TRENCHES LEFT IN A UNIFORM AND NEAT CONDITION.

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	SURFACE MOUNTED PANEL BOARD
	TRANSFORMER
	KILOWATT HOUR METER
	JUNCTION BOX
	PULL BOX TO NEC/TELCO STANDARDS
	UNDERGROUND UTILITIES
	EXOTHERMIC WELD CONNECTION
	MECHANICAL CONNECTION
	GROUND ROD
	GROUND ROD WITH INSPECTION SLEEVE
	GROUND BAR
	120AC DUPLEX RECEPTACLE
	GROUND CONDUCTOR
	DC POWER AND FIBER OPTIC TRUNK CABLES
	DC POWER CABLES

REPRESENTS DETAIL NUMBER
 REF. DRAWING NUMBER

ABBREVIATIONS

CIGBE	COAX ISOLATED GROUND BAR EXTERNAL
MIGB	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP.	TYPICAL
DWG	DRAWING
BCW	BARE COPPER WIRE
BFG	BELOW FINISH GRADE
PVC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
G	GROUND
AWG	AMERICAN WIRE GAUGE
RGS	RIGID GALVANIZED STEEL
AHJ	AUTHORITY HAVING JURISDICTION
TTLNA	TOWER TOP LOW NOISE AMPLIFIER
UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING
AGL	ABOVE GROUND LEVEL



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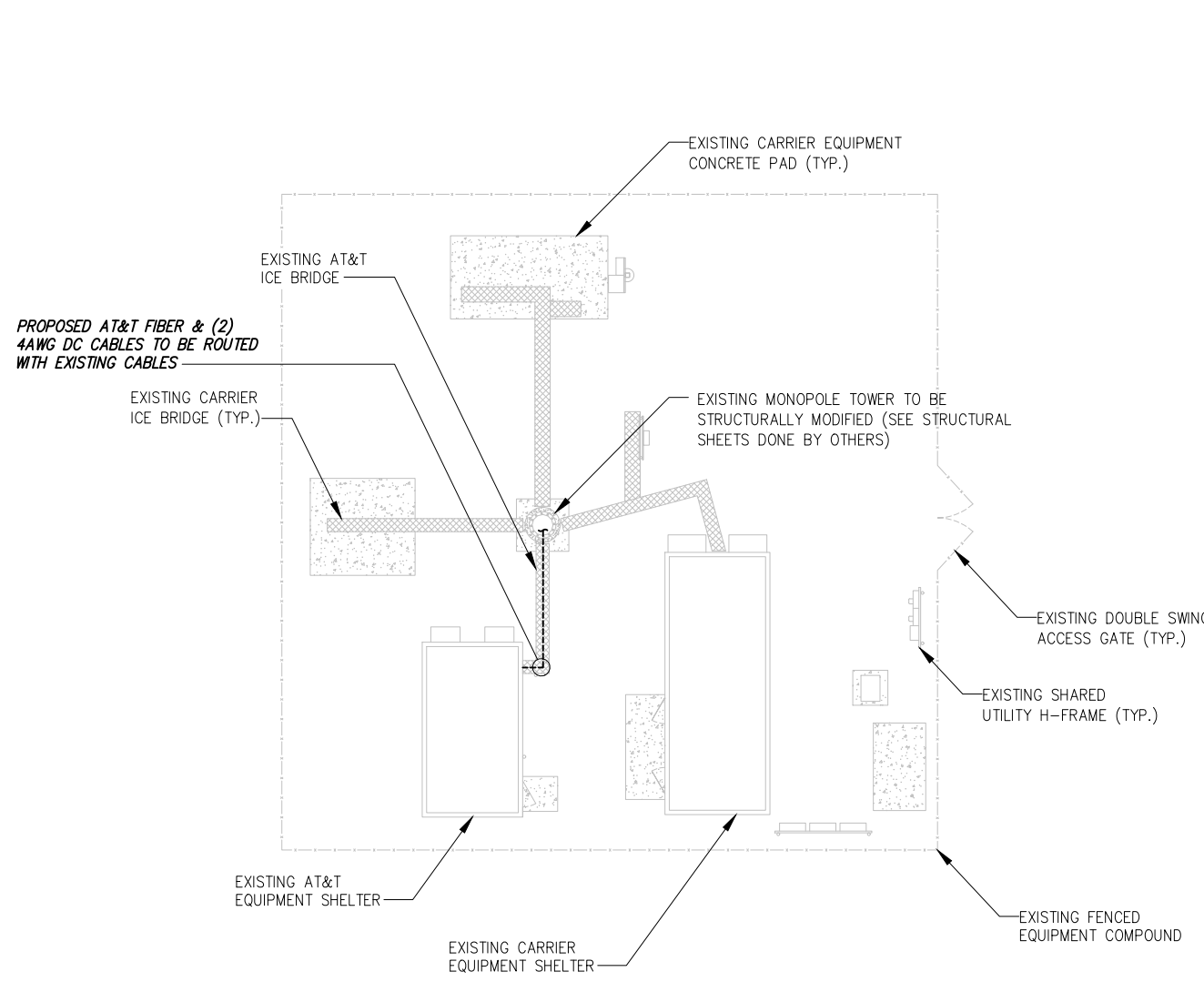
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NEW BRITAIN FARMINGTON AVE.
CTL01028
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723 FARMINGTON AVENUE
NEW BRITAIN, CT 06503



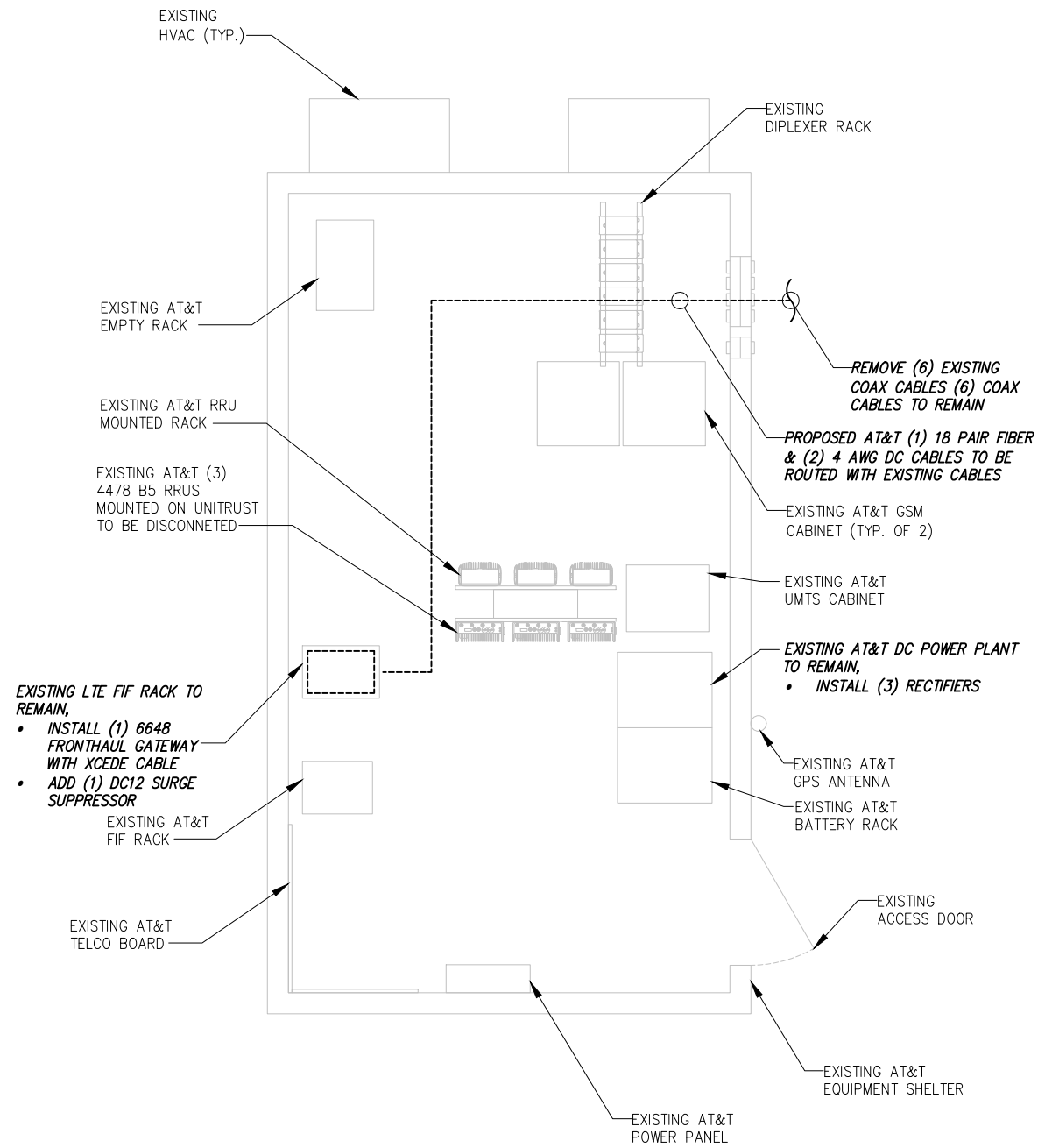
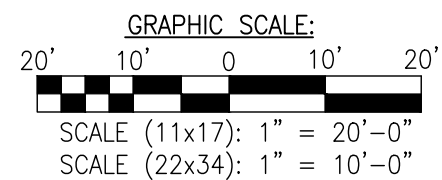
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Drawing Title:
OVERALL & ENLARGED SITE PLAN

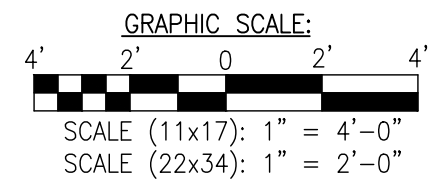
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C2



1 OVERALL COMPOUND PLAN
SCALE: AS NOTED



2 ENLARGED EQUIPMENT PLAN
SCALE: AS NOTED



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NOTE:

- INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER LOADING FOR THIS SITE, AND ASSUMES NO RESPONSIBILITY FOR ITS EXISTING OR PROPOSED LOADING. FINAL INSTALLATION TO COMPLY STRUCTURAL ANALYSIS.
- FOR STRUCTURAL INFORMATION PERTAINING TO THE ANTENNA MOUNT, SEE 'MOUNT ANALYSIS REPORT' COMPLETED BY INFINIGY, DATED 03/22/22.

