



4 Davis Road West, Suite 5 – Old Lyme, CT 06371

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

Re: Notice of Exempt Modification Application
10 Willard Road, Norwalk, CT 06851

June 20, 2018

Dear Ms. Bachman:

Sprint Spectrum Realty Company, L.P. (“Sprint”), is submitting to the Connecticut Siting Council for a Notice of Exempt Modification for Proposed Modifications to an Existing Telecommunications Facility located at the above-referenced site. Sprint currently maintains 3 panel antenna at the 240’ level of the Tower. Sprint proposes to maintain those panel antennas (1 per sector) and add 3 new antennas (1 per sector). Sprint also proposes adding 3 existing remote radio units and installing them at the 240’ level on the tower. Sprint further proposes to add 1 hybrid cable and 27 Antenna-RRH jumper cables. Any ground based modifications will be added to existing equipment cabinets.

The Sprint installation was most recently issued an EM approval by the CSC on December 7, 2012, a Norwalk zoning approval on January 29, 2013 and a building permit from Norwalk on February 6, 2013. Any documents enclosed reflect the reality of the current installations on the Tower.

If you have any questions, please feel free to contact me.

Thank you,

By: *Paul F. Sagristano*

Paul F. Sagristano
Cherundolo Consulting
917.841.0247
psagristano@lrvassoc.com



4 Davis Road West, Suite 5 – Old Lyme, CT 06371

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

Re: Notice of Exempt Modification Application
10 Willard Road, Norwalk, CT 06851

Latitude : N41.1283
Longitude: W73.3902

June 20, 2018

Dear Ms. Bachman:

Sprint Spectrum Realty Company, L.P. (“Sprint”), is submitting to the Connecticut Siting Council for a Notice of Exempt Modification for Proposed Modifications to an Existing Telecommunications Facility located at the above-referenced site. . Sprint currently maintains 3 panel antenna at the 240’ level of the Tower. Sprint proposes to maintain those panel antennas (1 per sector) and add 3 new antennas (1 per sector). Sprint also proposes adding 3 existing remote radio units and installing them at the 240’ level on the tower. Sprint further proposes to add 1 hybrid cable and 27 Antenna-RRH jumper cables. Any ground based modifications will be added to existing equipment cabinets. Sprint is performing a new high-performance upgrade for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

The Sprint installation was most recently issued an EM approval by the CSC on December 7, 2012, a Norwalk zoning approval on January 29, 2013 and a building permit from Norwalk on February 6, 2013

Please accept this letter as notification to the Council, pursuant to R.C.S.A. Section 16-50j-73, for construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to and to Hon. Harry Rilling, Mayor of Norwalk as well as Steven Kleppin, Planning & Zoning director for the City of Norwalk, and to Mr. Sam Fuller, Owner of Fuller Development, LLC the Tower owner.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Sprint’s operations at the site. Also included is documentation of the structural sufficiency of the tower with proposed modifications to accommodate the revised antenna configuration.

Existing Facility

The Norwalk Facility is located at 10 Willard Road in the City of Norwalk and is owned by Fuller Development, LLC, the Site coordinates are: N41.1283, W73.3902

The existing facility consists of a 350' Lattice tower. Sprint currently operates wireless communications equipment on a platform on a concrete slab at the facility and has 3 antennas mounted at a centerline of 240'

Statutory Considerations

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

1. The height of the overall structure will be unaffected.
2. The proposed changes will not require an extension of the property boundaries.
3. The proposed additions will not increase the noise level at the existing facility by six decibels or more, or to levels that exceed state and/or local criteria
4. The changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A Section §16-50j-72(b)(2).

Respectfully submitted,

Paul F. Sagristano

Paul F. Sagristano
Charles Cherundolo Consulting
917-841-0247
psagristano@lrivassoc.com

PFS/mtf

Additional Recipients:

Hon. Harry Rilling, Mayor – City of Norwalk CT – Via Fed Ex
Steven Klepper, P&Z Director City of Norwalk - Via Fed Ex
Sam Fuller, Tower Owner



June 25, 2018

Dear Customer:

The following is the proof-of-delivery for tracking number **772515946480**.

Delivery Information:

Status:	Delivered	Delivered to:	Receptionist/Front Desk
Signed for by:	D.KING	Delivery location:	125 EAST AVE. NORWALK, CT 06851
Service type:	FedEx Express Saver	Delivery date:	Jun 22, 2018 11:48
Special Handling:	Deliver Weekday Direct Signature Required		



Shipping Information:

Tracking number:	772515946480	Ship date:	Jun 19, 2018
		Weight:	1.0 lbs/0.5 kg

Recipient:
Hon. Harry Rilling, Mayor
City of Norwalk
125 East Ave.
NORWALK, CT 06851 US

Shipper:
Paul Sagristano
CCC
4 Davis Road West
Suite 5
OLD LYME, CT 06371 US
CT03XC377 CSC Submission

Reference

Thank you for choosing FedEx.



June 25, 2018

Dear Customer:

The following is the proof-of-delivery for tracking number **772516019503**.

Delivery Information:

Status:	Delivered	Delivered to:	Shipping/Receiving
Signed for by:	K.MCORMICK	Delivery location:	1 NORTH WATER STREET NORWALK, CT 06854
Service type:	FedEx Express Saver	Delivery date:	Jun 22, 2018 11:55
Special Handling:	Deliver Weekday Direct Signature Required		



Shipping Information:

Tracking number:	772516019503	Ship date:	Jun 19, 2018
		Weight:	1.0 lbs/0.5 kg

Recipient:
Sam Fuller
Fuller Development, LLC
1 North Water Street
Suite 100
NORWALK, CT 06854 US

Reference

Shipper:
Paul Sagristano
CCC
4 Davis Road West
Suite 5
OLD LYME, CT 06371 US
CT03XC377 CSC to Owner

Thank you for choosing FedEx.



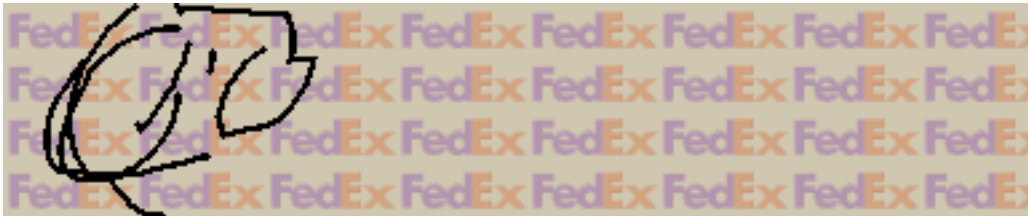
June 25,2018

Dear Customer:

The following is the proof-of-delivery for tracking number **772515977088**.

Delivery Information:

Status:	Delivered	Delivered to:	Receptionist/Front Desk
Signed for by:	C.BAKER	Delivery location:	125 EAST AVE. NORWALK, CT 06851
Service type:	FedEx Express Saver	Delivery date:	Jun 22, 2018 11:49
Special Handling:	Deliver Weekday Direct Signature Required		



Shipping Information:

Tracking number:	772515977088	Ship date:	Jun 19, 2018
		Weight:	2.0 lbs/0.9 kg

Recipient:
Steven Kleppin - P&Z Director
City of Norwalk
125 East Ave.
Room 223
NORWALK, CT 06851 US

Reference

Shipper:
Paul Sagristano
CCC
4 Davis Road West
Suite 5
OLD LYME, CT 06371 US
CT03XC377 CSC to P&Z

Thank you for choosing FedEx.



Imagery ©2018 Google, Map data ©2018 Google 100 ft

10 WILLARD RD

Location 10 WILLARD RD

Mblu 5/ 17/ 2/ 0/

Acct#

Owner FDSPIN WILLARD LLC

Assessment \$3,967,780

Appraisal \$5,668,250

PID 11273

Building Count 3

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$1,175,000	\$4,493,250	\$5,668,250

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$822,500	\$3,145,280	\$3,967,780

Owner of Record

Owner FDSPIN WILLARD LLC

Sale Price \$6,625,000

Co-Owner

Certificate

Address 1 NORTH WATER ST SUITE 100

Book & Page 8554/113

NORWALK, CT 06854-0000

Sale Date 07/11/2017

Instrument

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
FDSPIN WILLARD LLC	\$6,625,000		8554/113		07/11/2017
SOUTHERN NEW ENG TEL CO	\$0		401/370		03/10/1954

Building Information

Building 1 : Section 1

Year Built: 1956

Living Area: 46,692

Replacement Cost: \$2,157,385

Building Percent 43

Good:

Replacement Cost

Less Depreciation: \$927,680

Building Attributes

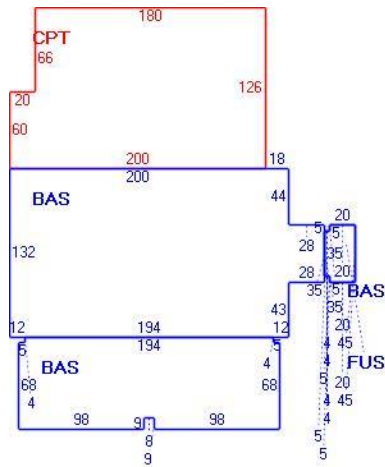
Field	Description
STYLE	Warehouse
MODEL	Industrial
Stories:	1.00
Occupancy	2.00
Exterior Wall 1	Brick Veneer
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Rolled Compos
Interior Wall 1	Drywall
Interior Wall 2	Minimum
Interior Floor 1	Concrete
Interior Floor 2	Vinyl
Heating Fuel	Oil
Heating Type	Forced Air
AC Percent	35
Heat Percent	100
Bldg Use	Utility
Total Rooms	0
Bedrooms	0
FBM Area	
Heat/AC	Heat/AC Split
Frame	Steel
Plumbing	Average
Foundation	Slab
Partitions	Average
Wall Height	12.00
% Sprinkler	65.00

Building Photo



(<http://images.vgsi.com/photos/NorwalkCTPhotos//00\00\31\78>).

Building Layout



(ParcelSketch.ashx?pid=11273&bid=11273)

Building Sub-Areas (sq ft)		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	45,652	45,652
FUS	Finished Upper Story	1,040	1,040
CPT	Carport	23,880	0
		70,572	46,692

Building 2 : Section 1

Year Built:	1972
Living Area:	988
Replacement Cost:	\$91,686
Building Percent Good:	47
Replacement Cost Less Depreciation:	\$43,090

Building Attributes : Bldg 2 of 3

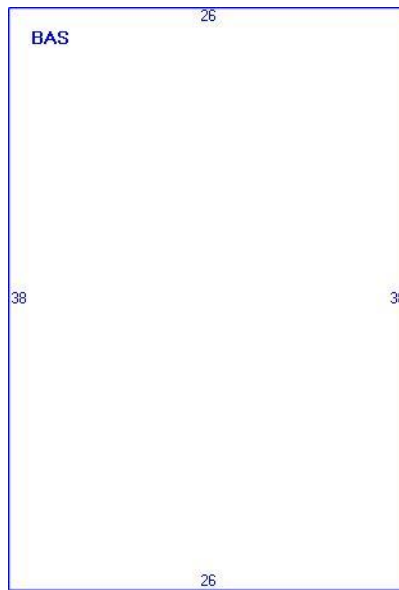
Field	Description
STYLE	Commercial
MODEL	Industrial
Stories:	1.00
Occupancy	1.00
Exterior Wall 1	Concrete
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar and Gravel
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Vinyl
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC Percent	100
Heat Percent	100
Bldg Use	Utility
Total Rooms	0
Bedrooms	0
FBM Area	
Heat/AC	None
Frame	Typical
Plumbing	Average
Foundation	Slab
Partitions	Light
Wall Height	12.00
% Sprinkler	0.00

Building Photo



(<http://images.vgsi.com/photos/NorwalkCTPhotos//default.jpg>)

Building Layout



(ParcelSketch.ashx?pid=11273&bid=50568)

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	988	988
		988	988

Building 3 : Section 1

Year Built: 1988
Living Area: 560
Replacement Cost: \$36,019
Building Percent Good: 55
Replacement Cost Less Depreciation: \$19,810

Building Attributes : Bldg 3 of 3

Field	Description
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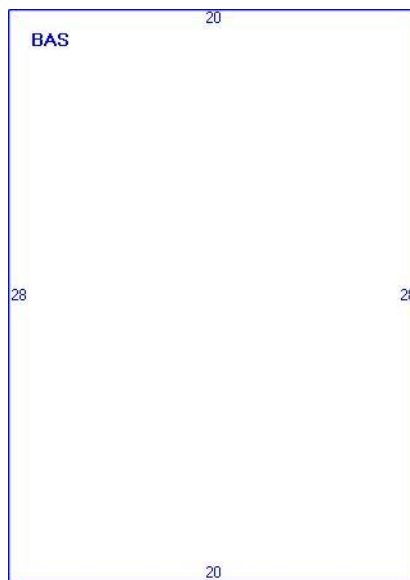
STYLE	Telephone Bldg
MODEL	Industrial
Stories:	1.00
Occupancy	1.00
Exterior Wall 1	Precast Panel
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Rolled Compos
Interior Wall 1	Drywall
Interior Wall 2	
Interior Floor 1	Vinyl
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC Percent	100
Heat Percent	100
Bldg Use	Utility
Total Rooms	0
Bedrooms	0
FBM Area	
Heat/AC	None
Frame	Typical
Plumbing	Average
Foundation	Slab
Partitions	Average
Wall Height	
% Sprinkler	0.00

Building Photo



(<http://images.vgsi.com/photos/NorwalkCTPhotos//default.jpg>)

Building Layout



(ParcelSketch.ashx?pid=11273&bid=50569)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	560	560
		560	560

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Land Line Valuation

Use Code 401
Description Utility
Zone B2
Neighborhood C330

Size (Acres) 8.29
Frontage
Depth
Assessed Value \$3,145,280
Appraised Value \$4,493,250

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	Paving Asph.			12000.00 S.F.	\$12,600	1
PAV1	Paving Asph.			60300.00 S.F.	\$63,320	1
FN6	Fence 6'			3000.00 L.F.	\$21,000	1
TNK1	Tank Under Grn			10000.00 GALS	\$7,500	1
CEL1	Cell Tower			1.00 UNITS	\$80,000	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$1,175,000	\$4,493,250	\$5,668,250
2014	\$1,175,000	\$4,493,250	\$5,668,250
2013	\$1,175,000	\$4,493,250	\$5,668,250

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$822,500	\$3,145,280	\$3,967,780
2014	\$822,500	\$3,145,280	\$3,967,780
2013	\$822,500	\$3,145,280	\$3,967,780

APPLICATION FOR ZONING APPROVAL AND ZONING COMPLIANCE

(This application shall be accompanied by three (3) plot plans and three (3) sets of architectural plans showing existing buildings and proposed construction.)

Date JAN 25, 2013 FEE \$110.00 Fee paid

Proposed Use SPRINT Spectrum: Remove 6 CDMA antenna and replace with 3 Network vision antenna & 6 Remote Radio heads; replace existing GPS antenna; install 1 new BTS ~~BBU~~ cabinets & Fiber dist box; replace CDMA cabinets w/ 2 new BBU cabinets & replace/install associated cables & equip.

** Antenna not to exceed 15' above existing tower **

Project Location 10 Willard Road ZIP 06854

Owner/Lessee SPRINT Vision Tel. (800) 357-7611

Address 1 International Blvd. Mahwah NJ. ZIP 07495

Applicant same as above Tel. _____

Address ERD Consulting: Eric Dahl ZIP 06442

Builder 55 Lynn Road Ivoryton CT Tel. ERIC *

Address _____ ZIP (860) 227-1975

Architect Salient Architects Tel. _____

Address 600-700 Mountain Ave Murray Hill NJ ZIP 07974

ZONING INFORMATION AND APPROVALS

Zone BUS#2 Map Page 2ISE District 5 Block 17 Conservation Sign-Off or Permit Lot REQUIRED

Coastal Area NA Flood Zone X

P&Z Comm. (CAM, SP, SPR, SUBD) _____

** All equipment shall be located within existing compound **

Non-Conformities / ZBA Variances _____

Notes See attached sitting Council approval ltr dated Dec 7, 2012 for EM-SPRINT-103-121120A at 10 Willard Rd.

Application is also being made for Zoning Certificate of Compliance. Upon completion of this project, the undersigned shall notify the Zoning Inspector so that a final inspection can be made. I hereby certify that all of the statements herein contained are true and correct.

- * Tax Form required
- * Bldg permit required

[Signature]
Applicant

Approved [Signature] Date 1/29/13

CITY OF NORWALK

BUILDING PERMIT APPLICATION

For Office Use Only

Inspector Initial: LG

District: S Block: 17 Lot: 2 Unit:
Use Group: B

Building Permit No.:
Construction Classification: 2-B

Address of Work: 10 WILLARD RD

Building Owner's Name: Southern New England Tel. Co. Phone:

Address: 1 SBC Center Rd 36-m 01 City/Town: ST Louis MO Zip:

Lessee Information (if applicable):

Contractor: APC Construction Services Contact:

Address: 46 MILL PLAIN RD FL2 City: DANBURY State: CT Zip: 06811

Phone (office & cell): 860-227-1975 Signature:

Registration No: SMO.0902680 Expiration Date: 6/13 C.B.Y.D. No.:

Applicant: ERIC DAHL Phone: 860-227-1975

Address: 55 LYNN RD City: IVORYTON State: CT Zip: 06442

Signature:

Tax Form: 1-31-13 WPCA: Health: Workers Comp: or Aff.

Zoning: 1-29-13 AR Fire Marshall: 1/31/13 GE DPW/State: Conservation: N/A

Work Description:

Estimated Cost of Construction: \$25,000.00

Permit Fee: \$375.00

CO Fee: \$10.00

CT Education Tax: \$6.50

Work W/O Permit Fee: \$

Total: \$391.50

Payment Type: Cash/Check Number

Trades Included: Yes or No Sewer: Yes or No

Subcontractor permits required:

- Electric
- Service
- H.V.A.C.
- Heating
- Air Conditioning
- Plumbing
- Fuel Tank
- Alarm
- Sprinkler
- Hood & Duct

I, THE UNDERSIGNED, hereby affirm and attest that I am familiar with the requirements and provisions of the BUILDING CODE of the STATE of CONNECTICUT and the Ordinances of the CITY of NORWALK as they apply to the work described above, and I agree to satisfy those requirements in every portion of that work, and to give the applicable local and state requirements precedence over other written specifications, drawings and instructions. I further agree to cooperate with and assist the Officials of the CITY of NORWALK in their inspections of this work, and in the enforcement of applicable local and state codes and regulations. I hereby certify that I am the Owner or Authorized Agent of the Owner of the Property herein described, and that I have the necessary legal right and authority to proceed with the work herein outlined, and that the information I have given is true and correct, and that the cost estimate is accurate to the best of my knowledge. I authorize the CITY of NORWALK to properly dispose of all residential construction plans two years after issuance of the Certificate of Occupancy unless written request is submitted to the Building Department within that time.

Applicant Signature:

Date: 2/6/13

Print Applicant Name:

Building Official Signature:

Date:

City of Norwalk, Conn.

APPLICATION FOR ZONING APPROVAL AND ZONING COMPLIANCE

(This application shall be accompanied by three (3) plot plans and three (3) sets of architectural plans showing existing buildings and proposed construction.)

Date JAN 25, 2013 FEE \$110.00 Fee paid

Proposed Use SPRINT Spectrum: Remove 6 CDMA antenna and replace with 3 Network vision antenna & 6 Remote Radio heads; replace existing GPS antenna; install 1 new BTS cabinet & Fiber dist box; replace CDMA cabinets w/ 2 new BBU cabinets & replace/install associated cables & equip.

** Antenna not to exceed 15' above existing tower **

Project Location 10 Willard Road ZIP 06854

Owner/Lessee SPRINT Vision Tel. (800) 357-7611

Address 1 International Blvd. Mahwah NJ. ZIP 07495

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Builder 55 Lynn Road Ivoryton CT Tel. ERIC *

Address ZIP (860) 227-1975

Architect Saliest Architects Tel.

Address 600-700 Mountain Ave Murray Hill NJ ZIP 07974

ZONING INFORMATION AND APPROVALS

Zone BUS #2 Map Page 2ISE District 5 Block 17 Conservation Sign-Off or Permit REQUIRED

Coastal Area NA Flood Zone X

P&Z Comm. (CAM, SP, SPR, SUBD)

** All equipment shall be located within existing compound **

Non-Conformities / ZBA Variances

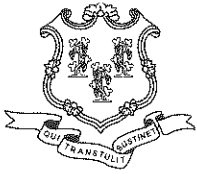
Notes See attached Planning Council approval ltr dated Dec 7, 2012 for EM-SPRINT-103-12/120A at 10 Willard Rd.

Application is also being made for Zoning Certificate of Compliance. Upon completion of this project, the undersigned shall notify the Zoning Inspector so that a final inspection can be made. I hereby certify that all of the statements herein contained are true and correct.

- * Tax Form required
* Bldg permit required

X [Signature] Applicant

Approved [Signature] Date 1/29/13



STATE OF CONNECTICUT **NV_CT03XC377**
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

www.ct.gov/csc

December 7, 2012

Jennifer Young Gaudet
HPC Wireless Services
46 Mill Plain Road, Floor 2
Danbury, CT 06811

RE: **EM-SPRINT-103-121120A**- Sprint Spectrum, L.P. notice of intent to modify an existing telecommunications facility located at 10 Willard Road, Norwalk, Connecticut.

Dear Ms. Gaudet:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- The proposed coax shall be installed in accordance with the recommendations made in the Rigorous Structural Analysis Report prepared by GPD Group dated October 8, 2012 and stamped by David Granger; and
- Not more than 45 days following completion of the antenna installation, Sprint shall provide documentation certifying that its installation complied with the engineer's recommendation.
- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not more than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated November 19, 2012. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.



This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,

Handwritten signature of Linda Roberts in black ink, with the initials 'LRR' written in the upper right corner of the signature.

Linda Roberts
Executive Director

LR/CDM/cm

c: The Honorable Richard Moccia, Mayor, City of Norwalk
Michael Greene, Director of Planning and Zoning, City of Norwalk

HPC Wireless Services
46 Mill Plain Rd.
Floor 2
Danbury, CT, 06811
P.: 203.797.1112



November 19, 2012

VIA OVERNIGHT COURIER

Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051
Attn: Ms. Linda Roberts, Executive Director

Re: Sprint Spectrum, L.P. – exempt modification
10 Willard Road, Norwalk, Connecticut

Dear Ms. Roberts:

This letter and attachments are submitted on behalf of Sprint Spectrum, L.P. (“Sprint”). Sprint is undertaking modifications to certain existing sites in its Connecticut system in order to implement updated technology. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction that constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the Mayor of the City of Norwalk.

Sprint plans to modify the existing wireless communications facility owned by AT&T Corporation and located at 10 Willard Road in the City of Norwalk (coordinates 41°07’39” N, - 73°23’24” W). Attached are a compound plan and elevation depicting the planned changes, and documentation of the structural sufficiency of the structure to accommodate the revised antenna configuration. Also included is a power density report reflecting the modification to Sprint’s operations at the site.

The changes to the facility do not constitute a modification as defined in Connecticut General Statutes (“C.G.S.”) Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. Sprint will replace six (6) existing CDMA antennas with three (3) dual-band panel antennas and three (3) dual-pole CDMA antennas on the mounts with a center line of

Ms. Linda Roberts
November 15, 2012
Page 2

approximately 244'. Six (6) RRHs (remote radio heads) will be mounted behind the antennas. During an interim period of up to one year, the three (3) CDMA antennas will remain. Sprint will also install three (3) hybridflex cables along the existing coaxial cable run, and will remove the coaxial cable at the end of the interim period. The proposed modifications will not extend the height of the approximately 350' structure.

2. The proposed changes will not extend the site boundaries. Sprint will make related equipment changes within the existing equipment shelter. These changes will have no effect on the site boundaries.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more. The incremental effect of the proposed changes will be negligible.
4. The changes to the facility will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site. As indicated on the attached report prepared by EBI Consulting, Sprint's operations at the site will result in a power density of approximately 6.591%; the combined site operations will result in a total power density of approximately 32.361%.

Please feel free to contact me by phone at (860) 798-7454 or by e-mail at jgaudet@hpcwireless.com with questions concerning this matter. Thank you for your consideration.

Respectfully yours,



Jennifer Young Gaudet

cc: Honorable Richard A. Moccia, Mayor, City of Norwalk
AT&T (underlying property owner)

1 INTERNATIONAL BLVD, SUITE 100
MAYFAHLE, MA 01905
P: 800-337-7941

WESTFORD, MA 01581
P: 978-932-1600

New Jersey Office:
2 East 21st Street, 4th Floor
Newark, NJ 07102
P: 973-527-5600 F: 973-527-8166

New England Office:
300 State Street, 10th Floor
Boston, MA 02109
P: 617-552-3000 F: 617-552-3001

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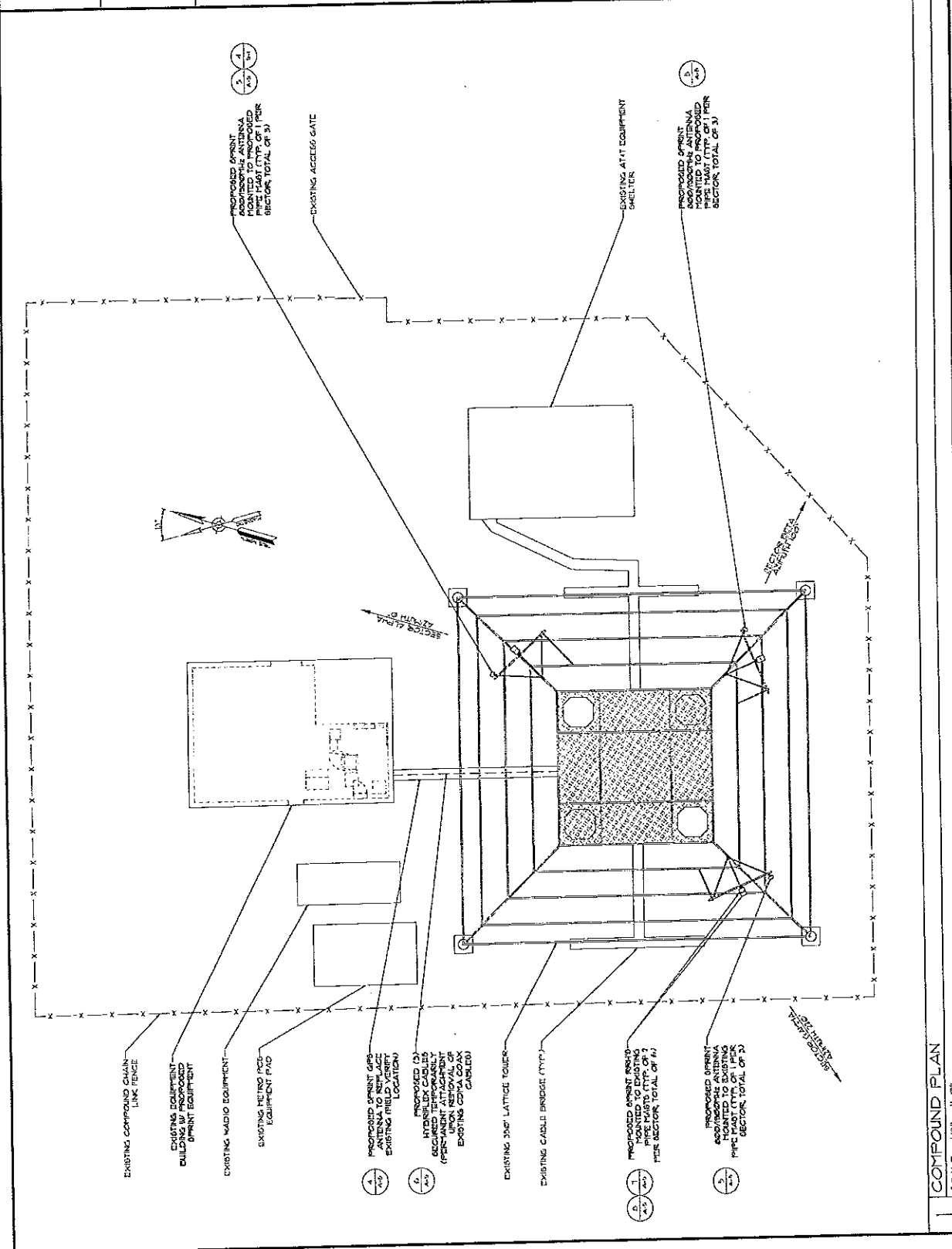
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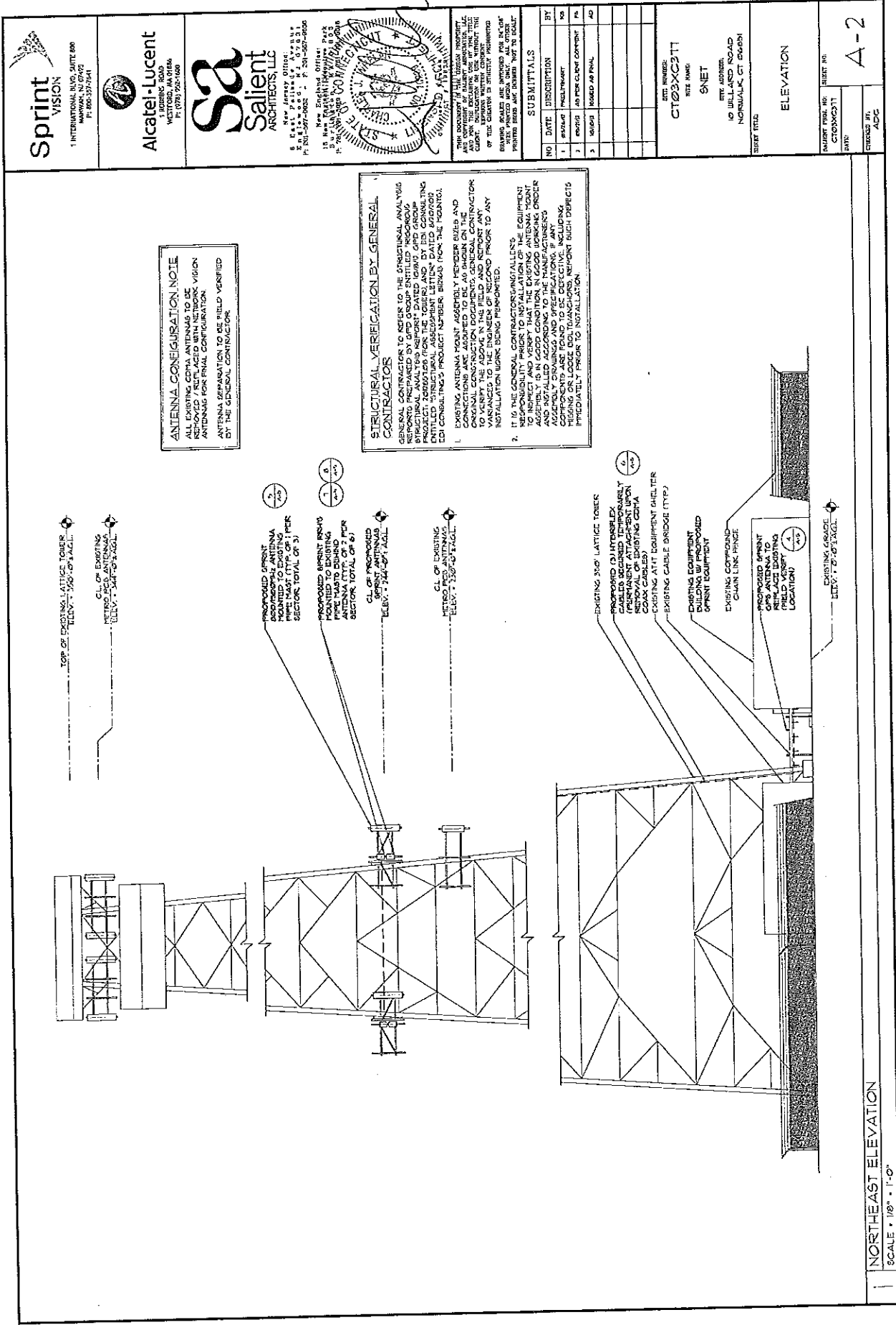
DATE: 03/11/11
BY: [Signature]
NO: 10000

PROJECT NO: CT03XC377
SHEET NO: SNET
SITE ADDRESS: 10 WILLAND ROAD, NORWALK, CT 06851

PROJECT TITLE: COMPOUND PLAN

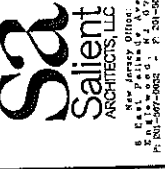
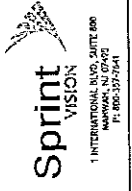


1 COMPOUND PLAN
SCALE = 1/8" = 1'-0"



ANTENNA CONFIGURATION NOTE
 ALL EXISTING CDMA ANTENNAS TO BE REMOVED / REPLACED WITH NETWORK VISION ANTENNAS FOR FINAL CONFIGURATION.
 ANTENNA SEPARATION TO BE FIELD VERIFIED BY THE GENERAL CONTRACTOR.

STRUCTURAL VERIFICATION BY GENERAL CONTRACTOR
 ALL ANTENNAS TO BE REFERRED TO THE STRUCTURAL ANALYSIS REPORTS PREPARED BY L&D GROUP ENTITLED "ROOFLOAD STRUCTURAL ANALYSIS REPORT DATED 10/20/03 AND THE PROJECT CONDITIONS FOR THE MOUNTAIN LATTICE TOWER" AND CONSULTING'S PROJECT NUMBER BEING FOR THE MOUNTAIN LATTICE TOWER.
 1. EXISTING ANTENNA MOUNT ASSEMBLY HEADERS AND CONNECTIONS ARE REQUIRED TO BE AS SHOWN ON THE ORIGINAL CONSTRUCTION DOCUMENTS. GENERAL CONTRACTOR TO VERIFY THAT THE EXISTING ANTENNA MOUNT ASSEMBLY HEADERS AND CONNECTIONS ARE AS SHOWN ON THE ORIGINAL CONSTRUCTION DOCUMENTS. GENERAL CONTRACTOR TO VERIFY THAT THE EXISTING ANTENNA MOUNT ASSEMBLY HEADERS AND CONNECTIONS ARE AS SHOWN ON THE ORIGINAL CONSTRUCTION DOCUMENTS. GENERAL CONTRACTOR TO VERIFY THAT THE EXISTING ANTENNA MOUNT ASSEMBLY HEADERS AND CONNECTIONS ARE AS SHOWN ON THE ORIGINAL CONSTRUCTION DOCUMENTS.
 2. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO INSPECT AND VERIFY THAT THE EXISTING ANTENNA MOUNT ASSEMBLY HEADERS AND CONNECTIONS ARE AS SHOWN ON THE ORIGINAL CONSTRUCTION DOCUMENTS. GENERAL CONTRACTOR TO VERIFY THAT THE EXISTING ANTENNA MOUNT ASSEMBLY HEADERS AND CONNECTIONS ARE AS SHOWN ON THE ORIGINAL CONSTRUCTION DOCUMENTS. GENERAL CONTRACTOR TO VERIFY THAT THE EXISTING ANTENNA MOUNT ASSEMBLY HEADERS AND CONNECTIONS ARE AS SHOWN ON THE ORIGINAL CONSTRUCTION DOCUMENTS.



SEE ENCLOSED OFFICE: P&E
 10 West Main Street, Suite 200
 Hartford, CT 06103
 P: 860-526-1000 F: 860-526-1000

SUBMITTALS

NO.	DATE	DESCRIPTION	BY
1	03/24/04	Final	SAJ
2	04/01/04	As per client comment	SAJ
3	04/01/04	Revised as final	AD

DATE: 03/24/04
 TIME: 10:00 AM
 PROJECT: SNET
 10 WELLS ROAD
 NORWALK, CT 06850
 SHEET TITLE: ELEVATION
 SHEET NO.: A-2
 DRAWN BY: ADC
 CHECKED BY: ADC

NORTHEAST ELEVATION
 SCALE = 1/8" = 1'-0"



AT&T Towers
 5405 Windward Pkwy
 Alpharetta, GA 30004
 (770) 708-6100



Kevin Clements
 1117 Perimeter Ctr W, Suite W303
 Atlanta, GA 30338
 (678) 781-5061
kclements@gpdgroup.com

GPD# 2012857.08 Rev A
 October 8, 2012

RIGOROUS STRUCTURAL ANALYSIS REPORT

AT&T DESIGNATION: Site USID: SNET021
 Site FA: 10137488
 Site Name: NORWALK
 AT&T Project: Wireline Sprint Vision Modification 4-19-2012

ANALYSIS CRITERIA: Codes: TIA/EIA-222-F, 2003 IBC & 2005 CBC Supplement
 90-mph 3 second gust with 0" ice
 78-mph 3 second gust with 1/2" ice

SITE DATA: 10 Willard Rd, Norwalk, CT 06851, Fairfield County
 Latitude 41° 7' 41.987" N, Longitude 73° 23' 26.000" W
 Market: MA/RI/VT/NH/ME/CT
 350' Self Support Tower

Ms. Charlotte Malone,

GPD is pleased to submit this Rigorous Structural Analysis Report to determine the structural integrity of the aforementioned tower. The purpose of the analysis is to determine the suitability of the tower with the existing and proposed loading configuration detailed in the analysis report.

Analysis Results

Tower Stress Level with Proposed Equipment:	98.4%	Pass
Foundation Ratio with Proposed Equipment:	71.9%	Pass

We at GPD appreciate the opportunity of providing our continuing professional services to you and AT&T. If you have any questions or need further assistance on this or any other projects please do not hesitate to call.

Respectfully submitted,

David B. Granger, P.E.
 Connecticut #: 17557



SUMMARY & RESULTS

The purpose of this analysis was to verify whether the existing modified structure is capable of carrying the proposed loading configuration as specified by Sprint to AT&T Mobility. This report was commissioned by Ms. Charlotte Malone of AT&T Mobility.

The proposed coax shall be installed in a single row adjacent to the existing coax to 244'. Please see Appendix C for the proposed coax layout.

Modifications designed by GPD Group (Project #: 2012762.03, dated 3/15/2012) have been considered in this analysis.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Legs	91.5%	Pass
Diagonals	97.6%	Pass
Horizontals	96.1%	Pass
Redundant Members	98.3%	Pass
Internal Bracing	91.7%	Pass
Connection Bolts	98.4%	Pass
Anchor Rods	55.2%	Pass
Foundations	71.9%	Pass

ANALYSIS METHOD

RISA 3D (Version 9.1.1) and TNX Tower (Version 6.0.4.0), commercially available software programs, were used to create a three-dimensional model of the tower and calculate primary member stresses for various dead, live, wind, and ice load cases. Selected output from the analysis is included in Appendix B. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information.

DOCUMENTS PROVIDED

Document	Remarks	Source
Preliminary Tower Summary	Sprint Co-location document, uploaded 6/4/2012	Siterra
Site Lease Application	Sprint Application, dated 4/11/2012, uploaded 5/29/2012	Siterra
Tower Design	Not Provided	N/A
Foundation Design	Not Provided	N/A
AT&T Tower Sketch	SNET021 NORWALK Issue #: 8, dated 10/21/2010	Siterra
Geotechnical Report	WEI Project No. 2010-1161, dated 7/21/2010	Siterra
Foundation Mapping	WEI Project No. 2010-1161, dated 7/21/2010	Siterra
Previous Structural Analysis	GPD Group Project #: 2012762.03, dated 3/15/2012	Siterra
Previous Structural Analysis	CSEI Site ID: Norwalk, CT, dated 7/7/2009	Siterra
Tower Mapping	GPD and MTSI Northeast, dated 6/30/2010	Siterra
Modification Drawings	GPD Group Project #: 2012762.03, dated 3/15/2012	Siterra

ASSUMPTIONS

This rigorous structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

1. The tower member sizes and shapes are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The antenna configuration is as supplied and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
3. Some assumptions are made regarding antennas and mount sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type and industry practice.
4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
5. The soil parameters are as per data supplied or as assumed and stated in the calculations.
6. Foundations are properly designed and constructed to resist the original design loads indicated in the documents provided.
7. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
8. All welds and connections are assumed to develop at least the member capacity unless determined otherwise and explicitly stated in this report.
9. All prior structural modifications are assumed to be as per data supplied/available and to have been properly installed.
10. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.
11. All existing loading was obtained from the previous analysis by GPD Group Project #: 2012762.03, dated 3/15/2012, tower photos and the submitted PTS and is assumed to be accurate.
12. The proposed coax shall be installed in a single row adjacent to the existing coax to 244'. Please see Appendix C for the proposed coax layout.
13. The existing tower orientation is assumed based on the AT&T Tower Sketch SNET021 NORWALK Issue #: 8, dated 10/21/2010 and is assumed to be accurate.

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

DISCLAIMER OF WARRANTIES

GPD GROUP has not performed a recent site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD GROUP in connection with this Rigorous Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. All tower components have been assumed to only resist dead loads when no other loads are applied. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

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

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

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

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

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

APPENDIX A

Tower Analysis Summary Form

APPENDIX B

RISA Output Files and Calculations

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job SNET021 NORWALK	Page 1 of 8
	Project 2012857.08 Rev A	Date 20:11:09 10/08/12
	Client AT&T Mobility	Designed by awestrum

Tower Input Data

The main tower is a 4x free standing tower with an overall height of 350.00 ft above the ground line.
 The base of the tower is set at an elevation of 0.00 ft above the ground line.
 The face width of the tower is 12.00 ft at the top and 64.50 ft at the base.
 This tower is designed using the TIA/EIA-222-F standard.
 The following design criteria apply:

- Tower is located in Fairfield County, Connecticut.
- Basic wind speed of 90 mph.
- Nominal ice thickness of 0.7500 in.
- Ice density of 56 pcf.
- A wind speed of 38 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 50 mph.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.333.
- Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF5-50A (7/8 FOAM)	C	Yes	Ar (CfAe)	350.00 - 8.00	0.0000	-0.02	1	1	1.0000	1.0900		0.33
LDF5-50A (7/8 FOAM)	B	Yes	Ar (CfAe)	350.00 - 257.00	0.0000	-0.18	3	2	1.0000	1.0900		0.33
LDF5-50A (7/8 FOAM)	B	Yes	Ar (CfAe)	350.00 - 8.00	0.0000	-0.02	3	3	1.0000	1.0900		0.33
LDF5-50A (7/8 FOAM)	B	No	Ar (Leg)	350.00 - 337.00	0.0000	0.06	2	2	1.0000	1.0900		0.33
LDF6-50A (1-1/4 FOAM)	B	No	Ar (Leg)	350.00 - 8.00	0.0000	0.06	2	2	1.0000	1.5500		0.66
LDF7-50A (1-5/8 FOAM)	C	Yes	Ar (CfAe)	337.00 - 8.00	0.0000	0	12	6	1.0000	1.9800		0.82
LDF1-50A (1/4 FOAM)	C	Yes	Ar (CfAe)	337.00 - 8.00	0.0000	0	1	1	0.3500	0.3500		0.06
3/8" Fiber Cable	C	Yes	Ar (CfAe)	337.00 - 8.00	0.0000	0	1	1	0.3750	0.3750		0.10
5/8" DC Power Line	C	Yes	Ar (CfAe)	337.00 - 8.00	0.0000	0	2	2	0.6250	0.6250		0.33
LDF5-50A (7/8 FOAM)	B	No	Ar (Leg)	337.00 - 8.00	0.0000	0.06	3	3	1.0000	1.0900		0.33
LDF6-50A (1-1/4 FOAM)	B	Yes	Ar (CfAe)	308.00 - 303.00	0.0000	-0.05	1	1	1.0000	1.5500		0.66
LDF6-50A (1-1/4 FOAM)	B	Yes	Ar (CfAe)	303.00 - 8.00	0.0000	-0.05	2	2	1.0000	1.5500		0.66
3.5" Coax	D	Yes	Ar (CfAe)	289.00 - 8.00	0.0000	-0.45	1	1	1.0000	3.5000		0.50
LDF7-50A (1-5/8 FOAM)	B	Yes	Ar (CfAe)	269.00 - 263.00	0.0000	-0.15	1	1	1.0000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	B	Yes	Ar (CfAe)	263.00 - 8.00	0.0000	-0.15	7	7	1.0000	1.9800		0.82
LDF5-50A	B	Yes	Ar (CfAe)	257.00 - 8.00	0.0000	-0.18	4	2	1.0000	1.0900		0.33

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job SNET021 NORWALK	Page 2 of 8
	Project 2012857.08 Rev A	Date 20:11:09 10/08/12
	Client AT&T Mobility	Designed by awestrum

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
(7/8 FOAM) LDF7-50A	B	Yes	Ar (CfAe)	244.00 - 8.00	0.0000	0.1	6	6	1.0000	1.9800		0.82
(1-5/8 FOAM) 1-1/4 Hybriflex LDF7-50A	B	Yes	Ar (CfAe)	244.00 - 8.00	0.0000	0.08	3	3	1.0000	1.5500		0.66
(1-5/8 FOAM) LDF1-50A	A	Yes	Ar (CfAe)	230.00 - 8.00	0.0000	0.45	6	6	1.0000	1.9800		0.82
(1/4 FOAM) LDF4-50A	A	Yes	Ar (CfAe)	230.00 - 8.00	0.0000	0.45	1	1	0.3500	0.3500		0.06
(1/2 FOAM) 1" conduit	B	No	Ar (Leg)	206.00 - 36.00	0.0000	0.06	1	1	0.6300	0.6300		0.15
EW20	D	No	Ar (Leg)	55.00 - 27.00	0.0000	0.01	2	2	1.0000	1.0000		0.50
LDF4-50A	B	Yes	Af (CfAe)	50.00 - 8.00	0.0000	-0.06	1	1	1.0000	3.9832	12.5655	1.85
(1/2 FOAM) LDF4-50A	B	No	Ar (Leg)	36.00 - 32.00	0.0000	0.06	2	2	0.6300	0.6300		0.15
(1/2 FOAM) 1" conduit	D	No	Ar (Leg)	27.00 - 26.00	0.0000	0.01	3	2	1.0000	1.0000		0.50
1" conduit	D	No	Ar (Leg)	27.00 - 8.00	0.0000	0.01	4	2	1.0000	1.0000		0.50
Feedline	A	Yes	Af (CfAe)	230.00 - 8.00	0.0000	0.43	1	1	3.0000	3.0000	12.0000	8.40
Ladder (Af) Feedline	B	Yes	Af (CfAe)	350.00 - 8.00	0.0000	-0.15	1	1	3.0000	3.0000	12.0000	8.40
Ladder (Af) Feedline	B	Yes	Af (CfAe)	350.00 - 8.00	0.0000	-0.05	1	1	3.0000	3.0000	12.0000	8.40
Ladder (Af) Feedline	B	Yes	Af (CfAe)	244.00 - 8.00	0.0000	0.1	1	1	3.0000	3.0000	12.0000	8.40
Ladder (Af) Feedline	B	No	Af (Leg)	350.00 - 8.00	0.0000	0.03	1	1	3.0000	3.0000	12.0000	8.40
Ladder (Af) Feedline	C	Yes	Af (CfAe)	337.00 - 8.00	0.0000	0	1	1	3.0000	3.0000	12.0000	8.40
Ladder (Af) Climbing Ladder	C	No	Af (Leg)	350.00 - 8.00	0.0000	0.02	1	1	0.2500	0.0000	0.0000	7.90

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _{Front} ft ²	C _A A _{Side} ft ²	Weight lb
(2) 10' Omni	C	From Leg	0.00	0.0000	355.00	No Ice	2.00	25.00
			0.00			1/2" Ice	3.02	40.50
			5.00			1" Ice	4.07	62.47
10' Lattice Mount	C	From Leg	0.00	0.0000	350.00	No Ice	7.50	90.00
			0.00			1/2" Ice	9.50	130.00
			5.00			1" Ice	11.00	160.00
15' Omni	D	From Leg	0.00	0.0000	355.00	No Ice	5.19	57.69
			0.00			1/2" Ice	6.73	94.50
			5.00			1" Ice	8.28	140.97
10' P4x.237 Mount Pipe	D	From Leg	0.00	0.0000	350.00	No Ice	4.50	129.60
			0.00			1/2" Ice	5.24	160.91
			5.00			1" Ice	5.85	198.95
Flash Beacon Lighting	B	From Face	0.00	0.0000	355.00	No Ice	2.70	50.00
			0.00			1/2" Ice	3.10	70.00
			5.00			1" Ice	3.50	90.00

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job	SNET021 NORWALK	Page	3 of 8
	Project	2012857.08 Rev A	Date	20:11:09 10/08/12
	Client	AT&T Mobility	Designed by	awestrum

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	Ice	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb
10' P4x.237 Mount Pipe	B	From Face	0.00 0.00 5.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	4.50 5.24 5.85	4.50 5.24 5.85	129.60 160.91 198.95
15' Omni	A	From Face	6.00 0.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	5.19 6.73 8.28	5.19 6.73 8.28	57.69 94.50 140.97
10' Omni	B	From Face	6.00 -9.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	2.00 3.02 4.07	2.00 3.02 4.07	25.00 40.50 62.47
8' Omni	B	From Face	6.00 0.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	1.60 2.42 3.24	1.60 2.42 3.24	20.00 32.45 50.14
8' Omni	B	From Face	6.00 -6.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	1.60 2.42 3.24	1.60 2.42 3.24	20.00 32.45 50.14
8' Omni	D	From Face	6.00 -4.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	1.60 2.42 3.24	1.60 2.42 3.24	20.00 32.45 50.14
5' Omni	B	From Face	6.00 -3.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	1.00 1.39 1.70	1.00 1.39 1.70	15.00 22.86 34.14
3' x 2' Panel	B	From Leg	6.00 0.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	8.40 8.79 9.20	2.10 2.38 2.66	15.00 56.84 103.15
3' x 2' Panel	C	From Leg	6.00 0.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	8.40 8.79 9.20	2.10 2.38 2.66	15.00 56.84 103.15
3' x 2' Panel	D	From Leg	6.00 0.00 4.00	0.0000	350.00	No Ice 1/2" Ice 1" Ice	8.40 8.79 9.20	2.10 2.38 2.66	15.00 56.84 103.15
25' Square Platform	C	None		0.0000	350.00	No Ice 1/2" Ice 1" Ice	33.69 38.65 43.61	33.69 38.65 43.61	13782.00 16041.00 18300.00
(2) 7770.00	B	From Leg	5.00 0.00 2.00	0.0000	335.00	No Ice 1/2" Ice 1" Ice	5.88 6.31 6.75	2.93 3.27 3.63	39.00 71.63 109.06
(2) 7770.00	C	From Leg	5.00 0.00 2.00	0.0000	335.00	No Ice 1/2" Ice 1" Ice	5.88 6.31 6.75	2.93 3.27 3.63	39.00 71.63 109.06
(2) 7770.00	D	From Leg	5.00 0.00 2.00	0.0000	335.00	No Ice 1/2" Ice 1" Ice	5.88 6.31 6.75	2.93 3.27 3.63	39.00 71.63 109.06
(4) LGP21401	B	From Leg	5.00 0.00 2.00	0.0000	335.00	No Ice 1/2" Ice 1" Ice	1.29 1.45 1.61	0.23 0.31 0.40	14.10 21.26 30.32
(4) LGP21401	C	From Leg	5.00 0.00 2.00	0.0000	335.00	No Ice 1/2" Ice 1" Ice	1.29 1.45 1.61	0.23 0.31 0.40	14.10 21.26 30.32
(4) LGP21401	D	From Leg	5.00 0.00 2.00	0.0000	335.00	No Ice 1/2" Ice 1" Ice	1.29 1.45 1.61	0.23 0.31 0.40	14.10 21.26 30.32
AM-X-CD-14-65-00T-RET	B	From Leg	5.00 0.00 2.00	0.0000	335.00	No Ice 1/2" Ice 1" Ice	5.51 5.90 6.30	2.83 3.14 3.47	36.40 68.35 104.76
AM-X-CD-14-65-00T-RET	C	From Leg	5.00 0.00 2.00	0.0000	335.00	No Ice 1/2" Ice 1" Ice	5.51 5.90 6.30	2.83 3.14 3.47	36.40 68.35 104.76

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job SNET021 NORWALK	Page 4 of 8
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	Client AT&T Mobility	Designed by awestrum

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight	
			Horz	Lateral						
			ft	ft	°	ft	ft ²	ft ²	lb	
AM-X-CD-14-65-00T-RET	D	From Leg	5.00	0.00	0.0000	335.00	No Ice	5.51	2.83	36.40
			0.00	0.00			1/2" Ice	5.90	3.14	68.35
			2.00	0.00			1" Ice	6.30	3.47	104.76
(2) RBS 6000	B	From Leg	5.00	0.00	0.0000	335.00	No Ice	2.94	1.19	55.00
			0.00	0.00			1/2" Ice	3.17	1.35	74.32
			2.00	0.00			1" Ice	3.41	1.52	96.56
(2) RBS 6000	C	From Leg	5.00	0.00	0.0000	335.00	No Ice	2.94	1.19	55.00
			0.00	0.00			1/2" Ice	3.17	1.35	74.32
			2.00	0.00			1" Ice	3.41	1.52	96.56
(2) RBS 6000	D	From Leg	5.00	0.00	0.0000	335.00	No Ice	2.94	1.19	55.00
			0.00	0.00			1/2" Ice	3.17	1.35	74.32
			2.00	0.00			1" Ice	3.41	1.52	96.56
DC6-48-60-18-8F	D	From Leg	5.00	0.00	0.0000	335.00	No Ice	2.22	2.22	20.00
			0.00	0.00			1/2" Ice	2.44	2.44	39.25
			2.00	0.00			1" Ice	2.66	2.66	61.47
6' Yagi	B	From Leg	5.00	0.00	0.0000	335.00	No Ice	1.20	1.20	30.00
			0.00	0.00			1/2" Ice	1.80	1.80	39.39
			2.00	0.00			1" Ice	2.17	2.17	52.81
5' x 5' Corner Service Platform	A	From Leg	2.50	0.00	0.0000	335.00	No Ice	4.00	8.75	250.00
			0.00	0.00			1/2" Ice	4.80	10.50	480.00
			0.00	0.00			1" Ice	5.60	12.25	710.00
5' x 5' Corner Service Platform	B	From Leg	2.50	0.00	0.0000	335.00	No Ice	4.00	8.75	250.00
			0.00	0.00			1/2" Ice	4.80	10.50	480.00
			0.00	0.00			1" Ice	5.60	12.25	710.00
5' x 5' Corner Service Platform	C	From Leg	2.50	0.00	0.0000	335.00	No Ice	4.00	8.75	250.00
			0.00	0.00			1/2" Ice	4.80	10.50	480.00
			0.00	0.00			1" Ice	5.60	12.25	710.00
5' x 5' Corner Service Platform	D	From Leg	2.50	0.00	0.0000	335.00	No Ice	4.00	8.75	250.00
			0.00	0.00			1/2" Ice	4.80	10.50	480.00
			0.00	0.00			1" Ice	5.60	12.25	710.00
10' T-boom (1)	A	From Leg	2.50	0.00	0.0000	335.00	No Ice	18.00	9.00	500.00
			0.00	0.00			1/2" Ice	23.40	11.70	600.00
			2.00	0.00			1" Ice	28.80	14.40	700.00
10' T-boom (1)	B	From Leg	2.50	0.00	0.0000	335.00	No Ice	18.00	9.00	500.00
			0.00	0.00			1/2" Ice	23.40	11.70	600.00
			2.00	0.00			1" Ice	28.80	14.40	700.00
10' T-boom (1)	C	From Leg	2.50	0.00	0.0000	335.00	No Ice	18.00	9.00	500.00
			0.00	0.00			1/2" Ice	23.40	11.70	600.00
			2.00	0.00			1" Ice	28.80	14.40	700.00
10' T-boom (1)	D	From Leg	2.50	0.00	0.0000	335.00	No Ice	18.00	9.00	500.00
			0.00	0.00			1/2" Ice	23.40	11.70	600.00
			2.00	0.00			1" Ice	28.80	14.40	700.00
W8 x 10'	A	From Face	4.00	0.00	0.0000	332.00	No Ice	9.33	0.47	200.00
			0.00	0.00			1/2" Ice	10.17	0.56	260.38
			0.00	0.00			1" Ice	11.01	0.67	329.63
W8 x 10'	B	From Face	4.00	0.00	0.0000	332.00	No Ice	9.33	0.47	200.00
			0.00	0.00			1/2" Ice	10.17	0.56	260.38
			0.00	0.00			1" Ice	11.01	0.67	329.63
W8 x 10'	C	From Face	4.00	0.00	0.0000	332.00	No Ice	9.33	0.47	200.00
			0.00	0.00			1/2" Ice	10.17	0.56	260.38
			0.00	0.00			1" Ice	11.01	0.67	329.63
W8 x 10'	D	From Face	4.00	0.00	0.0000	332.00	No Ice	9.33	0.47	200.00
			0.00	0.00			1/2" Ice	10.17	0.56	260.38
			0.00	0.00			1" Ice	11.01	0.67	329.63
3" x 64" mount pipe	B	From Leg	1.00	0.00	0.0000	308.00	No Ice	1.49	1.49	40.53
			0.00	0.00			1/2" Ice	1.82	1.82	52.34
			0.00	0.00			1" Ice	2.15	2.15	67.87

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	Client	AT&T Mobility	Designed by	awestrum

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb
10' Omni	A	From Leg	2.00 0.00 5.00	0.0000	303.00	No Ice 2.00 1/2" Ice 3.02 1" Ice 4.07	2.00 3.02 4.07	25.00 40.50 62.47
2' Standoff	A	From Leg	1.00 0.00 0.00	0.0000	303.00	No Ice 1.36 1/2" Ice 2.45 1" Ice 3.50	1.36 2.45 3.50	20.00 40.00 64.00
10' Omni	A	From Leg	2.00 0.00 5.00	0.0000	289.00	No Ice 2.00 1/2" Ice 3.02 1" Ice 4.07	2.00 3.02 4.07	25.00 40.50 62.47
2' Standoff	A	From Leg	1.00 0.00 0.00	0.0000	289.00	No Ice 1.36 1/2" Ice 2.45 1" Ice 3.50	1.36 2.45 3.50	20.00 40.00 64.00
APX16PV-16PVL	A	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 6.65 1/2" Ice 7.08 1" Ice 7.52	1.98 2.30 2.63	39.60 70.65 106.36
APX16PV-16PVL	B	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 6.65 1/2" Ice 7.08 1" Ice 7.52	1.98 2.30 2.63	39.60 70.65 106.36
APX16PV-16PVL	C	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 6.65 1/2" Ice 7.08 1" Ice 7.52	1.98 2.30 2.63	39.60 70.65 106.36
(2) TMA (GENERIC)	A	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 0.68 1/2" Ice 0.80 1" Ice 0.92	0.45 0.56 0.67	10.00 20.00 30.00
(2) TMA (GENERIC)	B	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 0.68 1/2" Ice 0.80 1" Ice 0.92	0.45 0.56 0.67	10.00 20.00 30.00
(2) TMA (GENERIC)	C	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 0.68 1/2" Ice 0.80 1" Ice 0.92	0.45 0.56 0.67	10.00 20.00 30.00
(2) RET	A	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 0.24 1/2" Ice 0.31 1" Ice 0.39	0.15 0.20 0.27	2.20 4.44 7.71
(2) RET	B	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 0.24 1/2" Ice 0.31 1" Ice 0.39	0.15 0.20 0.27	2.20 4.44 7.71
(2) RET	C	From Leg	6.00 0.00 0.00	0.0000	263.00	No Ice 0.24 1/2" Ice 0.31 1" Ice 0.39	0.15 0.20 0.27	2.20 4.44 7.71
2' square panel	C	From Leg	6.00 0.00 6.00	0.0000	263.00	No Ice 5.60 1/2" Ice 5.92 1" Ice 6.24	0.52 0.67 0.83	30.00 53.43 80.30
Pirod 6' Side Mount Standoff (1)	A	From Leg	3.00 0.00 0.00	0.0000	263.00	No Ice 4.97 1/2" Ice 6.12 1" Ice 7.27	4.97 6.12 7.27	70.00 130.00 190.00
Pirod 6' Side Mount Standoff (1)	B	From Leg	3.00 0.00 0.00	0.0000	263.00	No Ice 4.97 1/2" Ice 6.12 1" Ice 7.27	4.97 6.12 7.27	70.00 130.00 190.00
Pirod 6' Side Mount Standoff (1)	C	From Leg	3.00 0.00 0.00	0.0000	263.00	No Ice 4.97 1/2" Ice 6.12 1" Ice 7.27	4.97 6.12 7.27	70.00 130.00 190.00
2' square panel	C	From Leg	1.00 0.00 0.00	0.0000	257.00	No Ice 5.60 1/2" Ice 5.92 1" Ice 6.24	0.52 0.67 0.83	30.00 53.43 80.30
36" Service Platform	A	From Face	0.00 0.00 0.00	0.0000	252.00	No Ice 4.00 1/2" Ice 4.80 1" Ice 5.60	8.75 10.50 12.25	250.00 480.00 710.00

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA}		Weight	
			Horz	Lateral			Front	Side		
			ft	ft	°	ft	ft ²	ft ²	lb	
36" Service Platform	B	From Face	0.00		0.0000	252.00	No Ice	4.00	8.75	250.00
			0.00				1/2" Ice	4.80	10.50	480.00
			0.00				1" Ice	5.60	12.25	710.00
(2) DB980H90E-M	B	From Leg	4.00		0.0000	244.00	No Ice	3.80	2.19	8.50
			0.00				1/2" Ice	4.18	2.56	28.62
			0.00				1" Ice	4.56	2.92	53.41
(2) DB950F85T4E-M	C	From Leg	4.00		0.0000	244.00	No Ice	2.53	4.19	10.50
			0.00				1/2" Ice	2.90	4.57	33.82
			0.00				1" Ice	3.27	4.96	61.89
(2) DB950F85T4E-M	D	From Leg	4.00		0.0000	244.00	No Ice	2.53	4.19	10.50
			0.00				1/2" Ice	2.90	4.57	33.82
			0.00				1" Ice	3.27	4.96	61.89
APXVSP18-C-A20	B	From Leg	4.00		0.0000	244.00	No Ice	8.26	5.28	57.00
			0.00				1/2" Ice	8.81	5.74	106.52
			0.00				1" Ice	9.36	6.20	162.12
APXVSP18-C-A20	C	From Leg	4.00		0.0000	244.00	No Ice	8.26	5.28	57.00
			0.00				1/2" Ice	8.81	5.74	106.52
			0.00				1" Ice	9.36	6.20	162.12
APXVSP18-C-A20	D	From Leg	4.00		0.0000	244.00	No Ice	8.26	5.28	57.00
			0.00				1/2" Ice	8.81	5.74	106.52
			0.00				1" Ice	9.36	6.20	162.12
1900 MHz RRH	B	From Leg	4.00		0.0000	244.00	No Ice	2.97	2.63	50.00
			0.00				1/2" Ice	3.21	2.86	74.49
			0.00				1" Ice	3.46	3.11	102.29
800 MHz RRH	B	From Leg	4.00		0.0000	244.00	No Ice	2.97	2.63	50.00
			0.00				1/2" Ice	3.21	2.86	74.49
			0.00				1" Ice	3.46	3.11	102.29
1900 MHz RRH	C	From Leg	4.00		0.0000	244.00	No Ice	2.97	2.63	50.00
			0.00				1/2" Ice	3.21	2.86	74.49
			0.00				1" Ice	3.46	3.11	102.29
800 MHz RRH	C	From Leg	4.00		0.0000	244.00	No Ice	2.97	2.63	50.00
			0.00				1/2" Ice	3.21	2.86	74.49
			0.00				1" Ice	3.46	3.11	102.29
1900 MHz RRH	D	From Leg	4.00		0.0000	244.00	No Ice	2.97	2.63	50.00
			0.00				1/2" Ice	3.21	2.86	74.49
			0.00				1" Ice	3.46	3.11	102.29
800 MHz RRH	D	From Leg	4.00		0.0000	244.00	No Ice	2.97	2.63	50.00
			0.00				1/2" Ice	3.21	2.86	74.49
			0.00				1" Ice	3.46	3.11	102.29
12' T-Frame (GPD)	B	From Leg	2.00		0.0000	244.00	No Ice	12.20	3.51	360.00
			0.00				1/2" Ice	17.60	5.38	490.00
			0.00				1" Ice	23.00	7.25	620.00
12' T-Frame (GPD)	C	From Leg	2.00		0.0000	244.00	No Ice	12.20	3.51	360.00
			0.00				1/2" Ice	17.60	5.38	490.00
			0.00				1" Ice	23.00	7.25	620.00
12' T-Frame (GPD)	D	From Leg	2.00		0.0000	244.00	No Ice	12.20	3.51	360.00
			0.00				1/2" Ice	17.60	5.38	490.00
			0.00				1" Ice	23.00	7.25	620.00
800 10504	A	From Leg	4.00		0.0000	230.00	No Ice	3.35	1.87	17.64
			0.00				1/2" Ice	3.70	2.20	35.71
			0.00				1" Ice	4.05	2.53	58.06
800 10504	B	From Leg	4.00		0.0000	230.00	No Ice	3.35	1.87	17.64
			0.00				1/2" Ice	3.70	2.20	35.71
			0.00				1" Ice	4.05	2.53	58.06
800 10504	D	From Leg	4.00		0.0000	230.00	No Ice	3.35	1.87	17.64
			0.00				1/2" Ice	3.70	2.20	35.71
			0.00				1" Ice	4.05	2.53	58.06

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A		Weight
			Horz	Lateral			Front	Side	
			ft	ft	°	ft	ft ²	ft ²	lb
860 10025	A	From Leg	4.00	0.0000	230.00	No Ice	0.18	0.15	1.20
			0.00			1/2" Ice	0.25	0.21	2.85
			0.00			1" Ice	0.33	0.29	5.48
860 10025	B	From Leg	4.00	0.0000	230.00	No Ice	0.18	0.15	1.20
			0.00			1/2" Ice	0.25	0.21	2.85
			0.00			1" Ice	0.33	0.29	5.48
860 10025	D	From Leg	4.00	0.0000	230.00	No Ice	0.18	0.15	1.20
			0.00			1/2" Ice	0.25	0.21	2.85
			0.00			1" Ice	0.33	0.29	5.48
12' T-Frame (GPD)	B	From Leg	2.00	0.0000	230.00	No Ice	12.20	3.51	360.00
			0.00			1/2" Ice	17.60	5.38	490.00
			0.00			1" Ice	23.00	7.25	620.00
12' T-Frame (GPD)	C	From Leg	2.00	0.0000	230.00	No Ice	12.20	3.51	360.00
			0.00			1/2" Ice	17.60	5.38	490.00
			0.00			1" Ice	23.00	7.25	620.00
12' T-Frame (GPD)	D	From Leg	2.00	0.0000	230.00	No Ice	12.20	3.51	360.00
			0.00			1/2" Ice	17.60	5.38	490.00
			0.00			1" Ice	23.00	7.25	620.00
6' Yagi	B	From Leg	1.00	0.0000	206.00	No Ice	1.20	1.20	30.00
			0.00			1/2" Ice	1.80	1.80	39.39
			3.00			1" Ice	2.17	2.17	52.81
Side Light	A	From Leg	1.00	0.0000	183.00	No Ice	0.33	0.33	7.00
			0.00			1/2" Ice	0.47	0.47	7.05
			0.00			1" Ice	0.60	0.60	7.10
Side Light	C	From Leg	1.00	0.0000	183.00	No Ice	0.33	0.33	7.00
			0.00			1/2" Ice	0.47	0.47	7.05
			0.00			1" Ice	0.60	0.60	7.10
36" Service Platform	B	From Face	0.00	0.0000	125.00	No Ice	4.00	8.75	250.00
			0.00			1/2" Ice	4.80	10.50	480.00
			0.00			1" Ice	5.60	12.25	710.00
36" Service Platform	C	From Face	0.00	0.0000	125.00	No Ice	4.00	8.75	250.00
			0.00			1/2" Ice	4.80	10.50	480.00
			0.00			1" Ice	5.60	12.25	710.00
6' Ice Shield	D	From Leg	3.00	-5.0000	55.00	No Ice	2.10	1.40	400.00
			0.00			1/2" Ice	2.59	1.73	527.69
			6.00			1" Ice	3.09	2.08	663.54
2' Standoff	A	From Leg	1.00	0.0000	50.00	No Ice	1.36	1.36	20.00
			0.00			1/2" Ice	2.45	2.45	40.00
			0.00			1" Ice	3.50	3.50	64.00
GPS	C	From Leg	0.00	0.0000	36.00	No Ice	0.17	0.17	0.87
			0.00			1/2" Ice	0.24	0.24	3.85
			0.00			1" Ice	0.32	0.32	7.85
GPS	C	From Leg	0.00	0.0000	26.00	No Ice	0.17	0.17	0.87
			0.00			1/2" Ice	0.24	0.24	3.85
			0.00			1" Ice	0.32	0.32	7.85

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz	Lateral							
				ft	ft	°	°	ft	ft	ft ²	lb	
6' Dish	D	Paraboloid w/o	From	1.00	-5.0000			55.00	6.00	No Ice	28.27	140.00

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Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight lb
		Radome	Leg	0.00					1/2" Ice 29.07	290.00
				0.00					1" Ice 29.87	440.00
2' MW	A	Paraboloid w/Radome	From Leg	2.00	-90.0000		50.00	2.00	No Ice 3.14	40.00
				0.00					1/2" Ice 3.41	67.13
				0.00					1" Ice 3.68	97.32
4' Dish w/o Radome	C	Paraboloid w/o Radome	From Leg	1.00	0.0000		32.00	4.00	No Ice 12.57	80.00
				0.00					1/2" Ice 13.10	90.00
				0.00					1" Ice 13.62	100.00
4' Dish w/o Radome	C	Paraboloid w/o Radome	From Leg	1.00	0.0000		27.00	4.00	No Ice 12.57	80.00
				0.00					1/2" Ice 13.10	90.00
				0.00					1" Ice 13.62	100.00

Company : GPD Group
 Designer : awestrუმ
 Job Number : 2012857.08 Rev A

Oct 8, 2012
 8:13 PM
 Checked By:

SNET021 NORWALK

Hot Rolled Steel Properties

Label	E [ksi]	G [ksil]	Nu	Therm (1E5 F)	Density [k/ft.3]	Yield [ksi]	Rv	Fu [ksi]	Rt
1	A572-50	29000	.295	.65	.49	50	1.1	58	1.2
2	A500-46	29000	.295	.65	.49	46	1.2	58	1.1
3	A36	29000	.295	.65	.49	36	1.5	58	1.2

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iw [in4]	Izz [in4]	J [in4]
1	TWR LEG T1	Column	Single Angle	A36	Typical	7.11	24.2	24.2	.954
2	TWR HTOP GIRT T1	Beam	Channel	A36	Typical	2.87	.957	21.2	.1
3	TWR DIAG T1	Column	Single Angle	A36	Typical	2.09	2.45	2.45	.073
4	TWR HSTEP T1	Beam	Single Angle	A36	Typical	1.31	.74	1.17	.03
5	TWR LEG T2	Column	Single Angle	A36	Typical	7.11	24.2	24.2	.954
6	TWR HORZ T2	Beam	Channel	A36	Typical	2.87	.957	21.2	.1
7	TWR DIAG T2	Column	Single Angle	A36	Typical	2.09	2.45	2.45	.073
8	TWR HSTEP T2	Beam	Single Angle	A36	Typical	1.31	.74	1.17	.03
9	TWR LEG T3	Column	Single Angle	A36	Typical	9.73	31.9	31.9	2.51
10	TWR HORZ T3	Beam	Double Angle	A36	Typical	2.375	3.628	1.406	.049
11	TWR INNER SUPP T3	Beam	Single Angle	A36	Typical	1.31	.74	1.17	.03
12	TWR INNER CORNER1 T3	Beam	Single Angle	A36	Typical	.9	.535	.535	.011
13	TWR INNER DIAMOND T3	Beam	Single Angle	A36	Typical	1.62	1.009	1.02	.019
14	TWR DIAG T3	Column	Single Angle	A36	Typical	2.25	3.56	2.55	.078
15	TWR HSTEP T3	Beam	Single Angle	A36	Typical	1.31	.74	1.17	.03
16	TWR HORZ T4	Column	Single Angle	A36	Typical	9.73	31.9	31.9	2.51
17	TWR DIAG T4	Column	Double Angle	A36	Typical	2.63	3.373	2.35	.055
18	TWR RED HORZ T4	Beam	Double Angle	A36	Typical	2.375	3.628	1.406	.049
19	TWR RED DIAG T4	Beam	Double Angle	A36	Typical	.809	.292	.511	.01
20	TWR INNER SUPP T4	Beam	Double Angle	A36	Typical	.809	.292	.511	.01
21	TWR INNER CORNER1 T4	Beam	Single Angle	A36	Typical	1.31	.74	1.17	.03
22	TWR INNER DIAMOND T4	Column	Single Angle	A36	Typical	.9	.535	.535	.011
23	TWR LEG T5	Column	Single Angle	A36	Typical	1.62	1.009	1.02	.019
24	TWR HORZ T5	Column	Double Angle	A36	Typical	9.73	31.9	31.9	2.51
25	TWR RED HORZ T5	Beam	Double Angle	A36	Typical	2.38	3.347	1.41	.049
26	TWR RED DIAG T5	Beam	Double Angle	A36	Typical	2.375	3.628	1.406	.049
27	TWR INNER SUPP T5	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
28	TWR INNER CORNER1 T5	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
29	TWR INNER DIAMOND T5	Column	Double Angle	A36	Typical	1.62	1.009	1.02	.019
30	TWR LEG T6	Column	Single Angle	A36	Typical	11.4	69.7	69.7	2.21
31	TWR HORZ T6	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049
32	TWR DIAG T6	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049

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Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
33	TWR HORZ T6	Beam	Double Angle	A36	Typical	2.38	3.347	1.41	.049
34	TWR DIAG T6	Column	Double Angle	A36	Typical	2.375	3.628	1.406	.049
35	TWR RED HORZ T6	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
36	TWR RED DIAG T6	Column	Double Angle	A36	Typical	.9	.535	.535	.011
37	TWR INNER SUPP T6	Beam	Double Angle	A36	Typical	1.62	1.009	1.02	.019
38	TWR INNER CORNER1 T6	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
39	TWR INNER DIAMOND T6	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
40	TWR LEG T7	Column	Single Angle	A36	Typical	13.2	79.6	79.6	3.46
41	TWR HORZ T7	Beam	Double Angle	A36	Typical	2.63	3.373	2.35	.055
42	TWR DIAG T7	Column	Double Angle	A36	Typical	3.242	7.385	1.796	.106
43	TWR RED HORZ T7	Beam	Double Angle	A36	Typical	.809	.292	.511	.01
44	TWR RED HORZ 2 T7	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
45	TWR RED DIAG T7	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
46	TWR RED DIAG 2 T7	Column	Double Angle	A36	Typical	1.62	1.009	1.02	.019
47	TWR RED SUBHOR T7	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
48	TWR RED HIP 2 T7	Beam	Double Angle	A36	Typical	2.48	2.86	2.86	.123
49	TWR RED HIPDIA T7	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
50	TWR INNER SUPP T7	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
51	TWR INNER CORNER1 T7	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
52	TWR INNER MIDGIRT T7	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
53	TWR INNER DIAMOND T7	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
54	TWR LEG T8	Column	Single Angle	A36	Typical	16.7	98	98	7.13
55	TWR HORZ T8	Beam	Double Angle	A36	Typical	2.63	3.373	2.35	.055
56	TWR DIAG T8	Column	Double Angle	A36	Typical	3.242	7.385	1.796	.106
57	TWR RED HORZ T8	Beam	Double Angle	A36	Typical	.809	.292	.511	.01
58	TWR RED HORZ 2 T8	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
59	TWR RED DIAG T8	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
60	TWR RED DIAG 2 T8	Column	Double Angle	A36	Typical	1.62	1.009	1.02	.019
61	TWR RED SUBHOR T8	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
62	TWR RED HIP 2 T8	Beam	Double Angle	A36	Typical	2.86	4.32	4.32	.141
63	TWR RED HIPDIA T8	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
64	TWR INNER SUPP T8	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
65	TWR INNER CORNER1 T8	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
66	TWR INNER MIDGIRT T8	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
67	TWR INNER DIAMOND T8	Beam	Double Angle	A36	Typical	2.64	4.462	1.47	.059
68	TWR LEG T9	Column	Single Angle	A500-46	Typical	16.7	98	98	7.13
69	TWR HORZ T9	Beam	Double Angle	A36	Typical	2.88	3.4	3.6	.06
70	TWR DIAG T9	Column	Double Angle	A36	Typical	3.555	11.22	1.878	.116
71	TWR RED HORZ T9	Beam	Double Angle	A36	Typical	.809	.292	.511	.01
72	TWR RED HORZ 2 T9	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
73	TWR RED DIAG T9	Column	Double Angle	A36	Typical	1.09	.948	.948	.014

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Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iy [in4]	Izz [in4]	J [in4]
74	TWR RED DIAG 2 T9	Column	Double Angle	A36	Typical	2.38	1.361	2.17	.049
75	TWR RED SUBHOR T9	Beam	Double Angle	A36	Typical	2.63	4.519	1.49	.055
76	TWR RED VERT T9	Beam	Double Angle	A36	Typical	1.19	.692	.692	.026
77	TWR RED HIP 2 T9	Beam	Double Angle	A36	Typical	2.86	4.32	4.32	.141
78	TWR RED HIPDIA T9	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
79	TWR INNER SUPP T9	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
80	TWR INNER CORNER1 T9	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
81	TWR INNER MIDGIRT T9	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
82	TWR INNER DIAMOND T9	Beam	Double Angle	A36	Typical	2.64	4.462	1.47	.059
83	TWR LEG T10	Column	Single Angle	A500-46	Typical	16.7	98	98	7.13
84	TWR HORZ T10	Beam	Double Angle	A36	Typical	3.555	4.674	4.381	.116
85	TWR DIAG T10	Column	Double Angle	A36	Typical	3.867	11.274	3.167	.126
86	TWR RED HORZ 2 T10	Beam	Double Angle	A36	Typical	.809	.292	.511	.01
87	TWR RED HORZ 2 T10	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
88	TWR RED DIAG T10	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
89	TWR RED DIAG 2 T10	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
90	TWR RED SUBHOR T10	Beam	Double Angle	A36	Typical	2.88	4.525	2.49	.06
91	TWR RED SUBDIA T10	Column	Double Angle	A36	Typical	2.63	2.631	2.35	.055
92	TWR RED SUBDIA2 T10	Column	Double Angle	A36	Typical	3.55	5.636	2.99	.119
93	TWR RED VERT T10	Column	Single Angle	A36	Typical	1.44	1.24	1.24	.032
94	TWR RED HIPMOD T10	Beam	Double Angle	A36	Typical	1.19	.692	.692	.026
95	TWR RED HIP 2 T10	Beam	Double Angle	A36	Typical	3.38	10.688	2.71	.07
96	TWR RED HIP 3 T10	Beam	Double Angle	A36	Typical	1.44	1.23	1.23	.031
97	TWR RED HIPDIA T10	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049
98	TWR INNER SUPP T10	Beam	Double Angle	A36	Typical	3.38	10.688	2.71	.07
99	TWR INNER CORNER1 T10	Beam	Double Angle	A36	Typical	1.31	.734	1.16	.03
100	TWR INNER LACE T10	Beam	Double Angle	A36	Typical	1.44	1.23	1.23	.031
101	TWR LEG T11	Column	Single Angle	A500-46	Typical	16.7	98	98	7.13
102	TWR HORZ T11	Beam	Double Angle	A36	Typical	3.867	7.493	4.66	.126
103	TWR DIAG T11	Column	Double Angle	A36	Typical	4.594	13.58	3.693	.215
104	TWR RED HORZ T11	Beam	Double Angle	A36	Typical	.809	.292	.511	.01
105	TWR RED HORZ 2 T11	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
106	TWR RED DIAG T11	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
107	TWR RED DIAG 2 T11	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
108	TWR RED SUBHOR T11	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
109	TWR RED SUBDIA T11	Column	Double Angle	A36	Typical	3.55	5.636	2.99	.119
110	TWR RED SUBDIA2 T11	Column	Double Angle	A36	Typical	1.19	.692	.692	.026
111	TWR RED HIP T11	Beam	Double Angle	A36	Typical	1.19	.692	.692	.026
112	TWR RED HIP 2 T11	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
113	TWR RED HIP 3 T11	Beam	Double Angle	A36	Typical	1.56	1.3	1.92	.036
114	TWR RED HIPDIA T11	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049

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Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design_List	Material	Design_Rules	A [in2]	Iy [in4]	Izz [in4]	J [in4]
115	TWR INNER SUPP T11	Beam	Double Angle	A36	Typical	3.38	10.688	2.71	.07
116	TWR INNER CORNER1 T11	Beam	Double Angle	A36	Typical	1.31	.734	1.16	.03
117	TWR INNER MIDSTRUT T11	Beam	Double Angle	A36	Typical	1.56	1.3	1.92	.036
118	TWR LEG T12	Column	Single Angle	A572-50	Typical	15	.89	.89	5.08
119	TWR HORZ T12	Beam	Double Angle	A36	Typical	4.492	11.382	7.118	.146
120	TWR DIAG T12	Column	Double Angle	A36	Typical	4.594	13.58	3.693	.215
121	TWR RED HORZ T12	Beam	Double Angle	A36	Typical	.809	.292	.511	.01
122	TWR RED HORZ 2 T12	Beam	Double Angle	A36	Typical	2.38	2.625	1.41	.049
123	TWR RED DIAG T12	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
124	TWR RED DIAG 2 T12	Column	Double Angle	A36	Typical	5	12.8	5.72	.246
125	TWR RED SUBHOR T12	Beam	Double Angle	A36	Typical	5.71	18.5	8.64	.282
126	TWR RED SUBDIA T12	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
127	TWR RED SUBDIA2 T12	Column	Double Angle	A36	Typical	4.21	8.974	4.89	.146
128	TWR RED HIPMOD T12	Beam	Double Angle	A36	Typical	1.19	.692	.692	.026
129	TWR RED HIP 3 T12	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
130	TWR RED HIPDIA T12	Beam	Double Angle	A36	Typical	1.69	2	2	.039
131	TWR RED HIPDIA T12	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049
132	TWR INNER SUPP T12	Beam	Double Angle	A36	Typical	3.875	15.221	4.332	.081
133	TWR INNER CORNER1 T12	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
134	TWR INNER MIDSTRUT T12	Beam	Double Angle	A36	Typical	1.69	2	2	.039
135	TWR LEG T13	Column	Single Angle	A572-50	Typical	15	.89	.89	5.08
136	TWR HORZ T13	Beam	Double Angle	A36	Typical	3.867	7.493	4.66	.126
137	TWR DIAG T13	Column	Double Angle	A36	Typical	4.594	13.58	3.693	.215
138	TWR RED HORZ T13	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
139	TWR RED HORZ 2 T13	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
140	TWR RED DIAG T13	Column	Double Angle	A36	Typical	1.8	1.966	1.09	.021
141	TWR RED DIAG 2 T13	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
142	TWR RED SUBHOR T13	Beam	Double Angle	A36	Typical	3.13	7.169	2.61	.065
143	TWR RED SUBDIA T13	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
144	TWR RED VERT T13	Column	Single Angle	A36	Typical	1.19	.703	.703	.025
145	TWR RED MIDVERT T13	Column	Single Angle	A36	Typical	1.19	.703	.703	.025
146	TWR RED HIP T13	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
147	TWR RED HIP 2 T13	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
148	TWR RED HIP 3 T13	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
149	TWR RED HIPDIA T13	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049
150	TWR RED HIPDIACK T13	Column	Double Angle	A36	Typical	.9	.535	.535	.011
151	TWR INNER SUPP T13	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
152	TWR INNER CORNER1 T13	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
153	TWR INNER CORNER2 T13	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
154	TWR INNER CORNER3 T13	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
155	TWR INNER MIDSTRUT T13	Beam	Double Angle	A36	Typical	2.18	3.352	1.9	.027

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Label	Shape	Type	Design List Single Angle	Material	Design Rules	A Jin2l	Ivw Jin4l	Izz Jin4l	J Jin4l
156	TWR LEG T14	Column	Double Angle	A572-50	Typical	15	89	89	5.08
157	TWR HORZ T14	Beam	Double Angle	A36	Typical	4.18	7.548	6.762	1.36
158	TWR DIAG T14	Column	Double Angle	A36	Typical	4.969	19.587	3.84	.233
159	TWR RED HORZ T14	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
160	TWR RED HORZ 2 T14	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
161	TWR RED DIAG T14	Column	Double Angle	A36	Typical	1.8	1.966	1.09	.021
162	TWR RED DIAG 2 T14	Column	Double Angle	A36	Typical	5	12.8	5.72	.246
163	TWR RED SUBHOR T14	Beam	Double Angle	A36	Typical	3.13	7.169	2.61	.065
164	TWR RED SUBDIA T14	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
165	TWR RED VERT T14	Column	Single Angle	A36	Typical	1.19	.703	.703	.025
166	TWR RED MIDVERT T14	Column	Single Angle	A36	Typical	1.19	.703	.703	.025
167	TWR RED HIP T14	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
168	TWR RED HIP 2 T14	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
169	TWR RED HIP 3 T14	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
170	TWR RED HIPDIA T14	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049
171	TWR RED HIPDIAKICK T14	Column	Double Angle	A36	Typical	.9	.535	.535	.011
172	TWR INNER SUPP T14	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
173	TWR INNER CORNER1 T14	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
174	TWR INNER CORNER2 T14	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
175	TWR INNER CORNER3 T14	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
176	TWR INNER MIDSTRUT T14	Beam	Double Angle	A36	Typical	2.18	3.352	1.9	.027
177	TWR LEG T15	Column	Single Angle	A572-50	Typical	15	89	89	5.08
178	TWR HORZ T15	Beam	Double Angle	A36	Typical	4.18	7.548	6.762	1.36
179	TWR DIAG T15	Column	Double Angle	A36	Typical	4.969	19.587	3.84	.233
180	TWR RED KICK T15	Column	Double Angle	A36	Typical	1.19	.692	.692	.026
181	TWR RED HORZ T15	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
182	TWR RED HORZ 2 T15	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
183	TWR RED DIAG T15	Column	Double Angle	A36	Typical	1.8	1.966	1.09	.021
184	TWR RED DIAG 2 T15	Column	Double Angle	A36	Typical	5	12.8	5.72	.246
185	TWR RED SUBHOR T15	Beam	Double Angle	A36	Typical	3.38	10.688	2.71	.07
186	TWR RED SUBDIA T15	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
187	TWR RED VERT T15	Column	Single Angle	A36	Typical	1.19	.703	.703	.025
188	TWR RED MIDVERT T15	Column	Single Angle	A36	Typical	1.19	.703	.703	.025
189	TWR RED HIP T15	Beam	Double Angle	A36	Typical	2.86	4.32	4.32	.141
190	TWR RED HIP 2 T15	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
191	TWR RED HIP 3 T15	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
192	TWR RED HIPDIA T15	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049
193	TWR RED HIPDIAKICK T15	Column	Double Angle	A36	Typical	.9	.535	.535	.011
194	TWR INNER SUPP T15	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
195	TWR INNER CORNER1 T15	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
196	TWR INNER CORNER2 T15	Beam	Double Angle	A36	Typical	.9	.535	.535	.011

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Label	Shape	Type	Design_List	Material	Design_Rules	A [in2]	Iw [in4]	Izz [in4]	J [in4]
197 TWR INNER CORNER3 T15	2L3x2 1/2x1/4	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
198 TWR INNER MIDSTRUT T15	2L2 1/2x2 1/2x3/16	Beam	Double Angle	A36	Typical	1.8	1.966	1.09	.021
199 TWR LEG T16	L8x8x1 1/8	Column	Single Angle	A572-50	Typical	16.7	98	98	7.13
200 TWR HORZ T16	2L5x3-1/2x3/8x1/2	Beam	Double Angle	A36	Typical	6.094	13.884	15.553	.286
201 TWR DIAG T16	2L4x6x3/8x1/2	Column	Double Angle	A36	Typical	7.219	61.583	9.809	.338
202 TWR RED KICK T16	L2.5X2.5X4	Column	Double Angle	A36	Typical	1.19	.692	.692	.026
203 TWR RED HORZ T16	L2.5X2.5X3	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
204 TWR RED HORZ 2 T16	2L3x2 1/2x1/4	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
205 TWR RED DIAG T16	2L2 1/2x2 1/2x3/16	Column	Double Angle	A36	Typical	1.8	1.966	1.09	.021
206 TWR RED DIAG 2 T16	LL3.5x3.5x6x3	Column	Double Angle	A36	Typical	5	12.8	5.72	.246
207 TWR RED SUBHOR T16	2L3x4x1/4	Beam	Double Angle	A36	Typical	3.38	10.688	2.71	.07
208 TWR RED SUBDIA T16	LL5x5x6x3	Column	Double Angle	A36	Typical	7.3	35.332	17.5	.366
209 TWR RED SUBBRACE T16	L2 1/2x2 1/2x1/4	Column	Double Angle	A36	Typical	1.19	.692	.692	.026
210 TWR RED VERT T16	LL3x2.5x4x0	Column	Single Angle	A36	Typical	1.19	.703	7.03	.025
211 TWR RED MIDVERT T16	L4X4X6	Column	Single Angle	A36	Typical	2.64	2.593	2.33	.059
212 TWR RED HIP T16	L2 1/2x2 1/2x1/4	Beam	Double Angle	A36	Typical	2.86	4.32	4.32	.141
213 TWR RED HIP 2 T16	2L2 1/2x3 1/2x5/16	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
214 TWR RED HIP 3 T16	2L2 1/2x3 1/2x5/16	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
215 TWR RED HIPDIA T16	L2.5X2.5X4	Column	Double Angle	A36	Typical	1.19	.692	.692	.026
216 TWR RED HIPDIA2 T16	2L2 1/2x2 1/2x1/4	Column	Double Angle	A36	Typical	2.38	2.625	1.41	.049
217 TWR RED HIPDIACKICK T16	L2.5X2.5X3	Column	Double Angle	A36	Typical	.9	.535	.535	.011
218 TWR INNER SUPP T16	2L3x2 1/2x1/4	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
219 TWR INNER CORNER1 T16	2L3x2 1/2x1/4	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
220 TWR INNER CORNER2 T16	L3X3X4	Beam	Double Angle	A36	Typical	1.44	1.23	1.23	.031
221 TWR INNER CORNER3 T16	2L3x2 1/2x1/4	Beam	Double Angle	A36	Typical	2.63	2.631	2.35	.055
222 TWR INNER MIDSTRUT T16	2L2 1/2x2 1/2x3/16	Beam	Double Angle	A36	Typical	1.8	1.966	1.09	.021
223 TWR INNER MIDGIRT T16	LL3x3x3x0	Beam	Double Angle	A36	Typical	2.18	3.352	1.9	.027
224 TWR INNER DIAMOND T16	2L2 1/2x3 1/2x5/16	Beam	Double Angle	A36	Typical	3.55	8.983	1.88	.116
225 TWR INNER TRUSS T16	L3X3X4	Beam	Double Angle	A36	Typical	1.44	1.23	1.23	.031

General Section Sets

Label	Shape	Type	Material	A [in2]	Iw [in4]	Izz [in4]	J [in4]
1 TWR DIAGMOD T8	2L2-1/2x3x5/16 w 2L3x3x3/8	Column	gen Steel	7.47	14.81	9.839	10
2 TWR DIAGMOD T9	2L2-1/2x3-1/2x5/16 w 2L3x3-1/2x	Column	gen Steel	8.21	22.801	9.885	10
3 TWR DIAGMOD T10	2L3x3-1/2x5/16 w 2L3x3-1/2x3/8	Column	gen Steel	8.54	22.834	12.493	10
4 TWR DIAGMOD T12	2L3x3-1/2x3/8 w 2L3x3-1/2x3/8	Column	gen Steel	9.26	24.948	13.72	10
5 TWR DIAGMOD T13	2L3x3-1/2x3/8 w 2L3x3-1/2x3/8	Column	gen Steel	9.26	24.948	13.72	10
6 TWR DIAGMOD T14	2L3x4x3/8 w 2L3x4x3/8	Column	gen Steel	9.96	36.408	13.755	10
7 TWR DIAGMOD T15	2L3x4x3/8 w 2L3x4x3/8	Column	gen Steel	9.96	36.408	13.755	10

Basic Load Cases

BLC	Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Member)	Surface(Plate)
1	Dead	None				84	387	62		
2	No Ice Wind 0 deg	None		-1		84	918	192		
3	No Ice Wind 45 deg	None				168	846	256		
4	No Ice Wind 90 deg	None				84	918	192		
5	No Ice Wind 135 deg	None				168	862	256		
6	No Ice Wind 180 deg	None				84	918	192		
7	No Ice Wind 225 deg	None				168	846	256		
8	No Ice Wind 270 deg	None				84	918	192		
9	No Ice Wind 315 deg	None				168	862	256		
10	Ice	None				84	379	916		
11	Temperature Drop	None						1648		
12	Ice Wind 0 deg	None				84	918	192		
13	Ice Wind 45 deg	None				168	828	256		
14	Ice Wind 90 deg	None				84	918	192		
15	Ice Wind 135 deg	None				168	846	256		
16	Ice Wind 180 deg	None				84	918	192		
17	Ice Wind 225 deg	None				168	824	256		
18	Ice Wind 270 deg	None				84	918	256		
19	Ice Wind 315 deg	None				168	846	256		
20	Service Wind 0 deg	None				84	912	192		
21	Service Wind 45 deg	None				168	832	256		
22	Service Wind 90 deg	None				84	912	192		
23	Service Wind 135 deg	None				168	850	256		
24	Service Wind 180 deg	None				84	912	192		
25	Service Wind 225 deg	None				168	832	256		
26	Service Wind 270 deg	None				84	912	192		
27	Service Wind 315 deg	None				168	850	256		

Load Combinations

Description	Solve	PDelta	SRSS	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	Dead Only	Yes		1	1	28	1	29	1	0	0	0	0	0	0
2	Dead+Wind 0 deg - No Ice	Yes		1	1	2	1	28	1	29	1	0	0	0	0
3	Dead+Wind 45 deg - No Ice	Yes		1	1	3	1	28	1	29	1	0	0	0	0
4	Dead+Wind 90 deg - No Ice	Yes		1	1	4	1	28	1	29	1	0	0	0	0
5	Dead+Wind 135 deg - No Ice	Yes		1	1	5	1	28	1	29	1	0	0	0	0
6	Dead+Wind 180 deg - No Ice	Yes		1	1	6	1	28	1	29	1	0	0	0	0
7	Dead+Wind 225 deg - No Ice	Yes		1	1	7	1	28	1	29	1	0	0	0	0
8	Dead+Wind 270 deg - No Ice	Yes		1	1	8	1	28	1	29	1	0	0	0	0

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Load Combinations (Continued)

Description	Solve	PDelta	SRSS	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
9 Dead+Wind 315 deg - No Ice	Yes	1	1	9	1	28	1	29	1	0	0	0	0	0	0	0	0
10 Dead+Ice+Temp	Yes	1	1	10	1	11	1	28	1	29	1	0	0	0	0	0	0
11 Dead+Wind 0 deg+Ice+Temp	Yes	1	1	12	1	10	1	11	1	28	1	29	1	0	0	0	0
12 Dead+Wind 45 deg+Ice+Temp	Yes	1	1	13	1	10	1	11	1	28	1	29	1	0	0	0	0
13 Dead+Wind 90 deg+Ice+Temp	Yes	1	1	14	1	10	1	11	1	28	1	29	1	0	0	0	0
14 Dead+Wind 135 deg+Ice+Temp	Yes	1	1	15	1	10	1	11	1	28	1	29	1	0	0	0	0
15 Dead+Wind 180 deg+Ice+Temp	Yes	1	1	16	1	10	1	11	1	28	1	29	1	0	0	0	0
16 Dead+Wind 225 deg+Ice+Temp	Yes	1	1	17	1	10	1	11	1	28	1	29	1	0	0	0	0
17 Dead+Wind 270 deg+Ice+Temp	Yes	1	1	18	1	10	1	11	1	28	1	29	1	0	0	0	0
18 Dead+Wind 315 deg+Ice+Temp	Yes	1	1	19	1	10	1	11	1	28	1	29	1	0	0	0	0
19 Dead+Wind 0 deg - Service	Yes	1	1	20	1	28	1	29	1	0	0	0	0	0	0	0	0
20 Dead+Wind 45 deg - Service	Yes	1	1	21	1	28	1	29	1	0	0	0	0	0	0	0	0
21 Dead+Wind 90 deg - Service	Yes	1	1	22	1	28	1	29	1	0	0	0	0	0	0	0	0
22 Dead+Wind 135 deg - Service	Yes	1	1	23	1	28	1	29	1	0	0	0	0	0	0	0	0
23 Dead+Wind 180 deg - Service	Yes	1	1	24	1	28	1	29	1	0	0	0	0	0	0	0	0
24 Dead+Wind 225 deg - Service	Yes	1	1	25	1	28	1	29	1	0	0	0	0	0	0	0	0
25 Dead+Wind 270 deg - Service	Yes	1	1	26	1	28	1	29	1	0	0	0	0	0	0	0	0
26 Dead+Wind 315 deg - Service	Yes	1	1	27	1	28	1	29	1	0	0	0	0	0	0	0	0

Envelope Joint Reactions

Joint	X [k]	Y [k]	Z [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 N465 max	78.373	7	575.819	7	61.884	3	0	1	0	1	.002	9	0	1
2 N465 min	-58.579	3	-414.687	3	-81.811	7	0	1	0	1	-.002	5	0	1
3 N466 max	56.589	9	572.994	5	62.671	9	0	1	0	1	.003	6	0	1
4 N466 min	-76.394	5	-407.927	9	-83.046	5	0	1	0	1	-.003	2	0	1
5 N467 max	61.551	7	581.892	3	78.686	3	0	1	0	1	.006	5	0	1
6 N467 min	-82.279	3	-408.615	7	-58.167	7	0	1	0	1	-.006	9	0	1
7 N468 max	83.038	9	575.131	9	76.675	9	0	1	0	1	.006	3	0	1
8 N468 min	-62.368	5	-405.789	5	-56.555	5	0	1	0	1	-.006	7	0	1
9 Totals max	235.898	8	488.239	18	236.35	2	0	1	0	1	-.006	7	0	1
10 Totals min	-235.998	4	334.41	5	-235.682	6	0	1	0	1	-.006	7	0	1

Envelope AISC 13th(360-05): ASD Steel Code Checks

Member	Shape	Code Check	Loc [ft]	LC	Shear C...	Loc [ft]	Dir	LC	Pnc/om [k]	Mnzz/om [k-ft]	Mnyy/om [k-ft]	Cb	Egn
1 M9	L3 1/2x3 1/2x5/16	.170	6.943	8	.003	9.57	z	11	14.895	45.054	.755	3.41	H2-1
2 M10	L3 1/2x3 1/2x5/16	.168	0	4	.004	9.57	z	11	14.895	45.054	.755	2.533	H2-1
3 M11	L3 1/2x3 1/2x5/16	.168	6.943	6	.003	9.57	z	17	14.895	45.054	.755	3.41	H2-1
4 M12	L3 1/2x3 1/2x5/16	.167	0	2	.004	9.57	z	16	14.895	45.054	.755	2.533	H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locfll	LC	Shear C...	Locfll	Dir	LC	Pnc/om.lk	Pnt/om.lk	Mvny/om.lk-ftj	Mnzz/om.lk-ftj	Cb	Eon
5	M13	L3 1/2x3 1/2x5/16	.174	6.943	4	.003	9.57	Z	15	14.895	.755	3.41	1	H2-1
6	M14	L3 1/2x3 1/2x5/16	.171	0	8	.004	9.57	Z	15	14.895	.755	2.533	1	H2-1
7	M15	L3 1/2x3 1/2x5/16	.174	6.943	2	.003	9.57	Z	13	14.895	.755	3.41	1	H2-1
8	M16	L3 1/2x3 1/2x5/16	.174	0	6	.004	9.57	Z	13	14.895	.755	2.533	1	H2-1
9	M29	L3 1/2x3 1/2x5/16	.497	7.277	8	.004	10.309	Z	18	13.107	.755	3.333	1	H2-1
10	M30	L3 1/2x3 1/2x5/16	.492	8.085	4	.004	10.309	Z	11	13.107	.755	3.333	2	H2-1
11	M31	L3 1/2x3 1/2x5/16	.506	7.277	6	.004	10.309	Z	16	13.107	.755	3.333	1	H2-1
12	M32	L3 1/2x3 1/2x5/16	.507	8.085	2	.004	10.309	Z	14	13.107	.755	3.32	2	H2-1
13	M33	L3 1/2x3 1/2x5/16	.488	7.277	4	.004	10.309	Z	14	13.107	.755	3.333	1	H2-1
14	M34	L3 1/2x3 1/2x5/16	.490	8.085	8	.004	10.309	Z	15	13.107	.755	3.317	2	H2-1
15	M35	L3 1/2x3 1/2x5/16	.476	7.277	2	.004	10.309	Z	12	13.107	.755	3.333	1	H2-1
16	M36	L3 1/2x3 1/2x5/16	.479	8.085	6	.004	10.309	Z	13	13.107	.755	3.313	2	H2-1
17	M54	L3 1/2x4x5/16	.526	6.087	8	.005	10.87	Z	13	13.936	1.429	4.213	1	H2-1
18	M55	L3 1/2x4x5/16	.527	10.87	4	.005	10.87	Z	11	13.936	1.429	4.069	1	H2-1
19	M56	L3 1/2x4x5/16	.548	6.087	6	.005	10.87	Z	18	13.936	1.429	4.213	1	H2-1
20	M57	L3 1/2x4x5/16	.558	10.87	2	.005	10.87	Z	17	13.936	1.429	4.078	1	H2-1
21	M58	L3 1/2x4x5/16	.535	6.087	4	.005	10.87	Z	16	13.936	1.429	4.213	1	H2-1
22	M59	L3 1/2x4x5/16	.543	10.87	8	.005	10.87	Z	15	13.936	1.429	4.075	1	H2-1
23	M60	L3 1/2x4x5/16	.507	6.087	2	.005	10.87	Z	14	13.936	1.429	4.213	1	H2-1
24	M61	L3 1/2x4x5/16	.518	10.87	6	.005	10.87	Z	13	13.936	1.429	4.066	1	H2-1
25	M71	2L2 1/2x2 1/2x1/4x1/2	.599	7.94	8	.003	7.94	Y	18	16.501	3.792	1.417	1	H1-1a
26	M74	2L2 1/2x2 1/2x1/4x1/2	.594	7.94	4	.003	7.94	Y	12	16.501	3.792	1.417	1	H1-1a
27	M78	2L2 1/2x2 1/2x1/4x1/2	.640	7.94	6	.003	7.94	Y	16	16.501	3.792	1.417	1	H1-1a
28	M81	2L2 1/2x2 1/2x1/4x1/2	.637	7.94	2	.003	7.94	Y	18	16.501	3.792	1.417	1	H1-1a
29	M85	2L2 1/2x2 1/2x1/4x1/2	.622	7.94	4	.003	7.94	Y	14	16.501	3.792	1.417	1	H1-1a
30	M88	2L2 1/2x2 1/2x1/4x1/2	.628	7.94	8	.003	7.94	Y	12	16.501	3.792	1.417	1	H1-1a
31	M92	2L2 1/2x2 1/2x1/4x1/2	.583	7.94	2	.003	7.94	Y	14	16.501	3.792	1.417	1	H1-1a
32	M95	2L2 1/2x2 1/2x1/4x1/2	.584	7.94	6	.003	7.94	Y	14	16.501	3.792	1.417	1	H1-1a
33	M108	2L2 1/2x2 1/2x1/4x1/2	.812	8.548	8	.003	8.548	Y	18	14.105	3.792	1.417	1	H1-1a
34	M111	2L2 1/2x2 1/2x1/4x1/2	.805	8.548	4	.003	8.548	Y	12	14.105	3.792	1.417	1	H1-1a
35	M115	2L2 1/2x2 1/2x1/4x1/2	.888	8.548	6	.003	8.548	Y	16	14.105	3.792	1.417	1	H1-1a
36	M118	2L2 1/2x2 1/2x1/4x1/2	.883	8.548	2	.003	8.548	Y	18	14.105	3.792	1.417	1	H1-1a
37	M122	2L2 1/2x2 1/2x1/4x1/2	.872	8.548	4	.003	8.548	Y	14	14.105	3.792	1.417	1	H1-1a
38	M125	2L2 1/2x2 1/2x1/4x1/2	.880	8.548	8	.003	8.548	Y	16	14.105	3.792	1.417	1	H1-1a
39	M129	2L2 1/2x2 1/2x1/4x1/2	.797	8.548	2	.003	8.548	Y	12	14.105	3.792	1.417	1	H1-1a
40	M132	2L2 1/2x2 1/2x1/4x1/2	.801	8.548	6	.003	8.548	Y	14	14.105	3.792	1.417	1	H1-1a
41	M141	2L2 1/2x2 1/2x1/4x1/2	.701	8.236	8	.003	8.236	Y	18	15.281	3.792	1.417	1	H1-1a
42	M144	2L2 1/2x2 1/2x1/4x1/2	.694	8.236	4	.003	8.236	Y	12	15.281	3.792	1.417	1	H1-1a
43	M148	2L2 1/2x2 1/2x1/4x1/2	.759	8.236	6	.003	8.236	Y	16	15.281	3.792	1.417	1	H1-1a
44	M151	2L2 1/2x2 1/2x1/4x1/2	.755	8.236	2	.003	8.236	Y	18	15.281	3.792	1.417	1	H1-1a
45	M155	2L2 1/2x2 1/2x1/4x1/2	.743	8.236	4	.003	8.236	Y	14	15.281	3.792	1.417	1	H1-1a

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locfit1	LC Shear C...	Locfit1	Dir	LC	Pnc/om [kl]	Pnt/om [kl]	Mnv/om [k-ft]	Mnz/om [k-ft]	Cb	Ean
46	M158	2L2 1/2x2 1/2x1/4x1/2	.749	8.236	8	.003	8.236	Y 16	15.281	3.792	1.417	1...	H1-1a
47	M162	2L2 1/2x2 1/2x1/4x1/2	.685	8.236	2	.003	8.236	Y 12	15.281	3.792	1.417	1...	H1-1a
48	M165	2L2 1/2x2 1/2x1/4x1/2	.688	8.236	6	.003	8.236	Y 14	15.281	3.792	1.417	1...	H1-1a
49	M178	2L2 1/2x2 1/2x1/4x1/2	1.116	9.211	8	.004	9.211	Y 18	12.205	3.792	1.417	1...	H1-1a
50	M181	2L2 1/2x2 1/2x1/4x1/2	1.105	9.211	4	.004	9.211	Y 12	12.205	3.792	1.417	1...	H1-1a
51	M185	2L2 1/2x2 1/2x1/4x1/2	1.242	9.211	6	.004	9.211	Y 16	12.205	3.792	1.417	1...	H1-1a
52	M188	2L2 1/2x2 1/2x1/4x1/2	1.234	9.211	2	.004	9.211	Y 18	12.205	3.792	1.417	1...	H1-1a
53	M192	2L2 1/2x2 1/2x1/4x1/2	1.225	9.211	4	.004	9.211	Y 14	12.205	3.792	1.417	1...	H1-1a
54	M195	2L2 1/2x2 1/2x1/4x1/2	1.237	9.211	8	.004	9.211	Y 16	12.205	3.792	1.417	1...	H1-1a
55	M199	2L2 1/2x2 1/2x1/4x1/2	1.101	9.211	2	.004	9.211	Y 12	12.205	3.792	1.417	1...	H1-1a
56	M202	2L2 1/2x2 1/2x1/4x1/2	1.108	9.211	6	.004	9.211	Y 14	12.205	3.792	1.417	1...	H1-1a
57	M211	2L2 1/2x2 1/2x1/4x1/2	.926	8.873	8	.003	8.873	Y 18	13.211	3.792	1.417	1...	H1-1a
58	M214	2L2 1/2x2 1/2x1/4x1/2	.918	8.873	4	.003	8.873	Y 12	13.211	3.792	1.417	1...	H1-1a
59	M218	2L2 1/2x2 1/2x1/4x1/2	1.020	8.873	6	.003	8.873	Y 16	13.211	3.792	1.417	1...	H1-1a
60	M221	2L2 1/2x2 1/2x1/4x1/2	1.015	8.873	2	.003	8.873	Y 18	13.211	3.792	1.417	1...	H1-1a
61	M225	2L2 1/2x2 1/2x1/4x1/2	1.003	8.873	4	.003	8.873	Y 14	13.211	3.792	1.417	1...	H1-1a
62	M228	2L2 1/2x2 1/2x1/4x1/2	1.012	8.873	8	.003	8.873	Y 16	13.211	3.792	1.417	1...	H1-1a
63	M232	2L2 1/2x2 1/2x1/4x1/2	.910	8.873	2	.003	8.873	Y 12	13.211	3.792	1.417	1...	H1-1a
64	M235	2L2 1/2x2 1/2x1/4x1/2	.915	8.873	6	.003	8.873	Y 14	13.211	3.792	1.417	1...	H1-1a
65	M248	2L2 1/2x3x5/16x1/2	1.225	19.606	8	.003	19.606	Y 16	19.518	6.531	1.776	1...	H1-1a
66	M253	2L2 1/2x3x5/16x1/2	1.207	19.606	4	.003	19.606	Y 14	19.518	6.531	1.776	1...	H1-1a
67	M260	2L2 1/2x3x5/16x1/2	1.367	19.606	6	.003	19.606	Y 14	19.518	6.531	1.776	1...	H1-1a
68	M265	2L2 1/2x3x5/16x1/2	1.364	19.606	2	.003	19.606	Y 12	19.518	6.531	1.776	1...	H1-1a
69	M273	2L2 1/2x3x5/16x1/2	1.349	19.606	4	.003	19.606	Y 12	19.518	6.531	1.776	1...	H1-1a
70	M278	2L2 1/2x3x5/16x1/2	1.358	19.606	8	.003	19.606	Y 18	19.518	6.531	1.776	1...	H1-1a
71	M286	2L2 1/2x3x5/16x1/2	1.199	19.606	2	.003	19.606	Y 18	19.518	6.531	1.776	1...	H1-1a
72	M291	2L2 1/2x3x5/16x1/2	1.210	19.606	6	.003	19.606	Y 16	19.518	6.531	1.776	1...	H1-1a
73	M516	2L3x3 1/2x3/8x1/2	1.127	5.109	7	.002	9.81	Y 11	41.037	10.408	4.892	1...	H1-1a
74	M521	2L3x3 1/2x3/8x1/2	1.099	9.81	4	.002	9.81	Y 11	41.037	10.408	4.892	1...	H1-1a
75	M530	2L3x3 1/2x3/8x1/2	1.286	4.905	5	.002	9.81	Y 17	41.037	10.408	4.892	1...	H1-1a
76	M535	2L3x3 1/2x3/8x1/2	1.250	9.81	2	.002	9.81	Y 17	41.037	10.408	4.892	1...	H1-1a
77	M547	2L3x3 1/2x3/8x1/2	1.310	9.81	4	.002	9.81	Y 15	41.037	10.408	4.892	1...	H1-1a
78	M552	2L3x3 1/2x3/8x1/2	1.316	9.81	8	.002	9.81	Y 15	41.037	10.408	4.892	1...	H1-1a
79	M564	2L3x3 1/2x3/8x1/2	1.157	9.81	2	.002	9.81	Y 13	41.037	10.408	4.892	1...	H1-1a
80	M569	2L3x3 1/2x3/8x1/2	1.226	5.109	7	.002	9.81	Y 13	41.037	10.408	4.892	1...	H1-1a
81	M925	2L4x6x3/8x1/2	.804	5.971	7	.005	11.942	Y 7	73.08	28.321	9.216	1	H1-1a
82	M930	2L4x6x3/8x1/2	.772	5.971	4	.005	11.942	Y 5	73.08	28.321	9.216	1	H1-1a
83	M941	2L4x6x3/8x1/2	.898	5.971	5	.005	11.942	Y 5	73.08	28.321	9.216	1	H1-1a
84	M946	2L4x6x3/8x1/2	.852	5.971	2	.005	11.942	Y 3	73.08	28.321	9.216	1	H1-1a
85	M960	2L4x6x3/8x1/2	.895	5.971	4	.005	11.942	Y 3	73.08	28.321	9.216	1	H1-1a
86	M965	2L4x6x3/8x1/2	.896	5.971	9	.005	11.942	Y 9	73.08	28.321	9.216	1	H1-1a