INFINIGY
 INFINIGY ENGINEERING, PLLC
 1033 Watervliet Shaker Rd
 Albany, NY 12205
 Office # (518) 690-0790
 Fax # (518) 690-0793



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4	ISSUED FOR CONSTRUCTION	AM	04/04/22
3	ISSUED FOR CONSTRUCTION	AM	03/15/22
2	ISSUED FOR CONSTRUCTION	AM	02/15/22
1	ISSUED FOR CONSTRUCTION	JLM	12/8/21
0	ISSUED FOR REVIEW	PG	10/22/21
No.	Submital / Revision	App'd	Date
Drawn:	PG	Date:	10/22/21
Designed:	JLM	Date:	10/22/21
Checked:	ASW	Date:	10/22/21
Project Number: 499-006			

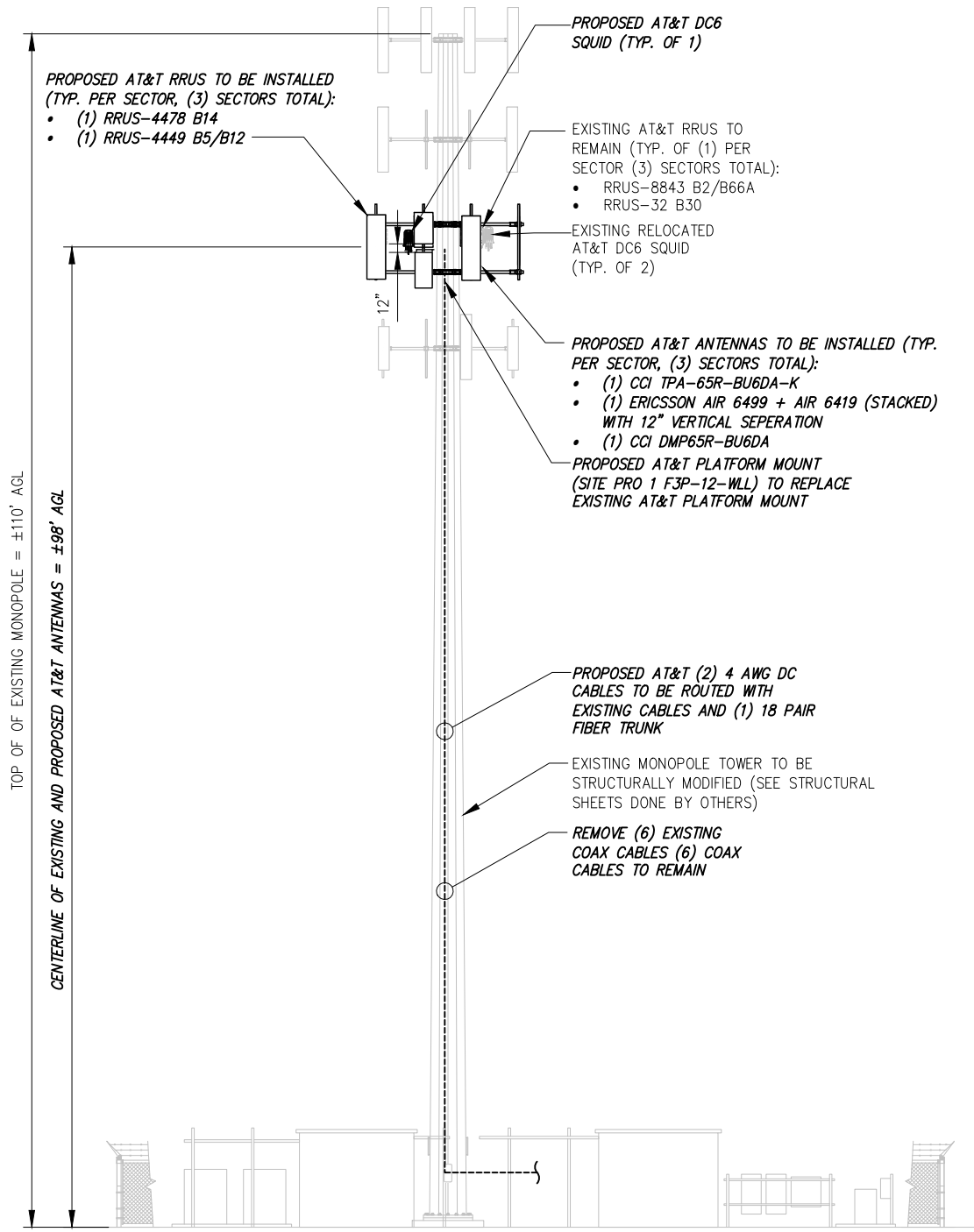
Project Title:
NEW BRITAIN FARMINGTON AVE.
 CTL01028
 FA# 10065751
 723 FARMINGTON AVENUE
 NEW BRITAIN, CT 06503



Drawing Scale: AS NOTED
 Date: 12/8/21
CD

Drawing Title:
ELEVATION VIEW

Drawing Number:
C3



1 ELEVATION VIEW
 NOT TO SCALE

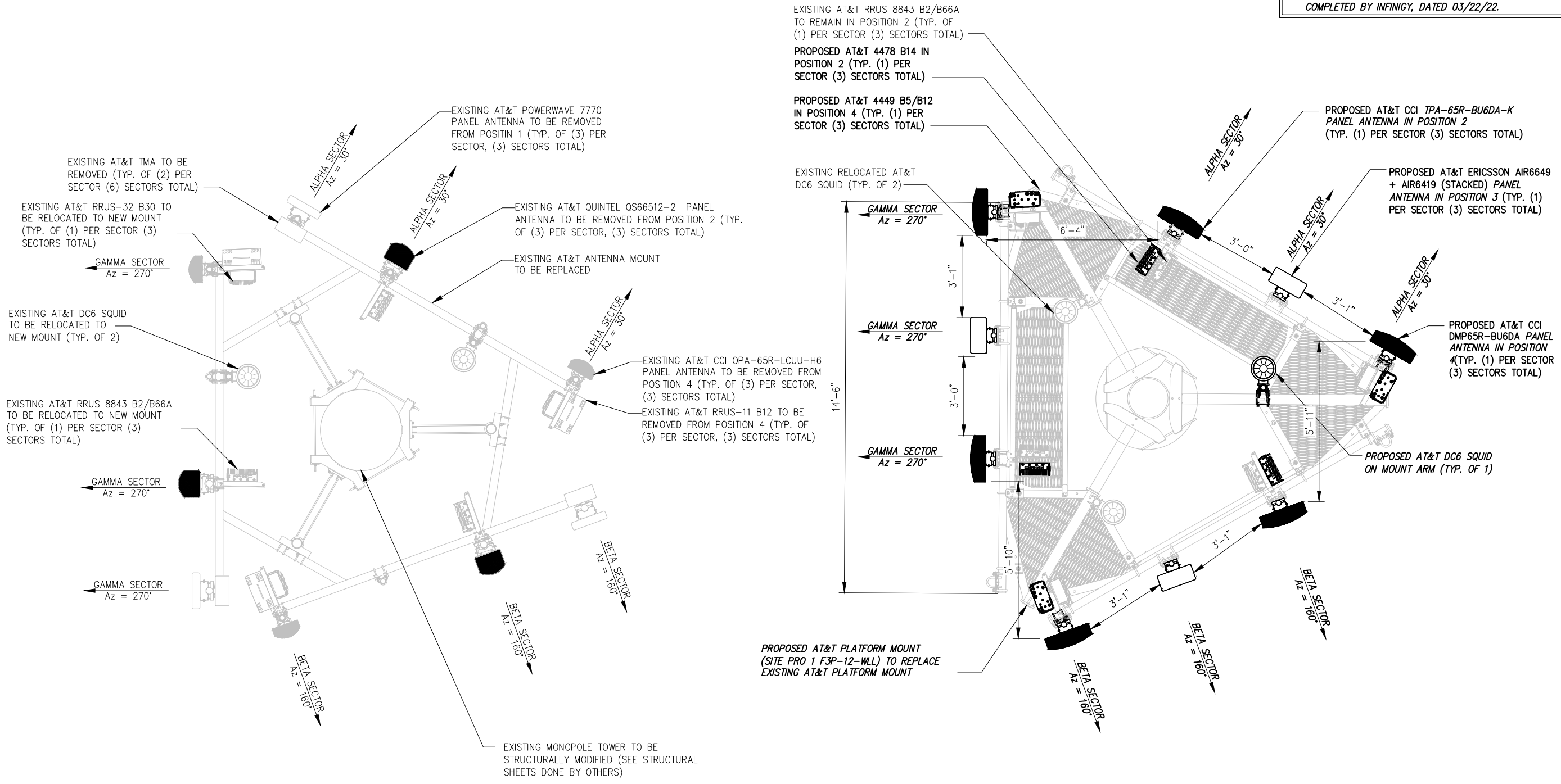
FINAL ANTENNA CONFIGURATION & CABLE SCHEDULE BASED ON LTE RFDS DATED 03/25/22, V 3.00

SECTOR	ANTENNA POSITION	ANTENNA STATUS & TECHNOLOGY	ANTENNA MANF/MODEL	TMA/ DIPLEXER	RRUS	AZIMUTH	ANTENNA HEIGHT	CABLE FEEDER		RAYCAP UNIT
								TYPE	LENGTH	
ALPHA	A-1	--	--	--	--	--	--	--	--	(2) (E) DC6 'SQUID' (1) (P) DC6 'SQUID'
	A-2	(P) LTE 700 B14 /PCS/AWS	CCI TPA-65R-BU6DA-K	--	(1) (E) B2/B66A 8843 (1) (P) 4478 B14	30°	±98'	(2) (E) FIBER CABLE (SHARED) (4) (E) 8AWG DC CABLES (SHARED) (1) (P) Y CABLE	±165'	
	A-3	(P) DOD + C BAND	ERRICSSON AIR6649 N77D AIR6419 N77G	--	--	30°	±98'	--	--	
	A-4	(P) LTE 700 BC /850/WCS	CCI DMP65R-BU6DA	--	(1) (E) RRUS-32 B30 (1) (P) 4449 B5/B12	30°	±98'	(2) (E) 1-5/8" COAX CABLES (2) (P) 4 AWG DC CABLES (SHARED) (1) (P) Y CABLE (1) (P) 18 PAIR FIBER TRUNK	±165'	
BETA	B-1	--	--	--	--	--	--	--	--	(2) (E) DC6 'SQUID' (1) (P) DC6 'SQUID'
	B-2	(P) LTE 700 B14 /PCS/AWS	CCI TPA-65R-BU6DA-K	--	(1) (E) B2/B66A 8843 (1) (P) 4478 B14	160°	±98'	(2) (E) 1-5/8" COAX CABLES (1) (P) Y CABLE	±165'	
	B-3	(P) DOD + C BAND	ERRICSSON AIR6649 N77D AIR6419 N77G	--	--	160°	±98'	--	--	
	B-4	(P) LTE 700 BC /850/WCS	CCI DMP65R-BU6DA	--	(1) (E) RRUS-32 B30 (1) (P) 4449 B5/B12	160°	±98'	(1) (P) Y CABLE	±165'	
GAMMA	G-1	--	--	--	--	--	--	--	--	(2) (E) DC6 'SQUID' (1) (P) DC6 'SQUID'
	G-2	(P) LTE 700 B14 /PCS/AWS	CCI TPA-65R-BU6DA-K	--	(1) (E) B2/B66A 8843 (1) (P) 4478 B14	270°	±98'	(2) (E) 1-5/8" COAX CABLES (1) (P) Y CABLE	±165'	
	G-3	(P) DOD + C BAND	ERRICSSON AIR6649 N77D AIR6419 N77G	--	--	270°	±98'	--	--	
	G-4	(P) LTE 700 BC /850/WCS	CCI DMP65R-BU6DA	--	(1) (E) RRUS-32 B30 (1) (P) 4449 B5/B12	270°	±98'	(1) (P) Y CABLE	±165'	

2 AT&T ANTENNA SCHEDULE
 NOT TO SCALE

NOTE:

- INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER LOADING FOR THIS SITE, AND ASSUMES NO RESPONSIBILITY FOR ITS EXISTING OR PROPOSED LOADING. FINAL INSTALLATION TO COMPLY STRUCTURAL ANALYSIS.
- FOR STRUCTURAL INFORMATION PERTAINING TO THE ANTENNA MOUNT, SEE 'MOUNT ANALYSIS REPORT' COMPLETED BY INFINIGY, DATED 03/22/22.



EXISTING AT&T RRUS 8843 B2/B66A TO REMAIN IN POSITION 2 (TYP. OF (1) PER SECTOR (3) SECTORS TOTAL)

PROPOSED AT&T 4478 B14 IN POSITION 2 (TYP. (1) PER SECTOR (3) SECTORS TOTAL)

PROPOSED AT&T 4449 B5/B12 IN POSITION 4 (TYP. (1) PER SECTOR (3) SECTORS TOTAL)

EXISTING RELOCATED AT&T DC6 SQUID (TYP. OF 2)

PROPOSED AT&T CCI TPA-65R-BU6DA-K PANEL ANTENNA IN POSITION 2 (TYP. (1) PER SECTOR (3) SECTORS TOTAL)

PROPOSED AT&T ERICSSON AIR6649 + AIR6419 (STACKED) PANEL ANTENNA IN POSITION 3 (TYP. (1) PER SECTOR (3) SECTORS TOTAL)

PROPOSED AT&T CCI DMP65R-BU6DA PANEL ANTENNA IN POSITION 4 (TYP. (1) PER SECTOR (3) SECTORS TOTAL)

PROPOSED AT&T DC6 SQUID ON MOUNT ARM (TYP. OF 1)

PROPOSED AT&T PLATFORM MOUNT (SITE PRO 1 F3P-12-WLL) TO REPLACE EXISTING AT&T PLATFORM MOUNT

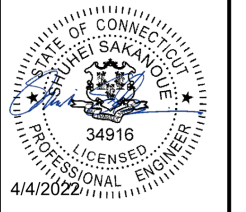
EXISTING MONOPOLE TOWER TO BE STRUCTURALLY MODIFIED (SEE STRUCTURAL SHEETS DONE BY OTHERS)

TRUE NORTH

1 ANTENNA ORIENTATION PLAN (EXISTING)
NOT TO SCALE

TRUE NORTH

2 ANTENNA ORIENTATION PLAN (PROPOSED)
NOT TO SCALE



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Drawn:	PG	Date:	10/22/21
Designed:	JLM	Date:	10/22/21
Checked:	ASW	Date:	10/22/21

Project Number: 499-006

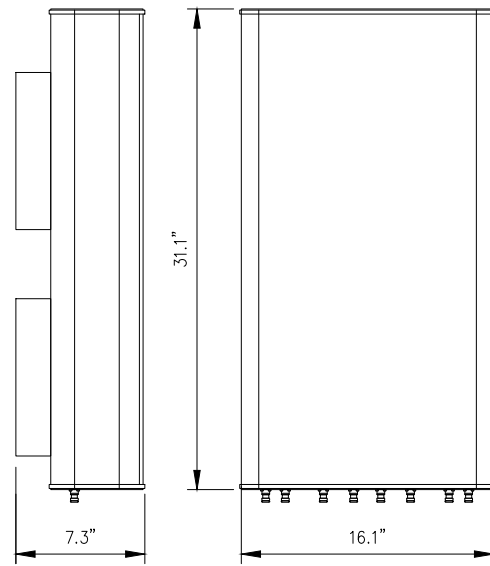
Project Title:
NEW BRITAIN FARMINGTON AVE.
CTL01028
FA# 10065751
723 FARMINGTON AVENUE
NEW BRITAIN, CT 06503



Drawing Scale: AS NOTED
Date: 12/8/21
CD

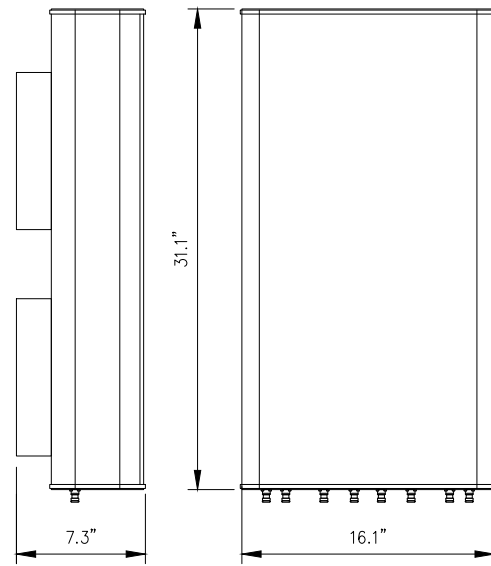
Drawing Title:
ANTENNA ORIENTATION PLAN

Drawing Number:
C4



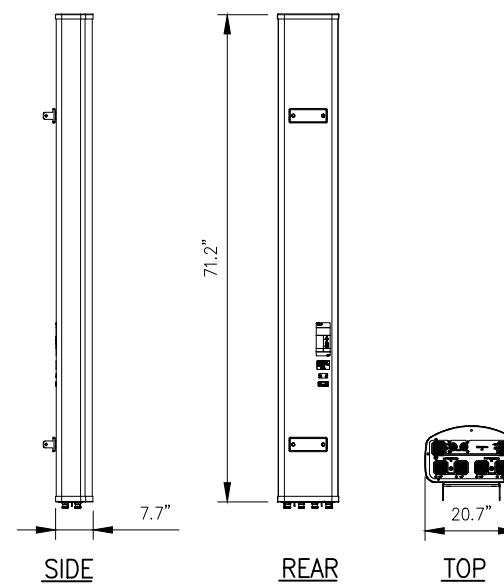
ERICSSON NO.:	AIR6449 N77D
RADOME MATERIAL:	FIBERGLASS, UV RESISTANT
RADOME COLOR:	LIGHT GRAY
DIMENSIONS, HxWxD:	31.1"x20.6"x8.6"
WEIGHT, W/ PRE-MOUNTED BRACKETS:	104 LBS