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Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftl	LC Shear C...	Locftl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Egn
87	M979	2L4x6x3/8x1/2	.815	5.971	2	.005	11.942	Y	9	73.08	155.614	9.216	1 H1-1a
88	M984	2L4x6x3/8x1/2	.870	5.971	7	.005	11.942	Y	7	73.08	155.614	9.216	1 H1-1a
89	M25	C7X9.8	.093	6.938	15	.006	13.875	Y	13	5.584	61.868	6.191	1 H1-1b
90	M26	C7X9.8	.093	6.938	13	.006	13.875	Y	11	5.584	61.868	6.191	1 H1-1b
91	M27	C7X9.8	.093	6.938	11	.006	0	Y	12	5.584	61.868	6.191	1 H1-1b
92	M28	C7X9.8	.093	6.938	17	.006	0	Y	11	5.584	61.868	6.191	1 H1-1b
93	M45	2L2 1/2x2 1/2x1/4x3/8	.425	7.875	15	.010	15.75	Y	15	25.927	51.198	2.267	1 H1-1b
94	M46	2L2 1/2x2 1/2x1/4x3/8	.425	7.875	13	.010	15.75	Y	13	25.927	51.198	2.267	1 H1-1b
95	M47	2L2 1/2x2 1/2x1/4x3/8	.425	7.875	11	.010	0	Y	11	25.927	51.198	2.267	1 H1-1b
96	M48	2L2 1/2x2 1/2x1/4x3/8	.424	7.875	17	.010	15.75	Y	17	25.927	51.198	2.267	1 H1-1b
97	M70	2L3x2 1/2x1/4x3/8	.119	8.996	8	.004	8.813	Y	15	31.914	56.695	3.608	1 H1-1b
98	M77	2L3x2 1/2x1/4x3/8	.125	8.996	6	.004	8.813	Y	13	31.914	56.695	3.608	1 H1-1b
99	M84	2L3x2 1/2x1/4x3/8	.124	8.629	8	.004	8.813	Y	11	31.914	56.695	3.608	1 H1-1b
100	M91	2L3x2 1/2x1/4x3/8	.117	8.629	6	.004	8.813	Y	17	31.914	56.695	3.608	1 H1-1b
101	M107	2L2 1/2x2 1/2x1/4x3/8	.506	10.91	8	.006	10.688	Y	15	16.328	51.305	3.58	1 H1-1a
102	M114	2L2 1/2x2 1/2x1/4x3/8	.550	10.91	6	.006	10.688	Y	13	16.328	51.305	3.58	1 H1-1a
103	M121	2L2 1/2x2 1/2x1/4x3/8	.546	10.465	8	.006	10.688	Y	11	16.328	51.305	3.58	1 H1-1a
104	M128	2L2 1/2x2 1/2x1/4x3/8	.500	10.465	6	.006	10.688	Y	17	16.328	51.305	3.58	1 H1-1a
105	M140	2L2 1/2x2 1/2x1/4x3/8	.385	9.953	8	.005	9.75	Y	15	19.467	51.305	3.58	1 H1-1a
106	M147	2L2 1/2x2 1/2x1/4x3/8	.415	9.953	6	.005	9.75	Y	13	19.467	51.305	3.58	1 H1-1a
107	M154	2L2 1/2x2 1/2x1/4x3/8	.410	9.547	8	.005	9.75	Y	17	19.467	51.305	3.58	1 H1-1a
108	M161	2L2 1/2x2 1/2x1/4x3/8	.379	9.547	6	.005	9.75	Y	15	19.467	51.305	3.58	1 H1-1a
109	M177	2L2 1/2x2 1/2x1/4x3/8	.840	12.824	8	.007	12.563	Y	13	12.279	51.305	3.58	1 H1-1a
110	M184	2L2 1/2x2 1/2x1/4x3/8	.931	12.824	6	.007	12.563	Y	11	12.279	51.305	3.58	1 H1-1a
111	M191	2L2 1/2x2 1/2x1/4x3/8	.833	12.301	8	.007	12.563	Y	17	12.279	51.305	3.58	1 H1-1a
112	M198	2L2 1/2x2 1/2x1/4x3/8	.631	11.867	8	.006	11.625	Y	15	14.371	51.305	3.58	1 H1-1a
113	M210	2L2 1/2x2 1/2x1/4x3/8	.692	11.867	6	.006	11.625	Y	13	14.371	51.305	3.58	1 H1-1a
114	M217	2L2 1/2x2 1/2x1/4x3/8	.687	11.383	8	.006	11.625	Y	11	14.371	51.305	3.58	1 H1-1a
115	M224	2L2 1/2x2 1/2x1/4x3/8	.624	11.383	6	.006	11.625	Y	17	14.371	51.305	3.58	1 H1-1a
116	M231	2L2 1/2x2 1/2x1/4x3/8	.743	13.5	3	.007	13.5	Y	14	16.865	56.695	3.608	1 H1-1a
117	M247	2L3x2 1/2x1/4x3/8	.801	13.5	9	.007	13.5	Y	13	16.865	56.695	3.608	1 H1-1a
118	M259	2L3x2 1/2x1/4x3/8	.801	13.5	5	.007	13.5	Y	11	16.865	56.695	3.608	1 H1-1a
119	M272	2L3x2 1/2x1/4x3/8	.742	13.5	3	.007	13.5	Y	18	16.865	56.695	3.608	1 H1-1a
120	M285	2L3x2 1/2x1/4x3/8	1.149	15.375	3	.008	15.375	Y	14	13.549	56.695	3.608	1 H1-1a
121	M308	2L3x2 1/2x1/4x3/8	1.257	15.375	9	.008	15.375	Y	12	13.549	56.695	3.608	1 H1-1a
122	M320	2L3x2 1/2x1/4x3/8	1.257	15.375	5	.008	15.375	Y	12	13.549	56.695	3.608	1 H1-1a
123	M333	2L3x2 1/2x1/4x3/8	1.179	15.375	3	.008	15.375	Y	18	13.549	56.695	3.608	1 H1-1a
124	M346	2L3x2 1/2x1/4x3/8	.496	5.391	3	.004	8.625	Y	16	34.722	62.084	4.333	1 H1-1a
125	M369	2L3 1/2x2 1/2x1/4x3/8	.556	5.391	9	.004	8.625	Y	14	34.722	62.084	4.333	1 H1-1a
126	M381	2L3 1/2x2 1/2x1/4x3/8	.557	29.109	5	.004	25.875	Y	18	34.722	62.084	4.333	1 H1-1a
127	M394	2L3 1/2x2 1/2x1/4x3/8	.557	29.109	5	.004	25.875	Y	18	34.722	62.084	4.333	1 H1-1a

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Member	Shape	Code Check	Locfil	LC	Shear C...	Locfil	Dir	LC	Pnc/om lki	Prt/om lki	Mnw/om lks-ftl	Mnzz/om lks-ftl	Cb	Egn
128	M407	2L3 1/2x2 1/2x1/4x3/8	.526	29.109	3	.004	25.875	Y	16	34.722	62.084	3.636	4.333	1... H1-1a
129	M430	2L3-1/2x2-1/2x5/16x1/2	.867	6.375	3	.006	12.75	Y	17	35.992	76.635	4.885	5.329	1... H1-1a
130	M446	2L3-1/2x2-1/2x5/16x1/2	.953	6.375	9	.006	12.75	Y	15	35.992	76.635	4.885	5.329	1... H1-1a
131	M465	2L3-1/2x2-1/2x5/16x1/2	.953	31.875	5	.006	12.75	Y	13	35.992	76.635	4.885	5.329	1... H1-1a
132	M484	2L3-1/2x2-1/2x5/16x1/2	.918	31.875	3	.006	25.5	Y	15	35.992	76.635	4.885	5.329	1... H1-1a
133	M515	2L3 1/2x3x5/16x1/2	1.078	28	8	.006	14	Y	17	31.331	83.365	6.627	3.428	2... H1-1a
134	M529	2L3 1/2x3x5/16x1/2	1.226	28	6	.006	14	Y	14	31.331	83.365	6.627	3.428	2... H1-1a
135	M546	2L3 1/2x3x5/16x1/2	1.274	28	5	.006	28	Y	18	31.331	83.365	6.627	3.428	1... H1-1a
136	M563	2L3 1/2x3x5/16x1/2	1.218	28	3	.006	28	Y	16	31.331	83.365	6.627	3.428	1... H1-1a
137	M592	2L4x3 1/2x5/16x1/2	.990	30.5	9	.007	15.25	Y	16	39.314	96.838	8.724	4.538	2... H1-1a
138	M606	2L4x3 1/2x5/16x1/2	1.078	30.5	6	.007	15.25	Y	14	39.314	96.838	8.724	4.538	2... H1-1a
139	M623	2L4x3 1/2x5/16x1/2	1.194	30.5	5	.007	30.5	Y	18	39.314	96.838	8.724	4.538	2... H1-1a
140	M640	2L4x3 1/2x5/16x1/2	1.146	30.5	3	.007	30.5	Y	16	39.314	96.838	8.724	4.538	2... H1-1a
141	M669	2L3 1/2x3x5/16x1/2	1.109	37.125	9	.007	37.125	Y	13	31.763	83.365	6.627	3.428	1... H1-1a
142	M685	2L3 1/2x3x5/16x1/2	1.237	24.75	9	.007	37.125	Y	11	31.763	83.365	6.627	3.428	2... H1-1a
143	M704	2L3 1/2x3x5/16x1/2	1.336	37.125	5	.007	37.125	Y	17	31.763	83.365	6.627	3.428	1... H1-1a
144	M723	2L3 1/2x3x5/16x1/2	1.285	37.125	3	.007	37.125	Y	15	31.763	83.365	6.627	3.428	2... H1-1a
145	M754	2L4x3x5/16x1/2	.952	39.938	9	.006	13.313	Y	17	39.255	90.101	6.675	4.026	2... H1-1a
146	M770	2L4x3x5/16x1/2	1.075	26.625	9	.006	13.313	Y	14	39.255	90.101	6.675	4.026	2... H1-1a
147	M789	2L4x3x5/16x1/2	1.145	39.938	5	.006	39.938	Y	18	39.255	90.101	6.675	4.026	2... H1-1a
148	M808	2L4x3x5/16x1/2	1.102	39.938	3	.006	39.938	Y	16	39.255	90.101	6.675	4.026	2... H1-1a
149	M839	2L4x3x5/16x1/2	1.173	7.125	3	.007	14.25	Y	17	37.19	90.101	6.675	7.091	1... H1-1a
150	M855	2L4x3x5/16x1/2	1.346	7.125	5	.007	37.125	Y	17	37.19	90.101	6.675	7.091	1... H1-1a
151	M874	2L4x3x5/16x1/2	1.304	49.875	5	.007	42.75	Y	18	37.19	90.101	6.675	7.091	2... H1-1a
152	M893	2L4x3x5/16x1/2	1.304	49.875	3	.007	42.75	Y	16	37.19	90.101	6.675	7.091	2... H1-1a
153	M924	2L5x3-1/2x3/8x1/2	.512	15.188	7	.006	15.188	Y	16	96.154	131.362	10.642	6.916	1... H1-1a
154	M940	2L5x3-1/2x3/8x1/2	.567	7.594	9	.006	15.188	Y	14	96.154	131.362	10.642	13.189	1... H1-1a
155	M959	2L5x3-1/2x3/8x1/2	.570	22.781	8	.006	45.563	Y	18	96.154	131.362	10.642	13.189	1... H1-1a
156	M978	2L5x3-1/2x3/8x1/2	.551	53.156	3	.006	45.563	Y	16	96.154	131.362	10.642	13.189	1... H1-1a
157	M17	L3x2 1/2x1/4	.020	4.558	13	.004	6.435	Y	18	9.206	28.24	.357	1.306	1... H2-1
158	M18	L3x2 1/2x1/4	.021	8.312	14	.004	6.435	Y	16	9.206	28.24	.357	1.305	1... H2-1
159	M19	L3x2 1/2x1/4	.022	4.558	16	.004	6.435	Y	14	9.206	28.24	.357	1.306	1... H2-1
160	M20	L3x2 1/2x1/4	.021	4.558	15	.004	6.435	Y	12	9.206	28.24	.357	1.306	1... H2-1
161	M37	L3x2 1/2x1/4	.165	14.753	8	.005	7.377	Y	18	7.006	28.24	.357	1.233	1... H2-1
162	M38	L3x2 1/2x1/4	.175	9.682	6	.005	7.377	Y	16	7.006	28.24	.357	1.22	1... H2-1
163	M39	L3x2 1/2x1/4	.160	0	8	.005	7.377	Y	14	7.006	28.24	.357	1.237	1... H2-1
164	M40	L3x2 1/2x1/4	.149	14.753	2	.005	7.377	Y	12	7.006	28.24	.357	1.234	1... H2-1
165	M62	L3x2 1/2x1/4	.035	0	3	.005	8.317	Y	14	5.51	28.24	.357	1.166	1... H2-1
166	M63	L3x2 1/2x1/4	.046	10.743	6	.005	8.317	Y	13	5.51	28.24	.357	1.155	1... H2-1
167	M64	L3x2 1/2x1/4	.050	10.743	5	.005	8.317	Y	16	5.51	28.24	.357	1.148	1... H2-1
168	M65	L3x2 1/2x1/4	.038	10.743	3	.005	8.317	Y	14	5.51	28.24	.357	1.147	1... H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc(ft)	LC Shear C...	Loc(ft)	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-ft]	Mnz/om [k-ft]	Cb	Eqn
169	M5	.064	6	11	.006	0	Y	13	61.868	1.776	7.252	1...	H1-1b
170	M6	.063	6	17	.006	0	Y	11	61.868	1.776	7.252	1...	H1-1b
171	M7	.063	6	15	.006	12	Y	12	61.868	1.776	7.252	1...	H1-1b
172	M8	.063	6	13	.006	12	Y	11	61.868	1.776	7.252	1...	H1-1b
173	M1537	.043	2.784	3	.001	0	Y	7	19.401	.58	1.073	1...	H2-1
174	M1538	.042	2.784	9	.001	0	Y	14	19.401	.58	1.073	1...	H2-1
175	M1539	.043	2.784	7	.001	0	Y	12	19.401	.58	1.073	1...	H2-1
176	M1540	.042	2.784	5	.001	0	Y	9	19.401	.58	1.073	1...	H2-1
177	M1530	.219	3.116	7	.002	0	Y	7	19.401	.58	1.037	1...	H2-1
178	M1531	.212	3.116	5	.002	0	Y	5	19.401	.58	1.037	1...	H2-1
179	M1532	.217	3.116	3	.002	0	Y	3	19.401	.58	1.037	1...	H2-1
180	M1533	.212	3.116	9	.002	0	Y	9	19.401	.58	1.037	1...	H2-1
181	M1482	.036	3.375	4	.002	0	Y	7	19.401	.58	1.011	1...	H2-1
182	M1483	.036	3.375	2	.002	0	Y	5	19.401	.58	1.011	1...	H2-1
183	M1483A	.037	3.375	2	.002	0	Y	5	19.401	.58	1.011	1...	H2-1
184	M1484	.036	3.375	8	.002	0	Y	4	19.401	.58	1.011	1...	H2-1
185	M1486	.037	3.375	8	.002	0	Y	4	19.401	.58	1.011	1...	H2-1
186	M1487	.037	3.375	6	.002	0	Y	2	19.401	.58	1.011	1...	H2-1
187	M1489	.036	3.375	6	.002	0	Y	2	19.401	.58	1.011	1...	H2-1
188	M1490	.037	3.375	4	.002	0	Y	7	19.401	.58	1.011	1...	H2-1
189	M1459	.048	3.844	4	.002	0	Y	16	19.401	.58	.966	1...	H2-1
190	M1460	.048	3.844	3	.002	0	Y	5	19.401	.58	.966	1...	H2-1
191	M1460A	.048	3.844	2	.002	0	Y	5	19.401	.58	.966	1...	H2-1
192	M1461	.048	3.844	8	.002	0	Y	4	19.401	.58	.966	1...	H2-1
193	M1463	.048	3.844	8	.002	0	Y	4	19.401	.58	.966	1...	H2-1
194	M1464	.048	3.844	6	.002	0	Y	3	19.401	.58	.966	1...	H2-1
195	M1466	.048	3.844	6	.002	0	Y	3	19.401	.58	.966	1...	H2-1
196	M1467	.048	3.844	4	.002	0	Y	17	19.401	.58	.966	1...	H2-1
197	M1439	.064	4.313	2	.002	8.625	Y	2	19.401	.58	.924	1...	H2-1
198	M1439A	.064	4.313	2	.002	8.625	Y	4	19.401	.58	.924	1...	H2-1
199	M1440	.064	4.313	8	.002	8.625	Y	4	19.401	.58	.924	1...	H2-1
200	M1440A	.065	4.313	2	.002	8.625	Y	2	19.401	.58	.924	1...	H2-1
201	M1441	.065	4.313	6	.002	0	Y	3	19.401	.58	.924	1...	H2-1
202	M1442	.065	4.313	8	.002	0	Y	4	19.401	.58	.924	1...	H2-1
203	M1443	.065	4.313	4	.002	8.625	Y	3	19.401	.58	.924	1...	H2-1
204	M1444	.064	4.313	6	.002	0	Y	3	19.401	.58	.924	1...	H2-1
205	M1386	.033	3.188	9	.001	0	Y	5	28.24	.825	1.607	1...	H2-1
206	M1388A	.033	3.188	7	.001	0	Y	4	28.24	.825	1.607	1...	H2-1
207	M1389	.032	3.188	9	.001	0	Y	4	28.24	.825	1.607	1...	H2-1
208	M1389A	.032	3.188	7	.001	0	Y	2	28.24	.825	1.607	1...	H2-1
209	M1390	.032	3.188	5	.001	0	Y	2	28.24	.825	1.607	1...	H2-1

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Designer : awestrum
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loeffl	LC Shear C...	Loeffl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnx/om [k-ft]	Mnz/om [k-ft]	Cb	Ean
210	M1391	L3X2.5X4	.033	3.188	5	.001	0	Y	8	9.098	28.24	1.607	H2-1
211	M1392	L3X2.5X4	.032	3.188	3	.001	0	Y	7	9.098	28.24	1.607	H2-1
212	M1393	L3X2.5X4	.033	3.188	3	.001	0	Y	6	9.098	28.24	1.607	H2-1
213	M1424	L3X2.5X4	.023	2.069	7	.001	4.137	Y	7	17.475	28.24	1.765	H2-1
214	M1424A	L3X2.5X4	.023	2.069	5	.001	4.137	Y	5	17.475	28.24	1.765	H2-1
215	M1425	L3X2.5X4	.023	2.069	7	.001	4.137	Y	8	17.475	28.24	1.765	H2-1
216	M1425A	L3X2.5X4	.024	2.069	5	.001	4.137	Y	8	17.475	28.24	1.765	H2-1
217	M1426	L3X2.5X4	.024	2.069	3	.001	4.137	Y	2	17.475	28.24	1.765	H2-1
218	M1427	L3X2.5X4	.024	2.069	3	.001	4.137	Y	8	17.475	28.24	1.765	H2-1
219	M1428	L3X2.5X4	.024	2.069	9	.001	4.137	Y	9	17.475	28.24	1.765	H2-1
220	M1429	L3X2.5X4	.023	2.069	9	.001	4.137	Y	9	17.475	28.24	1.765	H2-1
221	M1060	2L3x2 1/2x1/4	.063	3.953	5	.002	0	Y	5	32.948	56.695	3.024	H1-1b
222	M1061	2L3x2 1/2x1/4	.114	5.591	18	.003	0	Y	1	19.621	56.695	3.024	H1-1b
223	M1062	2L3x2 1/2x1/4	.063	3.953	5	.002	7.906	Y	4	32.948	56.695	3.024	H1-1b
224	M1063	2L3x2 1/2x1/4	.064	3.953	3	.002	0	Y	3	32.948	56.695	3.024	H1-1b
225	M1064	2L3x2 1/2x1/4	.112	5.591	16	.003	0	Y	9	19.621	56.695	3.024	H1-1b
226	M1065	2L3x2 1/2x1/4	.064	3.953	3	.002	7.906	Y	2	32.948	56.695	3.024	H1-1b
227	M1066	2L3x2 1/2x1/4	.063	3.953	9	.002	0	Y	2	32.948	56.695	3.024	H1-1b
228	M1067	2L3x2 1/2x1/4	.113	5.591	14	.003	0	Y	1	19.621	56.695	3.024	H1-1b
229	M1068	2L3x2 1/2x1/4	.063	3.953	9	.002	7.906	Y	8	32.948	56.695	3.024	H1-1b
230	M1069	2L3x2 1/2x1/4	.063	3.953	7	.002	0	Y	7	32.948	56.695	3.024	H1-1b
231	M1070	2L3x2 1/2x1/4	.115	5.591	12	.003	0	Y	1	19.621	56.695	3.024	H1-1b
232	M1071	2L3x2 1/2x1/4	.063	3.953	7	.002	7.906	Y	6	32.948	56.695	3.024	H1-1b
233	M1209	L2.5X2.5X3	.038	3.328	5	.002	6.656	Y	3	4.926	19.401	1.016	H2-1
234	M1210	L2.5X2.5X3	.038	3.328	9	.002	0	Y	2	4.926	19.401	1.016	H2-1
235	M1211	L2.5X2.5X3	.092	4.707	7	.002	0	Y	4	2.463	19.401	.89	H2-1
236	M1219	L2.5X2.5X3	.038	3.328	3	.002	6.656	Y	2	4.926	19.401	1.016	H2-1
237	M1220	L2.5X2.5X3	.038	3.328	7	.002	0	Y	8	4.926	19.401	1.016	H2-1
238	M1221	L2.5X2.5X3	.092	4.707	5	.002	0	Y	2	2.463	19.401	.89	H2-1
239	M1231	L2.5X2.5X3	.040	3.328	9	.002	6.656	Y	7	4.926	19.401	1.016	H2-1
240	M1232	L2.5X2.5X3	.040	3.328	5	.002	0	Y	6	4.926	19.401	1.016	H2-1
241	M1233	L2.5X2.5X3	.092	4.707	3	.002	0	Y	2	2.463	19.401	.89	H2-1
242	M1243	L2.5X2.5X3	.040	3.328	7	.002	6.656	Y	5	4.926	19.401	1.016	H2-1
243	M1244	L2.5X2.5X3	.039	3.328	3	.002	0	Y	4	4.926	19.401	1.016	H2-1
244	M1245	L2.5X2.5X3	.092	4.707	9	.002	0	Y	6	2.463	19.401	.89	H2-1
245	M1263	L2.5X2.5X3	.032	3.094	5	.002	0	Y	3	5.701	19.401	1.04	H2-1
246	M1264	L2.5X2.5X3	.081	4.375	7	.002	0	Y	1	2.85	19.401	.919	H2-1
247	M1265	L2.5X2.5X3	.032	3.094	9	.002	6.188	Y	2	5.701	19.401	1.04	H2-1
248	M1276	L2.5X2.5X3	.033	3.094	3	.002	0	Y	2	5.701	19.401	1.04	H2-1
249	M1277	L2.5X2.5X3	.080	4.375	5	.002	0	Y	1	2.85	19.401	.919	H2-1
250	M1278	L2.5X2.5X3	.033	3.094	7	.002	6.188	Y	8	5.701	19.401	1.04	H2-1

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Designer : awestrump
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	L.C Shear C...	Loc[ft]	Dir	L.C	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Eqn
251	M1291	L2.5X2.5X3	.035	3.094	9	.002	0	Y	8	5.701	19.401	1.04	1... H2-1
252	M1292	L2.5X2.5X3	.081	4.375	3	.002	0	Y	1	2.85	19.401	.919	1... H2-1
253	M1293	L2.5X2.5X3	.035	3.094	5	.002	6.188	Y	5	5.701	19.401	1.04	1... H2-1
254	M1306	L2.5X2.5X3	.034	3.094	7	.002	0	Y	6	5.701	19.401	1.04	1... H2-1
255	M1307	L2.5X2.5X3	.080	4.375	9	.002	0	Y	1	2.85	19.401	.919	1... H2-1
256	M1308	L2.5X2.5X3	.034	3.094	3	.002	6.188	Y	4	5.701	19.401	1.04	1... H2-1
257	M1128	L2.5X2.5X3	.043	3.563	9	.002	0	Y	2	4.299	19.401	.993	1... H2-1
258	M1129	L2.5X2.5X3	.104	5.038	7	.003	0	Y	5	2.15	19.401	.863	1... H2-1
259	M1130	L2.5X2.5X3	.043	3.563	5	.002	7.125	Y	2	4.299	19.401	.993	1... H2-1
260	M1132	L2.5X2.5X3	.044	3.563	7	.002	0	Y	8	4.299	19.401	.993	1... H2-1
261	M1133	L2.5X2.5X3	.104	5.038	5	.003	0	Y	2	2.15	19.401	.863	1... H2-1
262	M1134	L2.5X2.5X3	.044	3.563	3	.002	7.125	Y	2	4.299	19.401	.993	1... H2-1
263	M1138	L2.5X2.5X3	.046	3.563	5	.002	0	Y	6	4.299	19.401	.993	1... H2-1
264	M1139	L2.5X2.5X3	.104	5.038	3	.003	0	Y	2	2.15	19.401	.863	1... H2-1
265	M1140	L2.5X2.5X3	.046	3.563	9	.002	7.125	Y	7	4.299	19.401	.993	1... H2-1
266	M1144	L2.5X2.5X3	.045	3.563	3	.002	0	Y	4	4.299	19.401	.993	1... H2-1
267	M1145	L2.5X2.5X3	.104	5.038	9	.003	0	Y	6	2.15	19.401	.863	1... H2-1
268	M1146	L2.5X2.5X3	.045	3.563	7	.002	7.125	Y	5	4.299	19.401	.993	1... H2-1
269	M1106	L3X3X4	.038	3.797	3	.002	0	Y	2	8.92	31.042	2.034	1... H2-1
270	M1107	L3X3X4	.085	5.37	5	.003	0	Y	6	4.46	31.042	1.814	1... H2-1
271	M1107A	L3X3X4	.039	3.797	9	.002	0	Y	7	8.92	31.042	2.034	1... H2-1
272	M1108	L3X3X4	.038	3.797	7	.002	7.594	Y	7	8.92	31.042	2.034	1... H2-1
273	M1108A	L3X3X4	.085	5.37	3	.003	0	Y	4	4.46	31.042	1.814	1... H2-1
274	M1109	L3X3X4	.039	3.797	5	.002	7.594	Y	5	8.92	31.042	2.034	1... H2-1
275	M1110	L3X3X4	.039	3.797	7	.002	0	Y	5	8.92	31.042	2.034	1... H2-1
276	M1111	L3X3X4	.085	5.37	9	.003	0	Y	2	4.46	31.042	1.814	1... H2-1
277	M1112	L3X3X4	.038	3.797	3	.002	7.594	Y	3	8.92	31.042	2.034	1... H2-1
278	M1113	L3X3X4	.037	3.797	5	.002	0	Y	3	8.92	31.042	2.034	1... H2-1
279	M1114	L3X3X4	.085	5.37	7	.003	0	Y	2	4.46	31.042	1.814	1... H2-1
280	M1115	L3X3X4	.037	3.797	9	.002	7.594	Y	2	8.92	31.042	2.034	1... H2-1
281	M1200	2L3x2 1/2x1/4	.265	9.413	7	.005	0	Y	4	26.733	56.695	3.23	1... H1-1b
282	M1201	2L3x2 1/2x1/4	.056	6.656	9	.002	6.656	Y	9	37.371	56.695	2.019	1 H1-1b
283	M1202	2L3x2 1/2x1/4	.056	6.656	5	.002	6.656	Y	5	37.371	56.695	2.019	1 H1-1b
284	M1212	2L3x2 1/2x1/4	.264	9.413	5	.005	0	Y	2	26.733	56.695	3.23	1... H1-1b
285	M1213	2L3x2 1/2x1/4	.056	6.656	7	.002	6.656	Y	7	37.371	56.695	2.019	1 H1-1b
286	M1214	2L3x2 1/2x1/4	.056	6.656	3	.002	6.656	Y	3	37.371	56.695	2.019	1 H1-1b
287	M1224	2L3x2 1/2x1/4	.265	9.413	3	.005	18.827	Y	5	26.733	56.695	3.23	1... H1-1b
288	M1225	2L3x2 1/2x1/4	.055	6.656	5	.002	6.656	Y	5	37.371	56.695	2.019	1 H1-1b
289	M1226	2L3x2 1/2x1/4	.055	6.656	9	.002	6.656	Y	9	37.371	56.695	2.019	1 H1-1b
290	M1236	2L3x2 1/2x1/4	.264	9.413	9	.005	0	Y	7	26.733	56.695	3.23	1... H1-1b
291	M1237	2L3x2 1/2x1/4	.056	6.656	3	.002	6.656	Y	3	37.371	56.695	2.019	1 H1-1b

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Company : GPD Group
Designer : awestrum
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locfltl	LC Shear C...	Locfltl	Dir	LC	Pnc/om [kl]	Pnt/om [kl]	Mmv/om [k-ft]	Mnzz/om [k-ft]	Cb	Ean	
292	M1238	2L3x2 1/2x1/4	.056	6.656	7	.002	6.656	Y	7	37.371	3.024	2.019	1	H1-1b
293	M1250A	2L3x2 1/2x1/4	.052	6.188	5	.002	6.188	Y	5	38.942	3.024	2.019	1	H1-1b
294	M1251A	2L3x2 1/2x1/4	.052	6.188	9	.002	6.188	Y	9	38.942	3.024	2.019	1	H1-1b
295	M1252A	2L3x2 1/2x1/4	.239	8.75	7	.005	17.501	Y	9	29.608	3.024	3.23	1...	H1-1b
296	M1265A	2L3x2 1/2x1/4	.053	6.188	3	.002	6.188	Y	3	38.942	3.024	2.019	1	H1-1b
297	M1266	2L3x2 1/2x1/4	.053	6.188	7	.002	6.188	Y	7	38.942	3.024	2.019	1	H1-1b
298	M1267	2L3x2 1/2x1/4	.238	8.75	5	.005	0	Y	18	29.608	3.024	3.23	1...	H1-1b
299	M1280	2L3x2 1/2x1/4	.052	6.188	9	.002	6.188	Y	9	38.942	3.024	2.019	1	H1-1b
300	M1281	2L3x2 1/2x1/4	.052	6.188	5	.002	6.188	Y	5	38.942	3.024	2.019	1	H1-1b
301	M1282	2L3x2 1/2x1/4	.239	8.75	3	.005	0	Y	13	29.608	3.024	3.23	1...	H1-1b
302	M1295	2L3x2 1/2x1/4	.052	6.188	7	.002	6.188	Y	7	38.942	3.024	2.019	1	H1-1b
303	M1296	2L3x2 1/2x1/4	.053	6.188	3	.002	6.188	Y	3	38.942	3.024	2.019	1	H1-1b
304	M1297	2L3x2 1/2x1/4	.238	8.75	9	.005	17.501	Y	3	29.608	3.024	3.23	1...	H1-1b
305	M1123A	2L3x2 1/2x1/4	.060	7.125	5	.002	7.125	Y	5	35.746	3.024	2.019	1	H1-1b
306	M1124	2L3x2 1/2x1/4	.060	7.125	9	.002	7.125	Y	9	35.746	3.024	2.019	1	H1-1b
307	M1125	2L3x2 1/2x1/4	.381	10.076	7	.005	0	Y	5	23.958	3.024	3.23	1...	H1-1a
308	M1129A	2L3x2 1/2x1/4	.061	7.125	3	.002	7.125	Y	3	35.746	3.024	2.019	1	H1-1b
309	M1130A	2L3x2 1/2x1/4	.061	7.125	7	.002	7.125	Y	7	35.746	3.024	2.019	1	H1-1b
310	M1131	2L3x2 1/2x1/4	.380	10.076	5	.005	0	Y	2	23.958	3.024	3.23	1...	H1-1a
311	M1135	2L3x2 1/2x1/4	.060	7.125	9	.002	7.125	Y	9	35.746	3.024	2.019	1	H1-1b
312	M1136	2L3x2 1/2x1/4	.060	7.125	5	.002	7.125	Y	5	35.746	3.024	2.019	1	H1-1b
313	M1137	2L3x2 1/2x1/4	.382	10.076	3	.005	0	Y	8	23.958	3.024	3.23	1...	H1-1a
314	M1141	2L3x2 1/2x1/4	.060	7.125	7	.002	7.125	Y	3	35.746	3.024	2.019	1	H1-1b
315	M1142	2L3x2 1/2x1/4	.061	7.125	3	.002	7.125	Y	7	35.746	3.024	2.019	1	H1-1b
316	M1143	2L3x2 1/2x1/4	.380	10.076	9	.005	0	Y	1	23.958	3.024	3.23	1...	H1-1a
317	M1076	2L3x2 1/2x1/4	.060	7.594	3	.002	7.594	Y	3	34.078	3.024	2.019	1	H1-1b
318	M1077	2L3x2 1/2x1/4	.060	7.594	7	.002	7.594	Y	7	34.078	3.024	2.019	1	H1-1b
319	M1078	2L3x2 1/2x1/4	.331	10.739	5	.006	0	Y	1	21.269	3.024	3.23	1...	H1-1b
320	M1079	2L3x2 1/2x1/4	.062	7.594	9	.002	7.594	Y	9	34.078	3.024	2.019	1	H1-1b
321	M1080	2L3x2 1/2x1/4	.062	7.594	5	.002	7.594	Y	5	34.078	3.024	2.019	1	H1-1b
322	M1081	2L3x2 1/2x1/4	.332	10.739	3	.006	0	Y	11	21.269	3.024	3.23	1...	H1-1b
323	M1082	2L3x2 1/2x1/4	.061	7.594	7	.002	7.594	Y	7	34.078	3.024	2.019	1	H1-1b
324	M1083	2L3x2 1/2x1/4	.062	7.594	3	.002	7.594	Y	3	34.078	3.024	2.019	1	H1-1b
325	M1084	2L3x2 1/2x1/4	.331	10.739	9	.006	0	Y	7	21.269	3.024	3.23	1...	H1-1b
326	M1085	2L3x2 1/2x1/4	.059	7.594	5	.002	7.594	Y	5	34.078	3.024	2.019	1	H1-1b
327	M1086	2L3x2 1/2x1/4	.059	7.594	9	.002	7.594	Y	9	34.078	3.024	2.019	1	H1-1b
328	M1087	2L3x2 1/2x1/4	.331	10.739	7	.006	0	Y	12	21.269	3.024	3.23	1...	H1-1b
329	M1529A	2L2 1/2x2x3/16	.125	5.568	2	.004	0	Y	12	21.623	1.451	1.688	1...	H1-1b
330	M1530A	2L2 1/2x2x3/16	.125	5.568	4	.004	0	Y	18	21.623	1.451	1.688	1...	H1-1b
331	M1531A	2L2 1/2x2x3/16	.125	5.568	4	.004	0	Y	14	21.623	1.451	1.688	1...	H1-1b
332	M1532A	2L2 1/2x2x3/16	.125	5.568	4	.004	0	Y	14	21.623	1.451	1.688	1...	H1-1b

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Job Number : 2012857.08 Rev A

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc(ft)	LC Shear C...	Loc(ft)	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Egn
333	M1522A	.174	6.231	2	.005	0	Y	17	19.873	34.922	1.451	1.688	1... H1-1b
334	M1523A	.174	6.231	8	.005	0	Y	13	19.873	34.922	1.451	1.688	1... H1-1b
335	M1524A	.174	6.231	6	.005	0	Y	10	19.873	34.922	1.451	1.688	1... H1-1b
336	M1525A	.174	6.231	6	.005	12.463	Y	17	19.873	34.922	1.451	1.688	1... H1-1b
337	M1503A	.201	7.557	11	.006	15.114	Y	4	24.705	51.305	3.018	2.271	1... H1-1b
338	M1504A	.201	7.557	18	.006	15.114	Y	2	24.705	51.305	3.018	2.271	1... H1-1b
339	M1505A	.201	7.557	17	.006	15.114	Y	9	24.705	51.305	3.018	2.271	1... H1-1b
340	M1506A	.201	7.557	15	.006	15.114	Y	6	24.705	51.305	3.018	2.271	1... H1-1b
341	M1507A	.167	6.894	12	.005	13.789	Y	10	27.927	51.305	3.018	2.271	1... H1-1b
342	M1508A	.167	6.894	18	.005	13.789	Y	10	27.927	51.305	3.018	2.271	1... H1-1b
343	M1509A	.167	6.894	16	.005	13.789	Y	18	27.927	51.305	3.018	2.271	1... H1-1b
344	M1510A	.167	6.894	14	.005	13.789	Y	16	27.927	51.305	3.018	2.271	1... H1-1b
345	M1489A	.277	8.883	14	.007	17.766	Y	2	18.652	51.305	3.018	2.271	1... H1-1b
346	M1490A	.277	8.883	17	.007	17.766	Y	6	18.652	51.305	3.018	2.271	1... H1-1b
347	M1491A	.277	8.883	18	.007	17.766	Y	7	18.652	51.305	3.018	2.271	1... H1-1b
348	M1492A	.277	8.883	11	.007	17.766	Y	9	18.652	51.305	3.018	2.271	1... H1-1b
349	M1493A	.237	8.22	12	.006	16.44	Y	4	21.61	51.305	3.018	2.271	1... H1-1b
350	M1494A	.237	8.22	18	.006	16.44	Y	5	21.61	51.305	3.018	2.271	1... H1-1b
351	M1495A	.237	8.22	16	.006	16.44	Y	2	21.61	51.305	3.018	2.271	1... H1-1b
352	M1496A	.237	8.22	14	.006	16.44	Y	7	21.61	51.305	3.018	2.271	1... H1-1b
353	M1471A	.080	9.546	7	.003	9.546	Y	7	16.151	51.305	3.018	1.419	1... H1-1b
354	M1472A	.080	9.546	5	.003	9.546	Y	5	16.151	51.305	3.018	1.419	1... H1-1b
355	M1473A	.080	9.546	3	.003	9.546	Y	3	16.151	51.305	3.018	1.419	1... H1-1b
356	M1474A	.080	9.546	9	.003	9.546	Y	9	16.151	51.305	3.018	1.419	1... H1-1b
357	M1448A	.100	10.872	7	.004	10.872	Y	7	12.982	56.91	4.275	1.43	1... H1-1b
358	M1449A	.100	10.872	5	.004	10.872	Y	5	12.982	56.91	4.275	1.43	1... H1-1b
359	M1450A	.100	10.872	3	.004	10.872	Y	3	12.982	56.91	4.275	1.43	1... H1-1b
360	M1451A	.123	12.198	7	.004	12.198	Y	9	12.982	56.91	4.275	1.43	1... H1-1b
361	M1425B	.123	12.198	5	.004	12.198	Y	5	10.313	56.91	4.275	1.43	1... H1-1b
362	M1426A	.123	12.198	3	.004	12.198	Y	3	10.313	56.91	4.275	1.43	1... H1-1b
363	M1427A	.123	12.198	9	.004	12.198	Y	9	10.313	56.91	4.275	1.43	1... H1-1b
364	M1428A	.214	4.508	8	.002	9.016	Y	15	6.329	31.042	1.123	1.93	1... H2-1
365	M1378	.206	4.508	4	.002	0	Y	17	6.329	31.042	1.123	1.93	1... H2-1
366	M1379	.310	4.508	5	.002	9.016	Y	14	6.329	31.042	1.123	1.93	1... H2-1
367	M1380	.302	4.508	9	.002	9.016	Y	15	6.329	31.042	1.123	1.93	1... H2-1
368	M1381	.324	4.508	4	.002	0	Y	12	6.329	31.042	1.123	1.93	1... H2-1
369	M1382	.332	4.508	8	.002	9.016	Y	13	6.329	31.042	1.123	1.93	1... H2-1
370	M1383	.256	4.508	3	.002	9.016	Y	11	6.329	31.042	1.123	1.93	1... H2-1
371	M1384	.263	4.508	7	.002	9.016	Y	10	6.329	31.042	1.123	1.93	1... H2-1
372	M1385	.141	3.756	3	.002	7.513	Y	14	9.114	31.042	1.123	2.04	1... H2-1
373	M1406												

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Member	Shape	Code Check	Locftl	LC Shear C...	Locftl	Dir	LC	Pnc/om [k]	Prt/om [k]	Mny/om [k-ft]	Minz/om [k-ft]	Cb	Ean
374	M1407	L3X3X4	.116	3.324	7	.002	0	Y	17	11.637	31.042	2.109	1... H2-1
375	M1408	L3X3X4	.111	3.324	4	.002	6.648	Y	12	11.637	31.042	2.109	1... H2-1
376	M1409	L3X3X4	.149	3.756	7	.002	0	Y	18	9.114	31.042	2.04	1... H2-1
377	M1410	L3X3X4	.226	3.756	9	.002	7.513	Y	16	9.114	31.042	2.04	1... H2-1
378	M1411	L3X3X4	.175	3.324	5	.002	0	Y	12	11.637	31.042	2.109	1... H2-1
379	M1412	L3X3X4	.170	3.324	9	.002	6.648	Y	18	11.637	31.042	2.109	1... H2-1
380	M1413	L3X3X4	.234	3.756	5	.002	0	Y	15	9.114	31.042	2.04	1... H2-1
381	M1414	L3X3X4	.248	3.756	8	.002	7.513	Y	17	9.114	31.042	2.109	1... H2-1
382	M1415	L3X3X4	.182	3.324	4	.002	0	Y	15	11.637	31.042	2.109	1... H2-1
383	M1416	L3X3X4	.186	3.324	8	.002	0	Y	14	11.637	31.042	2.04	1... H2-1
384	M1417	L3X3X4	.242	3.756	4	.002	0	Y	15	9.114	31.042	2.04	1... H2-1
385	M1418	L3X3X4	.194	3.756	7	.002	7.513	Y	13	9.114	31.042	2.109	1... H2-1
386	M1419	L3X3X4	.142	3.324	3	.002	0	Y	17	11.637	31.042	2.109	1... H2-1
387	M1420	L3X3X4	.147	3.324	7	.002	6.648	Y	15	11.637	31.042	2.109	1... H2-1
388	M1421	L3X3X4	.186	3.756	3	.002	0	Y	11	9.114	31.042	2.04	1... H2-1
389	M1479	L2.5X2.5X3	.033	3.375	4	.002	0	Y	4	4.79	19.401	1.011	1... H2-1
390	M1482A	L2.5X2.5X3	.033	3.375	2	.002	0	Y	3	4.79	19.401	1.011	1... H2-1
391	M1485	L2.5X2.5X3	.033	3.375	8	.002	0	Y	5	4.79	19.401	1.011	1... H2-1
392	M1488	L2.5X2.5X3	.033	3.375	6	.002	0	Y	4	3.693	19.401	.966	1... H2-1
393	M1456	L2.5X2.5X3	.044	3.844	4	.002	0	Y	3	3.693	19.401	.966	1... H2-1
394	M1459A	L2.5X2.5X3	.044	3.844	8	.002	0	Y	6	3.693	19.401	.966	1... H2-1
395	M1462	L2.5X2.5X3	.044	3.844	6	.002	0	Y	5	3.693	19.401	.924	1... H2-1
396	M1465	L2.5X2.5X3	.057	4.313	2	.002	0	Y	4	2.934	19.401	.924	1... H2-1
397	M1433	L2.5X2.5X3	.057	4.313	4	.002	0	Y	4	2.934	19.401	.924	1... H2-1
398	M1434	L2.5X2.5X3	.057	4.313	8	.002	8.625	Y	8	2.934	19.401	.924	1... H2-1
399	M1435	L2.5X2.5X3	.057	4.313	6	.002	8.625	Y	7	2.934	19.401	.924	1... H2-1
400	M1436	L2.5X2.5X3	.021	3.797	4	.002	7.594	Y	9	28.428	46.994	2.496	1 H1-1b
401	M1097	LL3x3x3x0	.021	3.797	2	.002	7.594	Y	7	28.428	46.994	2.496	1 H1-1b
402	M1099	LL3x3x3x0	.021	3.797	8	.002	7.594	Y	5	28.428	46.994	2.496	1 H1-1b
403	M1101	LL3x3x3x0	.021	3.797	6	.002	7.594	Y	3	28.428	46.994	2.496	1 H1-1b
404	M1103	LL3x3x3x0	.058	4.95	9	.002	0	Y	18	6.553	33.629	2.011	1... H2-1
405	M1347	L3.5X3X4	.059	4.95	3	.002	0	Y	18	6.553	33.629	2.011	1... H2-1
406	M1348	L3.5X3X4	.059	4.95	6	.002	9.899	Y	12	6.553	33.629	2.011	1... H2-1
407	M1349	L3.5X3X4	.060	4.95	9	.002	0	Y	10	6.553	33.629	2.011	1... H2-1
408	M1350	L3.5X3X4	.060	4.95	5	.002	9.899	Y	17	6.553	33.629	2.011	1... H2-1
409	M1351	L3.5X3X4	.060	4.95	8	.002	9.899	Y	17	6.553	33.629	2.011	1... H2-1
410	M1352	L3.5X3X4	.059	4.95	3	.002	9.899	Y	15	6.553	33.629	2.011	1... H2-1
411	M1353	L3.5X3X4	.058	4.95	6	.002	9.899	Y	12	6.553	33.629	2.011	1... H2-1
412	M1354	L3.5X3X4	.061	5.392	2	.003	10.783	Y	11	7.181	36.431	2.502	1... H2-1
413	M1316	L3.5X3.5X4	.061	5.392	2	.003	0	Y	16	7.181	36.431	2.502	1... H2-1
414	M1317	L3.5X3.5X4	.061	5.392	2	.003	0	Y	16	7.181	36.431	2.502	1... H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc(1)	LC	Shear C...	Loc(1)	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Eqn
415	M1318	.061	5.392	6	.003	10.783	Y	12	7.181	36.431	1.598	2.502	1....	H2-1
416	M1319	.062	5.392	9	.003	0	Y	7	7.181	36.431	1.598	2.502	1....	H2-1
417	M1320	.062	5.392	5	.003	10.783	Y	17	7.181	36.431	1.598	2.502	1....	H2-1
418	M1321	.062	5.392	7	.003	0	Y	10	7.181	36.431	1.598	2.502	1....	H2-1
419	M1322	.061	5.392	3	.003	10.783	Y	17	7.181	36.431	1.598	2.502	1....	H2-1
420	M1323	.061	5.392	5	.003	0	Y	14	7.181	36.431	1.598	2.502	1....	H2-1
421	M1246	.121	4.707	2	.002	9.413	Y	2	21.732	46.994	3.209	2.496	1	H1-1b
422	M1247	.121	4.707	8	.002	9.413	Y	1	21.732	46.994	3.209	2.496	1	H1-1b
423	M1248	.121	4.707	6	.002	9.413	Y	7	21.732	46.994	3.209	2.496	1	H1-1b
424	M1249	.121	4.707	6	.002	9.413	Y	6	21.732	46.994	3.209	2.496	1	H1-1b
425	M1250	.121	4.707	6	.002	9.413	Y	1	21.732	46.994	3.209	2.496	1	H1-1b
426	M1251	.121	4.707	4	.002	9.413	Y	4	21.732	46.994	3.209	2.496	1	H1-1b
427	M1252	.121	4.707	4	.002	9.413	Y	3	21.732	46.994	3.209	2.496	1	H1-1b
428	M1253	.121	4.707	2	.002	9.413	Y	2	21.732	46.994	3.209	2.496	1	H1-1b
429	M1253A	.111	4.375	4	.002	0	Y	2	24.126	46.994	3.209	2.496	1	H1-1b
430	M1254A	.111	4.375	2	.002	0	Y	2	24.126	46.994	3.209	2.496	1	H1-1b
431	M1268	.110	4.375	8	.002	0	Y	2	24.126	46.994	3.209	2.496	1	H1-1b
432	M1269	.110	4.375	8	.002	0	Y	2	24.126	46.994	3.209	2.496	1	H1-1b
433	M1283	.110	4.375	8	.002	0	Y	6	24.126	46.994	3.209	2.496	1	H1-1b
434	M1284	.110	4.375	6	.002	0	Y	5	24.126	46.994	3.209	2.496	1	H1-1b
435	M1298	.110	4.375	6	.002	0	Y	5	24.126	46.994	3.209	2.496	1	H1-1b
436	M1299	.110	4.375	4	.002	0	Y	3	24.126	46.994	3.209	2.496	1	H1-1b
437	M1147	.392	5.038	2	.003	10.076	Y	2	11.206	38.802	2.251	1.737	1	H1-1a
438	M1148	.390	5.038	8	.003	10.076	Y	8	11.206	38.802	2.251	1.737	1	H1-1a
439	M1149	.390	5.038	8	.003	10.076	Y	8	11.206	38.802	2.251	1.737	1	H1-1a
440	M1150	.390	5.038	6	.003	10.076	Y	5	11.206	38.802	2.251	1.737	1	H1-1a
441	M1151	.390	5.038	6	.003	10.076	Y	6	11.206	38.802	2.251	1.737	1	H1-1a
442	M1152	.391	5.038	4	.003	10.076	Y	3	11.206	38.802	2.251	1.737	1	H1-1a
443	M1153	.392	5.038	4	.003	10.076	Y	4	11.206	38.802	2.251	1.737	1	H1-1a
444	M1154	.392	5.038	2	.003	10.076	Y	2	11.206	38.802	2.251	1.737	1	H1-1a
445	M1088	.347	5.37	2	.003	10.739	Y	2	9.865	38.802	2.251	1.737	1	H1-1a
446	M1089	.345	5.37	8	.003	10.739	Y	7	9.865	38.802	2.251	1.737	1	H1-1a
447	M1090	.345	5.37	8	.003	10.739	Y	8	9.865	38.802	2.251	1.737	1	H1-1a
448	M1091	.344	5.37	6	.003	10.739	Y	5	9.865	38.802	2.251	1.737	1	H1-1a
449	M1092	.344	5.37	6	.003	10.739	Y	6	9.865	38.802	2.251	1.737	1	H1-1a
450	M1093	.346	5.37	4	.003	10.739	Y	3	9.865	38.802	2.251	1.737	1	H1-1a
451	M1094	.346	5.37	4	.003	10.739	Y	4	9.865	38.802	2.251	1.737	1	H1-1a
452	M1095	.347	5.37	2	.003	10.739	Y	2	9.865	38.802	2.251	1.737	1	H1-1a
453	M1533A	.011	0	8	.002	7.875	Y	2	6.147	28.24	.357	1.615	1....	H2-1
454	M1534	.011	0	6	.002	7.875	Y	8	6.147	28.24	.357	1.615	1....	H2-1
455	M1535	.011	0	4	.002	0	Y	2	6.147	28.24	.357	1.615	1....	H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftfl	L.C. Shear C.	Locftfl	Dir	L.C.	Pnc/om Ik-ftl	Pnt/om Ik-ftl	Mnxv/om Ik-ftl	Mnzz/om Ik-ftl	Cb	Ean
456	M1536	L3x2 1/2x1/4	.011	0	2	.002	7.875	Y	3	6.147	28.24	1.615	1... H2-1
457	M1526A	L3x2 1/2x1/4	.192	0	4	.002	8.813	Y	2	4.909	28.24	1.555	1... H2-1
458	M1527	L3x2 1/2x1/4	.193	0	2	.002	8.813	Y	4	4.909	28.24	1.555	1... H2-1
459	M1528	L3x2 1/2x1/4	.194	0	8	.002	8.813	Y	2	4.909	28.24	1.555	1... H2-1
460	M1529	L3x2 1/2x1/4	.194	0	6	.002	0	Y	3	4.909	28.24	1.555	1... H2-1
461	M1511A	2L2 1/2x2x3/16	.047	5.344	15	.002	10.688	Y	2	8.907	34.922	1.451	1... H1-1b
462	M1512A	2L2 1/2x2x3/16	.047	5.344	13	.002	0	Y	3	8.907	34.922	1.451	1... H1-1b
463	M1513	2L2 1/2x2x3/16	.047	5.344	17	.002	0	Y	2	8.907	34.922	1.451	1... H1-1b
464	M1514	2L2 1/2x2x3/16	.047	5.344	11	.002	10.688	Y	3	8.907	34.922	1.451	1... H1-1b
465	M1515	2L2 1/2x2x3/16	.039	4.875	11	.002	0	Y	2	10.62	34.922	1.451	1... H1-1b
466	M1516	2L2 1/2x2x3/16	.039	4.875	15	.002	9.75	Y	3	10.62	34.922	1.451	1... H1-1b
467	M1517	2L2 1/2x2x3/16	.039	4.875	11	.002	9.75	Y	2	10.62	34.922	1.451	1... H1-1b
468	M1518	2L2 1/2x2x3/16	.039	4.875	15	.002	0	Y	3	10.62	34.922	1.451	1... H1-1b
469	M1497A	2L2 1/2x2x3/16	.055	5.813	14	.003	11.625	Y	2	7.572	34.922	1.451	1... H1-1b
470	M1498A	2L2 1/2x2x3/16	.055	5.813	12	.003	11.625	Y	4	7.572	34.922	1.451	1... H1-1b
471	M1499	2L2 1/2x2x3/16	.055	5.813	17	.003	0	Y	2	7.572	34.922	1.451	1... H1-1b
472	M1500	2L2 1/2x2x3/16	.055	5.813	12	.003	0	Y	4	7.572	34.922	1.451	1... H1-1b
473	M1501	2L2 1/2x2x3/16	.064	6.281	11	.003	0	Y	5	6.513	34.922	1.451	1... H1-1b
474	M1502	2L2 1/2x2x3/16	.064	6.281	15	.003	0	Y	3	6.513	34.922	1.451	1... H1-1b
475	M1503	2L2 1/2x2x3/16	.064	6.281	12	.003	0	Y	2	6.513	34.922	1.451	1... H1-1b
476	M1504	2L2 1/2x2x3/16	.064	6.281	13	.003	0	Y	7	6.513	34.922	1.451	1... H1-1b
477	M1475A	2L2 1/2x2 1/2x1/4	.099	6.75	4	.004	0	Y	9	28.639	51.305	3.018	1... H1-1b
478	M1476	2L2 1/2x2 1/2x1/4	.099	6.75	2	.004	0	Y	12	28.639	51.305	3.018	1... H1-1b
479	M1477	2L2 1/2x2 1/2x1/4	.099	6.75	8	.004	13.5	Y	3	28.639	51.305	3.018	1... H1-1b
480	M1478	2L2 1/2x2 1/2x1/4	.099	6.75	6	.004	13.5	Y	14	28.639	51.305	3.018	1... H1-1b
481	M1452A	2L2 1/2x2 1/2x1/4	.129	7.688	2	.004	15.375	Y	15	24.085	51.305	3.018	1... H1-1b
482	M1453	2L2 1/2x2 1/2x1/4	.129	7.688	8	.004	15.375	Y	11	24.085	51.305	3.018	1... H1-1b
483	M1454	2L2 1/2x2 1/2x1/4	.129	7.688	6	.004	15.375	Y	12	24.085	51.305	3.018	1... H1-1b
484	M1455	2L2 1/2x2 1/2x1/4	.129	7.688	4	.004	0	Y	2	24.085	51.305	3.018	1... H1-1b
485	M1429A	2L2 1/2x2 1/2x1/4	.163	8.625	8	.005	0	Y	5	19.784	51.305	3.018	1... H1-1b
486	M1430	2L2 1/2x2 1/2x1/4	.163	8.625	6	.005	0	Y	12	19.784	51.305	3.018	1... H1-1b
487	M1431	2L2 1/2x2 1/2x1/4	.163	8.625	4	.005	17.25	Y	25	19.784	51.305	3.018	1... H1-1b
488	M1432	2L2 1/2x2 1/2x1/4	.163	8.625	2	.005	0	Y	14	19.784	51.305	3.018	1... H1-1b
489	M1374A	2L3x4x1/4	.407	12.75	7	.009	0	Y	3	17.401	72.862	7.494	1... H1-1b
490	M1375	2L3x4x1/4	.419	12.75	5	.009	0	Y	16	17.401	72.862	7.494	1... H1-1b
491	M1376	2L3x4x1/4	.419	12.75	9	.009	0	Y	11	17.401	72.862	7.494	1... H1-1b
492	M1377	2L3x4x1/4	.414	12.75	7	.009	0	Y	14	17.401	72.862	7.494	1... H1-1b
493	M1402	2L3x4x1/4	.558	15.613	2	.011	31.225	Y	11	26.111	72.862	7.494	2... H1-1b
494	M1403	2L3x4x1/4	.572	20.817	9	.011	0	Y	13	26.111	72.862	7.494	2... H1-1b
495	M1404	2L3x4x1/4	.572	10.408	5	.011	0	Y	17	26.111	72.862	7.494	2... H1-1b
496	M1405	2L3x4x1/4	.558	15.613	4	.011	0	Y	16	26.111	72.862	7.494	1... H1-1b

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Company : GPD Group
Designer : awestrum
Job Number : 2012857.08 Rev A

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC Shear C...	Loc[ft]	Dir	LC	Pnc[om [k]	Pnt[om [k]	Mnyy[om [k-ft]	Mnzz[om [k-ft]	Cb	Eon
497	M1343A	.447	14	4	.010	28	Y 21	14.432	72.862	7.494	3.439	1....	H1-1b
498	M1344	.447	14	2	.010	28	Y 26	14.432	72.862	7.494	3.439	1....	H1-1b
499	M1345	.447	14	8	.010	28	Y 10	14.432	72.862	7.494	3.439	1....	H1-1b
500	M1346	.447	14	6	.010	28	Y 1	14.432	72.862	7.494	3.439	1....	H1-1b
501	M1312A	.440	15.25	4	.010	30.5	Y 16	19.442	83.533	9.459	4.714	1....	H1-1b
502	M1313	.440	15.25	2	.010	30.5	Y 2	19.442	83.533	9.459	4.714	1....	H1-1b
503	M1314	.440	15.25	8	.010	30.5	Y 1	19.442	83.533	9.459	4.714	1....	H1-1b
504	M1315	.440	15.25	6	.010	30.5	Y 1	19.442	83.533	9.459	4.714	1....	H1-1b
505	M1254	.447	6.656	8	.003	0	Y 1	13.841	56.695	3.024	3.23	1	H1-1a
506	M1255	.447	6.656	6	.003	0	Y 1	13.841	56.695	3.024	3.23	1	H1-1a
507	M1256	.448	6.656	4	.003	0	Y 1	13.841	56.695	3.024	3.23	1	H1-1a
508	M1257	.448	6.656	2	.003	0	Y 1	13.841	56.695	3.024	3.23	1	H1-1a
509	M1309	.396	6.188	8	.003	0	Y 1	16.018	56.695	3.024	3.23	1	H1-1a
510	M1310	.396	6.188	6	.003	0	Y 1	16.018	56.695	3.024	3.23	1	H1-1a
511	M1311	.397	6.188	4	.003	0	Y 1	16.018	56.695	3.024	3.23	1	H1-1a
512	M1312	.397	6.188	2	.003	0	Y 1	16.018	56.695	3.024	3.23	1	H1-1a
513	M1155	.523	7.125	8	.003	0	Y 1	12.08	56.695	3.024	3.23	1	H1-1a
514	M1156	.523	7.125	6	.003	0	Y 1	12.08	56.695	3.024	3.23	1	H1-1a
515	M1157	.525	7.125	4	.003	0	Y 1	12.08	56.695	3.024	3.23	1	H1-1a
516	M1158	.525	7.125	2	.003	0	Y 1	12.08	56.695	3.024	3.23	1	H1-1a
517	M1032	1.185	23.094	7	.014	0	Y 15	18.397	56.695	3.024	3.23	1....	H1-1b
518	M1033	1.201	23.094	5	.014	0	Y 16	18.397	56.695	3.024	3.23	2....	H1-1b
519	M1034	1.223	31.273	9	.014	0	Y 20	10.349	56.695	3.024	3.23	1....	H1-1a
520	M1035	1.193	23.094	7	.014	0	Y 6	18.397	56.695	3.024	3.23	1....	H1-1b
521	M1096	.178	7.594	8	.004	15.188	Y 17	34.078	56.695	3.024	3.23	1....	H1-1b
522	M1098	.178	7.594	6	.004	15.188	Y 2	34.078	56.695	3.024	3.23	1....	H1-1b
523	M1100	.178	7.594	4	.004	0	Y 16	34.078	56.695	3.024	3.23	1....	H1-1b
524	M1102	.179	7.594	2	.004	15.188	Y 10	34.078	56.695	3.024	3.23	1....	H1-1b
525	M1036	.293	5.481	4	.003	0	Y 16	4.28	31.042	1.123	1.8	1....	H2-1
526	M1037	.310	5.481	8	.003	0	Y 11	4.28	31.042	1.123	1.8	1....	H2-1
527	M1038	.121	3.953	4	.002	7.907	Y 18	8.228	31.042	1.123	2.01	1....	H2-1
528	M1039	.305	5.445	8	.003	0	Y 11	4.337	31.042	1.123	1.804	1....	H2-1
529	M1040	.154	4.352	4	.002	8.704	Y 17	6.789	31.042	1.123	1.952	1....	H2-1
530	M1041	.175	4.42	8	.002	8.839	Y 14	6.583	31.042	1.123	1.942	1....	H2-1
531	M1042	.469	5.481	9	.003	0	Y 5	4.28	31.042	1.123	1.8	1....	H2-1
532	M1043	.492	5.481	5	.003	10.962	Y 14	4.28	31.042	1.123	1.8	1....	H2-1
533	M1044	.188	3.953	9	.002	7.907	Y 13	8.228	31.042	1.123	2.01	1....	H2-1
534	M1045	.484	5.445	5	.003	0	Y 14	4.337	31.042	1.123	1.804	1....	H2-1
535	M1046	.242	4.352	9	.002	8.704	Y 10	6.789	31.042	1.123	1.952	1....	H2-1
536	M1047	.269	4.42	5	.002	8.839	Y 14	6.583	31.042	1.123	1.942	1....	H2-1
537	M1048	.519	5.481	8	.003	0	Y 13	4.28	31.042	1.123	1.8	1....	H2-1

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Designer : awestrum
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locfltr	LC	Shear C...	Locfltr	Dir	LC	Pncz/om [k]	Pnt/om [k]	Mnvz/om [k-ft]	Mnzz/om [k-ft]	Cb	Eon
538	M1049	L3X3X4	.524	5.481	4	.003	10.962	Y	13	4.28	31.042	1.123	1.8	1... H2-1
539	M1050	L3X3X4	.206	3.953	8	.002	7.907	Y	10	8.228	31.042	1.123	2.01	1... H2-1
540	M1051	L3X3X4	.514	5.445	4	.003	0	Y	16	4.337	31.042	1.123	1.804	1... H2-1
541	M1052	L3X3X4	.268	4.352	8	.002	8.704	Y	14	6.789	31.042	1.123	1.952	1... H2-1
542	M1053	L3X3X4	.287	4.42	4	.002	8.839	Y	17	6.583	31.042	1.123	1.942	1... H2-1
543	M1054	L3X3X4	.394	5.481	7	.003	0	Y	3	4.28	31.042	1.123	1.8	1... H2-1
544	M1055	L3X3X4	.393	5.481	3	.003	10.962	Y	14	4.28	31.042	1.123	1.8	1... H2-1
545	M1056	L3X3X4	.158	3.953	7	.002	7.907	Y	18	8.228	31.042	1.123	2.01	1... H2-1
546	M1057	L3X3X4	.383	5.445	3	.003	0	Y	15	4.337	31.042	1.123	1.804	1... H2-1
547	M1058	L3X3X4	.205	4.352	7	.002	8.704	Y	13	6.789	31.042	1.123	1.952	1... H2-1
548	M1059	L3X3X4	.218	4.42	3	.002	8.839	Y	15	6.583	31.042	1.123	1.942	1... H2-1
549	M1	L6X6X5/8	.051	5.499	7	.028	12.57	Z	2	119.682	153.269	4.412	24.452	2... H2-1
550	M2	L6X6X5/8	.051	5.63	5	.028	12.57	Z	8	119.682	153.269	4.412	24.452	2... H2-1
551	M3	L6X6X5/8	.052	5.499	3	.026	12.57	V	8	119.682	153.269	4.412	24.452	1... H2-1
552	M4	L6X6X5/8	.051	5.63	9	.028	12.57	V	6	119.682	153.269	4.412	23.845	1... H2-1
553	M21	L6X6X5/8	.128	2.095	7	.022	12.57	Y	4	120.187	153.269	4.412	24.45	2... H2-1
554	M22	L6X6X5/8	.127	2.226	5	.023	12.57	Y	2	120.187	153.269	4.412	24.452	2... H2-1
555	M23	L6X6X5/8	.131	2.095	3	.023	12.57	Z	6	120.187	153.269	4.412	24.452	2... H2-1
556	M24	L6X6X5/8	.122	2.226	9	.021	12.57	Z	4	120.187	153.269	4.412	24.452	2... H2-1
557	M41	L6X6X7/8	.170	4.452	7	.001	6.678	Y	7	164.331	209.749	6.07	32.062	2... H2-1
558	M42	L6X6X7/8	.168	4.452	5	.002	0	Y	2	164.331	209.749	6.07	32.062	2... H2-1
559	M43	L6X6X7/8	.175	4.452	3	.003	0	Y	9	164.331	209.749	6.07	32.062	2... H2-1
560	M44	L6X6X7/8	.166	4.452	9	.002	0	Z	4	164.331	209.749	6.07	32.062	2... H2-1
561	M66	L6X6X7/8	.215	4.19	7	.005	0	Z	9	168.536	209.749	6.07	32.041	1... H2-1
562	M67	L6X6X7/8	.215	8.773	5	.006	0	Z	7	168.536	209.749	6.07	32.062	1... H2-1
563	M68	L6X6X7/8	.219	4.059	3	.007	0	Y	9	168.536	209.749	6.07	32.062	2... H2-1
564	M69	L6X6X7/8	.210	8.642	9	.006	0	Y	7	168.536	209.749	6.07	32.062	1... H2-1
565	M103	L6X6X7/8	.374	9.428	7	.006	0	Z	9	168.536	209.749	6.07	32.062	2... H2-1
566	M104	L6X6X7/8	.369	9.428	5	.007	0	Z	7	168.536	209.749	6.07	32.062	2... H2-1
567	M105	L6X6X7/8	.378	9.428	3	.008	0	Y	9	168.536	209.749	6.07	31.006	2... H2-1
568	M106	L6X6X7/8	.368	9.428	9	.007	0	Y	7	168.536	209.749	6.07	28.971	1... H2-1
569	M173	L8X8X3/4	.423	9.166	7	.010	0	Z	9	217.969	245.749	9.491	52.846	2... H2-1
570	M174	L8X8X3/4	.420	9.166	5	.012	12.57	Y	2	217.969	245.749	9.491	52.846	2... H2-1
571	M175	L8X8X3/4	.431	9.166	3	.015	12.57	Y	9	217.969	245.749	9.491	51.794	3 H2-1
572	M176	L8X8X3/4	.415	9.166	9	.013	0	Y	7	217.969	245.749	9.491	44.81	1... H2-1
573	M243	L8X8X7/8	.449	2.357	7	.009	0	Z	9	229.278	284.551	10.904	60.335	1 H2-1
574	M244	L8X8X7/8	.458	2.619	5	.011	0	Z	7	229.278	284.551	10.904	58.875	2... H2-1
575	M245	L8X8X7/8	.461	2.095	3	.014	0	Y	9	229.278	284.551	10.904	56.73	1... H2-1
576	M246	L8X8X7/8	.452	2.357	9	.012	0	Y	7	229.278	284.551	10.904	60.335	1 H2-1
577	M304	L8X8X1 1/8	.481	23.045	7	.005	25.14	Z	9	289.267	360	13.828	74.004	2... H2-1
578	M305	L8X8X1 1/8	.487	23.831	5	.006	25.14	Z	7	289.267	360	13.828	74.004	2... H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftl	L.C	Shear C...	Locftl	Dir	LC	Pnc/om.lk	Pnt/om.lk	Mnv/om.lk-ftl	Mnz/om.lk-ftl	Cb	Ean
620	M295	2L2 1/2x2x3/16	.623	5.669	8	.004	11.831	Y 11	7.917	34.922	1.451	1.688	1	H1-1a
621	M313	2L2 1/2x2x3/16	.644	6.108	6	.004	12.747	Y 17	6.775	34.922	1.451	1.688	1	H1-1a
622	M318	2L2 1/2x2x3/16	.654	6.108	6	.004	12.747	Y 15	6.775	34.922	1.451	1.688	1	H1-1a
623	M325	2L2 1/2x2x3/16	.682	6.108	4	.004	12.747	Y 12	6.775	34.922	1.451	1.688	1	H1-1a
624	M330	2L2 1/2x2x3/16	.637	6.108	4	.004	0	Y 11	6.775	34.922	1.451	1.688	1	H1-1a
625	M338	2L2 1/2x2x3/16	.659	6.108	2	.004	0	Y 12	6.775	34.922	1.451	1.688	1	H1-1a
626	M343	2L2 1/2x2x3/16	.654	6.108	2	.004	12.747	Y 12	6.775	34.922	1.451	1.688	1	H1-1a
627	M351	2L2 1/2x2x3/16	.626	6.108	8	.004	0	Y 15	6.775	34.922	1.451	1.688	1	H1-1a
628	M356	2L2 1/2x2x3/16	.666	6.108	8	.004	12.747	Y 12	6.775	34.922	1.451	1.688	1	H1-1a
629	M374	2L3x2x1/4	.673	6.572	6	.004	13.715	Y 14	7.881	51.305	1.956	3.105	1	H1-1a
630	M379	2L3x2x1/4	.670	6.572	6	.004	13.715	Y 16	7.881	51.305	1.956	3.105	1	H1-1a
631	M386	2L3x2x1/4	.701	6.572	4	.004	0	Y 18	7.881	51.305	1.956	3.105	1	H1-1a
632	M391	2L3x2x1/4	.665	6.572	4	.004	13.715	Y 15	7.881	51.305	1.956	3.105	1	H1-1a
633	M399	2L3x2x1/4	.681	6.572	2	.004	13.715	Y 13	7.881	51.305	1.956	3.105	1	H1-1a
634	M404	2L3x2x1/4	.684	6.572	2	.004	0	Y 17	7.881	51.305	1.956	3.105	1	H1-1a
635	M412	2L3x2x1/4	.653	6.572	8	.004	13.715	Y 15	7.881	51.305	1.956	3.105	1	H1-1a
636	M417	2L3x2x1/4	.689	6.572	8	.004	13.715	Y 11	7.881	51.305	1.956	3.105	1	H1-1a
637	M435	LL3x3x6x3	.689	5.547	7	.003	0	Y 15	31.091	90.97	7.565	4.754	1	H1-1a
638	M440	LL3x3x6x3	.665	5.547	5	.003	11.329	Y 15	31.091	90.97	7.565	4.754	1	H1-1a
639	M451	LL3x3x6x3	.725	5.547	5	.003	0	Y 12	31.091	90.97	7.565	4.754	1	H1-1a
640	M456	LL3x3x6x3	.692	5.547	3	.003	0	Y 16	31.091	90.97	7.565	4.754	1	H1-1a
641	M470	LL3x3x6x3	.715	5.547	3	.003	11.329	Y 16	31.091	90.97	7.565	4.754	1	H1-1a
642	M475	LL3x3x6x3	.725	5.547	9	.003	11.329	Y 13	31.091	90.97	7.565	4.754	1	H1-1a
643	M489	LL3x3x6x3	.665	5.547	9	.003	0	Y 15	31.091	90.97	7.565	4.754	1	H1-1a
644	M494	LL3x3x6x3	.712	5.547	7	.003	11.329	Y 12	31.091	90.97	7.565	4.754	1	H1-1a
645	M520	LL3x3x6x3	.881	5.801	7	.003	0	Y 13	28.21	90.97	7.565	4.754	1	H1-1a
646	M525	LL3x3x6x3	.828	5.801	5	.003	0	Y 15	28.21	90.97	7.565	4.754	1	H1-1a
647	M534	LL3x3x6x3	.984	5.801	5	.003	11.849	Y 18	28.21	90.97	7.565	4.754	1	H1-1a
648	M539	LL3x3x6x3	.881	5.801	3	.003	11.849	Y 16	28.21	90.97	7.565	4.754	1	H1-1a
649	M551	LL3x3x6x3	.946	5.801	3	.003	11.849	Y 16	28.21	90.97	7.565	4.754	1	H1-1a
650	M556	LL3x3x6x3	.984	5.801	9	.003	11.849	Y 13	28.21	90.97	7.565	4.754	1	H1-1a
651	M568	LL3x3x6x3	.828	5.801	9	.003	0	Y 11	28.21	90.97	7.565	4.754	1	H1-1a
652	M573	LL3x3x6x3	.946	5.801	7	.003	11.849	Y 18	28.21	90.97	7.565	4.754	1	H1-1a
653	M597	LL3.5x3.5x6x3	.742	6.067	7	.003	0	Y 12	41.88	107.784	9.977	6.576	1	H1-1a
654	M602	LL3.5x3.5x6x3	.703	6.067	5	.003	12.392	Y 16	41.88	107.784	9.977	6.576	1	H1-1a
655	M611	LL3.5x3.5x6x3	.821	6.067	5	.003	0	Y 12	41.88	107.784	9.977	6.576	1	H1-1a
656	M616	LL3.5x3.5x6x3	.743	6.067	3	.003	12.392	Y 15	41.88	107.784	9.977	6.576	1	H1-1a
657	M628	LL3.5x3.5x6x3	.795	6.067	3	.003	12.392	Y 17	41.88	107.784	9.977	6.576	1	H1-1a
658	M633	LL3.5x3.5x6x3	.821	6.067	9	.003	12.392	Y 13	41.88	107.784	9.977	6.576	1	H1-1a
659	M645	LL3.5x3.5x6x3	.704	6.067	9	.003	12.392	Y 14	41.88	107.784	9.977	6.576	1	H1-1a
660	M650	LL3.5x3.5x6x3	.793	6.067	7	.003	12.392	Y 17	41.88	107.784	9.977	6.576	1	H1-1a

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Company : GPD Group
Designer : awestrum
Job Number : 2012857.08 Rev A

Envelope AISI 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc1ft	LC Shear C...	Loc1ft	Dir	LC	Pnc/om.lk	Pnt/om.lk	Mnyz/om.lk-ftl	Mnzz/om.lk-ftl	Cb	Egn
661	M674	1.084	7.311	7.005	14.932	Y	14	17.595	90.97	7.565	4.754	1	H1-1a
662	M679	1.034	7.311	5.005	0	Y	17	17.595	90.97	7.565	4.754	1	H1-1a
663	M690	1.201	7.311	5.005	14.932	Y	13	17.595	90.97	7.565	4.754	1	H1-1a
664	M695	1.085	7.311	3.005	14.932	Y	15	17.595	90.97	7.565	4.754	1	H1-1a
665	M709	1.165	7.311	3.005	14.932	Y	18	17.595	90.97	7.565	4.754	1	H1-1a
666	M714	1.201	7.311	9.005	0	Y	13	17.595	90.97	7.565	4.754	1	H1-1a
667	M728	1.034	7.311	9.005	14.932	Y	16	17.595	90.97	7.565	4.754	1	H1-1a
668	M733	1.164	7.311	7.005	0	Y	18	17.595	107.784	9.977	6.576	1	H1-1a
669	M759	.816	7.695	7.005	0	Y	13	25.952	107.784	9.977	6.576	1	H1-1a
670	M764	.781	7.695	5.005	15.718	Y	17	25.952	107.784	9.977	6.576	1	H1-1a
671	M775	.899	7.695	5.005	0	Y	11	25.952	107.784	9.977	6.576	1	H1-1a
672	M780	.818	7.695	3.005	15.718	Y	15	25.952	107.784	9.977	6.576	1	H1-1a
673	M794	.876	7.695	3.005	0	Y	11	25.952	107.784	9.977	6.576	1	H1-1a
674	M799	.899	7.695	9.005	15.718	Y	14	25.952	107.784	9.977	6.576	1	H1-1a
675	M813	.782	7.695	9.005	0	Y	15	25.952	107.784	9.977	6.576	1	H1-1a
676	M818	.875	7.695	7.005	0	Y	16	25.952	107.784	9.977	6.576	1	H1-1a
677	M844	1.004	8.26	7.003	8.26	Y	16	23.493	107.784	9.977	4.11	1	H1-1a
678	M849	.969	8.26	5.003	8.26	Y	14	23.493	107.784	9.977	4.11	1	H1-1a
679	M860	1.093	8.26	5.003	8.26	Y	14	23.493	107.784	9.977	4.11	1	H1-1a
680	M865	1.007	8.26	3.003	8.26	Y	12	23.493	107.784	9.977	4.11	1	H1-1a
681	M879	1.072	8.26	3.003	8.26	Y	12	23.493	107.784	9.977	4.11	1	H1-1a
682	M884	1.093	8.26	9.003	8.26	Y	18	23.493	107.784	9.977	4.11	1	H1-1a
683	M898	.971	8.26	7.003	8.26	Y	16	23.493	107.784	9.977	4.11	1	H1-1a
684	M903	1.070	8.26	7.003	8.26	Y	16	23.493	107.784	9.977	4.11	1	H1-1a
685	M929	1.199	8.667	7.004	8.667	Y	16	21.336	107.784	9.977	4.11	1	H1-1a
686	M934	1.182	8.667	5.004	8.667	Y	14	21.336	107.784	9.977	4.11	1	H1-1a
687	M945	1.254	8.667	5.004	8.667	Y	14	21.336	107.784	9.977	4.11	1	H1-1a
688	M950	1.213	8.667	3.004	8.667	Y	12	21.336	107.784	9.977	4.11	1	H1-1a
689	M964	1.249	8.667	3.004	8.667	Y	12	21.336	107.784	9.977	4.11	1	H1-1a
690	M969	1.260	8.667	9.004	8.667	Y	18	21.336	107.784	9.977	4.11	1	H1-1a
691	M983	1.177	8.667	9.004	8.667	Y	18	21.336	107.784	9.977	4.11	1	H1-1a
692	M988	1.246	8.667	7.004	8.667	Y	16	21.336	107.784	9.977	4.11	1	H1-1a
693	M73	.106	3.47	5.003	7.402	Y	14	3.004	17.44	.411	.678	1	H2-1
694	M76	.105	3.47	7.003	7.402	Y	16	3.004	17.44	.411	.678	1	H2-1
695	M80	.108	3.47	4.003	7.402	Y	13	3.004	17.44	.411	.678	1	H2-1
696	M83	.086	3.47	4.003	7.402	Y	13	3.004	17.44	.411	.678	1	H2-1
697	M87	.090	3.47	2.003	7.402	Y	11	3.004	17.44	.411	.678	1	H2-1
698	M90	.104	3.47	2.003	7.402	Y	11	3.004	17.44	.411	.678	1	H2-1
699	M94	.091	3.47	7.003	7.402	Y	16	3.004	17.44	.411	.678	1	H2-1
700	M97	.110	3.47	8.003	7.402	Y	17	3.004	17.44	.411	.678	1	H2-1
701	M110	.136	3.805	5.003	7.94	Y	14	3.718	19.401	.58	.921	1	H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftl	L.C. Shear C.	Locftl	Dir	L.C.	Pnc/om.lk	Pnt/om.lk	Mmw/om.lk-ftl	Minzz/om.lk-ftl	Cb	Ean	
702	M113	L2.5X2.5X3	.140	3.805	7	.003	7.94	Y	16	3.718	19.401	.921	1	H2-1
703	M117	L2.5X2.5X3	.138	3.805	3	.003	7.94	Y	12	3.718	19.401	.921	1	H2-1
704	M120	L2.5X2.5X3	.136	3.805	5	.003	7.94	Y	14	3.718	19.401	.921	1	H2-1
705	M124	L2.5X2.5X3	.135	3.805	9	.003	7.94	Y	18	3.718	19.401	.921	1	H2-1
706	M127	L2.5X2.5X3	.140	3.805	3	.003	7.94	Y	12	3.718	19.401	.921	1	H2-1
707	M131	L2.5X2.5X3	.139	3.805	7	.003	7.94	Y	16	3.718	19.401	.921	1	H2-1
708	M134	L2.5X2.5X3	.138	3.805	9	.003	7.94	Y	18	3.718	19.401	.921	1	H2-1
709	M143	L2.5X2.5X3	.114	3.671	5	.003	7.661	Y	14	3.993	19.401	.934	1	H2-1
710	M146	L2.5X2.5X3	.116	3.671	7	.003	7.661	Y	16	3.993	19.401	.934	1	H2-1
711	M150	L2.5X2.5X3	.115	3.671	3	.003	7.661	Y	12	3.993	19.401	.934	1	H2-1
712	M153	L2.5X2.5X3	.108	3.671	5	.003	7.661	Y	14	3.993	19.401	.934	1	H2-1
713	M157	L2.5X2.5X3	.107	3.671	9	.003	7.661	Y	18	3.993	19.401	.934	1	H2-1
714	M160	L2.5X2.5X3	.113	3.671	3	.003	7.661	Y	12	3.993	19.401	.934	1	H2-1
715	M164	L2.5X2.5X3	.112	3.671	7	.003	7.661	Y	16	3.993	19.401	.934	1	H2-1
716	M167	L2.5X2.5X3	.115	3.671	9	.003	7.661	Y	18	3.993	19.401	.934	1	H2-1
717	M180	L2.5X2.5X3	.239	4.096	5	.004	8.548	Y	14	3.208	19.401	.892	1	H2-1
718	M183	L2.5X2.5X3	.275	4.096	7	.004	8.548	Y	16	3.208	19.401	.892	1	H2-1
719	M187	L2.5X2.5X3	.272	4.096	3	.004	8.548	Y	12	3.208	19.401	.892	1	H2-1
720	M190	L2.5X2.5X3	.274	4.096	5	.004	8.548	Y	14	3.208	19.401	.892	1	H2-1
721	M194	L2.5X2.5X3	.273	4.096	9	.004	8.548	Y	18	3.208	19.401	.892	1	H2-1
722	M197	L2.5X2.5X3	.257	4.096	3	.004	8.548	Y	12	3.208	19.401	.892	1	H2-1
723	M201	L2.5X2.5X3	.256	4.096	7	.004	8.548	Y	16	3.208	19.401	.892	1	H2-1
724	M204	L2.5X2.5X3	.241	4.096	9	.004	8.548	Y	18	3.208	19.401	.892	1	H2-1
725	M213	L2.5X2.5X3	.184	3.947	5	.004	8.236	Y	14	3.455	19.401	.907	1	H2-1
726	M216	L2.5X2.5X3	.199	3.947	7	.004	8.236	Y	16	3.455	19.401	.907	1	H2-1
727	M220	L2.5X2.5X3	.196	3.947	3	.004	8.236	Y	12	3.455	19.401	.907	1	H2-1
728	M223	L2.5X2.5X3	.198	3.947	5	.004	8.236	Y	14	3.455	19.401	.907	1	H2-1
729	M227	L2.5X2.5X3	.196	3.947	9	.004	8.236	Y	18	3.455	19.401	.907	1	H2-1
730	M230	L2.5X2.5X3	.193	3.947	3	.004	8.236	Y	12	3.455	19.401	.907	1	H2-1
731	M234	L2.5X2.5X3	.192	3.947	7	.004	8.236	Y	16	3.455	19.401	.907	1	H2-1
732	M237	L2.5X2.5X3	.186	3.947	9	.004	8.236	Y	18	3.455	19.401	.907	1	H2-1
733	M251	L3X3X3	.153	4.318	5	.003	0	Y	14	4.945	23.497	1.256	1	H2-1
734	M256	L3X3X3	.160	4.318	7	.003	0	Y	16	4.945	23.497	1.256	1	H2-1
735	M263	L3X3X3	.157	4.318	3	.003	0	Y	12	4.945	23.497	1.256	1	H2-1
736	M268	L3X3X3	.146	4.318	5	.003	0	Y	14	4.945	23.497	1.256	1	H2-1
737	M276	L3X3X3	.159	4.318	2	.003	0	Y	11	4.945	23.497	1.256	1	H2-1
738	M281	L3X3X3	.141	4.318	2	.003	0	Y	11	4.945	23.497	1.256	1	H2-1
739	M289	L3X3X3	.137	4.318	8	.003	0	Y	16	4.945	23.497	1.256	1	H2-1
740	M294	L3X3X3	.176	4.222	8	.003	0	Y	17	4.605	23.497	1.311	1...	H2-1
741	M312	L3X3X3	.115	4.449	6	.003	0	Y	15	4.658	23.497	1.238	1	H2-1
742	M317	L3X3X3	.114	4.449	6	.003	0	Y	15	4.658	23.497	1.238	1	H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locf1	L_C	Shear C...	Locf1	Dj1	L_C	Pnc/om [k]	Pnt/om [k]	Mny/om [k-ft]	Minz/om [k-ft]	Cb	Egn
743	M324	L3X3X3	.137	4.449	5	.003	0	Y	14	4.658	.878	1.238	1	H2-1
744	M329	L3X3X3	.109	4.449	3	.003	0	Y	12	4.658	.878	1.238	1	H2-1
745	M337	L3X3X3	.136	4.449	3	.003	0	Y	12	4.658	.878	1.238	1	H2-1
746	M342	L3X3X3	.136	4.449	9	.003	0	Y	18	4.658	.878	1.238	1	H2-1
747	M350	L3X3X3	.104	4.449	9	.003	0	Y	18	4.658	.878	1.238	1	H2-1
748	M355	L3X3X3	.139	4.449	7	.003	0	Y	17	4.658	.878	1.238	1	H2-1
749	M373	L3X3X3	.134	4.595	7	.003	0	Y	16	4.366	.878	1.218	1	H2-1
750	M378	L3X3X3	.130	4.595	5	.003	0	Y	14	4.366	.878	1.218	1	H2-1
751	M385	L3X3X3	.168	4.595	5	.003	0	Y	14	4.366	.878	1.218	1	H2-1
752	M390	L3X3X3	.135	4.595	3	.003	0	Y	12	4.366	.878	1.218	1	H2-1
753	M398	L3X3X3	.165	4.595	3	.003	0	Y	12	4.366	.878	1.218	1	H2-1
754	M403	L3X3X3	.168	4.595	9	.003	0	Y	18	4.366	.878	1.218	1	H2-1
755	M411	L3X3X3	.127	4.595	9	.003	0	Y	18	4.366	.878	1.218	1	H2-1
756	M416	L3X3X3	.167	4.595	7	.003	0	Y	16	4.366	.878	1.218	1	H2-1
757	M434	L3X3X3	.204	4.155	6	.002	0	Y	15	5.106	.878	1.266	1	H2-1
758	M439	L3X3X3	.216	4.249	6	.002	0	Y	15	5.106	.878	1.266	1	H2-1
759	M450	L3X3X3	.212	4.155	4	.002	0	Y	13	5.106	.878	1.266	1	H2-1
760	M455	L3X3X3	.206	4.249	4	.002	0	Y	13	5.106	.878	1.266	1	H2-1
761	M469	L3X3X3	.214	4.155	2	.002	0	Y	11	5.106	.878	1.266	1	H2-1
762	M474	L3X3X3	.203	4.249	2	.002	0	Y	11	5.106	.878	1.266	1	H2-1
763	M488	L3X3X3	.203	4.155	8	.002	0	Y	17	5.106	.878	1.266	1	H2-1
764	M493	L3X3X3	.214	4.249	8	.002	0	Y	17	5.106	.878	1.266	1	H2-1
765	M519	L3X3X3	.264	4.32	5	.003	0	Y	14	4.939	.878	1.256	1	H2-1
766	M524	L3X3X3	.283	4.32	7	.003	0	Y	16	4.939	.878	1.256	1	H2-1
767	M533	L3X3X3	.279	4.32	3	.003	0	Y	12	4.939	.878	1.256	1	H2-1
768	M538	L3X3X3	.293	4.32	5	.003	0	Y	14	4.939	.878	1.256	1	H2-1
769	M550	L3X3X3	.291	4.32	9	.003	0	Y	18	4.939	.878	1.256	1	H2-1
770	M555	L3X3X3	.279	4.32	3	.003	0	Y	12	4.939	.878	1.256	1	H2-1
771	M567	L3X3X3	.280	4.32	7	.003	0	Y	16	4.939	.878	1.256	1	H2-1
772	M572	L3X3X3	.265	4.32	9	.003	0	Y	18	4.939	.878	1.256	1	H2-1
773	M596	L3X3X3	.229	4.397	7	.003	0	Y	16	4.767	.878	1.245	1	H2-1
774	M601	L3X3X3	.229	4.397	5	.003	0	Y	14	4.767	.878	1.245	1	H2-1
775	M610	L3X3X3	.242	4.397	5	.003	0	Y	14	4.767	.878	1.245	1	H2-1
776	M615	L3X3X3	.232	4.397	3	.003	0	Y	12	4.767	.878	1.245	1	H2-1
777	M627	L3X3X3	.246	4.397	3	.003	0	Y	12	4.767	.878	1.245	1	H2-1
778	M632	L3X3X3	.243	4.397	9	.003	0	Y	18	4.767	.878	1.245	1	H2-1
779	M644	L3X3X3	.227	4.397	9	.003	0	Y	18	4.767	.878	1.245	1	H2-1
780	M649	L3X3X3	.246	4.397	7	.003	0	Y	16	4.767	.878	1.245	1	H2-1
781	M673	2L2 1/2x2 1/2x3/16	.061	5.001	7	.003	10.215	Y	15	11.709	2.251	1.737	1	H1-1b
782	M678	2L2 1/2x2 1/2x3/16	.060	5.001	5	.003	0	Y	17	11.709	2.251	1.737	1	H1-1b
783	M689	2L2 1/2x2 1/2x3/16	.064	5.001	5	.003	0	Y	12	11.709	2.251	1.737	1	H1-1b

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftl	LC	Shear C...	Locftl	Dir	LC	Pnc/om	lkl	Pnt/om	lkl	Mmv/om	lkl-ftl	Mnzz/om	lkl-ftl	Cb	Egn
784	M694	2L2 1/2x2 1/2x3/16	.061	5.001	3	.003	10.215	Y	14	11.709	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
785	M708	2L2 1/2x2 1/2x3/16	.064	5.001	3	.003	10.215	Y	18	11.709	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
786	M713	2L2 1/2x2 1/2x3/16	.063	5.001	9	.003	0	Y	12	11.709	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
787	M727	2L2 1/2x2 1/2x3/16	.060	5.001	9	.003	10.215	Y	18	11.709	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
788	M732	2L2 1/2x2 1/2x3/16	.064	5.001	7	.003	10.215	Y	18	11.709	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
789	M758	2L2 1/2x2 1/2x3/16	.081	5.137	7	.003	0	Y	14	11.099	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
790	M763	2L2 1/2x2 1/2x3/16	.081	5.137	5	.003	10.492	Y	16	11.099	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
791	M774	2L2 1/2x2 1/2x3/16	.081	5.137	5	.003	0	Y	11	11.099	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
792	M779	2L2 1/2x2 1/2x3/16	.084	5.137	3	.003	10.492	Y	15	11.099	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
793	M793	2L2 1/2x2 1/2x3/16	.086	5.137	3	.003	10.492	Y	18	11.099	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
794	M798	2L2 1/2x2 1/2x3/16	.079	5.137	9	.003	10.492	Y	13	11.099	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
795	M812	2L2 1/2x2 1/2x3/16	.082	5.137	9	.003	10.492	Y	15	11.099	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
796	M817	2L2 1/2x2 1/2x3/16	.083	5.137	7	.003	10.492	Y	11	11.099	38.802	2.251	2.251	1.737	1.737	1	H1-1b	
797	M843	2L2 1/2x2 1/2x3/16	.478	5.391	7	.003	5.391	Y	7	10.51	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
798	M848	2L2 1/2x2 1/2x3/16	.475	5.391	5	.003	5.391	Y	5	10.51	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
799	M859	2L2 1/2x2 1/2x3/16	.488	5.391	5	.003	5.391	Y	5	10.51	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
800	M864	2L2 1/2x2 1/2x3/16	.485	5.391	3	.003	5.391	Y	3	10.51	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
801	M878	2L2 1/2x2 1/2x3/16	.492	5.391	3	.003	5.391	Y	3	10.51	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
802	M883	2L2 1/2x2 1/2x3/16	.491	5.391	9	.003	5.391	Y	9	10.51	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
803	M897	2L2 1/2x2 1/2x3/16	.479	5.391	9	.003	5.391	Y	9	10.51	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
804	M902	2L2 1/2x2 1/2x3/16	.486	5.391	7	.003	5.391	Y	7	10.51	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
805	M928	2L2 1/2x2 1/2x3/16	.442	5.542	7	.003	5.542	Y	16	9.945	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
806	M933	2L2 1/2x2 1/2x3/16	.435	5.542	5	.003	5.542	Y	14	9.945	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
807	M944	2L2 1/2x2 1/2x3/16	.459	5.542	5	.003	5.542	Y	14	9.945	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
808	M949	2L2 1/2x2 1/2x3/16	.447	5.542	3	.003	5.542	Y	12	9.945	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
809	M963	2L2 1/2x2 1/2x3/16	.462	5.542	9	.003	5.542	Y	18	9.945	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
810	M968	2L2 1/2x2 1/2x3/16	.460	5.542	9	.003	5.542	Y	18	9.945	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
811	M982	2L2 1/2x2 1/2x3/16	.436	5.542	7	.003	5.542	Y	16	9.945	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
812	M987	2L2 1/2x2 1/2x3/16	.456	5.542	7	.003	5.542	Y	16	9.945	38.802	2.251	2.251	1.086	1.086	1	H1-1a	
813	M1175A	2L2 1/2x2 1/2x1/4	.108	8.937	2	.003	8.937	Y	3	18.427	51.305	3.018	3.018	1.419	1.419	1	H1-1b	
814	M1176A	2L2 1/2x2 1/2x1/4	.113	8.937	6	.003	8.937	Y	7	18.427	51.305	3.018	3.018	1.419	1.419	1	H1-1b	
815	M1181A	2L2 1/2x2 1/2x1/4	.143	8.937	9	.003	8.937	Y	9	18.427	51.305	3.018	3.018	1.419	1.419	1	H1-1b	
816	M1182A	2L2 1/2x2 1/2x1/4	.146	8.937	5	.003	8.937	Y	5	18.427	51.305	3.018	3.018	1.419	1.419	1	H1-1b	
817	M1187	2L2 1/2x2 1/2x1/4	.133	8.937	7	.003	8.937	Y	7	18.427	51.305	3.018	3.018	1.419	1.419	1	H1-1b	
818	M1188	2L2 1/2x2 1/2x1/4	.133	8.937	3	.003	8.937	Y	3	18.427	51.305	3.018	3.018	1.419	1.419	1	H1-1b	
819	M1193	2L2 1/2x2 1/2x1/4	.096	8.937	5	.003	8.937	Y	5	18.427	51.305	3.018	3.018	1.419	1.419	1	H1-1b	
820	M1194	2L2 1/2x2 1/2x1/4	.098	8.937	9	.003	8.937	Y	9	18.427	51.305	3.018	3.018	1.419	1.419	1	H1-1b	
821	M1203	L2.5X2.5X3	.009	2.742	9	.000	4.178	Y	17	10.894	19.401	.58	.58	1.154	1.154	1	H2-1	
822	M1204	L2.5X2.5X3	.045	3.795	9	.002	0	Y	12	3.789	19.401	.58	.58	.971	.971	1	H2-1	
823	M1205	L2.5X2.5X3	.009	1.436	5	.000	4.178	Y	18	10.894	19.401	.58	.58	1.154	1.154	1	H2-1	
824	M1206	L2.5X2.5X3	.045	3.795	5	.002	7.59	Y	5	3.789	19.401	.58	.58	.971	.971	1	H2-1	

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Company : GPD Group
Designer : awestrum
Job Number : 2012857.08 Rev A

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code_Check	Loc(ft)	L.C	Shear_C...	Loc(ft)	Dir	L.C	Pnc/om [k]	Pnt/om [k]	Mny/om [k-ft]	Mnz/om [k-ft]	Cb	Egn
825	M1215	L2.5X2.5X3	.009	2.742	7	.000	0	Y 11	10.894	19.401	.58	1.154	1...	H2-1
826	M1216	L2.5X2.5X3	.045	3.795	7	.002	7.59	Y 8	3.789	19.401	.58	.971	1...	H2-1
827	M1217	L2.5X2.5X3	.009	1.436	3	.000	0	Y 16	10.894	19.401	.58	1.154	1...	H2-1
828	M1218	L2.5X2.5X3	.045	3.795	3	.002	7.59	Y 5	3.789	19.401	.58	.971	1...	H2-1
829	M1227	L2.5X2.5X3	.009	2.742	5	.000	0	Y 12	10.894	19.401	.58	1.154	1...	H2-1
830	M1228	L2.5X2.5X3	.045	3.795	5	.002	0	Y 9	3.789	19.401	.58	.971	1...	H2-1
831	M1229	L2.5X2.5X3	.009	1.436	9	.000	0	Y 15	10.894	19.401	.58	1.154	1...	H2-1
832	M1230	L2.5X2.5X3	.045	3.795	9	.002	7.59	Y 9	3.789	19.401	.58	.971	1...	H2-1
833	M1239	L2.5X2.5X3	.009	2.742	3	.000	4.178	Y 13	10.894	19.401	.58	1.154	1...	H2-1
834	M1240	L2.5X2.5X3	.045	3.795	3	.002	0	Y 4	3.789	19.401	.58	.971	1...	H2-1
835	M1241	L2.5X2.5X3	.009	1.436	7	.000	4.178	Y 17	10.894	19.401	.58	1.154	1...	H2-1
836	M1242	L2.5X2.5X3	.045	3.795	7	.002	0	Y 2	3.789	19.401	.58	.971	1...	H2-1
837	M1257A	L2.5X2.5X3	.008	2.742	9	.000	4.178	Y 14	10.894	19.401	.58	1.154	1...	H2-1
838	M1258	L2.5X2.5X3	.039	3.601	9	.001	7.203	Y 3	4.207	19.401	.58	.989	1...	H2-1
839	M1259	L2.5X2.5X3	.008	2.742	5	.000	4.178	Y 11	10.894	19.401	.58	1.154	1...	H2-1
840	M1260	L2.5X2.5X3	.039	3.601	5	.001	7.203	Y 4	4.207	19.401	.58	.989	1...	H2-1
841	M1272	L2.5X2.5X3	.008	2.742	7	.000	4.178	Y 15	10.894	19.401	.58	1.154	1...	H2-1
842	M1273	L2.5X2.5X3	.039	3.601	7	.001	0	Y 8	4.207	19.401	.58	.989	1...	H2-1
843	M1274	L2.5X2.5X3	.008	2.742	3	.000	0	Y 13	10.894	19.401	.58	1.154	1...	H2-1
844	M1275	L2.5X2.5X3	.039	3.601	3	.001	0	Y 5	4.207	19.401	.58	.989	1...	H2-1
845	M1287	L2.5X2.5X3	.008	2.742	5	.000	0	Y 10	10.894	19.401	.58	1.154	1...	H2-1
846	M1288	L2.5X2.5X3	.039	3.601	5	.001	7.203	Y 9	4.207	19.401	.58	.989	1...	H2-1
847	M1289	L2.5X2.5X3	.008	2.742	9	.000	4.178	Y 14	10.894	19.401	.58	1.154	1...	H2-1
848	M1290	L2.5X2.5X3	.039	3.601	9	.001	7.203	Y 8	4.207	19.401	.58	.989	1...	H2-1
849	M1302	L2.5X2.5X3	.008	2.742	3	.000	4.178	Y 9	10.894	19.401	.58	1.154	1...	H2-1
850	M1303	L2.5X2.5X3	.039	3.601	3	.001	7.203	Y 8	4.207	19.401	.58	.989	1...	H2-1
851	M1304	L2.5X2.5X3	.008	2.742	7	.000	4.178	Y 2	10.894	19.401	.58	1.154	1...	H2-1
852	M1305	L2.5X2.5X3	.039	3.601	7	.001	0	Y 2	4.207	19.401	.58	.989	1...	H2-1
853	M1167	L2.5X2.5X3	.009	1.436	9	.000	4.178	Y 17	10.894	19.401	.58	1.154	1...	H2-1
854	M1168	L2.5X2.5X3	.051	3.993	9	.002	0	Y 13	3.422	19.401	.58	.953	1...	H2-1
855	M1169	L2.5X2.5X3	.009	1.436	5	.000	4.178	Y 12	10.894	19.401	.58	1.154	1...	H2-1
856	M1170	L2.5X2.5X3	.051	3.993	5	.002	0	Y 7	3.422	19.401	.58	.953	1...	H2-1
857	M1171	L2.5X2.5X3	.009	1.436	7	.000	4.178	Y 15	10.894	19.401	.58	1.154	1...	H2-1
858	M1172	L2.5X2.5X3	.051	3.993	7	.002	7.986	Y 18	3.422	19.401	.58	.953	1...	H2-1
859	M1173	L2.5X2.5X3	.009	1.436	3	.000	4.178	Y 12	10.894	19.401	.58	1.154	1...	H2-1
860	M1174	L2.5X2.5X3	.051	3.993	3	.002	7.986	Y 2	3.422	19.401	.58	.953	1...	H2-1
861	M1175	L2.5X2.5X3	.009	1.436	5	.000	4.178	Y 10	10.894	19.401	.58	1.154	1...	H2-1
862	M1176	L2.5X2.5X3	.051	3.993	5	.002	0	Y 15	3.422	19.401	.58	.953	1...	H2-1
863	M1177	L2.5X2.5X3	.009	1.436	9	.000	4.178	Y 16	10.894	19.401	.58	1.154	1...	H2-1
864	M1178	L2.5X2.5X3	.051	3.993	9	.002	0	Y 5	3.422	19.401	.58	.953	1...	H2-1
865	M1179	L2.5X2.5X3	.009	1.436	3	.000	4.178	Y 11	10.894	19.401	.58	1.154	1...	H2-1

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 Designer : awestrum
 Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loeffl	L.C. Shear C...	Loeffl	Dir	L.C.	Pnc/om.lk	Pnt/om.lk	Mnyv/om.lk-ftl	Mnz/om.lk-ftl	Cb	Eon
866	M1180	L2.5X2.5X3	.051	3.993	3	.002	0	5	3.422	19.401	.58	.953	1... H2-1
867	M1181	L2.5X2.5X3	.009	1.436	7	.000	4.178	13	10.894	19.401	.58	1.154	1... H2-1
868	M1182	L2.5X2.5X3	.051	3.993	7	.002	7.986	9	3.422	19.401	.58	.953	1... H2-1
869	M1177A	L2.5X2.5X3	.010	1.436	7	.000	4.178	11	10.894	19.401	.58	1.154	1... H2-1
870	M1178A	L2.5X2.5X3	.057	4.195	7	.002	0	15	3.101	19.401	.58	.935	1... H2-1
871	M1179A	L2.5X2.5X3	.010	1.436	3	.000	0	17	10.894	19.401	.58	1.154	1... H2-1
872	M1180A	L2.5X2.5X3	.057	4.195	3	.002	8.389	11	3.101	19.401	.58	.935	1... H2-1
873	M1183	L2.5X2.5X3	.010	1.436	5	.000	0	10	10.894	19.401	.58	1.154	1... H2-1
874	M1184	L2.5X2.5X3	.057	4.195	5	.002	8.389	15	3.101	19.401	.58	.935	1... H2-1
875	M1185	L2.5X2.5X3	.010	1.436	9	.000	0	11	10.894	19.401	.58	1.154	1... H2-1
876	M1186	L2.5X2.5X3	.057	4.195	9	.002	0	10	3.101	19.401	.58	.935	1... H2-1
877	M1189	L2.5X2.5X3	.010	1.436	3	.000	0	14	10.894	19.401	.58	1.154	1... H2-1
878	M1190	L2.5X2.5X3	.057	4.195	3	.002	0	15	3.101	19.401	.58	.935	1... H2-1
879	M1191	L2.5X2.5X3	.010	1.436	7	.000	0	14	10.894	19.401	.58	1.154	1... H2-1
880	M1192	L2.5X2.5X3	.057	4.195	7	.002	8.389	12	3.101	19.401	.58	.935	1... H2-1
881	M1195	L2.5X2.5X3	.010	1.436	9	.000	0	13	10.894	19.401	.58	1.154	1... H2-1
882	M1196	L2.5X2.5X3	.057	4.195	9	.002	0	13	3.101	19.401	.58	.935	1... H2-1
883	M1197	L2.5X2.5X3	.010	1.436	5	.000	0	10	10.894	19.401	.58	1.154	1... H2-1
884	M1198	L2.5X2.5X3	.057	4.195	5	.002	8.389	11	3.101	19.401	.58	.935	1... H2-1
885	M1491	2L2 1/2x2 1/2x1/4	.048	5.506	9	.002	0	3	11.637	51.305	3.018	2.271	1 H1-1b
886	M1492	2L2 1/2x2 1/2x1/4	.048	5.74	5	.002	11.246	7	11.637	51.305	3.018	2.271	1 H1-1b
887	M1493	2L2 1/2x2 1/2x1/4	.048	5.506	7	.002	11.246	7	11.637	51.305	3.018	2.271	1 H1-1b
888	M1494	2L2 1/2x2 1/2x1/4	.048	5.74	3	.002	0	4	11.637	51.305	3.018	2.271	1 H1-1b
889	M1495	2L2 1/2x2 1/2x1/4	.048	5.506	5	.002	0	8	11.637	51.305	3.018	2.271	1 H1-1b
890	M1496	2L2 1/2x2 1/2x1/4	.048	5.74	9	.002	0	9	11.637	51.305	3.018	2.271	1 H1-1b
891	M1497	2L2 1/2x2 1/2x1/4	.048	5.506	3	.002	0	6	11.637	51.305	3.018	2.271	1 H1-1b
892	M1498	2L2 1/2x2 1/2x1/4	.048	5.74	7	.002	11.246	4	11.637	51.305	3.018	2.271	1 H1-1b
893	M1468	2L2 1/2x2 1/2x1/4	.059	6.089	9	.002	0	9	10.343	51.305	3.018	2.271	1 H1-1b
894	M1469	2L2 1/2x2 1/2x1/4	.059	6.089	5	.002	11.929	6	10.343	51.305	3.018	2.271	1 H1-1b
895	M1470	2L2 1/2x2 1/2x1/4	.059	5.84	7	.002	11.929	9	10.343	51.305	3.018	2.271	1 H1-1b
896	M1471	2L2 1/2x2 1/2x1/4	.059	6.089	3	.002	11.929	4	10.343	51.305	3.018	2.271	1 H1-1b
897	M1472	2L2 1/2x2 1/2x1/4	.059	5.84	5	.002	0	7	10.343	51.305	3.018	2.271	1 H1-1b
898	M1473	2L2 1/2x2 1/2x1/4	.059	6.089	9	.002	11.929	6	10.343	51.305	3.018	2.271	1 H1-1b
899	M1474	2L2 1/2x2 1/2x1/4	.059	5.84	3	.002	11.929	6	10.343	51.305	3.018	2.271	1 H1-1b
900	M1475	2L2 1/2x2 1/2x1/4	.059	6.089	7	.002	11.929	3	10.343	51.305	3.018	2.271	1 H1-1b
901	M1445	2L2 1/2x2 1/2x1/4	.071	6.194	8	.002	0	3	9.195	51.305	3.018	2.271	1 H1-1b
902	M1446	2L2 1/2x2 1/2x1/4	.071	6.458	5	.002	0	6	9.195	51.305	3.018	2.271	1 H1-1b
903	M1447	2L2 1/2x2 1/2x1/4	.071	6.194	7	.002	0	3	9.195	51.305	3.018	2.271	1 H1-1b
904	M1448	2L2 1/2x2 1/2x1/4	.071	6.458	4	.002	12.652	7	9.195	51.305	3.018	2.271	1 H1-1b
905	M1449	2L2 1/2x2 1/2x1/4	.071	6.194	9	.002	0	4	9.195	51.305	3.018	2.271	1 H1-1b
906	M1450	2L2 1/2x2 1/2x1/4	.071	6.458	3	.002	12.652	5	9.195	51.305	3.018	2.271	1 H1-1b

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Company : GPD Group
Designer : awestrump
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locf(t)	LC	Shear C...	Locf(t)	Dir	LC	Pnc/om [k]	Mny/om [k-ft]	Mnz/om [k-ft]	Cb	Eqn
907	M1451	2L2 1/2x2 1/2x1/4	.071	6.194	9	.002	0	Y	5	9.195	3.018	2.271	1 H1-1b
908	M1452	2L2 1/2x2 1/2x1/4	.071	6.458	6	.002	0	Y	4	9.195	3.018	2.271	1 H1-1b
909	M1394	2L2 1/2x2 1/2x1/4	.360	5.251	3	.002	0	Y	2	12.258	3.018	2.271	1 H1-1a
910	M1395	2L2 1/2x2 1/2x1/4	.378	5.707	7	.002	10.958	Y	3	12.258	3.018	2.271	1 H1-1a
911	M1396	2L2 1/2x2 1/2x1/4	.513	5.251	9	.002	10.958	Y	4	12.258	3.018	2.271	1 H1-1a
912	M1397	2L2 1/2x2 1/2x1/4	.514	5.707	5	.002	0	Y	5	12.258	3.018	2.271	1 H1-1a
913	M1398	2L2 1/2x2 1/2x1/4	.454	5.251	7	.002	0	Y	7	12.258	3.018	2.271	1 H1-1a
914	M1399	2L2 1/2x2 1/2x1/4	.437	5.707	3	.002	10.958	Y	7	12.258	3.018	2.271	1 H1-1a
915	M1400	2L2 1/2x2 1/2x1/4	.304	5.251	5	.002	10.958	Y	8	12.258	3.018	2.271	1 H1-1a
916	M1401	2L2 1/2x2 1/2x1/4	.303	5.707	9	.002	0	Y	6	12.258	3.018	2.271	1 H1-1b
917	M1367	2L2 1/2x2 1/2x1/4	.056	5.572	5	.002	0	Y	3	11.361	3.018	2.271	1 H1-1b
918	M1368	2L2 1/2x2 1/2x1/4	.056	5.809	9	.002	0	Y	9	11.361	3.018	2.271	1 H1-1b
919	M1369	2L2 1/2x2 1/2x1/4	.056	5.572	3	.002	11.382	Y	9	11.361	3.018	2.271	1 H1-1b
920	M1370	2L2 1/2x2 1/2x1/4	.057	5.809	7	.002	0	Y	9	11.361	3.018	2.271	1 H1-1b
921	M1371	2L2 1/2x2 1/2x1/4	.057	5.572	9	.002	0	Y	4	11.361	3.018	2.271	1 H1-1b
922	M1372	2L2 1/2x2 1/2x1/4	.057	5.809	5	.002	11.382	Y	6	11.361	3.018	2.271	1 H1-1b
923	M1373	2L2 1/2x2 1/2x1/4	.057	5.572	7	.002	11.382	Y	3	11.361	3.018	2.271	1 H1-1b
924	M1374	2L2 1/2x2 1/2x1/4	.057	5.809	3	.002	0	Y	3	11.361	3.018	2.271	1 H1-1b
925	M1336	2L2 1/2x2 1/2x1/4	.066	5.789	6	.002	0	Y	4	10.525	3.018	2.271	1 H1-1b
926	M1337	2L2 1/2x2 1/2x1/4	.066	6.036	9	.002	0	Y	2	10.525	3.018	2.271	1 H1-1b
927	M1338	2L2 1/2x2 1/2x1/4	.066	5.789	3	.002	11.825	Y	5	10.525	3.018	2.271	1 H1-1b
928	M1339	2L2 1/2x2 1/2x1/4	.066	6.036	6	.002	0	Y	7	10.525	3.018	2.271	1 H1-1b
929	M1340	2L2 1/2x2 1/2x1/4	.067	5.789	9	.002	11.825	Y	4	10.525	3.018	2.271	1 H1-1b
930	M1341	2L2 1/2x2 1/2x1/4	.067	6.036	5	.002	0	Y	18	10.525	3.018	2.271	1 H1-1b
931	M1342	2L2 1/2x2 1/2x1/4	.067	5.789	7	.002	0	Y	2	10.525	3.018	2.271	1 H1-1b
932	M1343	2L2 1/2x2 1/2x1/4	.059	6.036	3	.002	11.825	Y	8	10.525	3.018	2.271	1 H1-1b
933	M1198A	2L2 1/2x2 1/2x1/4	.059	8.119	5	.002	8.119	Y	5	22.07	3.018	1.419	1 H1-1b
934	M1199	2L2 1/2x2 1/2x1/4	.059	8.119	9	.002	8.119	Y	9	22.07	3.018	1.419	1 H1-1b
935	M1210A	2L2 1/2x2 1/2x1/4	.059	8.119	3	.002	8.119	Y	3	22.07	3.018	1.419	1 H1-1b
936	M1211A	2L2 1/2x2 1/2x1/4	.059	8.119	7	.002	8.119	Y	7	22.07	3.018	1.419	1 H1-1b
937	M1222	2L2 1/2x2 1/2x1/4	.059	8.119	9	.002	8.119	Y	9	22.07	3.018	1.419	1 H1-1b
938	M1223	2L2 1/2x2 1/2x1/4	.059	8.119	5	.002	8.119	Y	5	22.07	3.018	1.419	1 H1-1b
939	M1234	2L2 1/2x2 1/2x1/4	.059	8.119	7	.002	8.119	Y	7	22.07	3.018	1.419	1 H1-1b
940	M1235	2L2 1/2x2 1/2x1/4	.059	8.119	3	.002	8.119	Y	3	22.07	3.018	1.419	1 H1-1b
941	M1255A	2L2 1/2x2 1/2x1/4	.052	7.721	9	.002	7.721	Y	9	23.927	3.018	1.419	1 H1-1b
942	M1256A	2L2 1/2x2 1/2x1/4	.052	7.721	5	.002	7.721	Y	5	23.927	3.018	1.419	1 H1-1b
943	M1270	2L2 1/2x2 1/2x1/4	.052	7.721	7	.002	7.721	Y	7	23.927	3.018	1.419	1 H1-1b
944	M1271	2L2 1/2x2 1/2x1/4	.052	7.721	3	.002	7.721	Y	3	23.927	3.018	1.419	1 H1-1b
945	M1285	2L2 1/2x2 1/2x1/4	.052	7.721	5	.002	7.721	Y	5	23.927	3.018	1.419	1 H1-1b
946	M1286	2L2 1/2x2 1/2x1/4	.052	7.721	9	.002	7.721	Y	9	23.927	3.018	1.419	1 H1-1b
947	M1300	2L2 1/2x2 1/2x1/4	.052	7.721	3	.002	7.721	Y	3	23.927	3.018	1.419	1 H1-1b