1 ANTENNA DETAIL
-- NOT TO SCALE



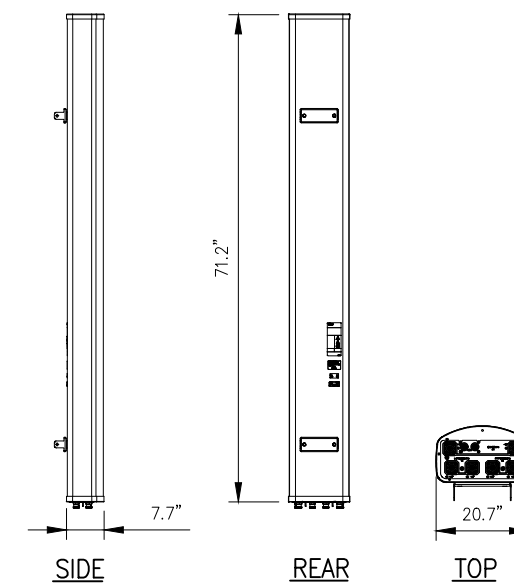
ERICSSON NO.:	AIR6419 N77G
RADOME MATERIAL:	FIBERGLASS, UV RESISTANT
RADOME COLOR:	LIGHT GRAY
DIMENSIONS, HxWxD:	31.1"x16.1"x7.3"
WEIGHT, W/ PRE-MOUNTED BRACKETS:	55.4 LBS

2 ANTENNA DETAIL
-- NOT TO SCALE



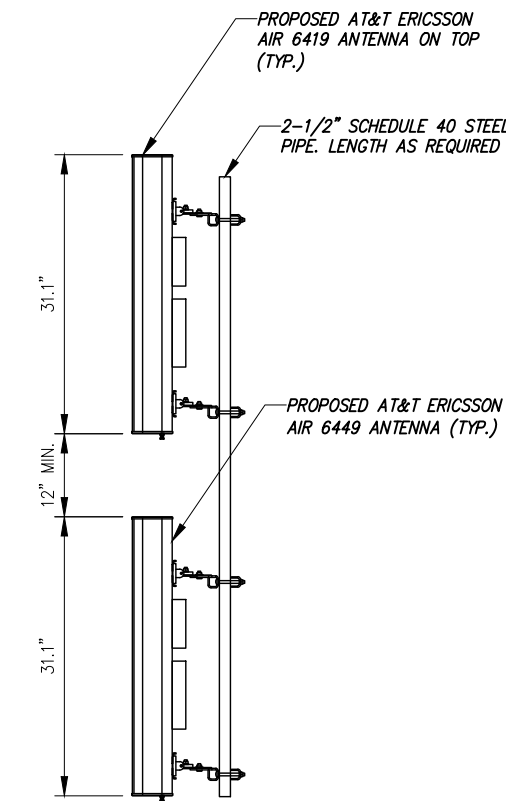
CCI MODEL NO.:	DMP65R-BU6DA
RADOME MATERIAL:	FIBERGLASS, UV RESISTANT
RADOME COLOR:	LIGHT GRAY
DIMENSIONS, HxWxD:	71.2"x20.7"x7.7"
WEIGHT, W/ PRE-MOUNTED BRACKETS:	79.4 LBS

3 ANTENNA DETAIL
-- NOT TO SCALE

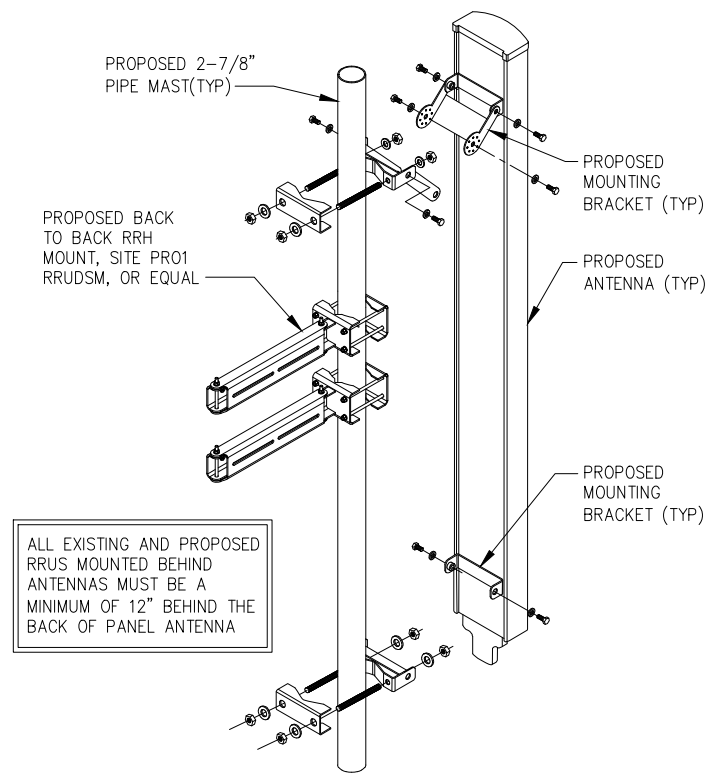


CCI MODEL NO.:	TPA-65R-BU6DA-K
RADOME MATERIAL:	FIBERGLASS, UV RESISTANT
RADOME COLOR:	LIGHT GRAY
DIMENSIONS, HxWxD:	71.2"x20.7"x7.7"
WEIGHT, W/ PRE-MOUNTED BRACKETS:	68.3 LBS

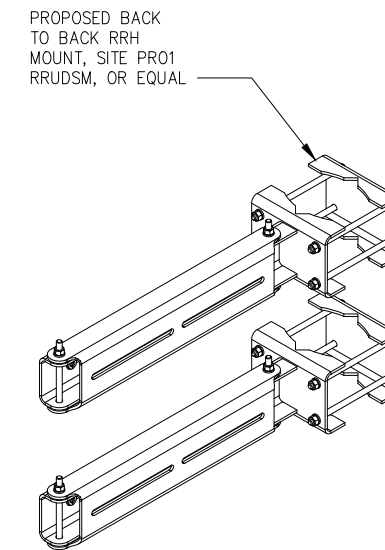
4 ANTENNA DETAIL
-- NOT TO SCALE



5 ANTENNA MOUNT DETAIL
(ERICSSON AIR6449 & AIR6419)
-- NOT TO SCALE



6 MOUNTING DETAIL
-- NOT TO SCALE



7 BACK TO BACK RRH MOUNT DETAIL
-- NOT TO SCALE

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Drawn: PG Date: 10/22/21
Designed: JLM Date: 10/22/21
Checked: ASW Date: 10/22/21

Project Number: 499-006

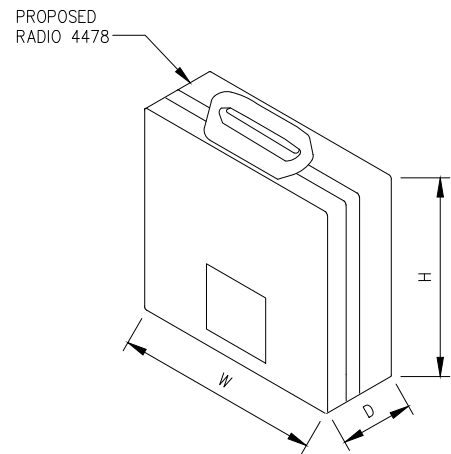
Project Title:
NEW BRITAIN FARMINGTON AVE.
CTL01028
FA# 10065751
723 FARMINGTON AVENUE
NEW BRITAIN, CT 06503