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locifl	LC Shear C...	Locifl	Dir	LC	Pnc/om [kl]	Pnt/om [kl]	Mnyv/om [k-ft]	Mhzz/om [k-ft]	Cb	Ean
948	M1301	2L2 1/2x2 1/2x1/4	.052	7.721	7	.002	7.721	Y	7	23.927	3.018	1.419	1 H1-1b
949	M1159	2L2 1/2x2 1/2x1/4	.067	8.525	5	.002	8.525	Y	5	20.243	3.018	1.419	1 H1-1b
950	M1160	2L2 1/2x2 1/2x1/4	.067	8.525	9	.002	8.525	Y	9	20.243	3.018	1.419	1 H1-1b
951	M1161	2L2 1/2x2 1/2x1/4	.067	8.525	3	.002	8.525	Y	3	20.243	3.018	1.419	1 H1-1b
952	M1162	2L2 1/2x2 1/2x1/4	.067	8.525	7	.002	8.525	Y	7	20.243	3.018	1.419	1 H1-1b
953	M1163	2L2 1/2x2 1/2x1/4	.067	8.525	9	.002	8.525	Y	9	20.243	3.018	1.419	1 H1-1b
954	M1164	2L2 1/2x2 1/2x1/4	.067	8.525	5	.002	8.525	Y	5	20.243	3.018	1.419	1 H1-1b
955	M1165	2L2 1/2x2 1/2x1/4	.067	8.525	3	.002	8.525	Y	3	20.243	3.018	1.419	1 H1-1b
956	M1166	2L2 1/2x2 1/2x1/4	.067	8.525	7	.002	8.525	Y	7	20.243	3.018	1.419	1 H1-1b
957	M1024	L2.5X2.5X4	.426	5.722	16	.002	0	Y	11	2.023	.741	1.188	1... H2-1
958	M1025	L2.5X2.5X4	.424	6.22	12	.002	11.942	Y	8	2.023	.741	1.188	1... H2-1
959	M1026	L2.5X2.5X4	.432	5.722	5	.002	0	Y	5	2.023	.741	1.188	1... H2-1
960	M1027	L2.5X2.5X4	.432	6.22	9	.002	11.942	Y	6	2.023	.741	1.188	1... H2-1
961	M1028	L2.5X2.5X4	.429	5.722	3	.002	11.942	Y	2	2.023	.741	1.188	1... H2-1
962	M1029	L2.5X2.5X4	.429	6.22	7	.002	0	Y	15	2.023	.741	1.188	1... H2-1
963	M1030	L2.5X2.5X4	.423	5.722	18	.002	0	Y	18	2.023	.741	1.188	1... H2-1
964	M1031	L2.5X2.5X4	.425	6.22	14	.002	11.942	Y	11	2.023	.741	1.188	1... H2-1
965	M271	L3.5X3.5X6	.160	6.364	18	.006	12.728	Y	10	8.005	2.204	3.83	1 H2-1
966	M284	L3.5X3.5X6	.160	6.364	16	.006	12.728	Y	14	8.005	2.204	3.83	1 H2-1
967	M297	L3.5X3.5X6	.160	6.364	14	.006	12.728	Y	12	8.005	2.204	3.83	1 H2-1
968	M298	L3.5X3.5X6	.160	6.364	12	.006	12.728	Y	14	8.005	2.204	3.83	1 H2-1
969	M332	L4X4X6	.183	7.248	18	.007	0	Y	10	9.258	2.926	4.822	1 H2-1
970	M345	L4X4X6	.183	7.248	16	.007	0	Y	10	9.258	2.926	4.822	1 H2-1
971	M358	L4X4X6	.183	7.248	14	.007	0	Y	10	9.258	2.926	4.822	1 H2-1
972	M359	L4X4X6	.183	7.248	12	.007	0	Y	10	9.258	2.926	4.822	1 H2-1
973	M393	L4X4X6	.234	8.132	18	.007	16.263	Y	11	7.355	2.926	4.609	1 H2-1
974	M406	L4X4X6	.234	8.132	16	.007	16.263	Y	18	7.355	2.926	4.609	1 H2-1
975	M419	L4X4X6	.234	8.132	14	.007	16.263	Y	16	7.355	2.926	4.609	1 H2-1
976	M420	L4X4X6	.234	8.132	12	.007	16.263	Y	11	7.355	2.926	4.609	1 H2-1
977	M459	2L3x4x1/4	.533	5.851	5	.017	0	Y	15	22.179	7.494	3.439	1 H1-1b
978	M478	2L3x4x1/4	.535	5.851	4	.017	0	Y	16	22.179	7.494	3.439	1 H1-1b
979	M497	2L3x4x1/4	.536	5.851	8	.017	0	Y	10	22.179	7.494	3.439	1 H1-1b
980	M500	2L3x4x1/4	.524	5.851	7	.017	0	Y	14	22.179	7.494	3.439	1 H1-1b
981	M542	2L3x2 1/2x1/4	.096	6.382	18	.005	12.763	Y	10	16.171	3.024	3.23	1 H1-1b
982	M559	2L3x2 1/2x1/4	.096	6.382	16	.005	12.763	Y	10	16.171	3.024	3.23	1 H1-1b
983	M576	2L3x2 1/2x1/4	.096	6.382	14	.005	12.763	Y	10	16.171	3.024	3.23	1 H1-1b
984	M579	2L3x2 1/2x1/4	.096	6.382	12	.005	12.763	Y	10	16.171	3.024	3.23	1 H1-1b
985	M619	2L3x2 1/2x1/4	.113	6.912	18	.005	13.824	Y	10	13.784	3.024	3.23	1 H1-1b
986	M636	2L3x2 1/2x1/4	.113	6.912	16	.005	13.824	Y	10	13.784	3.024	3.23	1 H1-1b
987	M653	2L3x2 1/2x1/4	.113	6.912	14	.005	13.824	Y	10	13.784	3.024	3.23	1 H1-1b
988	M656	2L3x2 1/2x1/4	.113	6.912	12	.005	13.824	Y	10	13.784	3.024	3.23	1 H1-1b

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	L/C	Shear C...	Loc[ft]	Dir	L/C	Pnc:om [k]	Pnt:om [k]	Mny:/om [k-ft]	Mrz:/om [k-ft]	Cb	Eqn
989	2L2 1/2x3 1/2x5/16	.281	9.192	18	.009	0	Y	10	6.234	76.527	7.261	2.902	1	H1-1b
990	2L2 1/2x3 1/2x5/16	.281	9.192	16	.009	0	Y	10	6.234	76.527	7.261	2.902	1	H1-1b
991	2L2 1/2x3 1/2x5/16	.281	9.192	14	.009	0	Y	10	6.234	76.527	7.261	2.902	1	H1-1b
992	2L2 1/2x3 1/2x5/16	.281	9.192	12	.009	0	Y	10	6.234	76.527	7.261	2.902	1	H1-1b
993	2L2 1/2x3 1/2x5/16	.323	9.855	18	.009	0	Y	10	5.424	76.527	7.261	2.902	1	H1-1b
994	2L2 1/2x3 1/2x5/16	.323	9.855	16	.009	0	Y	10	5.424	76.527	7.261	2.902	1	H1-1b
995	2L2 1/2x3 1/2x5/16	.323	9.855	14	.009	0	Y	10	5.424	76.527	7.261	2.902	1	H1-1b
996	2L2 1/2x3 1/2x5/16	.323	9.855	12	.009	0	Y	10	5.424	76.527	7.261	2.902	1	H1-1b
997	2L2 1/2x3 1/2x5/16	.368	10.518	18	.010	0	Y	10	4.762	76.527	7.261	2.902	1	H1-1b
998	2L2 1/2x3 1/2x5/16	.368	10.518	16	.010	0	Y	10	4.762	76.527	7.261	2.902	1	H1-1b
999	2L2 1/2x3 1/2x5/16	.368	10.518	14	.010	0	Y	10	4.762	76.527	7.261	2.902	1	H1-1b
1000	2L2 1/2x3 1/2x5/16	.368	10.518	12	.010	0	Y	10	4.762	76.527	7.261	2.902	1	H1-1b
1001	2L2 1/2x3 1/2x5/16	.391	11.181	5	.007	11.81	Y	14	4.214	76.527	7.261	1.814	1	H1-1a
1002	2L2 1/2x3 1/2x5/16	.325	11.181	3	.007	11.81	Y	12	4.214	76.527	7.261	1.814	1	H1-1a
1003	2L2 1/2x3 1/2x5/16	.336	11.181	9	.007	11.81	Y	18	4.214	76.527	7.261	1.814	1	H1-1a
1004	2L2 1/2x3 1/2x5/16	.218	11.181	7	.007	11.81	Y	16	4.214	76.527	7.261	1.814	1	H1-1b
1005	L3X3X4	.243	3.944	3	.003	9.016	Z	7	6.329	31.042	1.123	1.926	1	H2-1
1006	L3X3X4	.290	14.087	9	.003	9.016	Z	5	6.329	31.042	1.123	1.926	1	H2-1
1007	L3X3X4	.326	9.016	5	.003	9.016	Z	3	6.329	31.042	1.123	1.543	1	H2-1
1008	L3X3X4	.313	9.016	4	.003	9.016	Z	9	6.329	31.042	1.123	1.483	1	H2-1
1009	L3.5X3X4	.095	9.899	7	.004	9.899	Z	7	6.553	33.629	1.232	1.968	1	H2-1
1010	L3.5X3X4	.095	9.899	5	.004	9.899	Z	5	6.553	33.629	1.232	1.97	1	H2-1
1011	L3.5X3X4	.094	9.899	3	.004	9.899	Z	3	6.553	33.629	1.232	1.969	1	H2-1
1012	L3.5X3X4	.094	9.899	9	.004	9.899	Z	9	6.553	33.629	1.232	1.97	1	H2-1
1013	L3.5X3.5X4	.089	10.783	7	.004	10.783	Z	7	7.181	36.431	1.598	2.224	1	H2-1
1014	L3.5X3.5X4	.089	10.783	5	.004	10.783	Z	5	7.181	36.431	1.598	2.222	1	H2-1
1015	L3.5X3.5X4	.088	10.783	3	.004	10.783	Z	3	7.181	36.431	1.598	2.222	1	H2-1
1016	L3.5X3.5X4	.089	10.783	9	.004	10.783	Z	9	7.181	36.431	1.598	2.222	1	H2-1
1017	2L2 1/2x3 1/2x5/16	.632	18.827	3	.010	18.827	Y	7	22.146	76.527	7.261	1.814	1	H1-1a
1018	2L2 1/2x3 1/2x5/16	.630	18.827	9	.010	18.827	Y	5	22.146	76.527	7.261	1.814	1	H1-1a
1019	2L2 1/2x3 1/2x5/16	.631	18.827	7	.010	18.827	Y	3	22.146	76.527	7.261	1.814	1	H1-1a
1020	2L2 1/2x3 1/2x5/16	.630	18.827	5	.010	18.827	Y	9	22.146	76.527	7.261	1.814	1	H1-1a
1021	2L2 1/2x3 1/2x5/16	.498	17.501	3	.010	17.501	Y	7	25.628	76.527	7.261	1.814	1	H1-1b
1022	2L2 1/2x3 1/2x5/16	.497	17.501	9	.010	17.501	Y	5	25.628	76.527	7.261	1.814	1	H1-1b
1023	2L2 1/2x3 1/2x5/16	.497	17.501	7	.010	17.501	Y	3	25.628	76.527	7.261	1.814	1	H1-1b
1024	2L2 1/2x3 1/2x5/16	.497	17.501	5	.010	17.501	Y	9	25.628	76.527	7.261	1.814	1	H1-1b
1025	2L2 1/2x3 1/2x5/16	.718	20.153	3	.011	20.153	Y	7	19.328	76.527	7.261	1.814	1	H1-1a
1026	2L2 1/2x3 1/2x5/16	.715	20.153	9	.011	20.153	Y	5	19.328	76.527	7.261	1.814	1	H1-1a
1027	2L2 1/2x3 1/2x5/16	.717	20.153	7	.011	20.153	Y	3	19.328	76.527	7.261	1.814	1	H1-1a
1028	2L2 1/2x3 1/2x5/16	.715	20.153	5	.011	20.153	Y	9	19.328	76.527	7.261	1.814	1	H1-1a
1029	2L2 1/2x3 1/2x5/16	.860	21.478	9	.012	21.478	Y	5	17.015	76.527	7.261	1.814	1	H1-1a

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Designer : awestrum
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftl	LC	Shear C...	Locftl	Dir	LC	Pnc/om [k]	Mnv/om [k-ft]	Mnz/om [k-ft]	Cb	Ean
1030	M1073	2L2 1/2x3 1/2x5/16	.850	21.478	7	.012	21.478	Y	3	17.015	76.527	1.814	1... H1-1a
1031	M1074	2L2 1/2x3 1/2x5/16	.853	21.478	5	.012	21.478	Y	9	17.015	76.527	1.814	1... H1-1a
1032	M1075	2L2 1/2x3 1/2x5/16	.840	21.478	3	.012	21.478	Y	7	17.015	76.527	1.814	1... H1-1a
1033	M697	L3X3X3	.154	4.596	18	.006	0	Y	10	4.966	23.497	.878	1 H2-1
1034	M716	L3X3X3	.152	4.596	16	.006	0	Y	10	4.966	23.497	.878	1 H2-1
1035	M735	L3X3X3	.153	4.596	14	.006	0	Y	10	4.966	23.497	.878	1 H2-1
1036	M738	L3X3X3	.155	4.596	12	.006	0	Y	10	4.966	23.497	.878	1 H2-1
1037	M782	L3X3X3	.180	4.928	18	.007	0	Y	10	4.32	23.497	.878	1 H2-1
1038	M801	L3X3X3	.177	4.928	16	.007	0	Y	10	4.32	23.497	.878	1 H2-1
1039	M820	L3X3X3	.181	4.928	14	.007	0	Y	10	4.32	23.497	.878	1 H2-1
1040	M823	L3X3X3	.096	5.259	18	.005	0	Y	10	17.585	61.653	5.355	1 H2-1
1041	M867	L4X4X6	.096	5.259	16	.005	0	Y	10	17.585	61.653	5.355	1 H2-1
1042	M886	L4X4X6	.096	5.259	14	.005	0	Y	10	17.585	61.653	5.355	1 H2-1
1043	M905	L4X4X6	.097	5.259	12	.005	0	Y	10	17.585	61.653	5.355	1 H2-1
1044	M908	L4X4X6	.117	5.591	14	.005	0	Y	10	15.561	61.653	5.26	1 H2-1
1045	M952	L4X4X6	.117	5.591	12	.005	0	Y	10	15.561	61.653	5.26	1 H2-1
1046	M971	L4X4X6	.117	5.591	18	.005	0	Y	10	15.561	61.653	5.26	1 H2-1
1047	M990	L4X4X6	.117	5.591	16	.005	0	Y	10	15.561	61.653	5.26	1 H2-1
1048	M993	L4X4X6	.069	4.5	12	.004	0	Y	12	19.512	51.305	3.018	1 H1-1b
1049	M250	2L2 1/2x2 1/2x1/4	.069	4.5	17	.004	0	Y	12	19.512	51.305	3.018	1 H1-1b
1050	M255	2L2 1/2x2 1/2x1/4	.071	4.5	18	.004	0	Y	11	19.512	51.305	3.018	1 H1-1b
1051	M262	2L2 1/2x2 1/2x1/4	.071	4.5	16	.004	0	Y	11	19.512	51.305	3.018	1 H1-1b
1052	M267	2L2 1/2x2 1/2x1/4	.070	4.5	16	.004	9	Y	12	19.512	51.305	3.018	1 H1-1b
1053	M275	2L2 1/2x2 1/2x1/4	.070	4.5	14	.004	9	Y	12	19.512	51.305	3.018	1 H1-1b
1054	M280	2L2 1/2x2 1/2x1/4	.068	4.5	14	.004	9	Y	11	19.512	51.305	3.018	1 H1-1b
1055	M288	2L2 1/2x2 1/2x1/4	.068	4.5	12	.004	9	Y	11	19.512	51.305	3.018	1 H1-1b
1056	M293	2L2 1/2x2 1/2x1/4	.089	5.125	18	.004	10.25	Y	16	15.043	51.305	3.018	1 H1-1b
1057	M311	2L2 1/2x2 1/2x1/4	.089	5.125	12	.004	0	Y	13	15.043	51.305	3.018	1 H1-1b
1058	M316	2L2 1/2x2 1/2x1/4	.090	5.125	16	.004	0	Y	11	15.043	51.305	3.018	1 H1-1b
1059	M323	2L2 1/2x2 1/2x1/4	.091	5.125	17	.004	0	Y	11	15.043	51.305	3.018	1 H1-1b
1060	M328	2L2 1/2x2 1/2x1/4	.090	5.125	15	.004	10.25	Y	11	15.043	51.305	3.018	1 H1-1b
1061	M336	2L2 1/2x2 1/2x1/4	.091	5.125	15	.004	10.25	Y	12	15.043	51.305	3.018	1 H1-1b
1062	M341	2L2 1/2x2 1/2x1/4	.089	5.125	12	.004	10.25	Y	11	15.043	51.305	3.018	1 H1-1b
1063	M349	2L2 1/2x2 1/2x1/4	.089	5.125	13	.004	10.25	Y	11	15.043	51.305	3.018	1 H1-1b
1064	M354	2L2 1/2x2 1/2x1/4	.111	5.75	11	.005	11.5	Y	10	11.951	51.305	3.018	1 H1-1b
1065	M372	2L2 1/2x2 1/2x1/4	.111	5.75	11	.005	11.5	Y	10	11.951	51.305	3.018	1 H1-1b
1066	M377	2L2 1/2x2 1/2x1/4	.114	5.75	17	.005	11.5	Y	10	11.951	51.305	3.018	1 H1-1b
1067	M384	2L2 1/2x2 1/2x1/4	.115	5.75	18	.005	11.5	Y	10	11.951	51.305	3.018	1 H1-1b
1068	M389	2L2 1/2x2 1/2x1/4	.115	5.75	16	.005	11.5	Y	10	11.951	51.305	3.018	1 H1-1b
1069	M397	2L2 1/2x2 1/2x1/4	.116	5.75	14	.005	11.5	Y	10	11.951	51.305	3.018	1 H1-1b
1070	M402	2L2 1/2x2 1/2x1/4	.116	5.75	14	.005	11.5	Y	10	11.951	51.305	3.018	1 H1-1b

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc(ft)	LC Shear C...	Loc(ft)	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Egn
1071	M410	.112	5.75	14	.005	11.5	Y	10	11.951	51.305	3.018	2.271	1 H1-1b
1072	M415	.112	5.75	12	.005	11.5	Y	10	11.951	51.305	3.018	2.271	1 H1-1b
1073	M433	.162	0	7	.009	4.138	Z	7	22.688	51.305	3.018	1.419	1... H1-1b
1074	M438	.165	8.275	5	.009	4.138	Z	5	22.688	51.305	3.018	1.419	1... H1-1b
1075	M449	.157	0	5	.008	4.138	Z	5	22.688	51.305	3.018	1.419	1... H1-1b
1076	M454	.165	8.275	3	.009	4.138	Z	3	22.688	51.305	3.018	1.419	1... H1-1b
1077	M468	.163	0	3	.009	4.138	Z	3	22.688	51.305	3.018	1.419	1... H1-1b
1078	M473	.157	8.275	9	.008	4.138	Z	9	22.688	51.305	3.018	1.419	1... H1-1b
1079	M487	.165	0	9	.009	4.138	Z	9	22.688	51.305	3.018	1.419	1... H1-1b
1080	M492	.161	8.275	7	.009	4.138	Z	7	22.688	51.305	3.018	1.419	1... H1-1b
1081	M518	.207	9.025	9	.004	9.025	Y	17	19.404	51.305	3.018	1.419	2... H1-1b
1082	M523	.220	0	3	.004	0	Y	13	19.404	51.305	3.018	1.419	2... H1-1b
1083	M532	.226	9.025	6	.004	9.025	Y	15	19.404	51.305	3.018	1.419	2... H1-1b
1084	M537	.250	0	9	.004	0	Y	11	19.404	51.305	3.018	1.419	1... H1-1b
1085	M549	.250	9.025	5	.004	9.025	Y	13	19.404	51.305	3.018	1.419	1... H1-1b
1086	M554	.238	0	7	.004	0	Y	17	19.404	51.305	3.018	1.419	1... H1-1b
1087	M566	.236	9.025	3	.004	9.025	Y	11	19.404	51.305	3.018	1.419	1... H1-1b
1088	M571	.207	0	5	.004	0	Y	15	19.404	51.305	3.018	1.419	2... H1-1b
1089	M595	.209	9.775	9	.005	9.775	Y	17	16.541	51.305	3.018	1.419	2... H1-1b
1090	M600	.220	0	3	.005	0	Y	13	16.541	51.305	3.018	1.419	2... H1-1b
1091	M609	.223	9.775	7	.005	9.775	Y	15	16.541	51.305	3.018	1.419	2... H1-1b
1092	M614	.249	0	9	.005	0	Y	11	16.541	51.305	3.018	1.419	1... H1-1b
1093	M626	.249	9.775	3	.005	9.775	Y	13	16.541	51.305	3.018	1.419	1... H1-1b
1094	M631	.239	0	7	.005	0	Y	17	16.541	51.305	3.018	1.419	1... H1-1b
1095	M643	.236	9.775	5	.005	9.775	Y	15	16.541	51.305	3.018	1.419	1... H1-1b
1096	M648	.210	0	5	.005	0	Y	15	16.541	51.305	3.018	1.419	2... H1-1b
1097	M672	.153	13	9	.005	0	Y	13	15.586	56.695	3.024	2.019	2... H1-1b
1098	M677	.158	0	3	.005	13	Y	18	15.586	56.695	3.024	2.019	2... H1-1b
1099	M688	.160	13	7	.005	13	Y	14	15.586	56.695	3.024	2.019	2... H1-1b
1100	M693	.172	0	9	.005	0	Y	17	15.586	56.695	3.024	2.019	2... H1-1b
1101	M707	.172	13	5	.005	0	Y	14	15.586	56.695	3.024	2.019	2... H1-1b
1102	M712	.167	0	7	.005	13	Y	14	15.586	56.695	3.024	2.019	2... H1-1b
1103	M726	.166	13	3	.005	0	Y	15	15.586	56.695	3.024	2.019	2... H1-1b
1104	M731	.153	0	5	.005	13	Y	12	15.586	56.695	3.024	2.019	2... H1-1b
1105	M757	.169	13.938	18	.006	0	Y	14	13.559	56.695	3.024	2.019	2... H1-1b
1106	M762	.170	0	3	.006	13.938	Y	16	13.559	56.695	3.024	2.019	2... H1-1b
1107	M773	.172	13.938	16	.006	0	Y	12	13.559	56.695	3.024	2.019	2... H1-1b
1108	M778	.183	0	9	.006	13.938	Y	14	13.559	56.695	3.024	2.019	2... H1-1b
1109	M792	.184	13.938	5	.006	0	Y	18	13.559	56.695	3.024	2.019	2... H1-1b
1110	M797	.179	0	7	.006	13.938	Y	12	13.559	56.695	3.024	2.019	2... H1-1b
1111	M811	.177	13.938	3	.006	0	Y	16	13.559	56.695	3.024	2.019	2... H1-1b

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Envelope AISI 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locfitl	LC Shear C...	Locfitl	Dir	LC	Pnc/om.lkl	Pnt/om.lkl	Mnvy/om.lk-ftl	Mnzz/om.lk-ftl	Cb	Ean
1112	M816	.170	0	.14	.006	13.938	Y 18	13.559	56.695	3.024	2.019	2...	H1-1b
1113	M842	.197	14.875	9	.006	14.875	Y 18	11.905	56.695	3.024	2.019	2...	H1-1b
1114	M847	.205	0	3	.006	0	Y 13	11.905	56.695	3.024	2.019	2...	H1-1b
1115	M858	.206	14.875	7	.006	14.875	Y 15	11.905	56.695	3.024	2.019	2...	H1-1b
1116	M863	.219	0	9	.006	0	Y 11	11.905	56.695	3.024	2.019	2...	H1-1b
1117	M877	.219	14.875	5	.006	14.875	Y 13	11.905	56.695	3.024	2.019	2...	H1-1b
1118	M882	.216	0	7	.006	0	Y 17	11.905	56.695	3.024	2.019	2...	H1-1b
1119	M896	.215	14.875	3	.006	14.875	Y 11	11.905	56.695	3.024	2.019	2...	H1-1b
1120	M901	.199	0	5	.006	0	Y 15	11.905	56.695	3.024	2.019	2...	H1-1b
1121	M927	.363	15.813	12	.009	0	Y 14	10.534	56.695	3.024	2.019	1...	H1-1a
1122	M932	.330	0	9	.009	15.813	Y 14	10.534	56.695	3.024	2.019	1...	H1-1a
1123	M943	.359	15.813	18	.009	0	Y 12	10.534	56.695	3.024	2.019	1...	H1-1a
1124	M948	.325	0	7	.009	15.813	Y 12	10.534	56.695	3.024	2.019	1...	H1-1a
1125	M962	.322	15.813	7	.009	0	Y 12	10.534	56.695	3.024	2.019	1...	H1-1a
1126	M967	.355	0	14	.009	15.813	Y 12	10.534	56.695	3.024	2.019	1...	H1-1a
1127	M981	.331	15.813	5	.009	0	Y 18	10.534	56.695	3.024	2.019	1...	H1-1a
1128	M986	.360	0	12	.009	15.813	Y 18	10.534	56.695	3.024	2.019	1...	H1-1a
1129	M72	.054	2.203	14	.003	4.406	Y 13	8.16	17.44	.411	.802	1	H2-1
1130	M75	.053	2.203	16	.003	4.406	Y 13	8.16	17.44	.411	.802	1	H2-1
1131	M79	.054	2.203	13	.003	0	Y 15	8.16	17.44	.411	.802	1	H2-1
1132	M82	.052	2.203	13	.003	4.406	Y 11	8.16	17.44	.411	.802	1	H2-1
1133	M86	.052	2.203	11	.003	0	Y 12	8.16	17.44	.411	.802	1	H2-1
1134	M89	.053	2.203	11	.003	0	Y 12	8.16	17.44	.411	.802	1	H2-1
1135	M93	.053	2.203	16	.003	0	Y 11	8.16	17.44	.411	.802	1	H2-1
1136	M96	.054	2.203	17	.003	0	Y 11	8.16	17.44	.411	.802	1	H2-1
1137	M109	.086	2.672	9	.004	0	Y 12	8.127	19.401	.58	1.057	1	H2-1
1138	M112	.087	2.672	3	.004	0	Y 10	8.127	19.401	.58	1.057	1	H2-1
1139	M116	.087	2.672	7	.004	0	Y 11	8.127	19.401	.58	1.057	1	H2-1
1140	M119	.085	2.672	9	.004	0	Y 10	8.127	19.401	.58	1.057	1	H2-1
1141	M123	.085	2.672	5	.004	0	Y 16	8.127	19.401	.58	1.057	1	H2-1
1142	M126	.087	2.672	7	.004	0	Y 16	8.127	19.401	.58	1.057	1	H2-1
1143	M130	.087	2.672	3	.004	5.344	Y 10	8.127	19.401	.58	1.057	1	H2-1
1144	M133	.086	2.672	5	.004	5.344	Y 10	8.127	19.401	.58	1.057	1	H2-1
1145	M142	.064	2.438	9	.003	0	Y 13	9.377	19.401	.58	1.085	1	H2-1
1146	M145	.065	2.438	3	.003	0	Y 12	9.377	19.401	.58	1.085	1	H2-1
1147	M149	.065	2.438	7	.003	0	Y 11	9.377	19.401	.58	1.085	1	H2-1
1148	M152	.061	2.438	9	.003	0	Y 11	9.377	19.401	.58	1.085	1	H2-1
1149	M156	.061	2.438	5	.003	4.875	Y 12	9.377	19.401	.58	1.085	1	H2-1
1150	M159	.064	2.438	7	.003	4.875	Y 13	9.377	19.401	.58	1.085	1	H2-1
1151	M163	.064	2.438	3	.003	4.875	Y 11	9.377	19.401	.58	1.085	1	H2-1
1152	M166	.064	2.438	5	.003	0	Y 15	9.377	19.401	.58	1.085	1	H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc(ft)	LC	Shear C...	Loc(ft)	Dir	LC	Pnc/om [k]	Pnc/om [k]	Mnyz/om [k-ft]	Mnyz/om [k-ft]	Minzz/om [k-ft]	Cb	Egn
1153	M179	L2.5X2.5X3	.185	3.141	9	.004	0	Y	13	5.941	19.401	.58	1.004	1	H2-1
1154	M182	L2.5X2.5X3	.208	3.141	3	.004	0	Y	12	5.941	19.401	.58	1.004	1	H2-1
1155	M186	L2.5X2.5X3	.209	3.141	7	.004	6.281	Y	14	5.941	19.401	.58	1.004	1	H2-1
1156	M189	L2.5X2.5X3	.209	3.141	9	.004	0	Y	12	5.941	19.401	.58	1.004	1	H2-1
1157	M193	L2.5X2.5X3	.209	3.141	5	.004	6.281	Y	10	5.941	19.401	.58	1.004	1	H2-1
1158	M196	L2.5X2.5X3	.200	3.141	7	.004	0	Y	16	5.941	19.401	.58	1.004	1	H2-1
1159	M200	L2.5X2.5X3	.199	3.141	3	.004	6.281	Y	11	5.941	19.401	.58	1.004	1	H2-1
1160	M203	L2.5X2.5X3	.185	3.141	5	.004	0	Y	15	5.941	19.401	.58	1.03	1	H2-1
1161	M212	L2.5X2.5X3	.126	2.906	9	.004	0	Y	18	6.936	19.401	.58	1.03	1	H2-1
1162	M215	L2.5X2.5X3	.134	2.906	3	.004	5.813	Y	10	6.936	19.401	.58	1.03	1	H2-1
1163	M219	L2.5X2.5X3	.134	2.906	7	.004	0	Y	10	6.936	19.401	.58	1.03	1	H2-1
1164	M222	L2.5X2.5X3	.133	2.906	9	.004	5.813	Y	12	6.936	19.401	.58	1.03	1	H2-1
1165	M226	L2.5X2.5X3	.133	2.906	5	.004	0	Y	10	6.936	19.401	.58	1.03	1	H2-1
1166	M229	L2.5X2.5X3	.131	2.906	7	.004	5.813	Y	10	6.936	19.401	.58	1.03	1	H2-1
1167	M233	L2.5X2.5X3	.131	2.906	3	.004	0	Y	10	6.936	19.401	.58	1.03	1	H2-1
1168	M236	L2.5X2.5X3	.126	2.906	5	.004	0	Y	11	6.936	19.401	.58	1.03	1	H2-1
1169	M249	L2.5X2X3	.099	2.25	9	.003	4.5	Y	13	7.903	17.44	.411	.798	1	H2-1
1170	M254	L2.5X2X3	.102	2.25	3	.003	4.5	Y	13	7.903	17.44	.411	.798	1	H2-1
1171	M261	L2.5X2X3	.103	2.25	7	.003	4.5	Y	11	7.903	17.44	.411	.798	1	H2-1
1172	M266	L2.5X2X3	.095	2.25	9	.003	4.5	Y	11	7.903	17.44	.411	.798	1	H2-1
1173	M274	L2.5X2X3	.103	2.25	6	.003	0	Y	12	7.903	17.44	.411	.798	1	H2-1
1174	M279	L2.5X2X3	.091	2.25	6	.003	4.5	Y	17	7.903	17.44	.411	.798	1	H2-1
1175	M287	L2.5X2X3	.087	2.25	4	.003	0	Y	11	7.903	17.44	.411	.798	1	H2-1
1176	M292	L2.5X2X3	.105	2.25	4	.003	0	Y	11	7.903	17.44	.411	.798	1	H2-1
1177	M310	L2.5X2X3	.101	2.563	2	.003	0	Y	10	6.265	17.44	.411	.77	1	H2-1
1178	M315	L2.5X2X3	.098	2.563	2	.003	0	Y	12	6.265	17.44	.411	.77	1	H2-1
1179	M322	L2.5X2X3	.115	2.563	8	.003	0	Y	11	6.265	17.44	.411	.77	1	H2-1
1180	M327	L2.5X2X3	.094	2.563	7	.003	0	Y	11	6.265	17.44	.411	.77	1	H2-1
1181	M335	L2.5X2X3	.117	2.563	7	.003	0	Y	10	6.265	17.44	.411	.77	1	H2-1
1182	M340	L2.5X2X3	.116	2.563	5	.003	0	Y	16	6.265	17.44	.411	.77	1	H2-1
1183	M348	L2.5X2X3	.091	2.563	5	.003	0	Y	14	6.265	17.44	.411	.77	1	H2-1
1184	M353	L2.5X2X3	.116	2.563	3	.003	0	Y	14	6.265	17.44	.411	.77	1	H2-1
1185	M371	L2.5X2X3	.141	2.875	3	.004	5.75	Y	13	4.977	17.44	.411	.743	1	H2-1
1186	M376	L2.5X2X3	.136	2.875	9	.004	5.75	Y	13	4.977	17.44	.411	.743	1	H2-1
1187	M383	L2.5X2X3	.175	2.875	9	.004	5.75	Y	12	4.977	17.44	.411	.743	1	H2-1
1188	M388	L2.5X2X3	.143	2.875	7	.004	5.75	Y	11	4.977	17.44	.411	.743	1	H2-1
1189	M396	L2.5X2X3	.175	2.875	7	.004	0	Y	12	4.977	17.44	.411	.743	1	H2-1
1190	M401	L2.5X2X3	.177	2.875	5	.004	0	Y	12	4.977	17.44	.411	.743	1	H2-1
1191	M409	L2.5X2X3	.138	2.875	5	.004	0	Y	11	4.977	17.44	.411	.743	1	H2-1
1192	M414	L2.5X2X3	.174	2.875	3	.004	0	Y	11	4.977	17.44	.411	.743	1	H2-1
1193	M432	L2.5X2X3	.098	2.069	2	.003	0	Y	11	8.91	17.44	.411	.815	1	H2-1

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Designer : awesstrum
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftl	LC	Shear C...	Locifl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mmv/om [k-ft]	Mnzz/om [k-ft]	Cb	Eon
1194	M437	.101	2.069	2	.003	0	Y	16	8.91	17.44	.411	.815	1	H2-1
1195	M448	.103	2.069	8	.003	0	Y	15	8.91	17.44	.411	.815	1	H2-1
1196	M453	.097	2.069	8	.003	0	Y	15	8.91	17.44	.411	.815	1	H2-1
1197	M467	.102	2.069	6	.003	0	Y	12	8.91	17.44	.411	.815	1	H2-1
1198	M472	.099	2.069	6	.003	0	Y	12	8.91	17.44	.411	.815	1	H2-1
1199	M486	.097	2.069	4	.003	0	Y	10	8.91	17.44	.411	.815	1	H2-1
1200	M491	.103	2.069	4	.003	0	Y	11	8.91	17.44	.411	.815	1	H2-1
1201	M517	.152	2.256	9	.003	0	Y	10	7.87	17.44	.411	.797	1	H2-1
1202	M522	.159	2.256	3	.003	0	Y	10	7.87	17.44	.411	.797	1	H2-1
1203	M531	.161	2.256	7	.003	0	Y	14	7.87	17.44	.411	.797	1	H2-1
1204	M536	.167	2.256	9	.003	0	Y	10	7.87	17.44	.411	.797	1	H2-1
1205	M548	.167	2.256	5	.003	0	Y	10	7.87	17.44	.411	.797	1	H2-1
1206	M553	.161	2.256	7	.003	0	Y	10	7.87	17.44	.411	.797	1	H2-1
1207	M565	.160	2.256	3	.003	0	Y	10	7.87	17.44	.411	.797	1	H2-1
1208	M570	.152	2.256	5	.003	0	Y	10	7.87	17.44	.411	.78	1	H2-1
1209	M594	.141	2.444	3	.003	0	Y	18	6.878	17.44	.411	.78	1	H2-1
1210	M599	.138	2.444	9	.003	0	Y	16	6.878	17.44	.411	.78	1	H2-1
1211	M608	.151	2.444	9	.003	0	Y	15	6.878	17.44	.411	.78	1	H2-1
1212	M613	.140	2.444	7	.003	0	Y	14	6.878	17.44	.411	.78	1	H2-1
1213	M625	.152	2.444	7	.003	0	Y	12	6.878	17.44	.411	.78	1	H2-1
1214	M630	.152	2.444	5	.003	0	Y	11	6.878	17.44	.411	.78	1	H2-1
1215	M642	.139	2.444	5	.003	0	Y	11	6.878	17.44	.411	.78	1	H2-1
1216	M647	.153	2.444	3	.003	0	Y	11	6.878	17.44	.411	.78	1	H2-1
1217	M671	.172	3.25	3	.004	6.5	Y	12	5.547	19.401	.58	.993	1	H2-1
1218	M676	.169	3.25	9	.004	0	Y	10	5.547	19.401	.58	.993	1	H2-1
1219	M687	.188	3.25	9	.004	6.5	Y	11	5.547	19.401	.58	.993	1	H2-1
1220	M692	.173	3.25	7	.004	6.5	Y	11	5.547	19.401	.58	.993	1	H2-1
1221	M706	.190	3.25	7	.004	0	Y	11	5.547	19.401	.58	.993	1	H2-1
1222	M711	.189	3.25	5	.004	0	Y	10	5.547	19.401	.58	.993	1	H2-1
1223	M725	.170	3.25	5	.004	6.5	Y	14	5.547	19.401	.58	.993	1	H2-1
1224	M730	.190	3.25	3	.004	0	Y	11	5.547	19.401	.58	.968	1	H2-1
1225	M756	.288	3.484	9	.005	6.969	Y	16	4.826	19.401	.58	.968	1	H2-1
1226	M761	.288	3.484	9	.005	0	Y	10	4.826	19.401	.58	.968	1	H2-1
1227	M772	.276	3.484	9	.005	0	Y	10	4.826	19.401	.58	.968	1	H2-1
1228	M777	.277	3.484	7	.005	0	Y	10	4.826	19.401	.58	.968	1	H2-1
1229	M791	.288	3.484	7	.005	0	Y	10	4.826	19.401	.58	.968	1	H2-1
1230	M796	.268	3.484	5	.005	6.969	Y	12	4.826	19.401	.58	.968	1	H2-1
1231	M810	.276	3.484	5	.005	0	Y	10	4.826	19.401	.58	.968	1	H2-1
1232	M815	.310	3.484	3	.005	0	Y	10	4.826	19.401	.58	.968	1	H2-1
1233	M841	.274	3.719	3	.005	7.438	Y	12	4.236	19.401	.58	.945	1	H2-1
1234	M846	.306	3.719	2	.005	7.438	Y	13	4.236	19.401	.58	.945	1	H2-1

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 Designer : awestrum
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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locf[t]	LC Shear C...	Locf[t]	Dir LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-ft]	Minz/om [k-ft]	Ob	Eqn
M857	L2.5X2.5X3	.303	3.719	8	.005	0	Y 10	4.236	19.401	.58	.945	1 H2-1
M862	L2.5X2.5X3	.271	3.719	7	.005	0	Y 15	4.236	19.401	.58	.945	1 H2-1
M876	L2.5X2.5X3	.281	3.719	6	.005	7.438	Y 16	4.236	19.401	.58	.945	1 H2-1
M881	L2.5X2.5X3	.287	3.719	6	.005	0	Y 10	4.236	19.401	.58	.945	1 H2-1
M895	L2.5X2.5X3	.290	3.719	4	.005	0	Y 18	4.236	19.401	.58	.945	1 H2-1
M900	L2.5X2.5X3	.280	3.719	4	.005	0	Y 11	4.236	19.401	.58	.945	1 H2-1
M926	L2.5X2.5X3	.148	3.953	12	.005	7.906	Y 18	3.75	19.401	.58	.922	1 H2-1
M931	L2.5X2.5X3	.146	3.953	18	.005	7.906	Y 10	3.75	19.401	.58	.922	1 H2-1
M942	L2.5X2.5X3	.153	3.953	18	.005	7.906	Y 15	3.75	19.401	.58	.922	1 H2-1
M947	L2.5X2.5X3	.152	3.953	16	.005	0	Y 10	3.75	19.401	.58	.922	1 H2-1
M961	L2.5X2.5X3	.156	3.953	16	.005	7.906	Y 13	3.75	19.401	.58	.922	1 H2-1
M966	L2.5X2.5X3	.158	3.953	14	.005	0	Y 10	3.75	19.401	.58	.922	1 H2-1
M980	L2.5X2.5X3	.150	3.953	14	.005	7.906	Y 12	3.75	19.401	.58	.922	1 H2-1
M985	L2.5X2.5X3	.151	3.953	12	.005	0	Y 10	3.75	19.401	.58	.922	1 H2-1
M1596	L2.5X2.5X4	.516	3.719	7	.002	7.438	Y 2	5.217	25.653	.741	1.393	1 H2-1
M1597	L2.5X2.5X4	.499	3.719	7	.002	0	Y 3	5.217	25.653	.741	1.393	1 H2-1
M1598	L2.5X2.5X4	.675	4.494	3	.002	8.805	Y 7	3.723	25.653	.741	1.325	1 H2-1
M1599	L2.5X2.5X4	.690	4.311	3	.002	8.805	Y 9	3.723	25.653	.741	1.325	1 H2-1
M1600	L2.5X2.5X4	.206	1.859	7	.001	0	Y 3	16.336	25.653	.741	1.618	1 H2-1
M1601	L2.5X2.5X4	.214	1.859	7	.001	3.719	Y 3	16.336	25.653	.741	1.618	1 H2-1
M1602	L2.5X2.5X4	.455	2.963	3	.001	0	Y 8	8.561	25.653	.741	1.482	1 H2-1
M1603	L2.5X2.5X4	.443	2.843	3	.001	0	Y 7	8.561	25.653	.741	1.482	1 H2-1
M1604	L2.5X2.5X4	.240	1.859	7	.001	3.719	Y 4	16.336	25.653	.741	1.618	1 H2-1
M1605	L2.5X2.5X4	.224	1.859	7	.001	0	Y 2	16.336	25.653	.741	1.618	1 H2-1
M1606	L2.5X2.5X4	.429	2.583	3	.001	5.391	Y 5	9.93	25.653	.741	1.507	1 H2-1
M1607	L2.5X2.5X4	.449	2.808	3	.001	5.391	Y 10	9.93	25.653	.741	1.507	1 H2-1
M1608	L2.5X2.5X4	.493	3.719	5	.002	0	Y 3	5.217	25.653	.741	1.393	1 H2-1
M1609	L2.5X2.5X4	.523	3.719	5	.002	0	Y 2	5.217	25.653	.741	1.393	1 H2-1
M1610	L2.5X2.5X4	.692	4.494	9	.002	0	Y 6	3.723	25.653	.741	1.325	1 H2-1
M1611	L2.5X2.5X4	.665	4.311	9	.002	0	Y 5	3.723	25.653	.741	1.325	1 H2-1
M1612	L2.5X2.5X4	.215	1.859	5	.001	0	Y 9	16.336	25.653	.741	1.618	1 H2-1
M1613	L2.5X2.5X4	.202	1.859	5	.001	3.719	Y 9	16.336	25.653	.741	1.618	1 H2-1
M1614	L2.5X2.5X4	.433	2.963	9	.001	5.806	Y 2	8.561	25.653	.741	1.482	1 H2-1
M1615	L2.5X2.5X4	.453	2.843	9	.001	0	Y 8	8.561	25.653	.741	1.482	1 H2-1
M1616	L2.5X2.5X4	.218	1.859	5	.001	3.719	Y 2	16.336	25.653	.741	1.618	1 H2-1
M1617	L2.5X2.5X4	.246	1.859	5	.001	0	Y 7	16.336	25.653	.741	1.618	1 H2-1
M1618	L2.5X2.5X4	.454	2.583	9	.001	5.391	Y 6	9.93	25.653	.741	1.507	1 H2-1
M1619	L2.5X2.5X4	.417	2.808	9	.001	5.391	Y 2	9.93	25.653	.741	1.507	1 H2-1
M1620	L2.5X2.5X4	.505	3.719	3	.002	0	Y 2	5.217	25.653	.741	1.393	1 H2-1
M1621	L2.5X2.5X4	.524	3.719	3	.002	7.438	Y 3	5.217	25.653	.741	1.393	1 H2-1
M1622	L2.5X2.5X4	.684	4.494	7	.002	8.805	Y 7	3.723	25.653	.741	1.325	1 H2-1

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftl	LC	Shear C...	Locftl	Dir	LC	Pnc/om [k]	Pnl/om [k]	Mnv/om [k-ft]	Mnzz/om [k-ft]	Ob	Eon
1276	M1623	L2.5X2.5X4	.669	4.311	7	.002	0	Y	2	3.723	.741	1.325	1...	H2-1
1277	M1624	L2.5X2.5X4	.217	1.859	3	.001	0	Y	6	16.336	.741	1.618	1...	H2-1
1278	M1625	L2.5X2.5X4	.209	1.859	3	.001	0	Y	4	16.336	.741	1.618	1...	H2-1
1279	M1626	L2.5X2.5X4	.438	2.963	7	.001	5.806	Y	4	8.561	.741	1.482	1...	H2-1
1280	M1627	L2.5X2.5X4	.450	2.843	7	.001	5.806	Y	7	8.561	.741	1.482	1...	H2-1
1281	M1628	L2.5X2.5X4	.229	1.859	3	.001	3.719	Y	8	16.336	.741	1.618	1...	H2-1
1282	M1629	L2.5X2.5X4	.246	1.859	3	.001	0	Y	5	16.336	.741	1.507	1...	H2-1
1283	M1630	L2.5X2.5X4	.442	2.583	7	.001	0	Y	10	9.93	.741	1.507	1...	H2-1
1284	M1631	L2.5X2.5X4	.421	2.808	7	.001	0	Y	17	9.93	.741	1.507	1...	H2-1
1285	M1632	L2.5X2.5X4	.527	3.719	9	.002	7.438	Y	4	5.217	.741	1.393	1...	H2-1
1286	M1633	L2.5X2.5X4	.493	3.719	9	.002	7.438	Y	2	5.217	.741	1.393	1...	H2-1
1287	M1634	L2.5X2.5X4	.662	4.494	5	.002	0	Y	2	3.723	.741	1.325	1...	H2-1
1288	M1635	L2.5X2.5X4	.691	4.311	5	.002	8.805	Y	4	3.723	.741	1.325	1...	H2-1
1289	M1636	L2.5X2.5X4	.202	1.859	9	.001	0	Y	5	16.336	.741	1.618	1...	H2-1
1290	M1637	L2.5X2.5X4	.216	1.859	9	.001	0	Y	2	16.336	.741	1.618	1...	H2-1
1291	M1638	L2.5X2.5X4	.452	2.963	5	.001	0	Y	6	8.561	.741	1.482	1...	H2-1
1292	M1639	L2.5X2.5X4	.432	2.843	5	.001	0	Y	14	8.561	.741	1.482	1...	H2-1
1293	M1640	L2.5X2.5X4	.249	1.859	9	.001	3.719	Y	7	16.336	.741	1.618	1...	H2-1
1294	M1641	L2.5X2.5X4	.221	1.859	9	.001	0	Y	3	16.336	.741	1.507	1...	H2-1
1295	M1642	L2.5X2.5X4	.413	2.583	5	.001	0	Y	7	9.93	.741	1.507	1...	H2-1
1296	M1643	L2.5X2.5X4	.450	2.808	5	.001	5.391	Y	16	9.93	.741	1.369	1...	H2-1
1297	M1548	L2.5X2.5X4	.745	3.953	9	.002	0	Y	4	4.617	.741	1.306	1...	H2-1
1298	M1549	L2.5X2.5X4	.922	4.706	5	.002	9.22	Y	3	3.395	.741	1.306	1...	H2-1
1299	M1550	L2.5X2.5X4	.876	4.514	5	.002	9.22	Y	9	3.395	.741	1.306	1...	H2-1
1300	M1551	L2.5X2.5X4	.691	3.953	9	.002	0	Y	2	4.617	.741	1.369	1...	H2-1
1301	M1552	L2.5X2.5X4	.223	1.977	9	.001	0	Y	5	15.406	.741	1.601	1...	H2-1
1302	M1553	L2.5X2.5X4	.466	3.048	5	.001	5.971	Y	7	8.094	.741	1.473	1...	H2-1
1303	M1554	L2.5X2.5X4	.488	2.923	5	.001	5.971	Y	6	8.094	.741	1.473	1...	H2-1
1304	M1555	L2.5X2.5X4	.237	1.977	9	.001	3.953	Y	5	15.406	.741	1.601	1...	H2-1
1305	M1556	L2.5X2.5X4	.227	2.829	5	.001	5.542	Y	14	9.396	.741	1.498	1...	H2-1
1306	M1557	L2.5X2.5X4	.134	1.977	9	.001	0	Y	3	15.406	.741	1.601	1...	H2-1
1307	M1558	L2.5X2.5X4	.145	1.977	9	.001	3.953	Y	7	15.406	.741	1.601	1...	H2-1
1308	M1559	L2.5X2.5X4	.243	2.713	5	.001	5.542	Y	17	9.396	.741	1.498	1...	H2-1
1309	M1560	L2.5X2.5X4	.733	3.953	7	.002	0	Y	2	4.617	.741	1.369	1...	H2-1
1310	M1561	L2.5X2.5X4	.927	4.706	3	.002	0	Y	2	3.395	.741	1.306	1...	H2-1
1311	M1562	L2.5X2.5X4	.904	4.514	3	.002	0	Y	4	3.395	.741	1.306	1...	H2-1
1312	M1563	L2.5X2.5X4	.705	3.953	7	.002	7.906	Y	3	4.617	.741	1.369	1...	H2-1
1313	M1564	L2.5X2.5X4	.226	1.977	7	.001	0	Y	2	15.406	.741	1.601	1...	H2-1
1314	M1565	L2.5X2.5X4	.478	3.048	3	.001	0	Y	9	8.094	.741	1.473	1...	H2-1
1315	M1566	L2.5X2.5X4	.490	2.923	3	.001	5.971	Y	9	8.094	.741	1.473	1...	H2-1
1316	M1567	L2.5X2.5X4	.234	1.977	7	.001	3.953	Y	3	15.406	.741	1.601	1...	H2-1

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Company : GPD Group
Designer : awestrუმ
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locfll	L.C Shear C...	Locfll	Dir	LC	Pncfom [k]	Pntfom [k]	Mnyv/om [k-ft]	Mnzz/om [k-ft]	Ob	Eqn
1317	M1568	L2.5X2.5X4	.236	2.829	3	.001	0	Y	11	9.396	.741	1.498	1... H2-1
1318	M1569	L2.5X2.5X4	.137	1.977	7	.001	0	Y	9	15.406	.741	1.601	1... H2-1
1319	M1570	L2.5X2.5X4	.142	1.977	7	.001	3.953	Y	5	15.406	.741	1.601	1... H2-1
1320	M1571	L2.5X2.5X4	.243	2.713	3	.001	5.542	Y	5	9.396	.741	1.498	1... H2-1
1321	M1572	L2.5X2.5X4	.688	3.953	5	.002	7.906	Y	4	4.617	.741	1.369	1... H2-1
1322	M1573	L2.5X2.5X4	.879	4.706	9	.002	0	Y	4	3.395	.741	1.306	1... H2-1
1323	M1574	L2.5X2.5X4	.925	4.514	9	.002	0	Y	15	3.395	.741	1.369	1... H2-1
1324	M1575	L2.5X2.5X4	.741	3.953	5	.002	7.906	Y	2	4.617	.741	1.601	1... H2-1
1325	M1576	L2.5X2.5X4	.235	1.977	5	.001	0	Y	9	15.406	.741	1.473	1... H2-1
1326	M1577	L2.5X2.5X4	.489	3.048	9	.001	0	Y	16	8.094	.741	1.473	1... H2-1
1327	M1578	L2.5X2.5X4	.468	2.923	9	.001	0	Y	7	8.094	.741	1.601	1... H2-1
1328	M1579	L2.5X2.5X4	.222	1.977	5	.001	3.953	Y	2	15.406	.741	1.601	1... H2-1
1329	M1580	L2.5X2.5X4	.243	2.829	9	.001	5.542	Y	13	9.396	.741	1.498	1... H2-1
1330	M1581	L2.5X2.5X4	.144	1.977	5	.001	0	Y	7	15.406	.741	1.601	1... H2-1
1331	M1582	L2.5X2.5X4	.134	1.977	5	.001	3.953	Y	3	15.406	.741	1.498	1... H2-1
1332	M1583	L2.5X2.5X4	.228	2.713	9	.001	0	Y	10	9.396	.741	1.369	1... H2-1
1333	M1584	L2.5X2.5X4	.720	3.953	3	.002	7.906	Y	2	4.617	.741	1.306	1... H2-1
1334	M1585	L2.5X2.5X4	.891	4.706	7	.002	0	Y	12	3.395	.741	1.306	1... H2-1
1335	M1586	L2.5X2.5X4	.915	4.514	7	.002	9.22	Y	8	3.395	.741	1.369	1... H2-1
1336	M1587	L2.5X2.5X4	.750	3.953	3	.002	0	Y	3	4.617	.741	1.601	1... H2-1
1337	M1588	L2.5X2.5X4	.238	1.977	3	.001	0	Y	7	15.406	.741	1.473	1... H2-1
1338	M1589	L2.5X2.5X4	.485	3.048	7	.001	0	Y	2	8.094	.741	1.473	1... H2-1
1339	M1590	L2.5X2.5X4	.473	2.923	7	.001	0	Y	9	8.094	.741	1.601	1... H2-1
1340	M1591	L2.5X2.5X4	.230	1.977	3	.001	3.953	Y	7	15.406	.741	1.498	1... H2-1
1341	M1592	L2.5X2.5X4	.240	2.829	7	.001	0	Y	14	9.396	.741	1.601	1... H2-1
1342	M1593	L2.5X2.5X4	.145	1.977	3	.001	0	Y	5	15.406	.741	1.601	1... H2-1
1343	M1594	L2.5X2.5X4	.140	1.977	3	.001	3.953	Y	2	15.406	.741	1.498	1... H2-1
1344	M1595	L2.5X2.5X4	.232	2.713	7	.001	0	Y	18	9.396	.741	1.553	1... H2-1
1345	M1541	L2 1/2x2 1/2x1/4	.012	3.743	17	.001	.087	Z	4	4.288	.306	1.554	1... H2-1
1346	M1542	L2 1/2x2 1/2x1/4	.011	3.743	14	.002	0	Z	6	4.288	.306	1.546	1... H2-1
1347	M1543	L2 1/2x2 1/2x1/4	.011	3.656	12	.002	.087	Z	8	4.288	.306	1.543	1... H2-1
1348	M1544	L2 1/2x2 1/2x1/4	.012	3.656	12	.001	0	Z	6	4.288	.306	1.357	1... H2-1
1349	M1190A	L2 1/2x2 1/2x1/4	.011	0	17	.000	0	Y	10	4.288	.306	1.357	1... H2-1
1350	M1191A	L2 1/2x2 1/2x1/4	.011	0	15	.000	0	Y	15	4.288	.306	1.357	1... H2-1
1351	M1192A	L2 1/2x2 1/2x1/4	.011	0	13	.000	0	Y	3	4.288	.306	1.357	1... H2-1
1352	M1193A	L2 1/2x2 1/2x1/4	.011	0	11	.000	8.357	Y	11	4.288	.306	1.357	1... H2-1
1353	M1115A	L2 1/2x2 1/2x1/4	.012	0	17	.000	8.357	Y	16	4.288	.306	1.357	1... H2-1
1354	M1116A	L2 1/2x2 1/2x1/4	.012	0	15	.000	8.357	Y	14	4.288	.306	1.357	1... H2-1
1355	M1117A	L2 1/2x2 1/2x1/4	.012	0	13	.000	8.357	Y	13	4.288	.306	1.357	1... H2-1
1356	M1118A	L2 1/2x2 1/2x1/4	.012	0	11	.000	8.357	Y	11	4.288	.306	1.357	1... H2-1
1357	M996A	LL3x2.5x4x0	.004	3.83	15	.000	0	Y	12	31.238	2.981	3.189	1 H1-1b

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 Designer : awestrum
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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locftl	L.C. Shear C...	Locftl	Dir	L.C.	Pnc/om [k]	Pnt/om [k]	Mmv/om [k-ft]	Mnzz/om [k-ft]	Cb	Egn
1358	M997A	.004	3.83	13	.000	8.357	Y 16	31.238	56.91	2.981	3.189	1	H1-1b
1359	M998A	.004	3.83	18	.000	0	Y 16	31.238	56.91	2.981	3.189	1	H1-1b
1360	M999A	.004	3.83	17	.000	0	Y 10	31.238	56.91	2.981	3.189	1	H1-1b
1361	M1000	.086	4.334	8	.002	8.667	Y 14	3.841	25.653	.741	1.332	1	H2-1
1362	M1001	.007	1.697	17	.000	4.178	Y 18	14.512	25.653	.741	1.585	1	H2-1
1363	M1003	.017	2.742	8	.000	4.178	Y 14	14.512	25.653	.741	1.585	1	H2-1
1364	M1003A	.086	4.334	4	.002	8.667	Y 8	3.841	25.653	.741	1.332	1	H2-1
1365	M1004	.007	1.697	13	.000	4.178	Y 18	14.512	25.653	.741	1.585	1	H2-1
1366	M1006	.017	2.742	4	.000	4.178	Y 14	14.512	25.653	.741	1.585	1	H2-1
1367	M1006A	.088	4.334	6	.002	0	Y 12	3.841	25.653	.741	1.332	1	H2-1
1368	M1007	.007	1.697	15	.000	4.178	Y 10	14.512	25.653	.741	1.585	1	H2-1
1369	M1008	.018	2.742	6	.000	4.178	Y 13	14.512	25.653	.741	1.585	1	H2-1
1370	M1009	.088	4.334	2	.002	8.667	Y 5	3.841	25.653	.741	1.332	1	H2-1
1371	M1010	.007	1.697	11	.000	0	Y 15	14.512	25.653	.741	1.585	1	H2-1
1372	M1011	.018	2.742	2	.000	4.178	Y 12	14.512	25.653	.741	1.585	1	H2-1
1373	M1012	.089	4.334	4	.002	0	Y 4	3.841	25.653	.741	1.332	1	H2-1
1374	M1013	.007	1.697	13	.000	0	Y 10	14.512	25.653	.741	1.585	1	H2-1
1375	M1014	.019	2.742	4	.000	0	Y 14	14.512	25.653	.741	1.585	1	H2-1
1376	M1015	.089	4.334	8	.002	8.667	Y 7	3.841	25.653	.741	1.332	1	H2-1
1377	M1016	.007	1.697	17	.000	0	Y 14	14.512	25.653	.741	1.585	1	H2-1
1378	M1017	.019	2.742	8	.000	0	Y 18	14.512	25.653	.741	1.585	1	H2-1
1379	M1018	.087	4.334	2	.002	8.667	Y 10	3.841	25.653	.741	1.332	1	H2-1
1380	M1019	.007	1.697	11	.000	0	Y 17	14.512	25.653	.741	1.585	1	H2-1
1381	M1020	.018	2.742	2	.000	0	Y 18	14.512	25.653	.741	1.585	1	H2-1
1382	M1021	.087	4.334	6	.002	8.667	Y 7	3.841	25.653	.741	1.332	1	H2-1
1383	M1022	.007	1.697	15	.000	0	Y 12	14.512	25.653	.741	1.585	1	H2-1
1384	M1023	.018	2.742	6	.000	4.178	Y 13	14.512	25.653	.741	1.585	1	H2-1
1385	M1348A	1.008	5.474	4	.002	10.511	Y 4	28.25	76.527	5.4	4.016	1	H1-1a
1386	M1349A	1.017	5.036	8	.002	10.511	Y 7	28.25	76.527	5.4	4.016	1	H1-1a
1387	M1354A	1.138	5.474	2	.002	10.511	Y 2	28.25	76.527	5.4	4.016	1	H1-1a
1388	M1355	1.147	5.036	6	.002	10.511	Y 6	28.25	76.527	5.4	4.016	1	H1-1a
1389	M1360A	1.189	5.474	8	.002	0	Y 5	28.25	76.527	5.4	4.016	1	H1-1a
1390	M1361A	1.181	5.036	4	.002	0	Y 3	28.25	76.527	5.4	4.016	1	H1-1a
1391	M1366A	1.060	5.474	6	.002	0	Y 2	28.25	76.527	5.4	4.016	1	H1-1a
1392	M1367A	1.051	5.036	2	.002	0	Y 9	28.25	76.527	5.4	4.016	1	H1-1a
1393	M1325	.731	5.678	4	.002	10.901	Y 8	41.786	90.754	7.37	5.575	1	H1-1a
1394	M1326A	.737	5.223	8	.002	10.901	Y 4	41.786	90.754	7.37	5.575	1	H1-1a
1395	M1329A	.830	5.678	2	.002	0	Y 5	41.786	90.754	7.37	5.575	1	H1-1a
1396	M1330A	.837	5.223	6	.002	10.901	Y 6	41.786	90.754	7.37	5.575	1	H1-1a
1397	M1333A	.875	5.678	8	.002	0	Y 8	41.786	90.754	7.37	5.575	1	H1-1a
1398	M1334A	.870	5.223	4	.002	10.901	Y 4	41.786	90.754	7.37	5.575	1	H1-1a

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Company : GPD Group
Designer : awestrum
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-ft]	Minz/om [k-ft]	Ob	Eqn
1399	M1337A	.776	5.678	6	.002	0	Y	6	41.786	90.754	7.37	5.575	1	H1-1a
1400	M1338A	.769	5.223	2	.002	10.901	Y	7	41.786	90.754	7.37	5.575	1	H1-1a
1401	M1294A	.831	5.774	8	.002	0	Y	4	39.366	90.754	7.37	5.575	1	H1-1a
1402	M1295A	.825	5.538	4	.002	11.313	Y	4	39.366	90.754	7.37	5.575	1	H1-1a
1403	M1298A	.948	5.774	6	.002	0	Y	6	39.366	90.754	7.37	5.575	1	H1-1a
1404	M1299A	.940	5.538	2	.002	0	Y	6	39.366	90.754	7.37	5.575	1	H1-1a
1405	M1302A	.990	5.774	4	.002	11.313	Y	4	39.366	90.754	7.37	5.575	1	H1-1a
1406	M1303A	.997	5.774	8	.002	0	Y	8	39.366	90.754	7.37	5.575	1	H1-1a
1407	M1306A	.873	5.538	6	.002	0	Y	2	39.366	90.754	7.37	5.575	1	H1-1a
1408	M1307A	.882	4.691	8	.001	0	Y	17	25.142	56.695	3.024	3.23	1	H1-1a
1409	M1346A	1.086	4.691	4	.001	0	Y	4	25.142	56.695	3.024	3.23	1	H1-1a
1410	M1347A	1.077	4.691	6	.001	9.79	Y	7	25.142	56.695	3.024	3.23	1	H1-1a
1411	M1352A	1.222	4.691	2	.001	0	Y	6	25.142	56.695	3.024	3.23	1	H1-1a
1412	M1353A	1.213	4.691	4	.001	9.79	Y	14	25.142	56.695	3.024	3.23	1	H1-1a
1413	M1358B	1.258	4.691	8	.001	0	Y	3	25.142	56.695	3.024	3.23	1	H1-1a
1414	M1359B	1.267	4.691	2	.001	0	Y	2	25.142	56.695	3.024	3.23	1	H1-1a
1415	M1364A	1.122	4.691	6	.001	0	Y	7	25.142	56.695	3.024	3.23	1	H1-1a
1416	M1365A	1.131	4.82	8	.001	10.06	Y	4	28.255	56.695	3.024	3.23	1	H1-1a
1417	M1323A	1.029	4.82	4	.001	10.06	Y	8	28.255	56.695	3.024	3.23	1	H1-1a
1418	M1324	1.021	4.82	6	.001	10.06	Y	6	28.255	56.695	3.024	3.23	1	H1-1a
1419	M1327B	1.166	4.82	2	.001	0	Y	2	28.255	56.695	3.024	3.23	1	H1-1a
1420	M1328B	1.156	4.82	8	.001	10.06	Y	7	28.255	56.695	3.024	3.23	1	H1-1a
1421	M1331A	1.210	4.82	4	.001	10.06	Y	8	28.255	56.695	3.024	3.23	1	H1-1a
1422	M1332A	1.218	4.82	2	.001	0	Y	2	28.255	56.695	3.024	3.23	1	H1-1a
1423	M1335A	1.073	4.82	6	.001	10.06	Y	7	28.255	56.695	3.024	3.23	1	H1-1a
1424	M1336A	1.083	4.958	8	.002	0	Y	5	40.942	90.97	7.565	4.754	1	H1-1a
1425	M1292A	.760	4.958	4	.002	10.346	Y	5	40.942	90.97	7.565	4.754	1	H1-1a
1426	M1293A	.754	4.958	6	.002	0	Y	7	40.942	90.97	7.565	4.754	1	H1-1a
1427	M1296A	.863	4.958	2	.002	0	Y	6	40.942	90.97	7.565	4.754	1	H1-1a
1428	M1297A	.856	4.958	4	.002	0	Y	4	40.942	90.97	7.565	4.754	1	H1-1a
1429	M1300A	.900	4.958	8	.002	0	Y	8	40.942	90.97	7.565	4.754	1	H1-1a
1430	M1301A	.906	4.958	2	.002	0	Y	2	40.942	90.97	7.565	4.754	1	H1-1a
1431	M1304A	.797	4.958	6	.002	0	Y	3	40.942	90.97	7.565	4.754	1	H1-1a
1432	M1305A	.805	4.958	4	.002	0	Y	13	59.154	161.461	17.217	11.212	1	H1-1a
1433	M681	.789	7.311	8	.004	0	Y	12	59.154	161.461	17.217	11.212	1	H1-1a
1434	M682	.784	7.311	4	.004	14.932	Y	14	59.154	161.461	17.217	11.212	1	H1-1a
1435	M700	.892	7.311	6	.004	0	Y	18	59.154	161.461	17.217	11.212	1	H1-1a
1436	M701	.884	7.311	2	.004	14.932	Y	13	59.154	161.461	17.217	11.212	1	H1-1a
1437	M719	.932	7.311	4	.004	0	Y	12	59.154	161.461	17.217	11.212	1	H1-1a
1438	M720	.937	7.311	8	.004	14.932	Y	12	59.154	161.461	17.217	11.212	1	H1-1a
1439	M741	.830	7.311	2	.004	14.932	Y	12	59.154	161.461	17.217	11.212	1	H1-1a

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc(1)	LC Shear C...	Loc(1)	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnv/om [k-ft]	Mnzz/om [k-ft]	Cb	Ean		
1440	M742	LL4x4x8x3	.838	7.311	6	.004	14.932	Y	15	59.154	161.461	17.217	11.212	1	H1-1a
1441	M766	LL4x4x8x3	.941	7.695	8	.004	0	Y	17	53.005	161.461	17.217	11.212	1	H1-1a
1442	M767	LL4x4x8x3	.935	7.695	4	.004	0	Y	17	53.005	161.461	17.217	11.212	1	H1-1a
1443	M785	LL4x4x8x3	1.059	7.695	6	.004	15.718	Y	16	53.005	161.461	17.217	11.212	1	H1-1a
1444	M786	LL4x4x8x3	1.050	7.695	2	.004	15.718	Y	11	53.005	161.461	17.217	11.212	1	H1-1a
1445	M804	LL4x4x8x3	1.110	7.695	4	.004	15.718	Y	13	53.005	161.461	17.217	11.212	1	H1-1a
1446	M805	LL4x4x8x3	1.115	7.695	8	.004	15.718	Y	18	53.005	161.461	17.217	11.212	1	H1-1a
1447	M826	LL4x4x8x3	.991	7.695	2	.004	0	Y	15	53.005	161.461	17.217	11.212	1	H1-1a
1448	M827	LL4x4x8x3	1.000	7.695	6	.004	0	Y	15	53.005	161.461	17.217	11.212	1	H1-1a
1449	M851	LL4x4x8x3	1.111	8.088	8	.005	0	Y	17	47.668	161.461	17.217	11.212	1	H1-1a
1450	M852	LL4x4x8x3	1.106	8.088	4	.005	0	Y	17	47.668	161.461	17.217	11.212	1	H1-1a
1451	M870	LL4x4x8x3	1.243	8.088	6	.005	0	Y	11	47.668	161.461	17.217	11.212	1	H1-1a
1452	M871	LL4x4x8x3	1.238	8.088	2	.005	0	Y	11	47.668	161.461	17.217	11.212	1	H1-1a
1453	M889	LL4x4x8x3	1.309	8.088	4	.005	16.52	Y	18	47.668	161.461	17.217	11.212	1	H1-1a
1454	M890	LL4x4x8x3	1.310	8.088	8	.005	16.52	Y	16	47.668	161.461	17.217	11.212	1	H1-1a
1455	M911	LL4x4x8x3	1.175	8.088	2	.005	16.52	Y	14	47.668	161.461	17.217	11.212	1	H1-1a
1456	M912	LL4x4x8x3	1.183	8.088	6	.005	0	Y	14	47.668	161.461	17.217	11.212	1	H1-1a
1457	M936	LL5x5x6x3	.898	8.667	8	.004	8.667	Y	8	67.489	157.365	19.576	8.66	1...	H1-1a
1458	M937	LL5x5x6x3	.894	8.667	4	.004	8.667	Y	4	67.489	157.365	19.576	8.66	1...	H1-1a
1459	M955	LL5x5x6x3	1.000	8.667	6	.005	8.667	Y	6	67.489	157.365	19.576	8.66	1...	H1-1a
1460	M956	LL5x5x6x3	.997	8.667	2	.005	8.667	Y	2	67.489	157.365	19.576	8.66	1...	H1-1a
1461	M974	LL5x5x6x3	1.051	8.667	4	.005	8.667	Y	4	67.489	157.365	19.576	8.66	1...	H1-1a
1462	M975	LL5x5x6x3	1.054	8.667	8	.005	8.667	Y	2	67.489	157.365	19.576	8.66	1...	H1-1a
1463	M996	LL5x5x6x3	.949	8.667	6	.005	8.667	Y	6	67.489	157.365	19.576	8.66	1...	H1-1a
1464	M997	LL5x5x6x3	.953	8.667	2	.005	8.667	Y	2	67.489	157.365	19.576	8.66	1...	H1-1a
1465	M258	2L2 1/2x2 1/2x1/4	.413	5.125	6	.004	10.25	Y	16	14.008	51.305	3.018	2.271	1...	H1-1a
1466	M270	2L2 1/2x2 1/2x1/4	.422	5.125	4	.004	10.25	Y	14	14.008	51.305	3.018	2.271	1...	H1-1a
1467	M283	2L2 1/2x2 1/2x1/4	.419	5.125	2	.004	10.25	Y	12	14.008	51.305	3.018	2.271	1...	H1-1a
1468	M296	2L2 1/2x2 1/2x1/4	.410	5.125	8	.004	10.25	Y	11	14.008	51.305	3.018	2.271	1...	H1-1a
1469	M319	2L2 1/2x2 1/2x1/4	.505	5.75	6	.005	11.5	Y	10	11.129	51.305	3.018	2.271	1...	H1-1a
1470	M331	2L2 1/2x2 1/2x1/4	.515	5.75	4	.005	11.5	Y	10	11.129	51.305	3.018	2.271	1...	H1-1a
1471	M344	2L2 1/2x2 1/2x1/4	.513	5.75	2	.005	11.5	Y	10	11.129	51.305	3.018	2.271	1...	H1-1a
1472	M357	2L2 1/2x2 1/2x1/4	.504	5.75	8	.005	11.5	Y	10	11.129	51.305	3.018	2.271	1...	H1-1a
1473	M380	2L2 1/2x3x1/4	.767	6.375	6	.006	0	Y	10	9.567	56.695	4.295	2.327	1...	H1-1a
1474	M392	2L2 1/2x3x1/4	.780	6.375	4	.006	0	Y	10	9.567	56.695	4.295	2.327	1...	H1-1a
1475	M405	2L2 1/2x3x1/4	.780	6.375	2	.006	0	Y	10	9.567	56.695	4.295	2.327	1...	H1-1a
1476	M418	2L2 1/2x3x1/4	.767	6.375	8	.006	0	Y	10	9.567	56.695	4.295	2.327	1...	H1-1a
1477	M441	2L3x3x1/4	.561	0	7	.003	0	Y	17	46.518	62.084	4.335	2.072	1...	H1-1a
1478	M457	2L3x3x1/4	.605	0	5	.003	0	Y	15	46.518	62.084	4.335	2.072	1...	H1-1a
1479	M476	2L3x3x1/4	.605	22.95	9	.003	22.95	Y	8	46.518	62.084	4.335	2.072	1...	H1-1a
1480	M495	2L3x3x1/4	.585	22.95	7	.003	22.95	Y	15	46.518	62.084	4.335	2.072	1...	H1-1a

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SNET021 NORWALK

Rev A

Company : GPD Group
Designer : awestrum
Job Number : 2012857.08

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc(ft)	LC	Shear	C...	Loc(ft)	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-ft]	Mnzz/om [k-ft]	Cb	Eon
1481	M526	.546	12.6	7	.005	12.6	Y	16	16	55.564	123.09	12.698	5.408	1...	H1-1a
1482	M540	.601	12.6	5	.005	12.6	Y	12	12	55.564	123.09	12.698	5.408	1...	H1-1a
1483	M557	.601	12.6	9	.005	12.6	Y	12	12	55.564	123.09	12.698	5.408	1...	H1-1a
1484	M574	.579	12.6	7	.005	12.6	Y	16	16	55.564	123.09	12.698	5.408	1...	H1-1a
1485	M603	.794	13.725	7	.006	13.725	Y	16	16	47.875	123.09	12.698	5.408	1...	H1-1a
1486	M617	.871	13.725	5	.006	13.725	Y	12	12	47.875	123.09	12.698	5.408	1...	H1-1a
1487	M634	.872	13.725	9	.006	13.725	Y	12	12	47.875	123.09	12.698	5.408	1...	H1-1a
1488	M651	.842	13.725	6	.006	13.725	Y	16	16	17.79	67.473	5.81	2.116	1...	H1-1a
1489	M680	.802	12.375	4	.006	12.375	Y	14	14	17.79	67.473	5.81	2.116	1...	H1-1a
1490	M696	.813	12.375	2	.006	12.375	Y	17	17	17.79	67.473	5.81	2.116	1...	H1-1a
1491	M715	.815	12.375	8	.006	12.375	Y	15	15	17.79	67.473	5.81	2.116	1...	H1-1a
1492	M734	.805	12.375	6	.006	12.375	Y	16	16	15.372	67.473	5.81	2.116	1...	H1-1a
1493	M765	1.023	13.313	4	.006	13.313	Y	12	12	15.372	67.473	5.81	2.116	1...	H1-1a
1494	M781	1.036	13.313	2	.006	13.313	Y	12	12	15.372	67.473	5.81	2.116	1...	H1-1a
1495	M800	1.039	13.313	8	.006	13.313	Y	16	16	15.372	67.473	5.81	2.116	1...	H1-1a
1496	M819	1.027	13.313	6	.006	13.313	Y	16	16	15.372	67.473	5.81	2.116	1...	H1-1a
1497	M850	1.098	14.25	6	.007	14.25	Y	16	16	14.962	72.862	7.494	2.149	1...	H1-1a
1498	M866	1.108	14.25	4	.007	14.25	Y	12	12	14.962	72.862	7.494	2.149	1...	H1-1a
1499	M885	1.112	14.25	2	.007	14.25	Y	12	12	14.962	72.862	7.494	2.149	1...	H1-1a
1500	M904	1.102	14.25	8	.007	14.25	Y	16	16	14.962	72.862	7.494	2.149	1...	H1-1a
1501	M935	.495	30.375	6	.006	0	Y	13	13	42.198	72.862	7.494	2.149	1...	H1-1a
1502	M951	.502	30.375	4	.006	0	Y	11	11	42.198	72.862	7.494	2.149	1...	H1-1a
1503	M970	.496	30.375	2	.006	30.375	Y	13	13	42.198	72.862	7.494	2.149	1...	H1-1a
1504	M989	.497	0	8	.006	30.375	Y	11	11	42.198	72.862	7.494	2.149	1...	H1-1a
1505	M1641A	.068	3.696	14	.001	8.654	Y	12	12	3.853	25.653	.741	1.333	1...	H2-1
1506	M1642A	.067	3.696	12	.001	0	Y	12	12	3.853	25.653	.741	1.333	1...	H2-1
1507	M1643A	.067	3.696	12	.001	8.654	Y	12	12	3.853	25.653	.741	1.333	1...	H2-1
1508	M1644	.068	3.696	18	.001	8.654	Y	9	9	3.853	25.653	.741	1.333	1...	H2-1
1509	M1645	.067	3.696	18	.001	8.654	Y	7	7	3.853	25.653	.741	1.333	1...	H2-1
1510	M1646	.067	3.696	16	.001	8.654	Y	12	12	3.853	25.653	.741	1.333	1...	H2-1
1511	M1647	.067	3.696	16	.001	0	Y	14	14	3.853	25.653	.741	1.333	1...	H2-1
1512	M1648	.067	3.696	14	.001	0	Y	4	4	3.853	25.653	.741	1.333	1...	H2-1
1513	M1350A	.004	0	14	.000	8.381	Y	16	16	7.499	31.042	.447	1.981	1...	H2-1
1514	M1351A	.004	0	16	.000	0	Y	15	15	7.499	31.042	.447	1.981	1...	H2-1
1515	M1356	.004	0	12	.000	8.381	Y	18	18	7.499	31.042	.447	1.981	1...	H2-1
1516	M1357A	.004	0	14	.000	8.381	Y	16	16	7.499	31.042	.447	1.981	1...	H2-1
1517	M1362A	.004	0	18	.000	0	Y	10	10	7.499	31.042	.447	1.981	1...	H2-1
1518	M1363A	.004	0	12	.000	0	Y	2	2	7.499	31.042	.447	1.981	1...	H2-1
1519	M1368A	.004	0	16	.000	8.381	Y	16	16	7.499	31.042	.447	1.981	1...	H2-1
1520	M1369A	.004	0	18	.000	8.381	Y	7	7	7.499	31.042	.447	1.981	1...	H2-1
1521	M683	.135	0	17	.000	8.357	Y	10	10	4.604	25.653	.306	1.302	1	H2-1

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Company : GPD Group
Designer : awestrum
Job Number : 2012857.08 Rev A

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Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Locf1	LC Shear C...	Locf1	Dir	LC	Pnc/om.lk	Pnt/om.lk	Mnyv/om.lk-ftl	Mnz/om.lk-ftl	Cb	Ean	
1522	M684	L2 1/2x2 1/2x1/4	.135	0	13	.000	8.357	Y	10	4.604	25.653	1.302	1	H2-1
1523	M702	L2 1/2x2 1/2x1/4	.135	0	15	.000	8.357	Y	13	4.604	25.653	1.302	1	H2-1
1524	M703	L2 1/2x2 1/2x1/4	.135	0	11	.000	0	Y	18	4.604	25.653	1.302	1	H2-1
1525	M721	L2 1/2x2 1/2x1/4	.135	0	13	.000	0	Y	11	4.604	25.653	1.302	1	H2-1
1526	M722	L2 1/2x2 1/2x1/4	.135	0	18	.000	8.357	Y	10	4.604	25.653	1.302	1	H2-1
1527	M743	L2 1/2x2 1/2x1/4	.135	0	11	.000	8.357	Y	11	4.604	25.653	1.302	1	H2-1
1528	M744	L2 1/2x2 1/2x1/4	.135	0	15	.000	0	Y	10	4.604	25.653	1.302	1	H2-1
1529	M768	L2 1/2x2 1/2x1/4	.151	0	17	.000	0	Y	13	4.604	25.653	1.302	1	H2-1
1530	M769	L2 1/2x2 1/2x1/4	.150	0	13	.000	0	Y	12	4.604	25.653	1.302	1	H2-1
1531	M787	L2 1/2x2 1/2x1/4	.151	0	15	.000	8.357	Y	16	4.604	25.653	1.302	1	H2-1
1532	M788	L2 1/2x2 1/2x1/4	.151	0	11	.000	0	Y	16	4.604	25.653	1.302	1	H2-1
1533	M806	L2 1/2x2 1/2x1/4	.151	0	13	.000	0	Y	15	4.604	25.653	1.302	1	H2-1
1534	M807	L2 1/2x2 1/2x1/4	.151	0	17	.000	0	Y	17	4.604	25.653	1.302	1	H2-1
1535	M828	L2 1/2x2 1/2x1/4	.150	0	11	.000	8.357	Y	10	4.604	25.653	1.302	1	H2-1
1536	M829	L2 1/2x2 1/2x1/4	.151	0	15	.000	8.357	Y	10	4.604	25.653	1.302	1	H2-1
1537	M853	L2 1/2x2 1/2x1/4	.158	0	17	.000	8.357	Y	18	4.604	25.653	1.302	1	H2-1
1538	M854	L2 1/2x2 1/2x1/4	.158	0	13	.000	0	Y	16	4.604	25.653	1.302	1	H2-1
1539	M872	L2 1/2x2 1/2x1/4	.159	0	15	.000	8.357	Y	12	4.604	25.653	1.302	1	H2-1
1540	M873	L2 1/2x2 1/2x1/4	.159	0	11	.000	0	Y	13	4.604	25.653	1.302	1	H2-1
1541	M891	L2 1/2x2 1/2x1/4	.159	0	13	.000	8.357	Y	11	4.604	25.653	1.302	1	H2-1
1542	M892	L2 1/2x2 1/2x1/4	.159	0	17	.000	0	Y	13	4.604	25.653	1.302	1	H2-1
1543	M913	L2 1/2x2 1/2x1/4	.158	0	11	.000	0	Y	12	4.604	25.653	1.302	1	H2-1
1544	M914	L2 1/2x2 1/2x1/4	.158	0	15	.000	0	Y	15	4.604	25.653	1.302	1	H2-1
1545	M938	L2 1/2x2 1/2x1/4	.272	0	17	.000	8.357	Y	18	4.604	25.653	1.302	1	H2-1
1546	M939	L2 1/2x2 1/2x1/4	.271	0	13	.000	0	Y	17	4.604	25.653	1.302	1	H2-1
1547	M957	L2 1/2x2 1/2x1/4	.273	0	15	.000	0	Y	10	4.604	25.653	1.302	1	H2-1
1548	M958	L2 1/2x2 1/2x1/4	.271	0	11	.000	8.357	Y	15	4.604	25.653	1.302	1	H2-1
1549	M976	L2 1/2x2 1/2x1/4	.272	0	13	.000	0	Y	16	4.604	25.653	1.302	1	H2-1
1550	M977	L2 1/2x2 1/2x1/4	.272	0	18	.000	8.357	Y	18	4.604	25.653	1.302	1	H2-1
1551	M998	L2 1/2x2 1/2x1/4	.271	0	11	.000	8.357	Y	10	4.604	25.653	1.302	1	H2-1
1552	M999	L2 1/2x2 1/2x1/4	.272	0	15	.000	8.357	Y	17	4.604	25.653	1.302	1	H2-1

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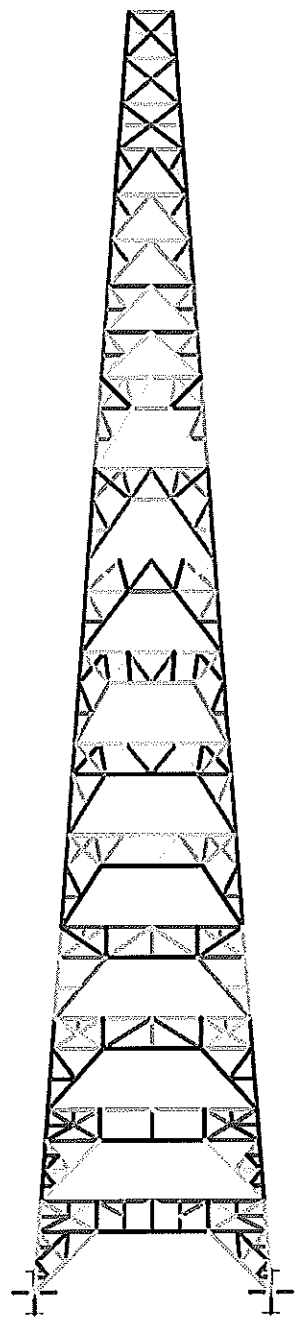
ASD Bolt Checks

V_r/Ω (3/4" A307 - Assumed) # Anchor Rods = 6 2.5" C1015
 4.42 kips/bolt Max Load = 414.7 kips
 V_r/Ω (3/4" A225 - Modifications) 9.28 kips/bolt
 V_r/Ω (7/8" A307 - Assumed) 6.01 kips/bolt
 Anchor Rods T_r/Ω = 93.95 kips/rod
 % Capacity = 55.2%

Section	Leg Bolts	Shear Planes	T _r /Ω	T _r /Ω	T _r /Ω	% Capacity	Diagonal Bolts	A325?	Shear Planes	T _r /Ω	T _r /Ω	% Capacity	Horizontal Bolts	Shear Planes	T _r /Ω	T _r /Ω	% Capacity
T16	(40) .875in	(2)	480.8	508.0	79.2%	(5)	.75in	Yes	(2)	92.8	61.2	49.5%	(5)	(2)	44.2	58.0	98.4%
T15	(36) .875in	(2)	432.72	454.4	78.8%	(5)	.75in	Yes	(2)	92.8	59.0	47.7%	(5)	(2)	44.2	55.3	93.8%
T14	(36) .875in	(2)	432.72	404.3	70.1%	(5)	.75in	-	(2)	44.2	55.6	94.3%	(5)	(2)	44.2	51.6	87.6%
T13	(32) .875in	(2)	384.64	354.1	69.0%	(5)	.75in	-	(2)	44.2	52.8	89.6%	(5)	(2)	44.2	48.7	82.6%
T12	(28) .875in	(2)	336.56	283.7	63.2%	(5)	.75in	Yes	(2)	92.8	59.0	47.7%	(5)	(2)	44.2	53.1	90.1%
T11	(28) .875in	(2)	336.56	242.9	54.1%	(5)	.75in	-	(2)	44.2	53.0	89.9%	(4)	(2)	35.36	44.1	93.5%
T10	(32) .75in	(2)	282.88	200.0	53.0%	(4)	.75in	Yes	(2)	74.24	50.6	51.1%	(4)	(2)	35.36	36.5	77.4%
T9	(32) .75in	(2)	282.88	182.5	48.4%	(3)	.75in	-	(2)	26.52	34.3	97.0%	(3)	(2)	26.52	21.1	59.7%
T8	(28) .75in	(2)	247.52	143.2	43.4%	(3)	.75in	-	(2)	26.52	30.1	85.1%	(3)	(2)	26.52	17.4	49.2%
T7	(24) .75in	(2)	212.16	106.5	37.6%	(2)	.75in	-	(2)	17.68	25.8	73.0%	(3)	(2)	26.52	13.4	37.9%
T6	(24) .75in	(2)	212.16	95.2	33.7%	(2)	.75in	-	(2)	17.68	14.5	61.5%	(3)	(2)	26.52	10.4	29.4%
T5	(20) .75in	(2)	176.8	64.9	27.5%	(2)	.75in	-	(2)	17.68	11.9	50.5%	(3)	(2)	26.52	8.0	22.6%
T4	(16) .75in	(2)	141.44	37.6	19.9%	(5)	.75in	-	(2)	22.1	7.3	42.4%	(3)	(2)	26.52	5.7	16.1%
T3						(5)	.75in	-	(1)	22.1	6.6	22.4%	(4)	(1)	17.68	1.3	3.7%
T2						(5)	.75in	-	(1)	22.1	2.6	8.8%	(4)	(1)	17.68	1.0	4.2%
T1						(5)	.75in	-	(1)	22.1	2.6	8.8%	(4)	(1)	17.68	0.1	0.4%

APPENDIX C

Tower Elevation Drawing



Section Sets

- TWR_LEG_T1
- TWR_HTOP_GIRT_T1
- TWR_DIAG_T1
- TWR_HSTEP_T1
- TWR_LEG_T2
- TWR_HORZ_T2
- TWR_DIAG_T2
- TWR_HSTEP_T2
- TWR_LEG_T3
- TWR_HORZ_T3
- TWR_INNER_SUPP_T3
- TWR_INNER_CORNER1_T3
- TWR_INNER_DIAMOND_T3
- TWR_DIAG_T3
- TWR_HSTEP_T3
- TWR_LEG_T4
- TWR_HORZ_T4
- TWR_DIAG_T4
- TWR_RED_HORZ_T4
- TWR_RED_DIAG_T4
- TWR_INNER_SUPP_T4
- TWR_INNER_CORNER1_T4
- TWR_INNER_DIAMOND_T4
- TWR_LEG_T5
- TWR_HORZ_T5
- TWR_DIAG_T5
- TWR_RED_HORZ_T5
- TWR_RED_DIAG_T5
- TWR_INNER_SUPP_T5
- TWR_INNER_CORNER1_T5
- TWR_INNER_DIAMOND_T5
- TWR_LEG_T6
- TWR_HORZ_T6
- TWR_DIAG_T6
- TWR_RED_HORZ_T6
- TWR_RED_DIAG_T6
- TWR_INNER_SUPP_T6
- TWR_INNER_CORNER1_T6
- TWR_INNER_DIAMOND_T6
- TWR_LEG_T7
- TWR_HORZ_T7
- TWR_DIAG_T7
- TWR_RED_HORZ_T7
- TWR_RED_HORZ_2_T7
- TWR_RED_DIAG_T7
- TWR_RED_DIAG_2_T7
- TWR_RED_SUBHOR_T7
- TWR_RED_HIP_2_T7
- TWR_RED_HIPDIA_T7
- TWR_INNER_SUPP_T7
- TWR_INNER_CORNER1_T7
- TWR_INNER_MIDGIRT_T7
- TWR_INNER_DIAMOND_T7
- TWR_LEG_T8
- TWR_HORZ_T8
- TWR_RED_HORZ_T8
- TWR_RED_HORZ_2_T8
- TWR_RED_DIAG_T8
- TWR_RED_DIAG_2_T8
- TWR_RED_SUBHOR_T8
- TWR_RED_HIP_2_T8
- TWR_RED_HIPDIA_T8
- TWR_INNER_SUPP_T8
- TWR_INNER_CORNER1_T8
- TWR_INNER_MIDGIRT_T8
- TWR_INNER_DIAMOND_T8
- TWR_LEG_T9
- TWR_HORZ_T9
- TWR_RED_HORZ_T9
- TWR_RED_HORZ_2_T9
- TWR_RED_DIAG_T9
- TWR_RED_DIAG_2_T9
- TWR_RED_SUBHOR_T9
- TWR_RED_HIP_2_T9
- TWR_RED_HIPDIA_T9
- TWR_INNER_SUPP_T9
- TWR_INNER_CORNER1_T9
- TWR_INNER_MIDGIRT_T9
- TWR_INNER_DIAMOND_T9
- TWR_LEG_T10
- TWR_HORZ_T10
- TWR_RED_HORZ_T10
- TWR_RED_HORZ_2_T10
- TWR_RED_DIAG_T10
- TWR_RED_DIAG_2_T10
- TWR_RED_SUBHOR_T10
- TWR_RED_SUBDIA_T10
- TWR_RED_SUBDIA2_T10
- TWR_RED_HIP_2_T10
- TWR_RED_HIP_3_T10
- TWR_RED_HIPDIA_T10
- TWR_INNER_SUPP_T10
- TWR_INNER_CORNER1_T10
- TWR_INNER_LACE_T10
- TWR_LEG_T11
- TWR_HORZ_T11
- TWR_DIAG_T11
- TWR_RED_HORZ_T11
- TWR_RED_HORZ_2_T11

More...

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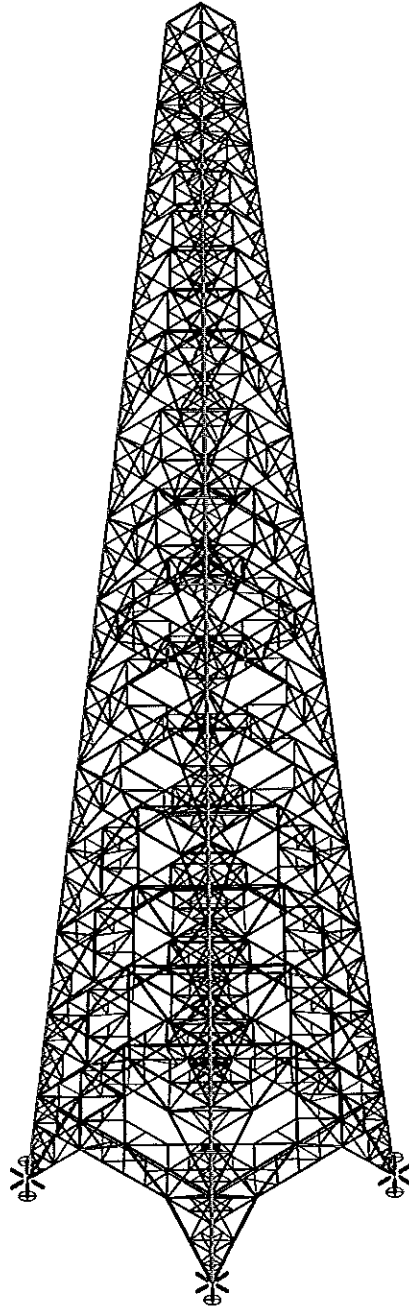
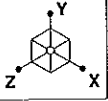
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2012857.08 Rev A

SNET021 NORWALK

SK - 1

Oct 8, 2012 at 8:19 PM

SNET021.r3d



Solution: Envelope

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SNET021 NORWALK

SK - 2

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APPENDIX D

Foundation Analysis



Mat Foundation Analysis
SNET021 NORWALK
 2012857.08 Rev A

General Info	
Code	TIA/EIA-222-F (ASD)
Bearing On	Soil
Foundation Type	Mono Pad
Pier Type	Square
Reinforcing Known	No
Max Capacity	1

Tower Reactions	
Moment, M	0 k-ft
Axial, P	581.9 k
Shear, V	113 k

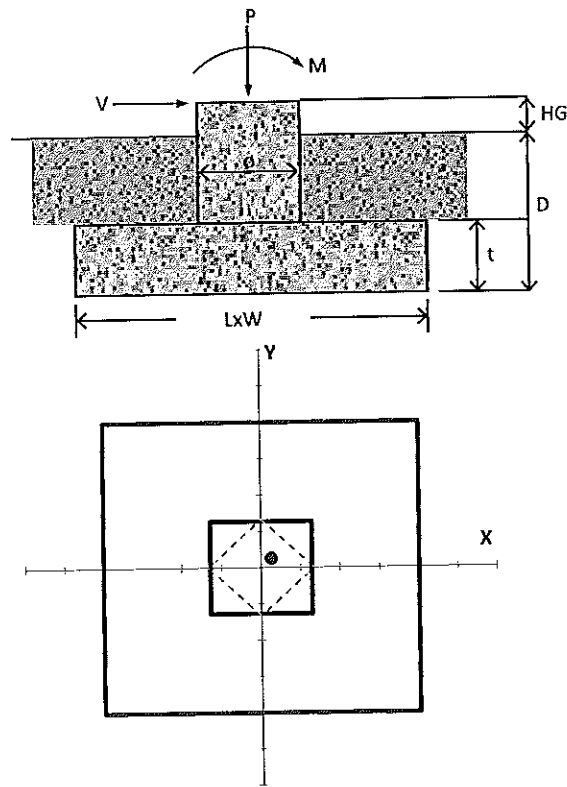
Pad & Pier Geometry	
Pier Width, ϕ	6.375 ft
Pad Length, L	20 ft
Pad Width, W	20 ft
Pad Thickness, t	3 ft
Depth, D	14 ft
Height Above Grade, HG	1 ft

Pad & Pier Reinforcing	
Rebar Fy	ksi
Concrete Fc'	ksi
Clear Cover	in
Reinforced Top & Bottom?	
Pad Reinforcing Size	
Pad Quantity Per Layer	
Pier Rebar Size	
Pier Quantity of Rebar	

Soil Properties	
Soil Type	Granular
Soil Unit Weight	123 pcf
Angle of Friction, ϕ	34 °
Bearing Type	Net
Ultimate Bearing	12 ksf
Water Table Depth	999 ft
Frost Depth	3.33 ft

Bearing Summary			Load Case
Qxmax	3.30	ksf	1D+1W
Qymax	3.30	ksf	1D+1W
Qmax @ 45°	4.57	ksf	1D+1W
Q _{(all) Gross}	6.86	ksf	
Controlling Capacity	66.7%	Pass	

Overturning Summary (Required FS=1.5)			Load Case
FS(ot)x	132126.64	≥1.5	1D+1W
FS(ot)y	132126.64	≥1.5	1D+1W
Controlling Capacity	0.0%	Pass	



520 South Main Street • Suite 2531 • Akron, Ohio 44311 • PHONE 330-572-2100 • FAX 330-572-2101



GPD GROUP

Engineers • Architects • Planners

Job 2012857.08 Rev A

Calculated By AW Date 10/8/12

Sheet No 1 Of 1

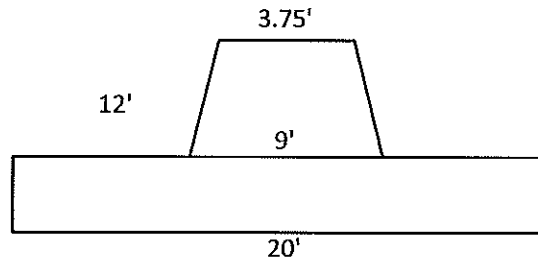
Checked By _____ Date _____

Pad and Pier Uplift

Wc
221.9 kips

Ws
798.4 kips

3'



$Wc/1.25 + Ws/2.0 = 576.7$ kips

$Wc/1.5 + Ws/1.5 = 680.2$ kips

Max Uplift = 414.7 kips

Rating = 71.9% OK



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

Sprint Existing Facility

Site ID: CT03XC377

SNET Norwalk
10 Willard Road
Norwalk, CT 06851

November 14, 2012



November 14, 2012

Sprint
Attn: RF Engineering Manager
1 International Boulevard, Suite 800
Mahwah, NJ 07495

Re: Emissions Values for Site CT03XC377 – SNET Norwalk

EBI Consulting was directed to analyze the proposed upgrades to the existing Sprint facility located at 10 Willard Road, Monroe, CT, for the purpose of determining whether the emissions from the proposed Sprint equipment upgrades on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

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

General population/uncontrolled exposure limits apply to situations in which the general 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 cellular band is approximately $567 \mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS band 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 and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed upgrades to the existing Sprint Wireless antenna facility located at 10 Willard Road, Monroe, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario. Actual values seen from this site will be dramatically less than those shown in this report. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all emissions were calculated using the following assumptions:

- 1) 4 CDMA Carriers (1900 MHz) were considered for each sector of the proposed installation.
- 2) 1 CDMA Carrier (850 MHz) was considered for each sector of the proposed installation
- 3) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 4) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
- 5) The antenna used in this modeling is the RFS APXVSP18-C-A20. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.9 dBd gain value at its main lobe at 1900 MHz and 13.4 dBd at its main lobe for 850 MHz. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario.



- 6) The antenna mounting height centerline of the proposed antennas is **244 feet** above ground level (AGL)
- 7) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculation were done with respect to uncontrolled / general public threshold limits

Site ID: CT03XC377 - SNET Norwalk Site Address: 10 Willard Road, Norwalk, CT 06851 Site Type: Self Support Tower																	
Sector 1																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain In direction of sample point (dBi)	Antenna Height (ft)	Antenna analysis height (ft)	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	RFS	APXSPP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	4	80	15.9	244	238	1/2"	0.5	0	2773.8948	17.60524	1.76052%
1a	RFS	APXSPP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	13.4	244	238	1/2"	0.5	0	389.96892	2.475039	0.43651%
												Sector total Power Density Value: 2.197%					
Sector 2																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain In direction of sample point (dBi)	Antenna Height (ft)	Antenna analysis height (ft)	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
2a	RFS	APXSPP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	4	80	15.9	244	238	1/2"	0.5	0	2773.8948	17.60524	1.76052%
2a	RFS	APXSPP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	13.4	244	238	1/2"	0.5	0	389.96892	2.475039	0.43651%
												Sector total Power Density Value: 2.197%					
Sector 3																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain In direction of sample point (dBi)	Antenna Height (ft)	Antenna analysis height (ft)	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
3a	RFS	APXSPP18-C-A20	RRH	1900 MHz	CDMA / LTE	20	4	80	15.9	244	238	1/2"	0.5	0	2773.8948	17.60524	1.76052%
3a	RFS	APXSPP18-C-A20	RRH	850 MHz	CDMA / LTE	20	1	20	13.4	244	238	1/2"	0.5	0	389.96892	2.475039	0.43651%
												Sector total Power Density Value: 2.197%					

Site Composite MPE %	
Carrier	MPE %
Sprint	6.591%
PageNet	0.530%
SNET TMRS	0.640%
SKYTEL	1.130%
RAM Mobile	0.100%
PageNet 900	9.670%
Clenwire	0.550%
T-Mobile	0.970%
AT&T	2.560%
Media FLO	3.870%
XM	0.210%
American Mobile	0.090%
GNARC	0.260%
WSHU - AM	1.000%
Metro PCS	4.190%
Total Site MPE %	37.361%



Summary

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

The anticipated Maximum Composite contributions from the Sprint facility are **6.591%** (**2.197% from each sector**) of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **32.361%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government

A handwritten signature in black ink, appearing to read "Scott Heffernan", with a long horizontal line extending to the right.

Scott Heffernan
RF Engineering Director

EBI Consulting
21 B Street
Burlington, MA 01803



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

SPRINT Existing Facility

Site ID: CT03XC377

SNET
10 Willard Road
Norwalk, CT 06851

May 23, 2018

EBI Project Number: 6218004010

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	8.98 %



May 23, 2018

SPRINT

Attn: RF Engineering Manager
1 International Boulevard, Suite 800
Mahwah, NJ 07495

Emissions Analysis for Site: **CT03XC377 – SNET**

EBI Consulting was directed to analyze the proposed SPRINT facility located at **10 Willard Road, Norwalk, CT**, for the purpose of determining whether the emissions from the Proposed SPRINT Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

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

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

General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 850 MHz Band is approximately $567 \mu\text{W}/\text{cm}^2$. The general population exposure limit for the 1900 MHz (PCS) and 2500 MHz (BRS) 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 and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed SPRINT Wireless antenna facility located at **10 Willard Road, Norwalk, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since SPRINT is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

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

- 1) 1 CDMA channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 2) 2 LTE channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 3) 5 CDMA channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 16 Watts per Channel.
- 4) 2 LTE channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 8 LTE channels (2500 MHz (BRS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.



- 6) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 7) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antennas used in this modeling are the **RFS APXVSP18-C-A20 and the Nokia AAHC** for transmission in the 850 MHz, 1900 MHz (PCS) and 2500 MHz (BRS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antenna mounting height centerlines of the proposed antennas are **244 feet** above ground level (AGL) for **Sector A**, **244 feet** above ground level (AGL) for **Sector B** and **244 feet** above ground level (AGL) for Sector C.
- 10) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

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



SPRINT Site Inventory and Power Data by Antenna

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APXVSP18-C-A20	Make / Model:	RFS APXVSP18-C-A20	Make / Model:	RFS APXVSP18-C-A20
Gain:	13.4 / 15.9 dBd	Gain:	13.4 / 15.9 dBd	Gain:	13.4 / 15.9 dBd
Height (AGL):	244 feet	Height (AGL):	244 feet	Height (AGL):	244 feet
Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)
Channel Count	10	Channel Count	10	Channel Count	10
Total TX Power(W):	220 Watts	Total TX Power(W):	220 Watts	Total TX Power(W):	220 Watts
ERP (W):	7,537.38	ERP (W):	7,537.38	ERP (W):	7,537.38
Antenna A1 MPE%	0.55 %	Antenna B1 MPE%	0.55 %	Antenna C1 MPE%	0.55 %
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Nokia AAHC	Make / Model:	Nokia AAHC	Make / Model:	Nokia AAHC
Gain:	15.05 dBd	Gain:	15.05 dBd	Gain:	15.05 dBd
Height (AGL):	244 feet	Height (AGL):	244 feet	Height (AGL):	244 feet
Frequency Bands	2500 MHz (BRS)	Frequency Bands	2500 MHz (BRS)	Frequency Bands	2500 MHz (BRS)
Channel Count	8	Channel Count	8	Channel Count	8
Total TX Power(W):	160 Watts	Total TX Power(W):	160 Watts	Total TX Power(W):	160 Watts
ERP (W):	5,118.23	ERP (W):	5,118.23	ERP (W):	5,118.23
Antenna A2 MPE%	0.32 %	Antenna B2 MPE%	0.32 %	Antenna C2 MPE%	0.32 %

Site Composite MPE%	
Carrier	MPE%
SPRINT – Max per sector	0.87 %
PageNet	0.05 %
SNET TMRS	0.06 %
SkyTel	0.11 %
RAM Mobile Data	0.01 %
PageNet 900 MHz	0.97 %
Clearwire	0.06 %
T-Mobile	0.93 %
AT&T	0.57 %
MediaFLO	3.87 %
XM Sat Radio	0.02 %
American Mobile Com.	0.01 %
GNARC	0.01 %
WSHU-AM	1.00 %
MetroPCS	0.44 %
Site Total MPE %:	8.98 %

SPRINT Sector A Total:	0.87 %
SPRINT Sector B Total:	0.87 %
SPRINT Sector C Total:	0.87 %
Site Total:	8.98 %

SPRINT _ Frequency Band / Technology (All Sectors)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
Sprint 850 MHz CDMA	1	437.55	244	0.28	850 MHz	567	0.05%
Sprint 850 MHz LTE	2	437.55	244	0.56	850 MHz	567	0.10%
Sprint 1900 MHz (PCS) CDMA	5	622.47	244	1.98	1900 MHz (PCS)	1000	0.20%
Sprint 1900 MHz (PCS) LTE	2	1,556.18	244	1.98	1900 MHz (PCS)	1000	0.20%
Sprint 2500 MHz (BRS) LTE	8	639.78	244	3.25	2500 MHz (BRS)	1000	0.32%
Total:						567	0.87%



Summary

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

The anticipated maximum composite contributions from the SPRINT facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

SPRINT Sector	Power Density Value (%)
Sector A:	0.87 %
Sector B:	0.87 %
Sector C:	0.87 %
SPRINT Maximum Total (per sector):	0.87 %
Site Total:	8.98 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **8.98 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

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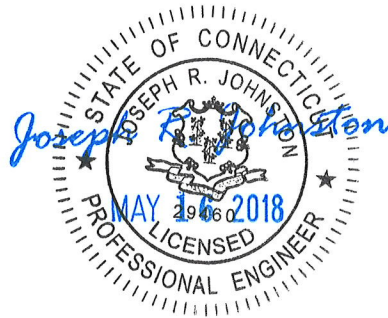
1033 WATERVLiet SHAKER RD, ALBANY, NY 12205

Structural Analysis Report

May 16, 2018

Site Name	CT03XC377
Infinigy Job Number	526-102
Client	Cherundolo Consulting
Proposed Carrier	Sprint
Site Location	10 Willard Road Norwalk, CT 06851 41.128269 N NAD83 73.39017 W NAD83
Structure Type	350' Tag Tower
Structural Usage Ratio	96.3%
Overall Result	Pass

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements. The tower and foundations are therefore deemed adequate to support the existing and proposed loading as listed in this report.



Brenden Archer
Structural Engineer I

AZ CA CO FL GA MD NC NH NJ NY TX WA

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Calculations.....	Appended

Introduction

Infinigy Engineering has been requested to perform a structural analysis on the existing 350' Tag Tower. All supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The tower was analyzed using tnxTower version 8.0.1.0 tower analysis software.

Supporting Documentation

Proposed Loading	RFDS Sprint ID 45781, dated April 11, 2017
Previous Analysis	GPD Group Job #2012857.08, dated August 15, 2012
Tower Mapping	Infinigy Job# 526-102 Mapping Report, dated December 15, 2017
Construction Drawings	Infinigy Job #526-102, dated January 22, 2017

Analysis Code Requirements

Wind Speed	90 mph (3-Second Gust, V_{ASD}) / 115 mph (3-Second Gust, V_{ULT})
Wind Speed w/ ice	50 mph (3-Second Gust) w/ 3/4" ice
TIA Revision	ANSI/TIA-222-G
Adopted IBC	2015 IBC
Structure Class	II
Exposure Category	B
Topographic Category	1
Calculated Crest Height	0 ft.