Drawing Scale: AS NOTED
Date: 12/8/21

Drawing Title:
EQUIPMENT DETAILS

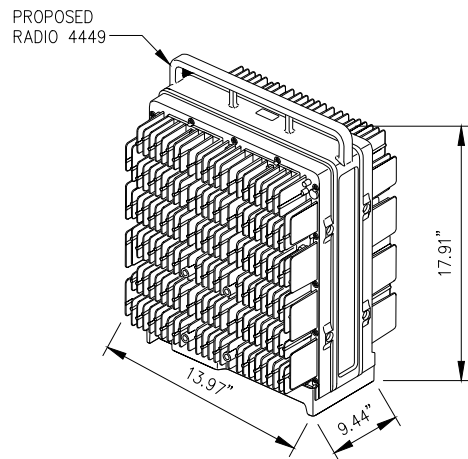
Drawing Number:
C5



RADIO 4478 SPECIFICATIONS

- HxWxD, (INCHES) : 18.1"x13.4"x8.26"
- WEIGHT (LBS) : 59.5
- COLOR : GRAY

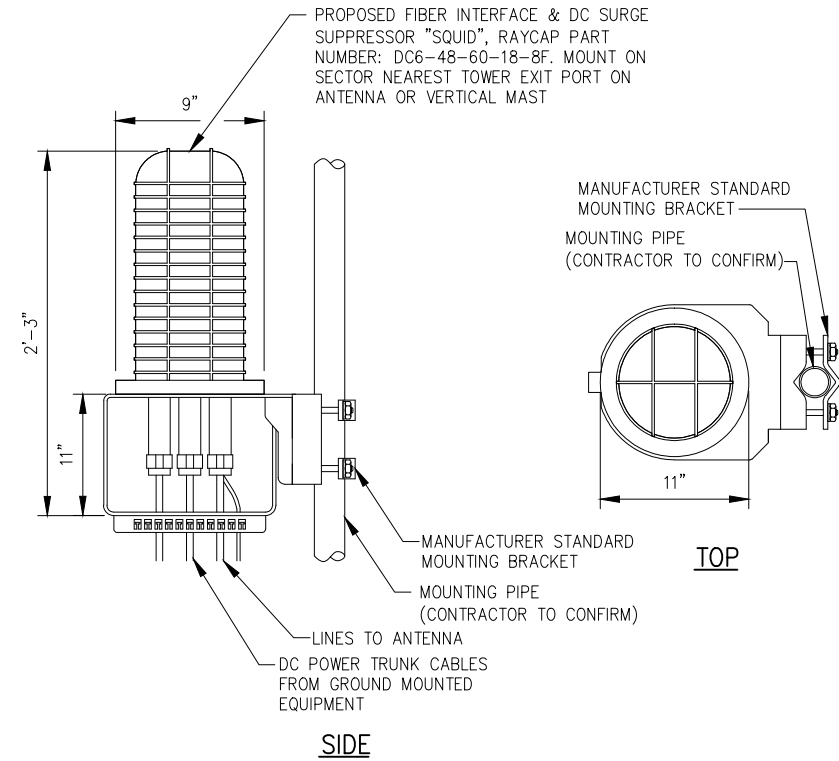
1 ERICSSON RADIO 4478 DETAIL
--- NOT TO SCALE



RADIO 4449 SPECIFICATIONS

- HxWxD, (INCHES) : 17.91"x13.97"x9.44"
- WEIGHT (LBS) : 70.54
- COLOR : GRAY

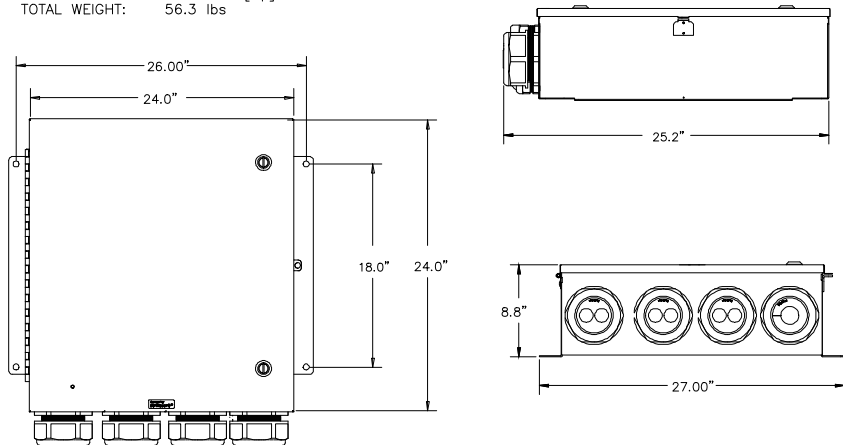
2 ERICSSON RADIO 4449 DETAIL
--- NOT TO SCALE



3 SQUID DETAIL
--- NOT TO SCALE

DC SURGE PROTECTION SOLUTIONS DC12-48-60-0-25E

DIMENSIONS, HxWxD: 24.00"x24.00"x8.00"
 VOLTAGE PROTECTION RATING (VPR): 400V
 VOLTAGE PROTECTION RATING [Up]: 410V
 TOTAL WEIGHT: 56.3 lbs



6 DC-12 SURGE SUPPRESSOR DETAIL
--- NOT TO SCALE

4 NOT USED
--- NOT TO SCALE

5 NOT USED
--- NOT TO SCALE

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Project Number: 499-006

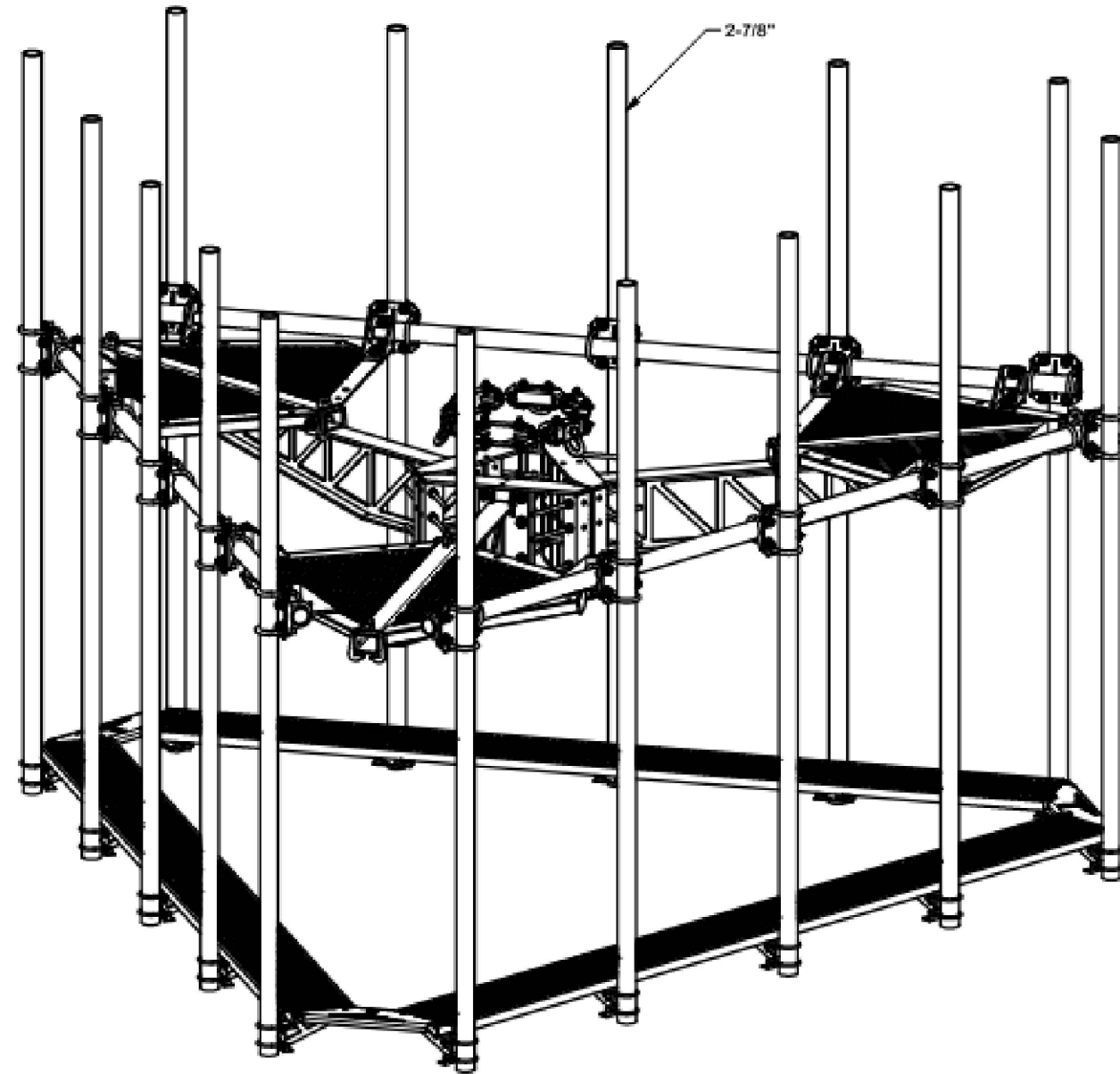
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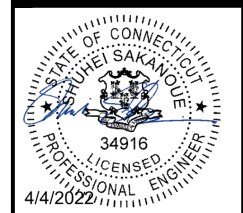
Drawing Title:
EQUIPMENT DETAILS