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements. The tower and foundations are therefore deemed adequate to support the existing and proposed loading as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

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Existing and Reserved Loading

Mount Height (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Carrier
355.0	3	Omni 10'x3"	Platform	(1) 5/8"	--
	1	Light 18"x10"		(1) 1 5/8" (1) 1/2"	
350.0	1	Omni 20'x3"	Platform	(1) 1 1/2"	--
	3	Omni 10'x3"		(3) 7/8"	
	1	Dipole 10'x2"		(1) 2 1/4"	
	1	Dipole 20'x3"		(1) 1 5/8"	
	1	Omni 8"x2.5"		(1) 7/8"	
	3	Panels 20"x38"x3"			
336.8	6	Powerwave RA21.7770.00	Sector Frames	(1) 1/2"	AT&T
	6	Ericsson 19.5"x17"x17"		(12) 1 5/8"	
	3	KMW AM-X-CD-16-55-00T-RET		(1) 1/2"	
	12	Powerwave 14.5"x9"x2.75"		(1) 1"	
	1	Yagi 42"x37.5"			
	3	Strikesorb 10"x10"x6"			
265.2	6	Kahrein 81010022R2A	Sector Frames	(1) 1 1/4"	--
	3	Ericsson 6"x3"x3"		(13) 1 5/8" (3) 3/4"	
244.0	3	RFS APXVSP-18	Sector Frames	(3) 1 1/4"	Sprint
	3	Alcatel Lucent RRH 800 MHz 2x50W		(1) 1/2"	
	3	Alcatel Lucent RRH 1900 MHz			
210.0	1	Yagi 3'x6'	Pipe Mount	(1) 1/2"	--
48.1	1	4'x4' Dish	Direct Mount	(2) 1/2"	--
31.2	1	2'x2' Dish	Direct Mount	(1) 1"	--

Proposed Loading

Mount Height (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Carrier
244.0	3	Nokia AAHC	--	(1)	--
	3	Alcatel Lucent RRH 800 MHz 2x50W		Hybrid	

Final Configuration

Mount Height (ft)	Qty.	Appurtenance	Mount Type	Coax & Lines	Carrier
355.0	3	Omni 10'x3"	Platform	(1) 5/8"	--
	1	Light 18"x10"		(1) 1 5/8" (1) 1/2"	
350.0	1	Omni 20'x3"	Platform	(1) 1 1/2"	--
	3	Omni 10'x3"		(3) 7/8"	
	1	Dipole 10'x2"		(1) 2 1/4"	
	1	Dipole 20'x3"		(1) 1 5/8"	
	1	Omni 8"x2.5"		(1) 7/8"	
	3	Panels 20"x38"x3"			
336.8	6	Powerwave RA21.7770.00	Sector Frames	(1) 1/2" (12) 1 5/8" (1) 1/2" (1) 1"	AT&T
	6	Ericsson 19.5"x17"x17"			
	3	KMW AM-X-CD-16-55-00T-RET			
	12	Powerwave 14.5"x9"x2.75"			
	1	Yagi 42"x37.5"			
	3	Strikesorb 10"x10"x6"			
265.2	6	Kahrein 81010022R2A	Sector Frames	(1) 1 1/4" (13) 1 5/8" (3) 3/4"	--
	3	Ericsson 6"x3"x3"			
244.0	3	RFS APXVSP-18	Sector Frames	(3) 1 1/4" (1) 1/2" (1) Hybrid	Sprint
	3	Nokia AAHC			
	3	Alcatel Lucent RRH 1900 MHz			
	6	Alcatel Lucent RRH 800 MHz 2x50W			
210.0	1	Yagi 3'x6'	Pipe Mount	(1) 1/2"	--
48.1	1	4'x4' Dish	Direct Mount	(2) 1/2"	--
31.2	1	2'x2' Dish	Direct Mount	(1) 1"	--

Structure Usages

Leg (T18)	96.3	Pass
Diagonal (T2)	77.3	Pass
Horizontal (T11)	80.4	Pass
Secondary Horizontal (T3)	1.4	Pass
Top Girt (T3)	13.2	Pass
Redund Horz 1 Bracing (T9)	12.7	Pass
Redund Horz 2 Bracing (T11)	44.4	Pass
Redund Horz 3 Bracing (T14)	5.2	Pass
Redund Diag 1 Bracing (T10)	37.0	Pass
Redund Diag 2 Bracing (T11)	39.2	Pass
Redund Diag 3 Bracing (T14)	36.8	Pass
Redund Hip 1 Bracing (T18)	0.7	Pass
Redund Hip 2 Bracing (T18)	22.1	Pass
Redund Hip 3 Bracing (T14)	6.4	Pass
Redund Hip Diagonal 1 Bracing (T17)	0.8	Pass
Redund Hip Diagonal 2 Bracing (T14)	0.7	Pass
Redund Sub Horz Bracing (T18)	30.0	Pass
Redund Sub Diagonal Bracing (T12)	40.3	Pass
Redund Vert Bracing (T17)	2.4	Pass
Inner Bracing (T18)	3.6	Pass
Bolt Checks	31.1	Pass
RATING =	96.3	Pass

Foundation Reactions

Reaction Data	Analysis Reactions	Result
Base Compression (kip)	388.2	10.8%
Base Shear (kip)	74.4	23.3%
Base Uplift (kip-ft)	300.1	27.8%

Tower base reactions are acceptable per rigorous structural analysis.

Deflection, Twist, and Sway

Antenna Elevation (ft)	Deflection (in)	Twist (°)	Sway (°)
244.0	1.546	0.010	0.033

*Per ANSI/TIA-222-G Section 2.8.2 maximum serviceability structural deflection limit is 3% of structure height.

*Per ANSI/TIA-222-G Section 2.8.2 maximum serviceability structural twist and sway limit is 4 degrees.

*Per ANSI/TIA-222-G Section 2.8.3 deflection, Twist, and sway values were calculated using a basic 3-second gust wind speed of 60 mph.

*It is the responsibility of the client to ensure their proposed and/or existing equipment will meet ANSI/TIA-222-G Annex D or other appropriate microwave signal degradation limits based on the provided values above.

Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” 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 Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the tower structure only and does not reflect adequacy of any existing antenna mounts, mount connections, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.

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Tower Input Data

The main tower is a 4x free standing tower with an overall height of 350.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 12.50 ft at the top and 65.00 ft at the base.

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

The following design criteria apply:

Tower is located in Fairfield County, Connecticut.

Basic wind speed of 93 mph.

Structure Class II.

Exposure Category B.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

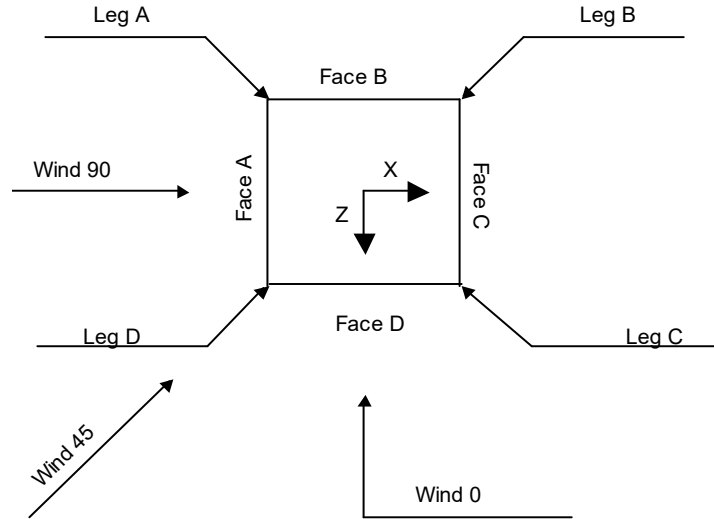
Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component √ Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption <li style="background-color: #e0e0e0;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|--|--|

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Square Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	350.00-336.83			12.50	1	13.17
T2	336.83-325.00			14.47	1	11.83
T3	325.00-312.50			16.25	1	12.50
T4	312.50-300.00			18.13	1	12.50
T5	300.00-287.50			20.00	1	12.50
T6	287.50-275.00			21.88	1	12.50
T7	275.00-262.50			23.75	1	12.50
T8	262.50-250.00			25.63	1	12.50
T9	250.00-225.00			27.50	1	25.00
T10	225.00-200.00			31.25	1	25.00
T11	200.00-175.00			35.00	1	25.00
T12	175.00-150.00			38.75	1	25.00
T13	150.00-125.00			42.50	1	25.00
T14	125.00-100.00			46.25	1	25.00
T15	100.00-75.00			50.00	1	25.00
T16	75.00-50.00			53.75	1	25.00
T17	50.00-25.00			57.50	1	25.00
T18	25.00-0.00			61.25	1	25.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	350.00-336.83	13.17	X Brace	No	Yes	0.0000	0.0000

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">Infinigy Engineering PLLC 1033 Watervliet Shaker Rd. Albany, NY Phone: (518) 690-0790 FAX: (518) 690-0790</p>	<p>Job</p> <p style="text-align: center;">CT03XC377</p>	<p>Page</p> <p style="text-align: center;">3 of 58</p>
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	<p>Client</p> <p style="text-align: center;">Cherundolo Consulting / Sprint</p>	<p>Designed by</p> <p style="text-align: center;">BArcher</p>

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T2	336.83-325.00	11.83	X Brace	No	Yes	0.0000	0.0000
T3	325.00-312.50	12.50	X Brace	No	Yes	0.0000	0.0000
T4	312.50-300.00	12.50	K1 Down	No	Yes	0.0000	0.0000
T5	300.00-287.50	12.50	K1 Down	No	Yes	0.0000	0.0000
T6	287.50-275.00	12.50	K1 Down	No	Yes	0.0000	0.0000
T7	275.00-262.50	12.50	K1 Down	No	Yes	0.0000	0.0000
T8	262.50-250.00	12.50	K1 Down	No	Yes	0.0000	0.0000
T9	250.00-225.00	25.00	K2 Down	No	Yes	0.0000	0.0000
T10	225.00-200.00	25.00	K2 Down	No	Yes	0.0000	0.0000
T11	200.00-175.00	25.00	K2 Down	No	Yes	0.0000	0.0000
T12	175.00-150.00	25.00	Portal	No	Yes	0.0000	0.0000
T13	150.00-125.00	25.00	Portal	No	Yes	0.0000	0.0000
T14	125.00-100.00	25.00	Portal	No	Yes	0.0000	0.0000
T15	100.00-75.00	25.00	Cranked K	No	Yes	0.0000	0.0000
T16	75.00-50.00	25.00	Cranked K	No	Yes	0.0000	0.0000
T17	50.00-25.00	25.00	Cranked K	No	Yes	0.0000	0.0000
T18	25.00-0.00	25.00	Cranked K	No	Yes	0.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 350.00-336.83	Equal Angle	L6x6x5/8	A7-33 (33 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T2 336.83-325.00	Equal Angle	L6x6x5/8	A7-33 (33 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T3 325.00-312.50	Equal Angle	L6x6x7/8	A7-33 (33 ksi)	Equal Angle	L3 1/2x3 1/2x5/16	A36 (36 ksi)
T4 312.50-300.00	Equal Angle	L6x6x7/8	A7-33 (33 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T5 300.00-287.50	Equal Angle	L6x6x7/8	A7-33 (33 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T6 287.50-275.00	Equal Angle	L6x6x7/8	A7-33 (33 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T7 275.00-262.50	Equal Angle	L8x8x3/4	A7-33 (33 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T8 262.50-250.00	Equal Angle	L8x8x3/4	A7-33 (33 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T9 250.00-225.00	Equal Angle	L8x8x7/8	A7-33 (33 ksi)	Double Angle	2L2 1/2x3x5/16x3/8	A36 (36 ksi)
T10 225.00-200.00	Equal Angle	L8x8x1	A7-33 (33 ksi)	Double Angle	2L2 1/2x3x5/16x3/8	A36 (36 ksi)
T11 200.00-175.00	Equal Angle	L8x8x1 1/8	A7-33 (33 ksi)	Double Angle	2L2 1/2x3 1/2x5/16x3/8	A36 (36 ksi)
T12 175.00-150.00	Equal Angle	L8x8x1 1/8	A7-33 (33 ksi)	Double Angle	2L3x3 1/2x5/16x3/8	A36 (36 ksi)
T13 150.00-125.00	Equal Angle	L8x8x1 1/8	A7-33 (33 ksi)	Double Angle	2L3x3 1/2x3/8x3/8	A36 (36 ksi)
T14 125.00-100.00	Equal Angle	L8x8x1	A7-33 (33 ksi)	Double Angle	2L3x3 1/2x3/8x3/8	A36 (36 ksi)
T15 100.00-75.00	Equal Angle	L8x8x1	A7-33 (33 ksi)	Double Angle	2L3x3 1/2x3/8x3/8	A36 (36 ksi)
T16 75.00-50.00	Equal Angle	L8x8x1	A7-33 (33 ksi)	Double Angle	2L4x3x3/8x3/8	A36 (36 ksi)
T17 50.00-25.00	Equal Angle	L8x8x1	A7-33 (33 ksi)	Double Angle	2L3x4x3/8x3/8	A36 (36 ksi)

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Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T18 25.00-0.00	Equal Angle	L8x8x1	A7-33 (33 ksi)	Double Angle	2L4x6x3/8x3/8	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 350.00-336.83	Double Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Flat Bar		A36 (36 ksi)
T2 336.83-325.00	Double Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Flat Bar		A36 (36 ksi)
T3 325.00-312.50	Double Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Flat Bar		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T4 312.50-300.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L3x2 1/2x1/4x3/8	A36 (36 ksi)
T5 300.00-287.50	None	Flat Bar		A36 (36 ksi)	Double Angle	2L3x2 1/2x1/4x3/8	A36 (36 ksi)
T6 287.50-275.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T7 275.00-262.50	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T8 262.50-250.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T9 250.00-225.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L3x2 1/2x1/4x3/8	A36 (36 ksi)
T10 225.00-200.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L3x2 1/2x1/4x3/8	A36 (36 ksi)
T11 200.00-175.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L3 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T12 175.00-150.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L3 1/2x2 1/2x5/16x3/8	A36 (36 ksi)
T13 150.00-125.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L3 1/2x3x5/16x3/8	A36 (36 ksi)
T14 125.00-100.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L4x3 1/2x5/16x3/8	A36 (36 ksi)
T15 100.00-75.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L3 1/2x3x5/16x3/8	A36 (36 ksi)
T16 75.00-50.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L4x3x5/16x3/8	A36 (36 ksi)
T17 50.00-25.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L5x3 1/2x3/8x3/8	A36 (36 ksi)
T18 25.00-0.00	None	Flat Bar		A36 (36 ksi)	Double Angle	2L5x3 1/2x3/8x3/8	A36 (36 ksi)

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Tower Section Geometry (cont'd)

Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
<i>ft</i>						
T1 350.00-336.83	Single Angle	L3x3x1/4	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T2 336.83-325.00	Single Angle	L3x2 1/2x1/4	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T3 325.00-312.50	Single Angle	L3x2 1/2x1/4	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T12 175.00-150.00	Solid Round		A572-50 (50 ksi)	Double Equal Angle	2L3x3x1/4x3/8	A36 (36 ksi)
T13 150.00-125.00	Solid Round		A572-50 (50 ksi)	Double Equal Angle	2L3x3x1/4x3/8	A36 (36 ksi)
T14 125.00-100.00	Solid Round		A572-50 (50 ksi)	Double Equal Angle	2L3x3x1/4x3/8	A36 (36 ksi)
T15 100.00-75.00	Solid Round		A572-50 (50 ksi)	Double Equal Angle	2L3x3x1/4x3/8	A36 (36 ksi)
T16 75.00-50.00	Solid Round		A572-50 (50 ksi)	Double Equal Angle	2L3x3x1/4x3/8	A36 (36 ksi)
T17 50.00-25.00	Solid Round		A572-50 (50 ksi)	Double Equal Angle	2L3x3x1/4x3/8	A36 (36 ksi)
T18 25.00-0.00	Solid Round		A572-50 (50 ksi)	Double Equal Angle	2L3x3x1/4x3/8	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Redundant Bracing Grade	Redundant Type	Redundant Type	Redundant Size	K Factor
<i>ft</i>					
T4 312.50-300.00	A36 (36 ksi)	Horizontal (1)	Single Angle	L2 1/2x2x3/16	0.85
T5 300.00-287.50	A36 (36 ksi)	Diagonal (1)	Double Angle	2L2 1/2x2x3/16x3/8	0.85
T6 287.50-275.00	A36 (36 ksi)	Horizontal (1)	Single Angle	L2 1/2x2x3/16	0.85
T7 275.00-262.50	A36 (36 ksi)	Diagonal (1)	Double Angle	2L2 1/2x2x3/16x3/8	0.85
T8 262.50-250.00	A36 (36 ksi)	Horizontal (1)	Equal Angle	L2 1/2x2 1/2x3/16	0.85
T9 250.00-225.00	A36 (36 ksi)	Diagonal (1)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	0.85
T10 225.00-200.00	A36 (36 ksi)	Horizontal (1)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	0.85
		Diagonal (2)		2L2 1/2x2 1/2x1/4x3/8	
		Diagonal (1)	Double Angle	2L2 1/2x2x3/16x3/8	0.85
T11 200.00-175.00	A36 (36 ksi)	Diagonal (2)		2L2 1/2x2x3/16x3/8	
		Horizontal (1)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	0.85
		Horizontal (2)	Double Angle	2L2 1/2x2 1/2x1/4x3/8	0.85

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Tower Elevation <i>ft</i>	Redundant Bracing Grade	Redundant Type	Redundant Size	K Factor		
T12 175.00-150.00	A36 (36 ksi)	Diagonal (2)	2L3x2x3/16x3/8	0.45		
		Horizontal (1)	2L2 1/2x2 1/2x1/4x3/8			
		Horizontal (2)	2L2 1/2x2 1/2x1/4x3/8			
		Horizontal (3)	2L2 1/2x2 1/2x1/4x3/8	0.45		
		Diagonal (1)	2L1 1/2x1 1/2x1/8			
		Diagonal (2)	2L3x3x3/16x3/8			
		Diagonal (3)	2L2 1/2x2x1/4x3/8	0.4		
		Sub-Diagonal	2L3x2x1/4x3/8			
		Sub-Horizontal	2L3x3x1/4x3/8			
		Hip (1)	2L3x3x1/4	0.65		
		Hip (2)	2L3x3x1/4			
		Hip (3)	2L3x3x1/4			
		Hip Diagonal (1)	2L3x3x1/4	0.45		
		Hip Diagonal (2)	2L3x3x1/4	0.45		
		Hip Diagonal (3)	2L3x3x1/4	0.45		
T13 150.00-125.00	A36 (36 ksi)	Horizontal (1)	2L2 1/2x2 1/2x1/4x3/8	0.45		
		Horizontal (2)	2L2 1/2x2 1/2x1/4x3/8			
		Horizontal (3)	2L2 1/2x2 1/2x1/4x3/8			
		Diagonal (1)	2L1 1/2x1 1/2x1/8	0.45		
		Diagonal (2)	2L3x3x3/16x3/8			
		Diagonal (3)	2L2 1/2x2 1/2x1/4x3/8			
		Sub-Diagonal	2L3 1/2x2 1/2x1/4x3/8	0.4		
		Sub-Horizontal	2L3x3 1/2x1/4x3/8	0.4		
		Hip (1)	2L3x3x1/4	0.65		
		Hip (2)	2L3x3x1/4			
		Hip (3)	2L3x3x1/4			
		Hip Diagonal (1)	2L3x3x1/4	0.45		
		Hip Diagonal (2)	2L3x3x1/4	0.45		
		Hip Diagonal (3)	2L3x3x1/4	0.45		
		T14 125.00-100.00	A36 (36 ksi)	Horizontal (1)	2L2 1/2x2 1/2x1/4x3/8	0.45
Horizontal (2)	2L2 1/2x2 1/2x1/4x3/8					
Horizontal (3)	2L2 1/2x2 1/2x1/4x3/8					
Diagonal (1)	2L1 1/2x1 1/2x1/8			0.45		
Diagonal (2)	2L3x3x3/16x3/8					
Diagonal (3)	2L3x2x1/4x3/8					
Sub-Diagonal	2L3 1/2x2 1/2x1/4x3/8			0.4		
Sub-Horizontal	2L3x4x5/16x3/8			0.4		
Hip (1)	2L3x3x1/4			0.65		
Hip (2)	2L3x3x1/4					
Hip (3)	2L3x3x1/4					
Hip Diagonal (1)	2L3x3x1/4			0.45		
Hip Diagonal (2)	2L3x3x1/4			0.45		
Hip Diagonal (3)	2L3x3x1/4			0.45		
T15 100.00-75.00	A36 (36 ksi)			Horizontal (1)	2L3x2 1/2x1/4x3/8	0.45
		Horizontal (2)	2L3x2 1/2x1/4x3/8			
		Diagonal (1)	2L2 1/2x2 1/2x3/16x3/8			
		Diagonal (2)	2L3x2 1/2x1/4x3/8	0.45		
		Sub-Diagonal	2L4x3x5/16x3/8			
		Sub-Horizontal	2L3x3 1/2x1/4x3/8			
		Vertical	2L2 1/2x2 1/2x1/4x3/8	0.85		
		Hip (1)	2L3x3x1/4	0.65		
		Hip (2)	2L3x3x1/4			
		Hip Diagonal (1)	2L3x3x1/4			
		Hip Diagonal (2)	2L3x3x1/4	0.45		
		Hip Diagonal (3)	2L3x3x1/4	0.45		
		T16 75.00-50.00	A36 (36 ksi)	Horizontal (1)	2L3x2 1/2x1/4x3/8	0.45
				Horizontal (2)	2L3x2 1/2x1/4x3/8	
				Diagonal (1)	2L2 1/2x2 1/2x3/16x3/8	0.45
Diagonal (2)	2L3 1/2x2 1/2x1/4x3/8					
Sub-Diagonal	2L4x3x3/8x3/8			0.4		
Sub-Horizontal	2L3x3 1/2x1/4x3/8			0.4		

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Tower Elevation	Redundant Bracing Grade	Redundant Type	Redundant Size	K Factor	
ft					
T17 50.00-25.00	A36 (36 ksi)	Vertical	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	0.85
		Hip (1)	Double Equal Angle	2L3x3x1/4	0.65
		Hip (2)		2L3x3x1/4	
		Hip Diagonal (1)	Double Equal Angle	2L3x3x1/4	0.45
		Hip Diagonal (2)		2L3x3x1/4	0.45
		Horizontal (1)	Double Angle	2L3 1/2x2 1/2x1/4x3/8	0.45
		Horizontal (2)		2L3 1/2x2 1/2x1/4x3/8	
		Diagonal (1)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	0.45
		Diagonal (2)		2L3 1/2x2 1/2x1/4x3/8	
		Sub-Diagonal	Double Angle	2L4x3 1/2x3/8x3/8	0.4
Sub-Horizontal	Double Angle	2L3x4x1/4x3/8	0.4		
T18 25.00-0.00	A36 (36 ksi)	Vertical	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	0.85
		Hip (1)	Double Equal Angle	2L3x3x1/4	0.65
		Hip (2)		2L3x3x1/4	
		Hip Diagonal (1)	Double Equal Angle	2L3x3x1/4	0.45
		Hip Diagonal (2)		2L3x3x1/4	0.45
		Horizontal (1)	Double Angle	2L3 1/2x2 1/2x1/4x3/8	0.45
		Horizontal (2)		2L3 1/2x2 1/2x1/4x3/8	
		Diagonal (1)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	0.45
		Diagonal (2)		2L3 1/2x3x1/4x3/8	
		Sub-Diagonal	Double Angle	2L5x3 1/2x3/8x3/8	0.4
Sub-Horizontal	Double Angle	2L3 1/2x4x1/4x3/8	0.4		
Vertical	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	0.85		
Hip (1)	Double Equal Angle	2L3x3x1/4	0.65		
Hip (2)		2L3x3x1/4			
Hip Diagonal (1)	Double Equal Angle	2L3x3x1/4	0.45		
Hip Diagonal (2)		2L3x3x1/4	0.45		

Tower Section Geometry (cont'd)

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
T1 350.00-336.83	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T2 336.83-325.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T3 325.00-312.50	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T4 312.50-300.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T5 300.00-287.50	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T6 287.50-275.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T7 275.00-262.50	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T8 262.50-250.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T9 250.00-225.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T10 225.00-200.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T11 200.00-175.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000

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Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
T12 175.00-150.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T13 150.00-125.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T14 125.00-100.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T15 100.00-75.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T16 75.00-50.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T17 50.00-25.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000
T18 25.00-0.00	0.00	0.0000	A36 (36 ksi)	1.02	1	1	24.0000	24.0000	24.0000

Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹						
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace
				X Y	X Y	X Y	X Y	X Y	X Y	X Y
T1 350.00-336.83	Yes	No	0.5	1	1	1	1	1	0.5	1
T2 336.83-325.00	Yes	No	0.5	1	1	1	1	1	0.5	1
T3 325.00-312.50	Yes	No	0.5	1	1	1	1	1	0.5	1
T4 312.50-300.00	Yes	No	1	1	0.5	1	1	1	1	1
T5 300.00-287.50	Yes	No	1	1	0.5	1	1	0.5	1	1
T6 287.50-275.00	Yes	No	1	1	0.5	1	1	1	1	1
T7 275.00-262.50	Yes	No	1	1	0.5	1	1	0.5	1	1
T8 262.50-250.00	Yes	No	1	1	0.35	1	1	1	1	1
T9 250.00-225.00	Yes	No	1	1	0.33	1	1	1	1	1
T10 225.00-200.00	Yes	No	1	1	0.33	1	1	0.5	1	1
T11 200.00-175.00	Yes	No	1	1	0.33	1	1	1	1	1
T12 175.00-150.00	Yes	No	1.32	1	1.5	1	1	0.25	1	0.1
T13 150.00-125.00	Yes	No	1.32	1	1.5	1	1	0.25	1	0.1
T14 125.00-100.00	Yes	No	1.32	1	1.5	1	1	0.25	1	0.1
T15 100.00-75.00	Yes	No	1	1	1	1	1	0.5	1	0.1
T16 75.00-50.00	Yes	No	1	1	1	1	1	0.5	1	0.1

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Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
1/2	D	No	Ar (CaAa)	345.50 - 0.00	0.0000	0	1	1	0.0000	0.5800		0.25
1 5/8	A	No	Ar (CaAa)	336.80 - 0.00	0.0000	0	12	6	0.0000	1.9800		1.04
1/2	D	No	Ar (CaAa)	336.80 - 0.00	0.0000	0	1	1	0.0000	0.5800		0.25
1	D	No	Ar (CaAa)	336.80 - 0.00	0.0000	0	1	1	0.0000	1.2500		0.58

1 1/4	D	No	Ar (CaAa)	308.20 - 0.00	0.0000	0	1	1	0.0000	1.5500		0.66
5/8	A	No	Ar (CaAa)	267.20 - 0.00	0.0000	0	1	1	0.0000	0.8800		0.40
1 5/8	D	No	Ar (CaAa)	266.20 - 0.00	0.0000	0	9	9	0.0000	1.9800		1.04
1 5/8	D	No	Ar (CaAa)	266.20 - 0.00	0.0000	0	4	2	0.0000	1.9800		1.04
3/4"	D	No	Ar (CaAa)	266.20 - 0.00	0.0000	0	3	3	0.0000	0.7500		0.38
7/8	D	No	Ar (CaAa)	266.20 - 0.00	0.0000	0	1	1	0.0000	1.1100		0.54

1 1/4	D	No	Ar (CaAa)	244.00 - 0.00	0.0000	0	3	3	0.0000	1.5500		0.66
1/2	D	No	Ar (CaAa)	244.00 - 0.00	0.0000	0	1	1	0.0000	0.5800		0.25

1/2	D	No	Ar (CaAa)	210.00 - 0.00	0.0000	0	1	1	0.0000	0.5800		0.25
5/8	A	No	Ar (CaAa)	182.20 - 0.00	0.0000	0	2	1	0.0000	0.8800		0.40
1/2	A	No	Ar (CaAa)	98.20 - 0.00	0.0000	0	2	2	0.0000	0.5800		0.25

1/2	D	No	Ar (CaAa)	31.20 - 0.00	0.0000	0	2	1	0.0000	0.5800		0.25
1	D	No	Ar (CaAa)	48.10 - 0.00	0.0000	0	1	1	0.0000	1.2500		0.58
Feedline	A	No	Af (CaAa)	244.00 - 0.00	0.0000	0	1	1	0.0000	3.0000		6.51
Ladder (Af)												
Climbing	C	No	Af (CaAa)	350.00 - 0.00	0.0000	0	1	1	0.0000	3.0000		7.90
Ladder												
Feedline	D	No	Af (CaAa)	350.00 - 0.00	0.0000	0	1	1	0.0000	3.0000		6.51
Ladder (Af)												

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number	C _{AA}	Weight plf
						ft ² /ft	
1.55" Hybrid	D	No	CaAa (Out Of Face)	244.00 - 0.00	1	No Ice 1/2" Ice 1" Ice	0.16 0.25 0.35
							0.55 1.80 3.67

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
T1	350.00-336.83	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	6.583	0.000	104.01
		D	0.000	0.000	25.650	0.000	177.96
T2	336.83-325.00	A	0.000	0.000	28.037	0.000	147.26
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	5.917	0.000	93.49
		D	0.000	0.000	25.449	0.000	170.76
T3	325.00-312.50	A	0.000	0.000	29.700	0.000	156.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	6.250	0.000	98.75
		D	0.000	0.000	26.888	0.000	180.40

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Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
T4	312.50-300.00	A	0.000	0.000	29.700	0.000	156.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	6.250	0.000	98.75
		D	0.000	0.000	28.159	0.000	185.81
T5	300.00-287.50	A	0.000	0.000	29.700	0.000	156.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	6.250	0.000	98.75
		D	0.000	0.000	28.825	0.000	188.65
T6	287.50-275.00	A	0.000	0.000	29.700	0.000	156.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	6.250	0.000	98.75
		D	0.000	0.000	28.825	0.000	188.65
T7	275.00-262.50	A	0.000	0.000	30.114	0.000	157.88
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	6.250	0.000	98.75
		D	0.000	0.000	39.592	0.000	244.83
T8	262.50-250.00	A	0.000	0.000	30.800	0.000	161.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	6.250	0.000	98.75
		D	0.000	0.000	65.200	0.000	378.46
T9	250.00-225.00	A	0.000	0.000	71.100	0.000	445.69
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	140.337	2.945	809.75
T10	225.00-200.00	A	0.000	0.000	74.100	0.000	484.75
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	144.055	3.875	828.92
T11	200.00-175.00	A	0.000	0.000	75.367	0.000	490.51
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	144.925	3.875	832.67
T12	175.00-150.00	A	0.000	0.000	78.500	0.000	504.75
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	144.925	3.875	832.67
T13	150.00-125.00	A	0.000	0.000	78.500	0.000	504.75
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	144.925	3.875	832.67
T14	125.00-100.00	A	0.000	0.000	78.500	0.000	504.75
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	144.925	3.875	832.67
T15	100.00-75.00	A	0.000	0.000	81.191	0.000	516.35
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	144.925	3.875	832.67
T16	75.00-50.00	A	0.000	0.000	81.400	0.000	517.25
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	144.925	3.875	832.67
T17	50.00-25.00	A	0.000	0.000	81.400	0.000	517.25
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	148.532	3.875	849.17
T18	25.00-0.00	A	0.000	0.000	81.400	0.000	517.25
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	12.500	0.000	197.50
		D	0.000	0.000	150.950	3.875	859.67

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Feed Line/Linear Appurtenances Section Areas - With Ice

<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face or Leg</i>	<i>Ice Thickness in</i>	<i>A_R ft²</i>	<i>A_F ft²</i>	<i>C_{AA} In Face ft²</i>	<i>C_{AA} Out Face ft²</i>	<i>Weight lb</i>
T1	350.00-336.83	A	1.896	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	11.575	0.000	236.78
		D		0.000	0.000	79.426	0.000	1209.02
T2	336.83-325.00	A	1.889	0.000	0.000	25.762	0.000	501.04
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.388	0.000	212.15
		D		0.000	0.000	84.060	0.000	1268.16
T3	325.00-312.50	A	1.882	0.000	0.000	27.260	0.000	529.33
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.955	0.000	223.38
		D		0.000	0.000	88.604	0.000	1333.44
T4	312.50-300.00	A	1.874	0.000	0.000	27.229	0.000	527.80
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.936	0.000	222.62
		D		0.000	0.000	92.714	0.000	1396.17
T5	300.00-287.50	A	1.867	0.000	0.000	27.196	0.000	526.22
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.916	0.000	221.84
		D		0.000	0.000	94.730	0.000	1424.87
T6	287.50-275.00	A	1.858	0.000	0.000	27.162	0.000	524.58
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.896	0.000	221.03
		D		0.000	0.000	94.457	0.000	1416.73
T7	275.00-262.50	A	1.850	0.000	0.000	29.280	0.000	553.75
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.875	0.000	220.18
		D		0.000	0.000	114.693	0.000	1702.08
T8	262.50-250.00	A	1.841	0.000	0.000	32.793	0.000	602.61
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	10.853	0.000	219.31
		D		0.000	0.000	163.068	0.000	2387.50
T9	250.00-225.00	A	1.827	0.000	0.000	81.844	0.000	1576.76
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	21.636	0.000	435.86
		D		0.000	0.000	356.098	9.889	5268.85
T10	225.00-200.00	A	1.807	0.000	0.000	86.666	0.000	1680.50
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	21.535	0.000	431.88
		D		0.000	0.000	367.935	12.910	5422.63
T11	200.00-175.00	A	1.785	0.000	0.000	92.501	0.000	1752.23
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	21.423	0.000	427.48
		D		0.000	0.000	371.613	12.798	5424.46
T12	175.00-150.00	A	1.759	0.000	0.000	107.259	0.000	1946.62
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	21.296	0.000	422.58
		D		0.000	0.000	368.666	12.671	5333.83
T13	150.00-125.00	A	1.730	0.000	0.000	106.468	0.000	1916.21
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	21.150	0.000	416.99
		D		0.000	0.000	365.280	12.525	5230.58
T14	125.00-100.00	A	1.696	0.000	0.000	105.535	0.000	1880.69
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	20.979	0.000	410.49

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
T15	100.00-75.00	D	1.654	0.000	0.000	361.286	12.354	5110.11
		A		0.000	0.000	121.566	0.000	1971.96
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	20.768	0.000	402.64
T16	75.00-50.00	D	1.599	0.000	0.000	356.398	12.143	4964.48
		A		0.000	0.000	120.931	0.000	1920.32
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	20.495	0.000	392.63
T17	50.00-25.00	D	1.519	0.000	0.000	350.044	11.870	4778.26
		A		0.000	0.000	118.070	0.000	1832.03
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	20.096	0.000	378.46
T18	25.00-0.00	D	1.361	0.000	0.000	355.005	11.471	4697.08
		A		0.000	0.000	112.395	0.000	1663.90
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	19.306	0.000	351.71
		D		0.000	0.000	348.330	10.681	4307.01

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
T1	350.00-336.83	-30.0546	65.2094	-46.6589	71.4479
T2	336.83-325.00	-41.4423	48.4686	-51.1099	66.4767
T3	325.00-312.50	-46.3472	54.1184	-57.1439	74.2434
T4	312.50-300.00	-49.7631	61.3396	-60.9655	83.4297
T5	300.00-287.50	-53.7476	68.0082	-65.6390	92.0802
T6	287.50-275.00	-58.5359	74.0540	-71.4875	100.2320
T7	275.00-262.50	-52.1152	90.6700	-67.8374	112.4848
T8	262.50-250.00	-39.8039	112.8415	-56.8838	127.3383
T9	250.00-225.00	-52.7255	122.8432	-67.1449	139.6966
T10	225.00-200.00	-61.4737	137.7823	-75.8758	157.1117
T11	200.00-175.00	-69.1935	152.6419	-85.1779	173.0460
T12	175.00-150.00	-78.9542	165.6231	-98.4137	184.6896
T13	150.00-125.00	-86.2194	180.8526	-107.3226	201.5719
T14	125.00-100.00	-93.4846	196.0821	-116.1705	218.4111
T15	100.00-75.00	-103.7372	208.6712	-131.6405	227.1812
T16	75.00-50.00	-111.4498	223.4937	-141.2012	242.7320
T17	50.00-25.00	-116.7402	240.5048	-145.4865	261.6377
T18	25.00-0.00	-122.5734	256.9635	-148.9123	279.9641

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	1	5/8	336.83 - 350.00	0.6000	0.6000
T1	2	7/8	336.83 - 350.00	0.6000	0.6000
T1	3	1/2	336.83 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			350.00		
T1	4	1 5/8	336.83 - 350.00	0.6000	0.6000
T1	5	1-1/2	336.83 - 350.00	0.6000	0.6000
T1	6	7/8	336.83 - 350.00	0.6000	0.6000
T1	7	2 1/4	336.83 - 350.00	0.6000	0.6000
T1	9	1/2	336.83 - 345.50	0.6000	0.6000
T1	32	Climbing Ladder	336.83 - 350.00	0.6000	0.6000
T1	33	Feedline Ladder (Af)	336.83 - 350.00	0.6000	0.6000
T2	1	5/8	325.00 - 336.83	0.6000	0.6000
T2	2	7/8	325.00 - 336.83	0.6000	0.6000
T2	3	1/2	325.00 - 336.83	0.6000	0.6000
T2	4	1 5/8	325.00 - 336.83	0.6000	0.6000
T2	5	1-1/2	325.00 - 336.83	0.6000	0.6000
T2	6	7/8	325.00 - 336.83	0.6000	0.6000
T2	7	2 1/4	325.00 - 336.83	0.6000	0.6000
T2	9	1/2	325.00 - 336.83	0.6000	0.6000
T2	10	1 5/8	325.00 - 336.80	0.6000	0.6000
T2	11	1/2	325.00 - 336.80	0.6000	0.6000
T2	12	1	325.00 - 336.80	0.6000	0.6000
T2	32	Climbing Ladder	325.00 - 336.83	0.6000	0.6000
T2	33	Feedline Ladder (Af)	325.00 - 336.83	0.6000	0.6000
T3	1	5/8	312.50 - 325.00	0.6000	0.6000
T3	2	7/8	312.50 - 325.00	0.6000	0.6000
T3	3	1/2	312.50 - 325.00	0.6000	0.6000
T3	4	1 5/8	312.50 - 325.00	0.6000	0.6000
T3	5	1-1/2	312.50 - 325.00	0.6000	0.6000
T3	6	7/8	312.50 - 325.00	0.6000	0.6000
T3	7	2 1/4	312.50 - 325.00	0.6000	0.6000
T3	9	1/2	312.50 - 325.00	0.6000	0.6000
T3	10	1 5/8	312.50 - 325.00	0.6000	0.6000
T3	11	1/2	312.50 - 325.00	0.6000	0.6000
T3	12	1	312.50 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T3	32	Climbing Ladder	325.00 - 312.50	0.6000	0.6000
T3	33	Feedline Ladder (Af)	325.00 - 312.50	0.6000	0.6000
T4	1	5/8	300.00 - 312.50	0.6000	0.6000
T4	2	7/8	300.00 - 312.50	0.6000	0.6000
T4	3	1/2	300.00 - 312.50	0.6000	0.6000
T4	4	1 5/8	300.00 - 312.50	0.6000	0.6000
T4	5	1-1/2	300.00 - 312.50	0.6000	0.6000
T4	6	7/8	300.00 - 312.50	0.6000	0.6000
T4	7	2 1/4	300.00 - 312.50	0.6000	0.6000
T4	9	1/2	300.00 - 312.50	0.6000	0.6000
T4	10	1 5/8	300.00 - 312.50	0.6000	0.6000
T4	11	1/2	300.00 - 312.50	0.6000	0.6000
T4	12	1	300.00 - 312.50	0.6000	0.6000
T4	14	1 1/4	300.00 - 312.50	0.6000	0.6000
T4	32	Climbing Ladder	308.20 - 300.00	0.6000	0.6000
T4	33	Feedline Ladder (Af)	312.50 - 300.00	0.6000	0.6000
T5	1	5/8	287.50 - 300.00	0.6000	0.6000
T5	2	7/8	287.50 - 300.00	0.6000	0.6000
T5	3	1/2	287.50 - 300.00	0.6000	0.6000
T5	4	1 5/8	287.50 - 300.00	0.6000	0.6000
T5	5	1-1/2	287.50 - 300.00	0.6000	0.6000
T5	6	7/8	287.50 - 300.00	0.6000	0.6000
T5	7	2 1/4	287.50 - 300.00	0.6000	0.6000
T5	9	1/2	287.50 - 300.00	0.6000	0.6000
T5	10	1 5/8	287.50 - 300.00	0.6000	0.6000
T5	11	1/2	287.50 - 300.00	0.6000	0.6000
T5	12	1	287.50 - 300.00	0.6000	0.6000
T5	14	1 1/4	287.50 - 300.00	0.6000	0.6000
T5	32	Climbing Ladder	287.50 - 300.00	0.6000	0.6000
T5	33	Feedline Ladder (Af)	300.00 - 287.50	0.6000	0.6000
T6	1	5/8	275.00 -	0.6000	0.6000

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">Infinigy Engineering PLLC 1033 Watervliet Shaker Rd. Albany, NY Phone: (518) 690-0790 FAX: (518) 690-0790</p>	Job	CT03XC377	Page	17 of 58
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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			287.50		
T6	2	7/8	275.00 -	0.6000	0.6000
			287.50		
T6	3	1/2	275.00 -	0.6000	0.6000
			287.50		
T6	4	1 5/8	275.00 -	0.6000	0.6000
			287.50		
T6	5	1-1/2	275.00 -	0.6000	0.6000
			287.50		
T6	6	7/8	275.00 -	0.6000	0.6000
			287.50		
T6	7	2 1/4	275.00 -	0.6000	0.6000
			287.50		
T6	9	1/2	275.00 -	0.6000	0.6000
			287.50		
T6	10	1 5/8	275.00 -	0.6000	0.6000
			287.50		
T6	11	1/2	275.00 -	0.6000	0.6000
			287.50		
T6	12	1	275.00 -	0.6000	0.6000
			287.50		
T6	14	1 1/4	275.00 -	0.6000	0.6000
			287.50		
T6	32	Climbing Ladder	275.00 -	0.6000	0.6000
			287.50		
T6	33	Feedline Ladder (Af)	275.00 -	0.6000	0.6000
			287.50		
T7	1	5/8	262.50 -	0.6000	0.6000
			275.00		
T7	2	7/8	262.50 -	0.6000	0.6000
			275.00		
T7	3	1/2	262.50 -	0.6000	0.6000
			275.00		
T7	4	1 5/8	262.50 -	0.6000	0.6000
			275.00		
T7	5	1-1/2	262.50 -	0.6000	0.6000
			275.00		
T7	6	7/8	262.50 -	0.6000	0.6000
			275.00		
T7	7	2 1/4	262.50 -	0.6000	0.6000
			275.00		
T7	9	1/2	262.50 -	0.6000	0.6000
			275.00		
T7	10	1 5/8	262.50 -	0.6000	0.6000
			275.00		
T7	11	1/2	262.50 -	0.6000	0.6000
			275.00		
T7	12	1	262.50 -	0.6000	0.6000
			275.00		
T7	14	1 1/4	262.50 -	0.6000	0.6000
			275.00		
T7	15	5/8	262.50 -	0.6000	0.6000
			267.20		
T7	16	1 5/8	262.50 -	0.6000	0.6000
			266.20		
T7	17	1 5/8	262.50 -	0.6000	0.6000
			266.20		
T7	18	3/4"	262.50 -	0.6000	0.6000
			266.20		
T7	19	7/8	262.50 -	0.6000	0.6000
			266.20		
T7	32	Climbing Ladder	262.50 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T7	33	Feedline Ladder (Af)	275.00 262.50 -	0.6000	0.6000
T8	1	5/8	275.00 250.00 -	0.6000	0.6000
T8	2	7/8	262.50 250.00 -	0.6000	0.6000
T8	3	1/2	262.50 250.00 -	0.6000	0.6000
T8	4	1 5/8	262.50 250.00 -	0.6000	0.6000
T8	5	1-1/2	262.50 250.00 -	0.6000	0.6000
T8	6	7/8	262.50 250.00 -	0.6000	0.6000
T8	7	2 1/4	262.50 250.00 -	0.6000	0.6000
T8	9	1/2	262.50 250.00 -	0.6000	0.6000
T8	10	1 5/8	262.50 250.00 -	0.6000	0.6000
T8	11	1/2	262.50 250.00 -	0.6000	0.6000
T8	12	1	262.50 250.00 -	0.6000	0.6000
T8	14	1 1/4	262.50 250.00 -	0.6000	0.6000
T8	15	5/8	262.50 250.00 -	0.6000	0.6000
T8	16	1 5/8	262.50 250.00 -	0.6000	0.6000
T8	17	1 5/8	262.50 250.00 -	0.6000	0.6000
T8	18	3/4"	262.50 250.00 -	0.6000	0.6000
T8	19	7/8	262.50 250.00 -	0.6000	0.6000
T8	32	Climbing Ladder	262.50 250.00 -	0.6000	0.6000
T8	33	Feedline Ladder (Af)	262.50 250.00 -	0.6000	0.6000
T9	1	5/8	250.00 225.00 -	0.6000	0.6000
T9	2	7/8	250.00 225.00 -	0.6000	0.6000
T9	3	1/2	250.00 225.00 -	0.6000	0.6000
T9	4	1 5/8	250.00 225.00 -	0.6000	0.6000
T9	5	1-1/2	250.00 225.00 -	0.6000	0.6000
T9	6	7/8	250.00 225.00 -	0.6000	0.6000
T9	7	2 1/4	250.00 225.00 -	0.6000	0.6000
T9	9	1/2	250.00 225.00 -	0.6000	0.6000
T9	10	1 5/8	250.00 225.00 -	0.6000	0.6000
T9	11	1/2	250.00 225.00 -	0.6000	0.6000
T9	12	1	225.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			250.00		
T9	14	1 1/4	225.00 - 250.00	0.6000	0.6000
T9	15	5/8	225.00 - 250.00	0.6000	0.6000
T9	16	1 5/8	225.00 - 250.00	0.6000	0.6000
T9	17	1 5/8	225.00 - 250.00	0.6000	0.6000
T9	18	3/4"	225.00 - 250.00	0.6000	0.6000
T9	19	7/8	225.00 - 250.00	0.6000	0.6000
T9	21	1 1/4	225.00 - 244.00	0.6000	0.6000
T9	22	1/2	225.00 - 244.00	0.6000	0.6000
T9	31	Feedline Ladder (Af)	225.00 - 244.00	0.6000	0.6000
T9	32	Climbing Ladder	225.00 - 250.00	0.6000	0.6000
T9	33	Feedline Ladder (Af)	225.00 - 250.00	0.6000	0.6000
T10	1	5/8	200.00 - 225.00	0.6000	0.6000
T10	2	7/8	200.00 - 225.00	0.6000	0.6000
T10	3	1/2	200.00 - 225.00	0.6000	0.6000
T10	4	1 5/8	200.00 - 225.00	0.6000	0.6000
T10	5	1-1/2	200.00 - 225.00	0.6000	0.6000
T10	6	7/8	200.00 - 225.00	0.6000	0.6000
T10	7	2 1/4	200.00 - 225.00	0.6000	0.6000
T10	9	1/2	200.00 - 225.00	0.6000	0.6000
T10	10	1 5/8	200.00 - 225.00	0.6000	0.6000
T10	11	1/2	200.00 - 225.00	0.6000	0.6000
T10	12	1	200.00 - 225.00	0.6000	0.6000
T10	14	1 1/4	200.00 - 225.00	0.6000	0.6000
T10	15	5/8	200.00 - 225.00	0.6000	0.6000
T10	16	1 5/8	200.00 - 225.00	0.6000	0.6000
T10	17	1 5/8	200.00 - 225.00	0.6000	0.6000
T10	18	3/4"	200.00 - 225.00	0.6000	0.6000
T10	19	7/8	200.00 - 225.00	0.6000	0.6000
T10	21	1 1/4	200.00 - 225.00	0.6000	0.6000
T10	22	1/2	200.00 - 225.00	0.6000	0.6000
T10	25	1/2	200.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T10	31	Feedline Ladder (Af)	210.00 - 200.00 - 225.00	0.6000	0.6000
T10	32	Climbing Ladder	200.00 - 225.00	0.6000	0.6000
T10	33	Feedline Ladder (Af)	200.00 - 225.00	0.6000	0.6000
T11	1	5/8	175.00 - 200.00	0.6000	0.6000
T11	2	7/8	175.00 - 200.00	0.6000	0.6000
T11	3	1/2	175.00 - 200.00	0.6000	0.6000
T11	4	1 5/8	175.00 - 200.00	0.6000	0.6000
T11	5	1-1/2	175.00 - 200.00	0.6000	0.6000
T11	6	7/8	175.00 - 200.00	0.6000	0.6000
T11	7	2 1/4	175.00 - 200.00	0.6000	0.6000
T11	9	1/2	175.00 - 200.00	0.6000	0.6000
T11	10	1 5/8	175.00 - 200.00	0.6000	0.6000
T11	11	1/2	175.00 - 200.00	0.6000	0.6000
T11	12	1	175.00 - 200.00	0.6000	0.6000
T11	14	1 1/4	175.00 - 200.00	0.6000	0.6000
T11	15	5/8	175.00 - 200.00	0.6000	0.6000
T11	16	1 5/8	175.00 - 200.00	0.6000	0.6000
T11	17	1 5/8	175.00 - 200.00	0.6000	0.6000
T11	18	3/4"	175.00 - 200.00	0.6000	0.6000
T11	19	7/8	175.00 - 200.00	0.6000	0.6000
T11	21	1 1/4	175.00 - 200.00	0.6000	0.6000
T11	22	1/2	175.00 - 200.00	0.6000	0.6000
T11	25	1/2	175.00 - 200.00	0.6000	0.6000
T11	26	5/8	175.00 - 182.20	0.6000	0.6000
T11	31	Feedline Ladder (Af)	175.00 - 200.00	0.6000	0.6000
T11	32	Climbing Ladder	175.00 - 200.00	0.6000	0.6000
T11	33	Feedline Ladder (Af)	175.00 - 200.00	0.6000	0.6000
T12	1	5/8	150.00 - 175.00	0.6000	0.6000
T12	2	7/8	150.00 - 175.00	0.6000	0.6000
T12	3	1/2	150.00 - 175.00	0.6000	0.6000
T12	4	1 5/8	150.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			175.00		
T12	5	1-1/2	150.00 -	0.6000	0.6000
			175.00		
T12	6	7/8	150.00 -	0.6000	0.6000
			175.00		
T12	7	2 1/4	150.00 -	0.6000	0.6000
			175.00		
T12	9	1/2	150.00 -	0.6000	0.6000
			175.00		
T12	10	1 5/8	150.00 -	0.6000	0.6000
			175.00		
T12	11	1/2	150.00 -	0.6000	0.6000
			175.00		
T12	12	1	150.00 -	0.6000	0.6000
			175.00		
T12	14	1 1/4	150.00 -	0.6000	0.6000
			175.00		
T12	15	5/8	150.00 -	0.6000	0.6000
			175.00		
T12	16	1 5/8	150.00 -	0.6000	0.6000
			175.00		
T12	17	1 5/8	150.00 -	0.6000	0.6000
			175.00		
T12	18	3/4"	150.00 -	0.6000	0.6000
			175.00		
T12	19	7/8	150.00 -	0.6000	0.6000
			175.00		
T12	21	1 1/4	150.00 -	0.6000	0.6000
			175.00		
T12	22	1/2	150.00 -	0.6000	0.6000
			175.00		
T12	25	1/2	150.00 -	0.6000	0.6000
			175.00		
T12	26	5/8	150.00 -	0.6000	0.6000
			175.00		
T12	31	Feedline Ladder (Af)	150.00 -	0.6000	0.6000
			175.00		
T12	32	Climbing Ladder	150.00 -	0.6000	0.6000
			175.00		
T12	33	Feedline Ladder (Af)	150.00 -	0.6000	0.6000
			175.00		
T13	1	5/8	125.00 -	0.6000	0.6000
			150.00		
T13	2	7/8	125.00 -	0.6000	0.6000
			150.00		
T13	3	1/2	125.00 -	0.6000	0.6000
			150.00		
T13	4	1 5/8	125.00 -	0.6000	0.6000
			150.00		
T13	5	1-1/2	125.00 -	0.6000	0.6000
			150.00		
T13	6	7/8	125.00 -	0.6000	0.6000
			150.00		
T13	7	2 1/4	125.00 -	0.6000	0.6000
			150.00		
T13	9	1/2	125.00 -	0.6000	0.6000
			150.00		
T13	10	1 5/8	125.00 -	0.6000	0.6000
			150.00		
T13	11	1/2	125.00 -	0.6000	0.6000
			150.00		
T13	12	1	125.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			150.00		
T13	14	1 1/4	125.00 -	0.6000	0.6000
			150.00		
T13	15	5/8	125.00 -	0.6000	0.6000
			150.00		
T13	16	1 5/8	125.00 -	0.6000	0.6000
			150.00		
T13	17	1 5/8	125.00 -	0.6000	0.6000
			150.00		
T13	18	3/4"	125.00 -	0.6000	0.6000
			150.00		
T13	19	7/8	125.00 -	0.6000	0.6000
			150.00		
T13	21	1 1/4	125.00 -	0.6000	0.6000
			150.00		
T13	22	1/2	125.00 -	0.6000	0.6000
			150.00		
T13	25	1/2	125.00 -	0.6000	0.6000
			150.00		
T13	26	5/8	125.00 -	0.6000	0.6000
			150.00		
T13	31	Feedline Ladder (Af)	125.00 -	0.6000	0.6000
			150.00		
T13	32	Climbing Ladder	125.00 -	0.6000	0.6000
			150.00		
T13	33	Feedline Ladder (Af)	125.00 -	0.6000	0.6000
			150.00		
T14	1	5/8	100.00 -	0.6000	0.6000
			125.00		
T14	2	7/8	100.00 -	0.6000	0.6000
			125.00		
T14	3	1/2	100.00 -	0.6000	0.6000
			125.00		
T14	4	1 5/8	100.00 -	0.6000	0.6000
			125.00		
T14	5	1-1/2	100.00 -	0.6000	0.6000
			125.00		
T14	6	7/8	100.00 -	0.6000	0.6000
			125.00		
T14	7	2 1/4	100.00 -	0.6000	0.6000
			125.00		
T14	9	1/2	100.00 -	0.6000	0.6000
			125.00		
T14	10	1 5/8	100.00 -	0.6000	0.6000
			125.00		
T14	11	1/2	100.00 -	0.6000	0.6000
			125.00		
T14	12	1	100.00 -	0.6000	0.6000
			125.00		
T14	14	1 1/4	100.00 -	0.6000	0.6000
			125.00		
T14	15	5/8	100.00 -	0.6000	0.6000
			125.00		
T14	16	1 5/8	100.00 -	0.6000	0.6000
			125.00		
T14	17	1 5/8	100.00 -	0.6000	0.6000
			125.00		
T14	18	3/4"	100.00 -	0.6000	0.6000
			125.00		
T14	19	7/8	100.00 -	0.6000	0.6000
			125.00		
T14	21	1 1/4	100.00 -	0.6000	0.6000

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">Infinigy Engineering PLLC 1033 Watervliet Shaker Rd. Albany, NY Phone: (518) 690-0790 FAX: (518) 690-0790</p>	<p>Job</p> <p style="text-align: center;">CT03XC377</p>	<p>Page</p> <p style="text-align: center;">23 of 58</p>
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	<p>Client</p> <p style="text-align: center;">Cherundolo Consulting / Sprint</p>	<p>Designed by</p> <p style="text-align: center;">BArcher</p>