Drawing Number:
C6



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LPP-SA12	SIDE ARM WELDMENT FOR 12' LOW PROFILE PLATFORMS		119.21	357.63
2	3	X-LPP-CW	LOW PROFILE PLATFORM CORNER WELDMENT		198.75	596.26
3	3	X-RM3HD	WELDMENT FOR 3-SIDED HEAVY DUTY RING MOUNT		84.42	253.25
4	3	X-WWSP3	WALKWAY CORNER SUPPORT PLATE FOR 3-SIDED PLATFORM	12 in	9.00	27.01
5	12	X-LPP-PC	FACE PIPE CONNECTION BRACKET FORTRESS PLATFORM		7.01	84.11
6	15	X-WWSB	WALKWAY SUPPORT BRACKET		6.73	100.94
7	15	X-SCX3-FR	FORTRESS CROSSOVER PLATE		6.61	99.21
8	12	X-LPP-A7	CORNER WELDMENT ATTACHMENT ANGLE	2 1/2 in	1.27	15.25
9	3	GRS12-12	12" WIDE GRIP STRUT	120 in	31.00	93.00
10	3	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	230.81
11	15	P30120	2-7/8" X 120" (2-1/2" SCH. 40) GALVANIZED PIPE	120 in	56.07	870.99
12	12	G58R-48	5/8" X 48" THREADED ROD (HDG.)	48 in	0.40	4.79
12	12	G58R-24	5/8" X 24" THREADED ROD (HDG.)	24 in	0.40	4.79
13	6	G58R-8	5/8" X 8" THREADED ROD (HDG.)		0.70	4.18
14	36	G58214	5/8" X 2-1/4" HDG HEX BOLT GR5		0.29	10.49
15	12	X-UB5304	5/8" X 3" X 4-1/4" X 2-1/2" U-BOLT (HDG.)		0.98	11.70
16	60	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	68.97
17	30	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	30.00
18	192	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	13.53
19	216	G58LW	5/8" HDG LOCKWASHER		0.03	5.64
20	216	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	28.06
21	30	X-UB3312	3/8" X 3-1/2" X 4-3/4" X 2" U-BOLT (HDG.)		0.73	21.95
22	60	G3802	3/8" X 2" HDG HEX BOLT GR5		0.09	5.26
23	48	SQW38	3/8" SQUARE WASHER	2 in	0.29	13.89
24	120	G38FW	3/8" HDG USS FLATWASHER		0.01	1.41
25	120	G38LW	3/8" HDG LOCKWASHER		0.01	0.80
26	120	G38NUT	3/8" HDG HEAVY 2H HEX NUT		0.03	4.06
27	1	HALO	HALO		40.35	40.35
TOTAL WT. #					3023.66	

INFINIGY
 INFINIGY ENGINEERING, PLLC
 1033 Waterville Shaker Rd
 Albany, NY 12206
 Office # (518) 690-0790
 Fax # (518) 690-0793



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Drawn: PG Date: 10/22/21
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Project Number: 499-006
 Project Title: NEW BRITAIN FARMINGTON AVE. CTL01028 FA# 10065751
 723 FARMINGTON AVENUE NEW BRITAIN, CT 06503



Drawing Scale: AS NOTED
 Date: 12/8/21
CD

Drawing Title: **EQUIPMENT DETAILS**

Drawing Number: **C6.1**

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

DESCRIPTION	
F3P-12-WLL	
CPD NO.	DRAWN BY
	CEK 10/26/2017
ENG. APPROVAL	
CLASS	SUB
81	02
DRAWING USAGE	CHECKED BY
CUSTOMER	BMC 11/1/2017

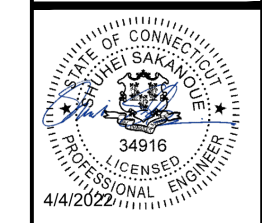
SITE PRO 1
 Engineering Support Team: 1-888-753-7446
 Locations: New York, NY; Atlanta, GA; Los Angeles, CA; Plymouth, IN; Salem, OR; Dallas, TX

valmont

PART NO.	F3P-12-WLL
DWG. NO.	F3P-12-WLL

PAGE 1 OF 4

1 SITE PRO 1 F3P-12-WLL
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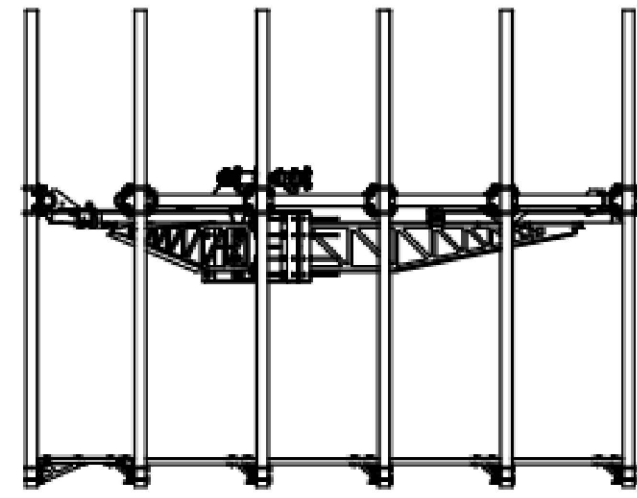
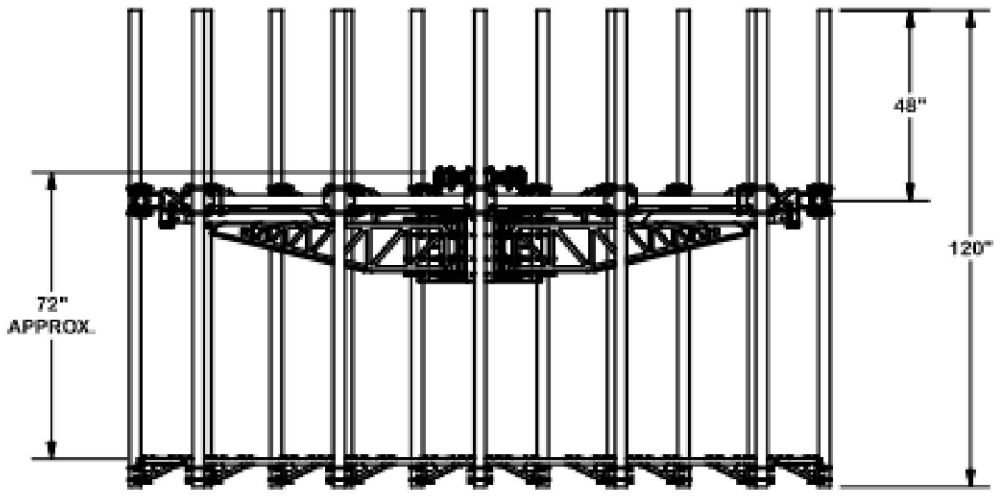
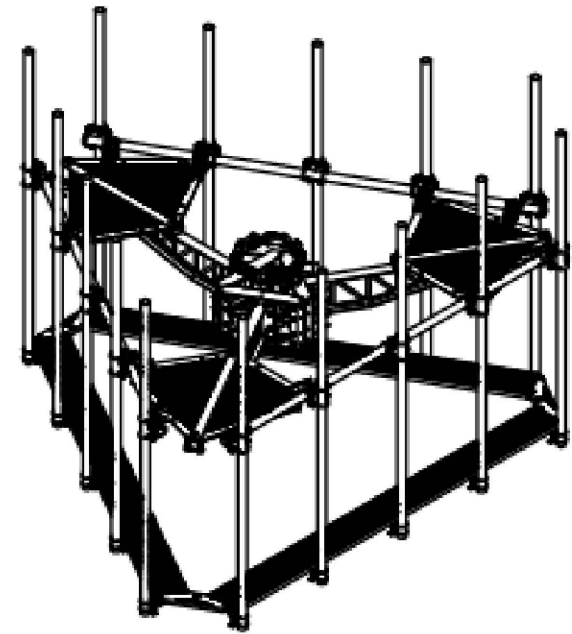
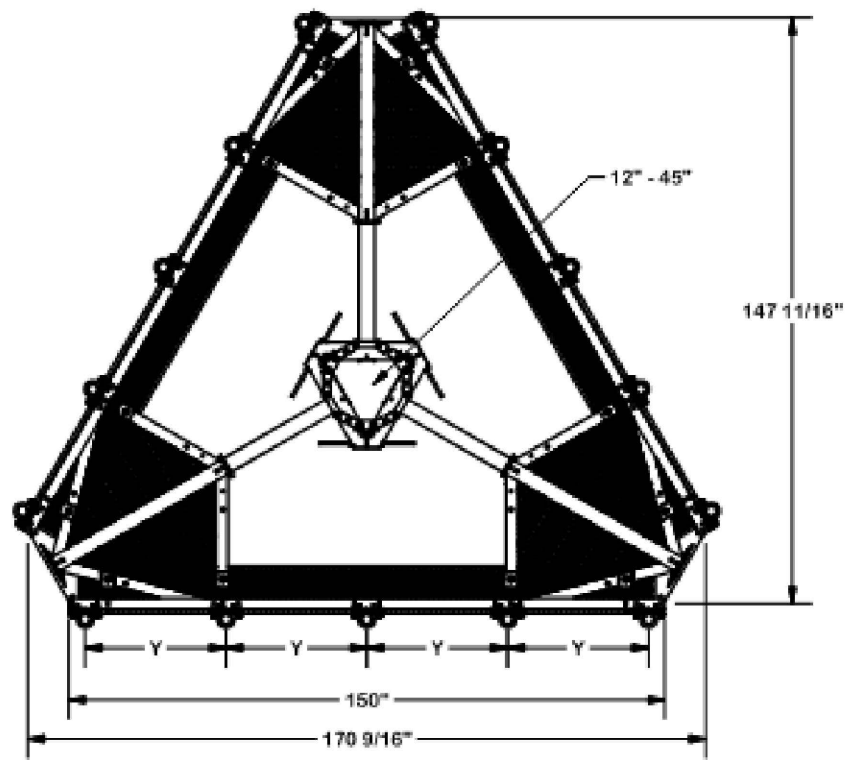
Project Title:
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 CTL01028
 FA# 10065751
 723 FARMINGTON AVENUE
 NEW BRITAIN, CT 06503



Drawing Scale: AS NOTED
 Date: 12/8/21
CD

Drawing Title:
EQUIPMENT DETAILS

Drawing Number:
C6.2



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.030 ")
 DRILLED AND GAS CUT HOLES (± 0.030 ") - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.010 ") - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.030 ")
 ALL OTHER ASSEMBLY (± 0.080 ")

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

DESCRIPTION			
F3P-12-WLL			
CPD NO.	DRAWN BY	END. APPROVAL	PART NO.
	CEK 10/26/2017		F3P-12-WLL
CLASS	SUB	DRAWING USAGE	CHECKED BY
81	02	CUSTOMER	BMC 11/1/2017

SITE PRO 1
 A valmont **CONCRETE**

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

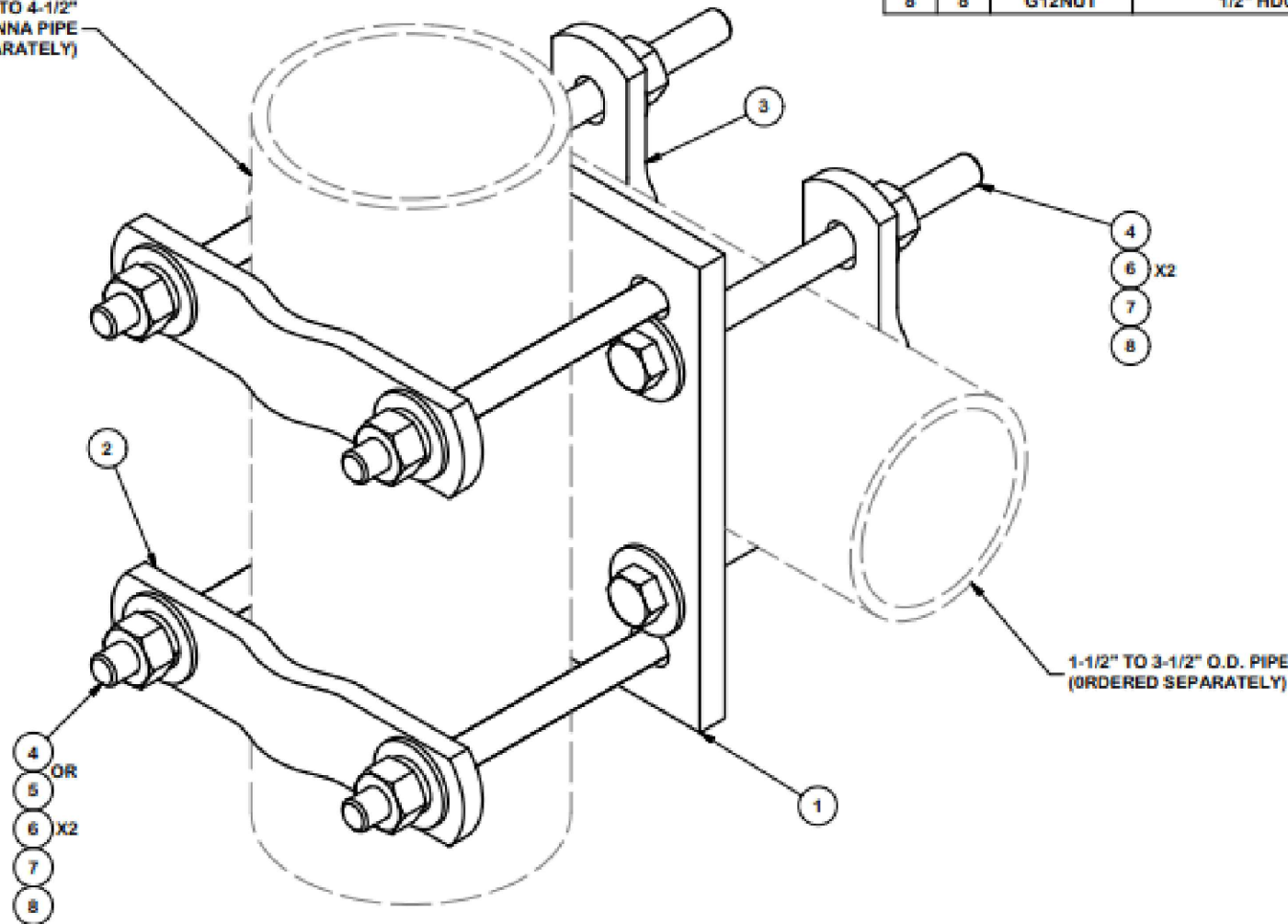
Engineering Support Team:
 1-888-753-7446

DWG. NO. F3P-12-WLL

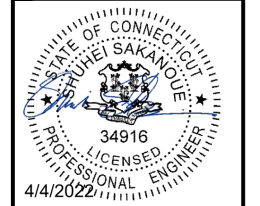
PAGE 2 OF 4

1 SITE PRO 1 F3P-12-WLL
 --- NOT TO SCALE

1-1/2" TO 4-1/2"
ANTENNA PIPE
(ORDERED SEPARATELY)



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX7	CROSSOVER PLATE	8 in	7.55	7.55
2	2	X-115765	5" V-CLAMP		1.02	2.04
3	2	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	1.83
4	8	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	3.28
5	4	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	1.19
6	16	G12FW	1/2" HDG USS FLATWASHER		0.03	0.54
7	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
8	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
					TOTAL WT. #	16.98



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No.	Submit / Revision	App'd	Date
4	ISSUED FOR CONSTRUCTION	AM	04/04/22
3	ISSUED FOR CONSTRUCTION	AM	03/15/22
2	ISSUED FOR CONSTRUCTION	AM	02/15/22
1	ISSUED FOR CONSTRUCTION	J.M.	12/8/21
0	ISSUED FOR REVIEW	PC	10/22/21

Drawn: PG Date: 10/22/21
Designed: J.M. Date: 10/22/21
Checked: ASW Date: 10/22/21

Project Number:
499-006

Project Title:
NEW BRITAIN
FARMINGTON AVE.
CTL01028
FA# 10065751
723 FARMINGTON AVENUE
NEW BRITAIN, CT 06503



Drawing Scale:
AS NOTED

Date:
12/8/21

CD

Drawing Title:
**EQUIPMENT
DETAILS**

Drawing Number:
C6.3

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

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

DESCRIPTION			
CROSSOVER PLATE (V-CLAMP STYLE)			
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 10/7/2010		SCX7-U
CLASS	SUB	DRAWING USAGE	CHECKED BY
B1	01	CUSTOMER	BMC 10/8/2010

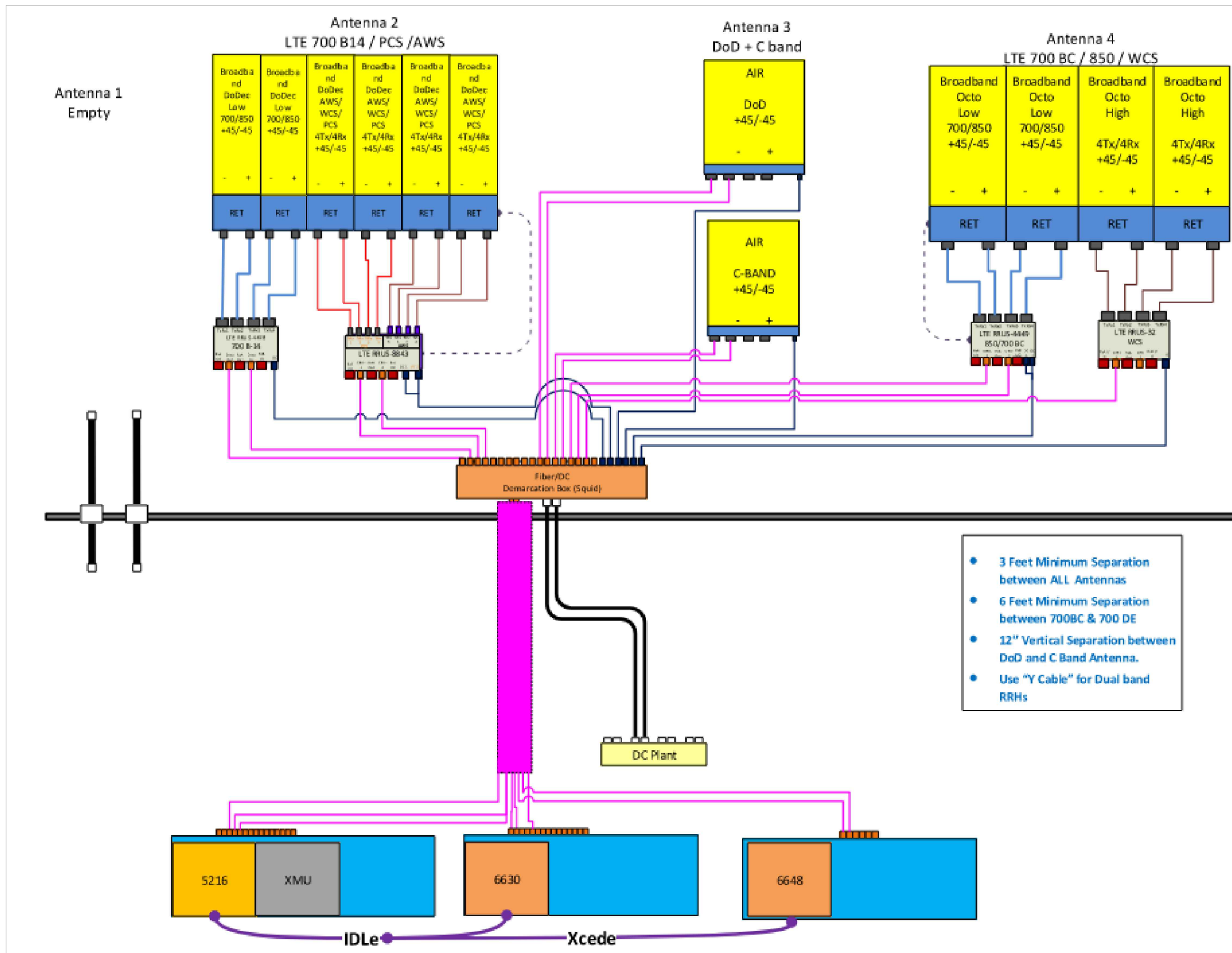
SITE PRO 1
A valmont **comcast** company

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

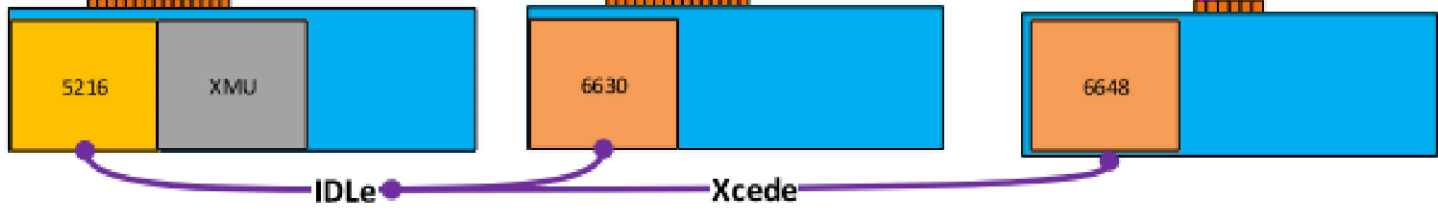
Engineering Support Team:
1-888-753-7446

PAGE
1 OF 1

1 SITE PRO 1 SCX7-U CROSSOVER PLATE FOR RRU/OVP MOUNT
NOT TO SCALE

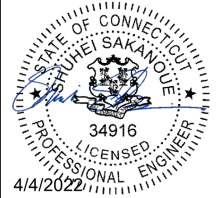


- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs



ALPHA/BETA/GAMMA

1 PLUMBING DIAGRAM (FINAL CONFIGURATION)
 --- NOT TO SCALE



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Drawing Scale:
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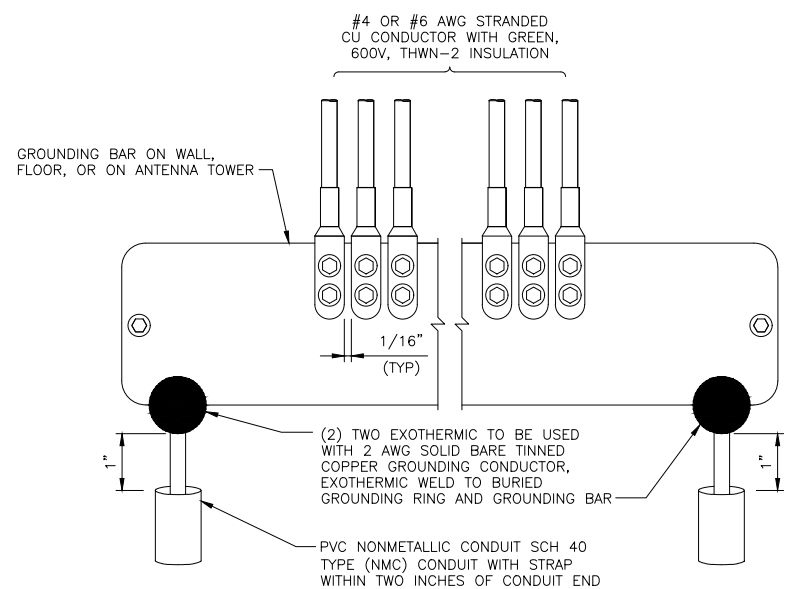
Date:
 12/8/21

CD

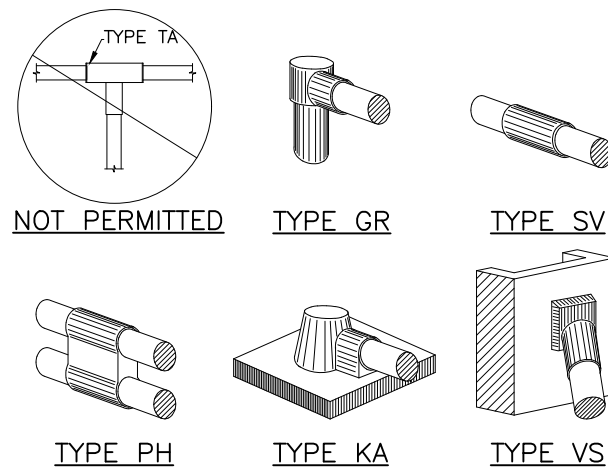
Drawing Title
PLUMBING DIAGRAM

Drawing Number
C7

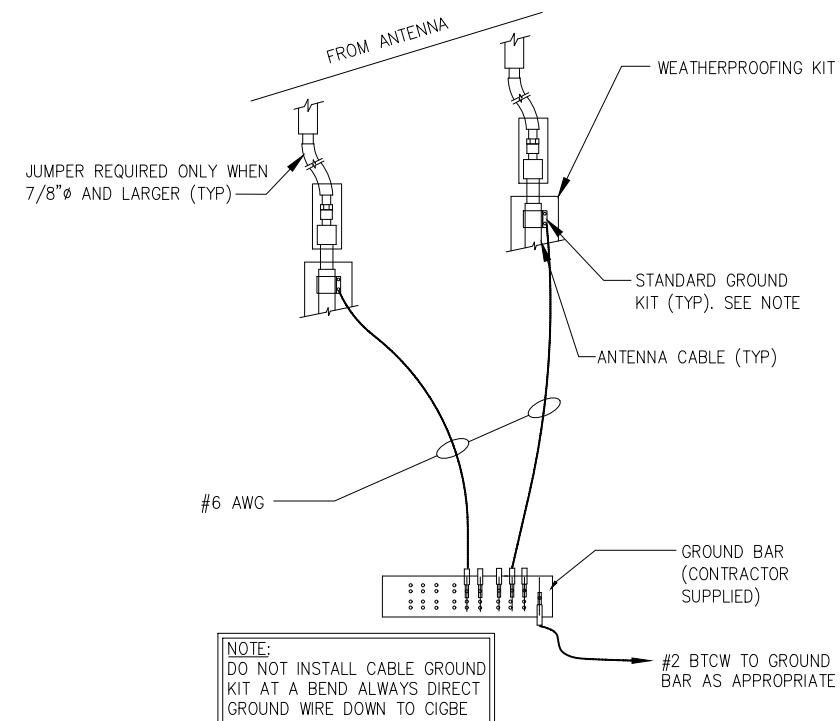
*BASED ON LTE RFDS, V. 3.0, DATED 03/25/22



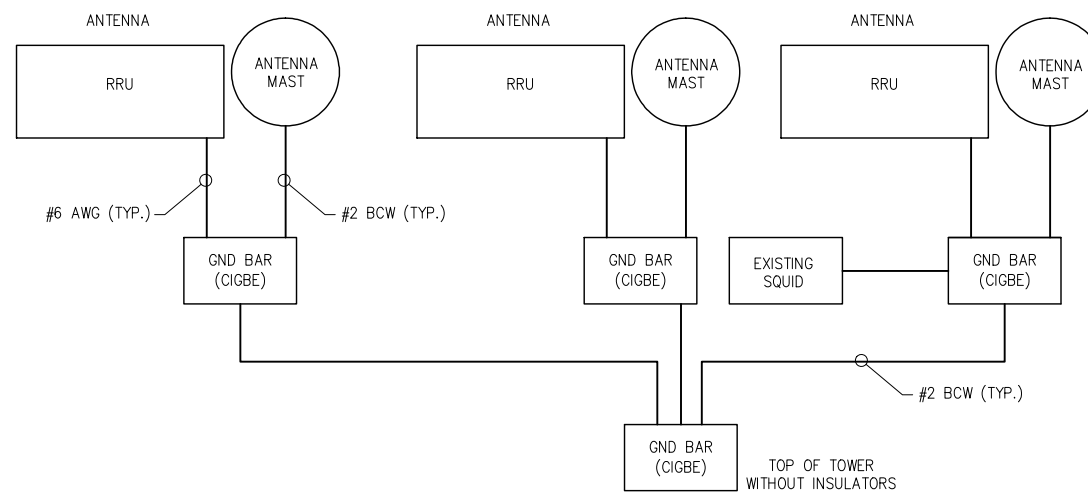
1 GROUND BAR CONNECTION DETAIL
-- NOT TO SCALE



2 CADWELDS (TYPICAL)
-- NOT TO SCALE



3 CONNECTION OF GROUND WIRES TO GROUNDING BARS @ ANTENNAS
-- NOT TO SCALE



4 SCHEMATIC DIAGRAM GROUNDING SYSTEM
-- NOT TO SCALE

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