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			125.00		
T14	22	1/2	100.00 - 125.00	0.6000	0.6000
T14	25	1/2	100.00 - 125.00	0.6000	0.6000
T14	26	5/8	100.00 - 125.00	0.6000	0.6000
T14	31	Feedline Ladder (Af)	100.00 - 125.00	0.6000	0.6000
T14	32	Climbing Ladder	100.00 - 125.00	0.6000	0.6000
T14	33	Feedline Ladder (Af)	100.00 - 125.00	0.6000	0.6000
T15	1	5/8	75.00 - 100.00	0.6000	0.6000
T15	2	7/8	75.00 - 100.00	0.6000	0.6000
T15	3	1/2	75.00 - 100.00	0.6000	0.6000
T15	4	1 5/8	75.00 - 100.00	0.6000	0.6000
T15	5	1-1/2	75.00 - 100.00	0.6000	0.6000
T15	6	7/8	75.00 - 100.00	0.6000	0.6000
T15	7	2 1/4	75.00 - 100.00	0.6000	0.6000
T15	9	1/2	75.00 - 100.00	0.6000	0.6000
T15	10	1 5/8	75.00 - 100.00	0.6000	0.6000
T15	11	1/2	75.00 - 100.00	0.6000	0.6000
T15	12	1	75.00 - 100.00	0.6000	0.6000
T15	14	1 1/4	75.00 - 100.00	0.6000	0.6000
T15	15	5/8	75.00 - 100.00	0.6000	0.6000
T15	16	1 5/8	75.00 - 100.00	0.6000	0.6000
T15	17	1 5/8	75.00 - 100.00	0.6000	0.6000
T15	18	3/4"	75.00 - 100.00	0.6000	0.6000
T15	19	7/8	75.00 - 100.00	0.6000	0.6000
T15	21	1 1/4	75.00 - 100.00	0.6000	0.6000
T15	22	1/2	75.00 - 100.00	0.6000	0.6000
T15	25	1/2	75.00 - 100.00	0.6000	0.6000
T15	26	5/8	75.00 - 100.00	0.6000	0.6000
T15	27	1/2	75.00 - 98.20	0.6000	0.6000
T15	31	Feedline Ladder (Af)	75.00 - 100.00	0.6000	0.6000
T15	32	Climbing Ladder	75.00 - 100.00	0.6000	0.6000
T15	33	Feedline Ladder (Af)	75.00 - 100.00	0.6000	0.6000
T16	1	5/8	50.00 - 75.00	0.6000	0.6000
T16	2	7/8	50.00 - 75.00	0.6000	0.6000
T16	3	1/2	50.00 - 75.00	0.6000	0.6000
T16	4	1 5/8	50.00 - 75.00	0.6000	0.6000
T16	5	1-1/2	50.00 - 75.00	0.6000	0.6000
T16	6	7/8	50.00 - 75.00	0.6000	0.6000
T16	7	2 1/4	50.00 - 75.00	0.6000	0.6000
T16	9	1/2	50.00 - 75.00	0.6000	0.6000
T16	10	1 5/8	50.00 - 75.00	0.6000	0.6000
T16	11	1/2	50.00 - 75.00	0.6000	0.6000
T16	12	1	50.00 - 75.00	0.6000	0.6000
T16	14	1 1/4	50.00 - 75.00	0.6000	0.6000
T16	15	5/8	50.00 - 75.00	0.6000	0.6000
T16	16	1 5/8	50.00 - 75.00	0.6000	0.6000
T16	17	1 5/8	50.00 - 75.00	0.6000	0.6000
T16	18	3/4"	50.00 - 75.00	0.6000	0.6000
T16	19	7/8	50.00 - 75.00	0.6000	0.6000
T16	21	1 1/4	50.00 - 75.00	0.6000	0.6000
T16	22	1/2	50.00 - 75.00	0.6000	0.6000
T16	25	1/2	50.00 - 75.00	0.6000	0.6000
T16	26	5/8	50.00 - 75.00	0.6000	0.6000
T16	27	1/2	50.00 - 75.00	0.6000	0.6000
T16	31	Feedline Ladder (Af)	50.00 - 75.00	0.6000	0.6000
T16	32	Climbing Ladder	50.00 - 75.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T16	33	Feedline Ladder (Af)	50.00 - 75.00	0.6000	0.6000
T17	1	5/8	25.00 - 50.00	0.6000	0.6000
T17	2	7/8	25.00 - 50.00	0.6000	0.6000
T17	3	1/2	25.00 - 50.00	0.6000	0.6000
T17	4	1 5/8	25.00 - 50.00	0.6000	0.6000
T17	5	1-1/2	25.00 - 50.00	0.6000	0.6000
T17	6	7/8	25.00 - 50.00	0.6000	0.6000
T17	7	2 1/4	25.00 - 50.00	0.6000	0.6000
T17	9	1/2	25.00 - 50.00	0.6000	0.6000
T17	10	1 5/8	25.00 - 50.00	0.6000	0.6000
T17	11	1/2	25.00 - 50.00	0.6000	0.6000
T17	12	1	25.00 - 50.00	0.6000	0.6000
T17	14	1 1/4	25.00 - 50.00	0.6000	0.6000
T17	15	5/8	25.00 - 50.00	0.6000	0.6000
T17	16	1 5/8	25.00 - 50.00	0.6000	0.6000
T17	17	1 5/8	25.00 - 50.00	0.6000	0.6000
T17	18	3/4"	25.00 - 50.00	0.6000	0.6000
T17	19	7/8	25.00 - 50.00	0.6000	0.6000
T17	21	1 1/4	25.00 - 50.00	0.6000	0.6000
T17	22	1/2	25.00 - 50.00	0.6000	0.6000
T17	25	1/2	25.00 - 50.00	0.6000	0.6000
T17	26	5/8	25.00 - 50.00	0.6000	0.6000
T17	27	1/2	25.00 - 50.00	0.6000	0.6000
T17	29	1/2	25.00 - 31.20	0.6000	0.6000
T17	30	1	25.00 - 48.10	0.6000	0.6000
T17	31	Feedline Ladder (Af)	25.00 - 50.00	0.6000	0.6000
T17	32	Climbing Ladder	25.00 - 50.00	0.6000	0.6000
T17	33	Feedline Ladder (Af)	25.00 - 50.00	0.6000	0.6000
T18	1	5/8	0.00 - 25.00	0.6000	0.6000
T18	2	7/8	0.00 - 25.00	0.6000	0.6000
T18	3	1/2	0.00 - 25.00	0.6000	0.6000
T18	4	1 5/8	0.00 - 25.00	0.6000	0.6000
T18	5	1-1/2	0.00 - 25.00	0.6000	0.6000
T18	6	7/8	0.00 - 25.00	0.6000	0.6000
T18	7	2 1/4	0.00 - 25.00	0.6000	0.6000
T18	9	1/2	0.00 - 25.00	0.6000	0.6000
T18	10	1 5/8	0.00 - 25.00	0.6000	0.6000
T18	11	1/2	0.00 - 25.00	0.6000	0.6000
T18	12	1	0.00 - 25.00	0.6000	0.6000
T18	14	1 1/4	0.00 - 25.00	0.6000	0.6000
T18	15	5/8	0.00 - 25.00	0.6000	0.6000
T18	16	1 5/8	0.00 - 25.00	0.6000	0.6000
T18	17	1 5/8	0.00 - 25.00	0.6000	0.6000
T18	18	3/4"	0.00 - 25.00	0.6000	0.6000
T18	19	7/8	0.00 - 25.00	0.6000	0.6000
T18	21	1 1/4	0.00 - 25.00	0.6000	0.6000
T18	22	1/2	0.00 - 25.00	0.6000	0.6000
T18	25	1/2	0.00 - 25.00	0.6000	0.6000
T18	26	5/8	0.00 - 25.00	0.6000	0.6000
T18	27	1/2	0.00 - 25.00	0.6000	0.6000
T18	29	1/2	0.00 - 25.00	0.6000	0.6000
T18	30	1	0.00 - 25.00	0.6000	0.6000
T18	31	Feedline Ladder (Af)	0.00 - 25.00	0.6000	0.6000
T18	32	Climbing Ladder	0.00 - 25.00	0.6000	0.6000
T18	33	Feedline Ladder (Af)	0.00 - 25.00	0.6000	0.6000

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Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
TAG Platform	A	From Leg	10.00	0.0000	350.00	No Ice	112.50	112.50	2405.00
			0.00			1/2" Ice	135.00	135.00	17540.80
			0.00			1" Ice	157.50	157.50	32676.50
Catwalk	A	From Leg	10.00	0.0000	336.80	No Ice	112.50	112.50	2405.00
			0.00			1/2" Ice	135.00	135.00	17540.80
			0.00			1" Ice	157.50	157.50	32676.50

(2) 10' Omni	C	From Leg	3.00	0.0000	355.00	No Ice	3.00	3.00	33.30
			0.00			1/2" Ice	4.03	4.03	55.09
			0.00			1" Ice	5.03	5.03	83.44
10' Omni	D	From Leg	3.00	0.0000	355.00	No Ice	3.00	3.00	33.30
			0.00			1/2" Ice	4.03	4.03	55.09
			0.00			1" Ice	5.03	5.03	83.44
Luminair Lamp	D	From Leg	3.00	0.0000	355.00	No Ice	1.50	2.60	25.00
			0.00			1/2" Ice	1.65	2.81	55.33
			0.00			1" Ice	1.81	3.04	89.30

20' Omni	A	From Leg	3.00	0.0000	350.00	No Ice	6.00	6.00	55.00
			0.00			1/2" Ice	8.03	8.03	98.17
			0.00			1" Ice	10.08	10.08	154.01
10' Omni	B	From Leg	3.00	0.0000	350.00	No Ice	3.00	3.00	33.30
			0.00			1/2" Ice	4.03	4.03	55.09
			0.00			1" Ice	5.03	5.03	83.44
20' Omni	B	From Leg	3.00	0.0000	350.00	No Ice	6.00	6.00	55.00
			0.00			1/2" Ice	8.03	8.03	98.17
			0.00			1" Ice	10.08	10.08	154.01
10' Omni	D	From Leg	3.00	0.0000	350.00	No Ice	3.00	3.00	33.30
			0.00			1/2" Ice	4.03	4.03	55.09
			0.00			1" Ice	5.03	5.03	83.44
10' Dipole	C	From Leg	3.00	0.0000	350.00	No Ice	3.00	3.00	30.00
			0.00			1/2" Ice	4.03	4.03	51.79
			0.00			1" Ice	5.03	5.03	80.14
20' Dipole	D	From Leg	3.00	0.0000	350.00	No Ice	6.00	6.00	60.00
			0.00			1/2" Ice	8.03	8.03	103.17
			0.00			1" Ice	10.08	10.08	159.01
8' Omni	D	From Leg	3.00	0.0000	350.00	No Ice	2.40	2.40	25.00
			0.00			1/2" Ice	3.19	3.19	42.51
			0.00			1" Ice	3.67	3.67	65.37
36"x12" Panel	B	From Leg	3.00	0.0000	350.00	No Ice	3.67	2.03	25.00
			0.00			1/2" Ice	3.93	2.26	50.12
			0.00			1" Ice	4.19	2.50	78.93
36"x12" Panel	B	From Leg	3.00	0.0000	350.00	No Ice	3.67	2.03	25.00
			0.00			1/2" Ice	3.93	2.26	50.12
			0.00			1" Ice	4.19	2.50	78.93
36"x12" Panel	B	From Leg	3.00	0.0000	350.00	No Ice	3.67	2.03	25.00
			0.00			1/2" Ice	3.93	2.26	50.12
			0.00			1" Ice	4.19	2.50	78.93

(2) 7700	A	From Leg	3.00	0.0000	336.80	No Ice	0.00	0.00	0.00
			0.00			1/2" Ice	0.00	0.00	0.00
			10.00			1" Ice	0.00	0.00	0.00
(2) 7700	B	From Leg	3.00	0.0000	336.80	No Ice	0.00	0.00	0.00
			0.00			1/2" Ice	0.00	0.00	0.00
			10.00			1" Ice	0.00	0.00	0.00

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
(2) 7700	C	From Leg	3.00	0.00	0.0000	336.80	No Ice	0.00	0.00
			0.00	0.00			1/2" Ice	0.00	0.00
			10.00	0.00			1" Ice	0.00	0.00
(4) LGP21401	A	From Leg	3.00	0.00	0.0000	336.80	No Ice	0.82	0.35
			0.00	0.00			1/2" Ice	0.94	0.44
			5.00	0.00			1" Ice	1.06	0.54
(4) LGP21401	B	From Leg	3.00	0.00	0.0000	336.80	No Ice	0.82	0.35
			0.00	0.00			1/2" Ice	0.94	0.44
			5.00	0.00			1" Ice	1.06	0.54
(4) LGP21401	C	From Leg	3.00	0.00	0.0000	336.80	No Ice	0.82	0.35
			0.00	0.00			1/2" Ice	0.94	0.44
			5.00	0.00			1" Ice	1.06	0.54
(3) 10"x10"x6"	A	From Leg	3.00	0.00	0.0000	336.80	No Ice	1.05	1.08
			0.00	0.00			1/2" Ice	1.21	1.27
			3.30	0.00			1" Ice	1.38	1.48
AM-X-CD-14-65-00T-RET	A	From Leg	3.00	0.00	0.0000	336.80	No Ice	4.99	2.83
			0.00	0.00			1/2" Ice	5.32	3.14
			9.70	0.00			1" Ice	5.65	3.45
AM-X-CD-14-65-00T-RET	B	From Leg	3.00	0.00	0.0000	336.80	No Ice	4.99	2.83
			0.00	0.00			1/2" Ice	5.32	3.14
			9.70	0.00			1" Ice	5.65	3.45
AM-X-CD-14-65-00T-RET	C	From Leg	3.00	0.00	0.0000	336.80	No Ice	4.99	2.83
			0.00	0.00			1/2" Ice	5.32	3.14
			9.70	0.00			1" Ice	5.65	3.45
(2) RBS 6000	A	From Leg	3.00	0.00	0.0000	336.80	No Ice	0.09	0.09
			0.00	0.00			1/2" Ice	0.13	0.13
			9.20	0.00			1" Ice	0.17	0.17
(2) RBS 6000	B	From Leg	3.00	0.00	0.0000	336.80	No Ice	0.09	0.09
			0.00	0.00			1/2" Ice	0.13	0.13
			9.20	0.00			1" Ice	0.17	0.17
(2) RBS 6000	C	From Leg	3.00	0.00	0.0000	336.80	No Ice	0.09	0.09
			0.00	0.00			1/2" Ice	0.13	0.13
			9.20	0.00			1" Ice	0.17	0.17
6' Yagi	B	From Leg	3.00	0.00	0.0000	336.80	No Ice	8.95	8.95
			0.00	0.00			1/2" Ice	15.80	15.80
			8.70	0.00			1" Ice	22.65	22.65
Angle Sector Frame	A	From Leg	3.00	0.00	0.0000	336.80	No Ice	17.90	8.95
			0.00	0.00			1/2" Ice	22.20	13.00
			0.00	0.00			1" Ice	26.50	17.05
Angle Sector Frame	B	From Leg	3.00	0.00	0.0000	336.80	No Ice	17.90	8.95
			0.00	0.00			1/2" Ice	22.20	13.00
			0.00	0.00			1" Ice	26.50	17.05
Angle Sector Frame	C	From Leg	3.00	0.00	0.0000	336.80	No Ice	17.90	8.95
			0.00	0.00			1/2" Ice	22.20	13.00
			0.00	0.00			1" Ice	26.50	17.05

(2) 800 10122	A	From Leg	3.00	0.00	0.0000	265.20	No Ice	7.62	4.93
			0.00	0.00			1/2" Ice	8.11	5.40
			0.00	0.00			1" Ice	8.58	5.87
(2) 800 10122	B	From Leg	3.00	0.00	0.0000	265.20	No Ice	7.62	4.93
			0.00	0.00			1/2" Ice	8.11	5.40
			0.00	0.00			1" Ice	8.58	5.87
(2) 800 10122	C	From Leg	3.00	0.00	0.0000	265.20	No Ice	7.62	4.93
			0.00	0.00			1/2" Ice	8.11	5.40
			0.00	0.00			1" Ice	8.58	5.87
6"x3"x3"	A	From Leg	3.00	0.00	0.0000	265.00	No Ice	3.79	1.46
			0.00	0.00			1/2" Ice	4.04	1.63

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Lateral						°	ft	ft^{2}	ft^{2}	lb
			0.00						
6"x3"x3"	B	From Leg	3.00		0.0000	265.20	1" Ice 4.29	1.81	109.98
			0.00				No Ice 3.79	1.46	55.00
			0.00				1/2" Ice 4.04	1.63	80.77
6"x3"x3"	C	From Leg	3.00		0.0000	265.20	1" Ice 4.29	1.81	109.98
			0.00				No Ice 3.79	1.46	55.00
			0.00				1/2" Ice 4.04	1.63	80.77
Angle Sector Frame	A	From Leg	0.00		0.0000	265.20	1" Ice 4.29	1.81	109.98
			0.00				No Ice 17.90	8.95	400.00
			0.00				1/2" Ice 22.20	13.00	510.00
Angle Sector Frame	B	From Leg	0.00		0.0000	265.20	1" Ice 26.50	17.05	620.00
			0.00				No Ice 17.90	8.95	400.00
			0.00				1/2" Ice 22.20	13.00	510.00
Angle Sector Frame	C	From Leg	0.00		0.0000	265.20	1" Ice 26.50	17.05	620.00
			0.00				No Ice 17.90	8.95	400.00
			0.00				1/2" Ice 22.20	13.00	510.00
			0.00				1" Ice 26.50	17.05	620.00

APXVSPP18-C	A	From Leg	3.00		0.0000	244.00	No Ice 8.02	5.28	25.80
			0.00				1/2" Ice 8.48	5.74	75.32
			0.00				1" Ice 8.94	6.20	130.92
APXVSPP18-C	B	From Leg	3.00		0.0000	244.00	No Ice 8.02	5.28	25.80
			0.00				1/2" Ice 8.48	5.74	75.32
			0.00				1" Ice 8.94	6.20	130.92
APXVSPP18-C	C	From Leg	3.00		0.0000	244.00	No Ice 8.02	5.28	25.80
			0.00				1/2" Ice 8.48	5.74	75.32
			0.00				1" Ice 8.94	6.20	130.92
1900MHz RRH	A	From Leg	3.00		0.0000	244.00	No Ice 2.31	2.38	60.00
			0.00				1/2" Ice 2.52	2.58	83.90
			0.00				1" Ice 2.73	2.79	111.08
1900MHz RRH	B	From Leg	3.00		0.0000	244.00	No Ice 2.31	2.38	60.00
			0.00				1/2" Ice 2.52	2.58	83.90
			0.00				1" Ice 2.73	2.79	111.08
1900MHz RRH	C	From Leg	3.00		0.0000	244.00	No Ice 2.31	2.38	60.00
			0.00				1/2" Ice 2.52	2.58	83.90
			0.00				1" Ice 2.73	2.79	111.08
AAHC	A	From Leg	3.00		0.0000	244.00	No Ice 4.21	1.55	103.60
			0.00				1/2" Ice 4.47	1.73	131.92
			0.00				1" Ice 4.73	1.91	163.83
AAHC	B	From Leg	3.00		0.0000	244.00	No Ice 4.21	1.55	103.60
			0.00				1/2" Ice 4.47	1.73	131.92
			0.00				1" Ice 4.73	1.91	163.83
AAHC	C	From Leg	3.00		0.0000	244.00	No Ice 4.21	1.55	103.60
			0.00				1/2" Ice 4.47	1.73	131.92
			0.00				1" Ice 4.73	1.91	163.83
(2) 800 MHz 2x50W RRH	A	From Leg	3.00		0.0000	244.00	No Ice 2.06	1.93	64.00
			0.00				1/2" Ice 2.24	2.11	86.12
			0.00				1" Ice 2.43	2.29	111.30
(2) 800 MHz 2x50W RRH	B	From Leg	3.00		0.0000	244.00	No Ice 2.06	1.93	64.00
			0.00				1/2" Ice 2.24	2.11	86.12
			0.00				1" Ice 2.43	2.29	111.30
(2) 800 MHz 2x50W RRH	C	From Leg	3.00		0.0000	244.00	No Ice 2.06	1.93	64.00
			0.00				1/2" Ice 2.24	2.11	86.12
			0.00				1" Ice 2.43	2.29	111.30
Angle Sector Frame	A	From Leg	0.00		0.0000	244.00	No Ice 17.90	8.95	400.00
			0.00				1/2" Ice 22.20	13.00	510.00
			0.00				1" Ice 26.50	17.05	620.00
Angle Sector Frame	B	From Leg	0.00		0.0000	244.00	No Ice 17.90	8.95	400.00

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Lateral					
			ft	ft	°	ft	ft ²	ft ²	lb
			0.00			1/2" Ice	22.20	13.00	510.00
			0.00			1" Ice	26.50	17.05	620.00
Angle Sector Frame	C	From Leg	0.00		0.0000	No Ice	17.90	8.95	400.00
			0.00			1/2" Ice	22.20	13.00	510.00
			0.00			1" Ice	26.50	17.05	620.00

6' Yagi	A	From Leg	3.00		0.0000	No Ice	8.95	8.95	25.00
			0.00			1/2" Ice	15.80	15.80	98.00
			0.00			1" Ice	22.65	22.65	171.00
(2) Luminair Lamp	B	None			0.0000	No Ice	1.50	2.60	25.00
						1/2" Ice	1.65	2.81	55.33
						1" Ice	1.81	3.04	89.30
(2) Luminair Lamp	D	None			0.0000	No Ice	1.50	2.60	25.00
						1/2" Ice	1.65	2.81	55.33
						1" Ice	1.81	3.04	89.30
(2) Luminair Lamp	B	None			0.0000	No Ice	1.50	2.60	25.00
						1/2" Ice	1.65	2.81	55.33
						1" Ice	1.81	3.04	89.30
(2) Luminair Lamp	D	None			0.0000	No Ice	1.50	2.60	25.00
						1/2" Ice	1.65	2.81	55.33
						1" Ice	1.81	3.04	89.30

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz	Lateral							
				ft	ft	°	°	ft	ft	ft ²	lb	
2' Std. Dish	D	Paraboloid w/o Radome	From Leg	0.00		0.0000		48.10	2.00	No Ice	3.14	14.00
				0.00						1/2" Ice	3.41	31.50
				0.00						1" Ice	3.68	49.01
4' Std. Dish	B	Paraboloid w/o Radome	From Leg	0.00		0.0000		31.20	4.00	No Ice	12.57	190.00
				0.00						1/2" Ice	13.10	260.00
				0.00						1" Ice	13.62	320.00

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 45 deg - No Ice
5	0.9 Dead+1.6 Wind 45 deg - No Ice
6	1.2 Dead+1.6 Wind 90 deg - No Ice
7	0.9 Dead+1.6 Wind 90 deg - No Ice
8	1.2 Dead+1.0 Ice+1.0 Temp

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Comb. No.	Description
9	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
10	1.2 Dead+1.0 Wind 45 deg+1.0 Ice+1.0 Temp
11	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
12	Dead+Wind 0 deg - Service
13	Dead+Wind 45 deg - Service
14	Dead+Wind 90 deg - Service

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	350 - 336.834	2.470	13	0.0440	0.0193
T2	336.834 - 325	2.355	13	0.0433	0.0181
T3	325 - 312.5	2.250	13	0.0417	0.0167
T4	312.5 - 300	2.139	13	0.0405	0.0155
T5	300 - 287.5	2.027	13	0.0392	0.0140
T6	287.5 - 275	1.917	13	0.0377	0.0128
T7	275 - 262.5	1.808	13	0.0362	0.0117
T8	262.5 - 250	1.702	13	0.0349	0.0108
T9	250 - 225	1.596	13	0.0335	0.0100
T10	225 - 200	1.393	13	0.0310	0.0087
T11	200 - 175	1.199	13	0.0284	0.0076
T12	175 - 150	1.021	13	0.0256	0.0067
T13	150 - 125	0.808	13	0.0237	0.0057
T14	125 - 100	0.612	13	0.0212	0.0047
T15	100 - 75	0.429	13	0.0179	0.0035
T16	75 - 50	0.281	13	0.0139	0.0025
T17	50 - 25	0.157	13	0.0096	0.0016
T18	25 - 0	0.063	13	0.0049	0.0007

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
355.00	(2) 10' Omni	13	2.470	0.0440	0.0193	647996
350.00	TAG Platform	13	2.470	0.0440	0.0193	647996
336.80	Catwalk	13	2.355	0.0433	0.0181	286880
265.20	(2) 800 10122	13	1.724	0.0352	0.0110	Inf
265.00	6"x3"x3"	13	1.723	0.0352	0.0110	Inf
244.00	APXVSPPI8-C	13	1.546	0.0329	0.0097	631473
210.00	6' Yagi	13	1.274	0.0295	0.0080	308278
182.20	(2) Luminair Lamp	13	1.075	0.0263	0.0070	187938
98.20	(2) Luminair Lamp	13	0.418	0.0176	0.0034	170215
48.10	2' Std. Dish	13	0.148	0.0093	0.0015	236640
31.20	4' Std. Dish	13	0.083	0.0061	0.0009	199751

Maximum Tower Deflections - Design Wind

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	350 - 336.834	12.413	6	0.2306	0.3152
T2	336.834 - 325	12.433	6	0.2076	0.3109
T3	325 - 312.5	12.439	6	0.1734	0.3054
T4	312.5 - 300	12.444	6	0.1539	0.3007
T5	300 - 287.5	12.442	6	0.1512	0.2950
T6	287.5 - 275	12.446	6	0.1472	0.2903
T7	275 - 262.5	12.455	6	0.1422	0.2863
T8	262.5 - 250	12.470	6	0.1375	0.2828
T9	250 - 225	12.490	6	0.1321	0.2798
T10	225 - 200	12.494	6	0.1226	0.2642
T11	200 - 175	8.595	6	0.1124	0.0638
T12	175 - 150	8.294	6	0.1016	0.0620
T13	150 - 125	7.742	6	0.0938	0.0581
T14	125 - 100	7.180	6	0.0839	0.0539
T15	100 - 75	6.547	6	0.0708	0.0492
T16	75 - 50	5.142	6	0.0551	0.0410
T17	50 - 25	1.941	6	0.0380	0.0118
T18	25 - 0	1.145	6	0.0195	0.0078

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
355.00	(2) 10' Omni	6	12.413	0.2306	0.3152	40171
350.00	TAG Platform	6	12.413	0.2306	0.3152	40171
336.80	Catwalk	6	12.433	0.2075	0.3109	17095
265.20	(2) 800 10122	6	12.475	0.1386	0.2839	14587
265.00	6"x3"x3"	6	12.474	0.1385	0.2838	14387
244.00	APXVSP18-C	6	12.660	0.1297	0.2857	48294
210.00	6' Yagi	6	10.113	0.1167	0.1312	5107
182.20	(2) Luminair Lamp	6	8.172	0.1045	0.0576	14690
98.20	(2) Luminair Lamp	6	6.496	0.0698	0.0490	17726
48.10	2' Std. Dish	6	1.790	0.0367	0.0105	1709
31.20	4' Std. Dish	6	1.244	0.0242	0.0077	41297

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria
T18	25	Leg	A36	2.5000	6	41241.90	132536.00	0.311	1	Bolt Tension

Compression Checks

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Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 336.834	L6x6x5/8	13.24	13.24	67.3 K=0.50	7.1100	-71250.70	169684.00	0.420 ¹ ✓
T2	336.834 - 325	L6x6x5/8	11.90	11.90	60.5 K=0.50	7.1100	-140939.00	176965.00	0.796 ¹ ✓
T3	325 - 312.5	L6x6x7/8	12.57	12.57	64.5 K=0.50	9.7300	-137915.00	236473.00	0.583 ¹ ✓
T4	312.5 - 300	L6x6x7/8	12.57	6.29	64.5 K=1.00	9.7300	-139796.00	236473.00	0.591 ¹ ✓
T5	300 - 287.5	L6x6x7/8	12.57	6.29	64.5 K=1.00	9.7300	-136500.00	236473.00	0.577 ¹ ✓
T6	287.5 - 275	L6x6x7/8	12.57	6.29	64.5 K=1.00	9.7300	-134785.00	236473.00	0.570 ¹ ✓
T7	275 - 262.5	L8x8x3/4	12.57	6.29	47.7 K=1.00	11.4000	-135273.00	303324.00	0.446 ¹ ✓
T8	262.5 - 250	L8x8x3/4	12.57	6.29	47.7 K=1.00	11.4000	-135812.00	303324.00	0.448 ¹ ✓
T9	250 - 225	L8x8x7/8	25.14	8.38	64.1 K=1.00	13.2000	-140922.00	321624.00	0.438 ¹ ✓
T10	225 - 200	L8x8x1	25.14	8.38	64.5 K=1.00	15.0000	-147171.00	364552.00	0.404 ¹ ✓
T11	200 - 175	L8x8x1 1/8	25.14	8.38	64.5 K=1.00	16.7000	-155866.00	405868.00	0.384 ¹ ✓
T12	175 - 150	L8x8x1 1/8	25.14	6.29	63.8 K=1.32	16.7000	-166775.00	407491.00	0.409 ¹ ✓
T13	150 - 125	L8x8x1 1/8	25.14	6.29	63.8 K=1.32	16.7000	-199870.00	407491.00	0.490 ¹ ✓
T14	125 - 100	L8x8x1	25.14	6.29	63.8 K=1.32	15.0000	-232928.00	366010.00	0.636 ¹ ✓
T15	100 - 75	L8x8x1	25.14	8.38	64.5 K=1.00	15.0000	-266532.00	364552.00	0.731 ¹ ✓
T16	75 - 50	L8x8x1	25.14	8.38	64.5 K=1.00	15.0000	-295137.00	364552.00	0.810 ¹ ✓
T17	50 - 25	L8x8x1	25.14	8.38	64.5 K=1.00	15.0000	-322798.00	364552.00	0.885 ¹ ✓
T18	25 - 0	L8x8x1	25.14	8.38	64.5 K=1.00	15.0000	-350954.00	364552.00	0.963 ¹ ✓

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 336.834	L3 1/2x3 1/2x5/16	18.87	10.13	162.8 K=0.92	2.0900	-9389.65	17810.90	0.527 ¹ ✓
T2	336.834 - 325	L3 1/2x3 1/2x5/16	19.41	10.27	164.7	2.0900	-13459.20	17414.70	0.773 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T3	325 - 312.5	L3 1/2x3 1/2x5/16	21.27	11.22	K=0.92 177.2	2.0900	-10462.10	15029.30	0.696 ¹
T4	312.5 - 300	2L2 1/2x2 1/2x1/4x3/8	16.04	16.04	K=0.91 168.9	2.3800	-9875.82	18841.80	0.524 ¹
T5	300 - 287.5	2L2 1/2x2 1/2x1/4x3/8	16.64	16.64	K=1.00 174.7	2.3800	-10159.60	17610.00	0.577 ¹
T6	287.5 - 275	2L2 1/2x2 1/2x1/4x3/8	17.27	17.27	K=1.00 180.9	2.3800	-10434.20	16439.10	0.635 ¹
T7	275 - 262.5	2L2 1/2x2 1/2x1/4x3/8	17.92	17.92	K=1.00 187.2	2.3800	-10957.80	15335.60	0.715 ¹
T8	262.5 - 250	2L2 1/2x2 1/2x1/4x3/8	18.61	18.61	K=0.85 166.8	2.3800	-11971.40	19324.20	0.620 ¹
T9	250 - 225	2L2 1/2x3x5/16x3/8	29.54	29.54	K=0.33 92.2	3.2422	-24456.30	67130.40	0.364 ¹
T10	225 - 200	2L2 1/2x3x5/16x3/8	30.57	30.57	K=0.33 94.7	3.2422	-17249.40	65536.50	0.263 ¹
T11	200 - 175	2L2 1/2x3 1/2x5/16x3/8	31.68	31.68	K=0.33 85.1	3.5500	-27044.70	78586.80	0.344 ¹
T12	175 - 150	2L3x3 1/2x5/16x3/8	22.07	7.36	K=1.50 146.3	3.8700	-27472.00	40823.50	0.673 ¹
T13	150 - 125	2L3x3 1/2x3/8x3/8	22.58	7.53	K=1.50 151.0	4.5900	-28183.00	45461.50	0.620 ¹
T14	125 - 100	2L3x3 1/2x3/8x3/8	23.11	7.70	K=1.50 154.6	4.5900	-31596.00	43391.70	0.728 ¹
T15	100 - 75	2L3x3 1/2x3/8x3/8	22.05	11.02	K=0.96 141.0	4.5900	-35749.40	52184.60	0.685 ¹
T16	75 - 50	2L4x3x3/8x3/8	22.67	11.33	K=1.00 110.3	4.9700	-30036.00	84862.10	0.354 ¹
T17	50 - 25	2L3x4x3/8x3/8	23.31	11.66	K=0.94 149.8	4.9688	-31611.30	50001.30	0.632 ¹
T18	25 - 0	2L4x6x3/8x3/8	23.97	11.99	K=0.99 122.3	7.2200	-33691.00	105639.00	0.319 ¹

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	312.5 - 300	2L3x2 1/2x1/4x3/8	18.13	9.06	K=1.00 115.1	2.6300	-5858.60	42434.40	0.138 ¹
T5	300 - 287.5	2L3x2 1/2x1/4x3/8	20.00	10.00	K=0.99 125.4	2.6300	-6593.40	37255.60	0.177 ¹
T6	287.5 - 275	2L2 1/2x2 1/2x1/4x3/8	21.88	10.94	K=0.93 158.7	2.3800	-7072.53	21360.30	0.331 ¹
T7	275 - 262.5	2L2 1/2x2 1/2x1/4x3/8	23.75	11.88	K=0.92 169.8	2.3800	-7710.49	18647.80	0.413 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T8	262.5 - 250	2L2 1/2x2 1/2x1/4x3/8	25.63	12.81	180.9 K=0.91	2.3800	-8752.33	16420.90	0.533 ¹ ✓
T9	250 - 225	2L3x2 1/2x1/4x3/8	27.50	13.75	161.6 K=0.93	2.6300	-11983.10	22738.20	0.527 ¹ ✓
T10	225 - 200	2L3x2 1/2x1/4x3/8	31.25	15.63	179.8 K=0.91	2.6300	-9763.39	18380.70	0.531 ¹ ✓
T11	200 - 175	2L3 1/2x2 1/2x1/4x3/8	35.00	17.50	171.5 K=0.91	2.8800	-17797.30	22127.40	0.804 ¹ ✓
T12	175 - 150	2L3 1/2x2 1/2x5/16x3/8	38.75	14.53	59.5 K=0.25	3.5500	-34894.90	95433.90	0.366 ¹ ✓
T13	150 - 125	2L 'a' > 16.0504 in - 381 2L3 1/2x3x5/16x3/8	42.50	15.94	52.1 K=0.25	3.8700	-44154.30	108662.00	0.406 ¹ ✓
T14	125 - 100	2L 'a' > 20.4398 in - 490 2L4x3 1/2x5/16x3/8	46.25	17.34	47.0 K=0.25	4.4900	-49572.80	129514.00	0.383 ¹ ✓
T15	100 - 75	2L 'a' > 22.6088 in - 599 2L3 1/2x3x5/16x3/8	50.00	12.50	68.2 K=0.50	3.8700	-39852.50	98168.10	0.406 ¹ ✓
T16	75 - 50	2L4x3x5/16x3/8	53.75	13.44	72.3 K=0.50	4.1800	-35355.40	102878.00	0.344 ¹ ✓
T17	50 - 25	2L5x3 1/2x3/8x3/8	57.50	14.38	66.9 K=0.50	6.0900	-54947.50	155845.00	0.353 ¹ ✓
T18	25 - 0	2L5x3 1/2x3/8x3/8	61.25	15.31	70.4 K=0.50	6.0900	-49272.60	152036.00	0.324 ¹ ✓

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 336.834	L3x3x1/4	13.42	13.42	103.3 K=0.60	1.4400	-262.85	26610.70	0.010 ¹ ✓
T2	336.834 - 325	L3x2 1/2x1/4	15.31	15.31	121.4 K=0.50	1.3100	-231.86	19544.10	0.012 ¹ ✓
T3	325 - 312.5	L3x2 1/2x1/4	17.14	17.14	130.3 K=0.48	1.3100	-250.18	17355.90	0.014 ¹ ✓

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 336.834	2L2 1/2x2 1/2x1/4x3/8	12.50	12.50	166.2 K=0.85	2.3800	-208.99	19474.20	0.011 ¹ ✓
T2	336.834 - 325	2L2 1/2x2 1/2x1/4x3/8	14.47	14.47	185.1 K=0.82	2.3800	-1411.44	15690.60	0.090 ¹ ✓
T3	325 - 312.5	2L2 1/2x2 1/2x1/4x3/8 KL/R > 200 (C) - 45	16.25	16.25	202.1 K=0.80	2.3800	-1733.51	13157.50	0.132 ¹ ✓

¹ P_u / φP_n controls

Redundant Horizontal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	312.5 - 300	L2 1/2x2x3/16	4.53	4.53	114.1 K=0.90	0.8090	-438.80	13204.90	0.033 ¹ ✓
T5	300 - 287.5	L2 1/2x2x3/16	5.00	5.00	119.7 K=0.85	0.8090	-506.10	12325.50	0.041 ¹ ✓
T6	287.5 - 275	L2 1/2x2 1/2x3/16	5.47	5.47	116.3 K=0.88	0.9020	-573.28	14330.90	0.040 ¹ ✓
T7	275 - 262.5	L2 1/2x2 1/2x3/16	5.94	5.94	122.3 K=0.85	0.9020	-784.70	13289.50	0.059 ¹ ✓
T8	262.5 - 250	L2 1/2x2 1/2x3/16	6.41	6.41	132.0 K=0.85	0.9020	-1203.28	11677.20	0.103 ¹ ✓
T9	250 - 225	2L2 1/2x2 1/2x1/4x3/8	4.58	4.58	62.7 K=0.85	2.3800	-7939.63	62691.70	0.127 ¹ ✓
T10	225 - 200	2L 'a' > 22.3871 in - 227 2L2 1/2x2 1/2x1/4x3/8	5.21	5.21	69.1 K=0.85	2.3800	-5777.46	59980.20	0.096 ¹ ✓
T11	200 - 175	2L2 1/2x2 1/2x1/4x3/8	5.83	5.83	77.4 K=0.85	2.3800	-1893.46	56266.40	0.034 ¹ ✓
T12	175 - 150	2L2 1/2x2 1/2x1/4x3/8	3.39	3.39	40.3 K=0.45	2.3800	-1900.08	70799.70	0.027 ¹ ✓
T13	150 - 125	2L 'a' > 8.7543 in - 453 2L2 1/2x2 1/2x1/4x3/8	3.70	3.70	44.0 K=0.45	2.3800	-1877.29	69641.50	0.027 ¹ ✓
T14	125 - 100	2L 'a' > 9.5624 in - 562 2L2 1/2x2 1/2x1/4x3/8	4.01	4.01	47.7 K=0.45	2.3800	-1788.39	68402.60	0.026 ¹ ✓
T15	100 - 75	2L 'a' > 10.3705 in - 601 2L3x2 1/2x1/4x3/8	6.56	6.56	55.2 K=0.45	2.6300	-7425.61	72573.30	0.102 ¹ ✓
T16	75 - 50	2L 'a' > 14.8500 in - 710 2L3x2 1/2x1/4x3/8	7.03	7.03	56.5 K=0.45	2.6300	-6008.84	72019.50	0.083 ¹ ✓
T17	50 - 25	2L 'a' > 15.9107 in - 854 2L3 1/2x2 1/2x1/4x3/8	7.50	7.50	57.7 K=0.45	2.8800	-3578.43	78320.10	0.046 ¹ ✓
T18	25 - 0	2L 'a' > 15.1596 in - 880 2L3 1/2x2 1/2x1/4x3/8	7.97	7.97	59.2	2.8800	-822.60	77589.80	0.011 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
					K=0.45				✓
2L 'a' > 16.1071 in - 965									

¹ P_u / φP_n controls

Redundant Horizontal (2) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	250 - 225	2L2 1/2x2 1/2x1/4x3/8	9.17	9.17	121.6 K=0.85	2.3800	-2765.07	35410.30	0.078 ¹ ✓
T10	225 - 200	2L2 1/2x2 1/2x1/4x3/8	10.42	10.42	138.2 K=0.85	2.3800	-9227.90	28165.10	0.328 ¹ ✓
T11	200 - 175	2L2 1/2x2 1/2x1/4x3/8	11.67	11.67	154.7 K=0.85	2.3800	-9962.53	22453.10	0.444 ¹ ✓
T12	175 - 150	2L2 1/2x2 1/2x1/4x3/8	6.77	6.77	57.7 K=0.45	2.3800	-576.41	64701.30	0.009 ¹ ✓
T13	150 - 125	2L 'a' > 17.5086 in - 384 2L2 1/2x2 1/2x1/4x3/8	7.40	7.40	59.3 K=0.45	2.3800	-764.42	64083.30	0.012 ¹ ✓
T14	125 - 100	2L 'a' > 19.1248 in - 493 2L2 1/2x2 1/2x1/4x3/8	8.02	8.02	60.9 K=0.45	2.3800	-1182.24	63417.40	0.019 ¹ ✓
T15	100 - 75	2L 'a' > 20.7410 in - 602 2L3x2 1/2x1/4x3/8	13.13	13.13	77.5 K=0.45	2.6300	-1430.26	62132.70	0.023 ¹ ✓
T16	75 - 50	2L3x2 1/2x1/4x3/8	14.06	14.06	81.1 K=0.45	2.6300	-3958.65	60257.60	0.066 ¹ ✓
T17	50 - 25	2L3 1/2x2 1/2x1/4x3/8	15.00	15.00	86.4 K=0.45	2.8800	-4555.11	62976.80	0.072 ¹ ✓
T18	25 - 0	2L3 1/2x2 1/2x1/4x3/8	15.94	15.94	90.4 K=0.45	2.8800	-1561.19	60660.40	0.026 ¹ ✓

¹ P_u / φP_n controls

Redundant Horizontal (3) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L2 1/2x2 1/2x1/4x3/8	10.16	10.16	71.3 K=0.45	2.3800	-1843.77	58997.40	0.031 ¹ ✓
T13	150 - 125	2L2 1/2x2 1/2x1/4x3/8	11.09	11.09	77.9 K=0.45	2.3800	-2816.96	56023.90	0.050 ¹ ✓
T14	125 - 100	2L2 1/2x2 1/2x1/4x3/8	12.03	12.03	84.5 K=0.45	2.3800	-2753.65	52958.10	0.052 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
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¹ P_u / φP_n controls

Redundant Diagonal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	312.5 - 300	2L2 1/2x2x3/16x3/8	7.47	7.47	99.9 K=0.85	1.6200	-492.95	31050.70	0.016 ¹ ✓
T5	300 - 287.5	2L2 1/2x2x3/16x3/8	7.73	7.73	102.3 K=0.85	1.6200	-560.83	30256.80	0.019 ¹ ✓
T6	287.5 - 275	2L2 1/2x2 1/2x3/16x3/8	8.02	8.02	105.1 K=0.85	1.8000	-512.75	32598.40	0.016 ¹ ✓
T7	275 - 262.5	2L2 1/2x2 1/2x3/16x3/8	8.32	8.32	109.1 K=0.85	1.8000	-650.26	31182.60	0.021 ¹ ✓
T8	262.5 - 250	2L2 1/2x2 1/2x3/16x3/8	8.63	8.63	113.2 K=0.85	1.8000	-1423.10	29709.80	0.048 ¹ ✓
T9	250 - 225	2L2 1/2x2x3/16x3/8	9.25	9.25	118.9 K=0.85	1.6200	-3251.47	24925.00	0.130 ¹ ✓
T10	225 - 200	2L2 1/2x2x3/16x3/8	9.53	9.53	122.6 K=0.85	1.6200	-8791.87	23792.50	0.370 ¹ ✓
T11	200 - 175	2L3x2x3/16x3/8	9.85	9.85	126.7 K=0.85	1.8000	-2404.03	24913.60	0.096 ¹ ✓
T12	175 - 150	2L1 1/2x1 1/2x1/8	6.91	6.91	80.2 K=0.45	0.7188	-2704.75	16591.50	0.163 ¹ ✓
T13	150 - 125	2L1 1/2x1 1/2x1/8	7.05	7.05	81.8 K=0.45	0.7188	-2495.92	16367.00	0.152 ¹ ✓
T14	125 - 100	2L1 1/2x1 1/2x1/8	7.20	7.20	83.6 K=0.45	0.7188	-3037.38	16123.10	0.188 ¹ ✓
T15	100 - 75	2L2 1/2x2 1/2x3/16x3/8	10.25	10.25	71.2 K=0.45	1.8000	-2383.38	44675.30	0.053 ¹ ✓
T16	75 - 50	2L2 1/2x2 1/2x3/16x3/8	10.53	10.53	73.1 K=0.45	1.8000	-6751.91	44024.50	0.153 ¹ ✓
T17	50 - 25	2L2 1/2x2 1/2x3/16x3/8	10.82	10.82	75.1 K=0.45	1.8000	-624.58	43334.80	0.014 ¹ ✓
T18	25 - 0	2L2 1/2x2 1/2x3/16x3/8	11.13	11.13	77.2 K=0.45	1.8000	-143.82	42608.40	0.003 ¹ ✓

¹ P_u / φP_n controls

Redundant Diagonal (2) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	250 - 225	2L2 1/2x2x3/16x3/8	11.95	11.95	153.7	1.6200	-773.13	15491.30	0.050 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T10	225 - 200	2L2 1/2x2x3/16x3/8	12.87	12.87	K=0.85 165.6	1.6200	-5125.50	13349.00	0.384 ¹ ✓
T11	200 - 175	2L3x2x3/16x3/8	13.85	13.85	K=0.85 169.7	1.8000	-5527.14	14114.90	0.392 ¹ ✓
T12	175 - 150	2L3x3x3/16x3/8	8.89	8.89	K=0.85 53.2	2.1800	-150.03	59089.10	0.003 ¹ ✓
T13	150 - 125	2L 'a' > 22.8478 in - 414 2L3x3x3/16x3/8	9.34	9.34	K=0.45 54.4	2.1800	-237.00	58709.90	0.004 ¹ ✓
T14	125 - 100	2L3x3x3/16x3/8	9.81	9.81	K=0.45 56.4	2.1800	-1078.81	58034.20	0.019 ¹ ✓
T15	100 - 75	2L3x2 1/2x1/4x3/8	15.04	15.04	K=0.45 85.9	2.6300	-11335.40	57771.80	0.196 ¹ ✓
T16	75 - 50	2L3 1/2x2 1/2x1/4x3/8	15.82	15.82	K=0.45 90.0	2.8800	-12094.00	60943.40	0.198 ¹ ✓
T17	50 - 25	2L3 1/2x2 1/2x1/4x3/8	16.63	16.63	K=0.45 93.4	2.8800	-12957.80	58924.50	0.220 ¹ ✓
T18	25 - 0	2L3 1/2x3x1/4x3/8	17.44	17.44	K=0.45 84.9	3.1300	-15002.70	69411.00	0.216 ¹ ✓

¹ P_u / φP_n controls

Redundant Diagonal (3) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L2 1/2x2x1/4x3/8	11.54	11.54	K=0.45 87.4	2.1300	-13785.10	46147.20	0.299 ¹ ✓
T13	150 - 125	2L2 1/2x2 1/2x1/4x3/8	12.34	12.34	K=0.45 86.6	2.3800	-15009.10	51947.50	0.289 ¹ ✓
T14	125 - 100	2L3x2x1/4x3/8	13.15	13.15	K=0.45 96.9	2.3800	-17160.10	47018.20	0.365 ¹ ✓

¹ P_u / φP_n controls

Redundant Hip (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4	4.79	4.79	K=0.65 40.2	2.8800	-329.11	85718.10	0.004 ¹ ✓
T13	150 - 125	2L3x3x1/4	5.23	5.23	K=0.65 43.9	2.8800	-347.68	84324.30	0.004 ¹ ✓
T14	125 - 100	2L3x3x1/4	5.67	5.67	K=0.65 47.6	2.8800	-339.29	82833.20	0.004 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T15	100 - 75	2L3x3x1/4	9.28	9.28	K=0.65 77.8	2.8800	-147.13	67828.50	0.002 ¹ ✓
T16	75 - 50	2L3x3x1/4	9.94	9.94	K=0.65 83.4	2.8800	-127.39	64701.80	0.002 ¹ ✓
T17	50 - 25	2L3x3x1/4	10.61	10.61	K=0.65 89.0	2.8800	-205.76	61518.60	0.003 ¹ ✓
T18	25 - 0	2L3x3x1/4	11.27	11.27	K=0.65 94.5	2.8800	-392.92	58302.00	0.007 ¹ ✓

¹ P_u / φP_n controls

Redundant Hip (2) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	250 - 225	2L3x3x1/4	12.96	12.96	K=0.85 142.2	2.8800	-189.97	32184.40	0.006 ¹ ✓
T10	225 - 200	2L3x3x1/4	14.73	14.73	K=0.85 161.6	2.8800	-556.39	24923.60	0.022 ¹ ✓
T11	200 - 175	2L3x3x1/4	16.50	16.50	K=0.85 181.0	2.8800	-198.01	19868.90	0.010 ¹ ✓
T12	175 - 150	2L3x3x1/4	9.58	9.58	K=0.65 80.3	2.8800	-183.76	66447.30	0.003 ¹ ✓
T13	150 - 125	2L3x3x1/4	10.46	10.46	K=0.65 87.7	2.8800	-181.35	62229.70	0.003 ¹ ✓
T14	125 - 100	2L3x3x1/4	11.34	11.34	K=0.65 95.1	2.8800	-161.34	57943.50	0.003 ¹ ✓
T15	100 - 75	2L3x3x1/4	18.56	18.56	K=0.65 155.7	2.8800	-5188.40	26846.10	0.193 ¹ ✓
T16	75 - 50	2L3x3x1/4	19.89	19.89	K=0.65 166.8	2.8800	-4417.16	23385.90	0.189 ¹ ✓
T17	50 - 25	2L3x3x1/4	21.21	21.21	K=0.65 177.9	2.8800	-3436.23	20554.00	0.167 ¹ ✓
T18	25 - 0	2L3x3x1/4	22.54	22.54	K=0.65 189.0	2.8800	-4030.27	18207.00	0.221 ¹ ✓

¹ P_u / φP_n controls

Redundant Hip (3) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4	14.36	14.36	K=0.65 120.5	2.8800	-850.20	43466.30	0.020 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T13	150 - 125	2L3x3x1/4	15.69	15.69	131.6 K=0.65	2.8800	-1246.49	37503.60	0.033 ¹ ✓
T14	125 - 100	2L3x3x1/4	17.01	17.01	142.7 K=0.65	2.8800	-2038.43	31949.00	0.064 ¹ ✓

¹ P_u / φP_n controls

Redundant Hip Diagonal (1) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4	10.00	10.00	58.1 K=0.45	2.8800	-399.94	78139.20	0.005 ¹ ✓
T13	150 - 125	2L3x3x1/4	10.55	10.55	61.3 K=0.45	2.8800	-383.13	76579.40	0.005 ¹ ✓
T14	125 - 100	2L3x3x1/4	11.12	11.12	64.6 K=0.45	2.8800	-348.30	74920.80	0.005 ¹ ✓
T15	100 - 75	2L3x3x1/4	17.14	17.14	99.5 K=0.45	2.8800	-163.61	55398.50	0.003 ¹ ✓
T16	75 - 50	2L3x3x1/4	18.06	18.06	104.9 K=0.45	2.8800	-143.99	52298.30	0.003 ¹ ✓
T17	50 - 25	2L3x3x1/4	19.00	19.00	110.3 K=0.45	2.8800	-163.14	49179.40	0.003 ¹ ✓
T18	25 - 0	2L3x3x1/4	19.94	19.94	115.8 K=0.45	2.8800	-264.64	46066.50	0.006 ¹ ✓

¹ P_u / φP_n controls

Redundant Hip Diagonal (2) Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4	13.84	13.84	80.4 K=0.45	2.8800	-183.61	66403.80	0.003 ¹ ✓
T13	150 - 125	2L3x3x1/4	14.86	14.86	86.3 K=0.45	2.8800	-170.85	63064.60	0.003 ¹ ✓
T14	125 - 100	2L3x3x1/4	15.89	15.89	92.2 K=0.45	2.8800	-164.89	59624.00	0.003 ¹ ✓

¹ P_u / φP_n controls

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Redundant Sub-Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4x3/8	19.38	19.38	78.2 K=0.40	2.8800	-14116.60	67610.60	0.209 ¹ ✓
T13	150 - 125	2L3x3 1/2x1/4x3/8	21.25	21.25	72.6 K=0.40	3.1300	-15699.20	76849.80	0.204 ¹ ✓
T14	125 - 100	2L3x4x5/16x3/8	23.13	23.13	68.4 K=0.40	4.1800	-18135.00	105837.00	0.171 ¹ ✓
T15	100 - 75	2L3x3 1/2x1/4x3/8	25.00	25.00	131.3 K=0.40	3.1300	-6982.38	40925.00	0.171 ^{*1} ✓
T16	75 - 50	2L3x3 1/2x1/4x3/8	26.88	26.88	141.1 K=0.40	3.1300	-7209.68	35497.40	0.203 ^{*1} ✓
T17	50 - 25	2L3x4x1/4x3/8	28.75	28.75	154.0 K=0.40	3.3800	-8766.33	32189.50	0.272 ^{*1} ✓
T18	25 - 0	2L3 1/2x4x1/4x3/8	30.63	30.63	137.4 K=0.40	3.6300	-10238.80	43449.00	0.236 ¹ ✓

* DL controls

¹ P_u / φP_n controls

Redundant Sub Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x2x1/4x3/8	7.92	7.92	69.7 K=0.40	2.3800	-24045.70	59688.90	0.403 ¹ ✓
T13	150 - 125	2L 'a' > 13.9220 in - 399 2L3 1/2x2 1/2x1/4x3/8	8.22	8.22	57.1 K=0.40	2.8800	-26467.70	78615.40	0.337 ¹ ✓
T14	125 - 100	2L 'a' > 14.7619 in - 508 2L3 1/2x2 1/2x1/4x3/8	8.53	8.53	57.9 K=0.40	2.8800	-28416.40	78199.20	0.363 ¹ ✓
T15	100 - 75	2L 'a' > 15.3199 in - 617 2L4x3x5/16x3/8	15.04	15.04	66.8 K=0.40	4.1800	-40610.10	107101.00	0.379 ¹ ✓
T16	75 - 50	2L4x3x3/8x3/8	15.82	15.82	68.9 K=0.40	4.9700	-36301.80	125397.00	0.289 ¹ ✓
T17	50 - 25	2L4x3 1/2x3/8x3/8	16.63	16.63	63.8 K=0.40	5.3400	-45354.10	139598.00	0.325 ¹ ✓
T18	25 - 0	2L5x3 1/2x3/8x3/8	17.44	17.44	65.4 K=0.40	6.0900	-43835.90	157500.00	0.278 ¹ ✓

¹ P_u / φP_n controls

Redundant Vertical Design Data (Compression)

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T15	100 - 75	2L2 1/2x2 1/2x1/4x3/8	8.36	8.36	110.8 K=0.85	2.3800	-698.99	40384.80	0.017 ¹ ✓
T16	75 - 50	2L2 1/2x2 1/2x1/4x3/8	8.36	8.36	110.8 K=0.85	2.3800	-769.63	40384.80	0.019 ¹ ✓
T17	50 - 25	2L2 1/2x2 1/2x1/4x3/8	8.36	8.36	110.8 K=0.85	2.3800	-979.62	40384.80	0.024 ¹ ✓
T18	25 - 0	2L2 1/2x2 1/2x1/4x3/8	8.36	8.36	110.8 K=0.85	2.3800	-968.20	40384.80	0.024 ¹ ✓

¹ P_u / φP_n controls

Inner Bracing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4x3/8	38.75	38.75	52.6 K=0.10	2.8800	-817.32	80681.60	0.010 ¹ ✓
T13	150 - 125	2L 'a' > 22.2000 in - 485 2L3x3x1/4x3/8	30.05	30.05	48.1 K=0.10	2.8800	-1941.76	82598.40	0.024 ¹ ✓
T14	125 - 100	2L 'a' > 17.2169 in - 593 2L3x3x1/4x3/8	32.70	32.70	49.4 K=0.10	2.8800	-2186.65	82060.90	0.027 ¹ ✓
T15	100 - 75	2L 'a' > 18.7360 in - 702 2L3x3x1/4x3/8	35.36	35.36	50.7 K=0.10	2.8800	-2920.02	81481.90	0.036 ¹ ✓
T16	75 - 50	2L 'a' > 20.2552 in - 785 2L3x3x1/4x3/8	38.01	38.01	52.2 K=0.10	2.8800	-2583.24	80862.30	0.032 ¹ ✓
T17	50 - 25	2L 'a' > 21.7743 in - 870 2L3x3x1/4x3/8	57.50	57.50	74.2 K=0.10	2.8800	-1610.07	69836.60	0.023 ¹ ✓
T18	25 - 0	2L3x3x1/4x3/8	43.31	43.31	55.9 K=0.10	2.8800	-2862.33	79165.30	0.036 ¹ ✓

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 336.834	L6x6x5/8	13.24	13.24	86.3	7.1100	41392.40	211167.00	0.196 ¹
T2	336.834 - 325	L6x6x5/8	11.90	11.90	77.6	7.1100	72430.70	211167.00	0.343 ¹
T3	325 - 312.5	L6x6x7/8	12.57	12.57	83.3	9.7300	61695.00	288981.00	0.213 ¹
T4	312.5 - 300	L6x6x7/8	12.57	6.29	41.7	9.7300	54626.10	288981.00	0.189 ¹
T5	300 - 287.5	L6x6x7/8	12.57	6.29	41.7	9.7300	44553.60	288981.00	0.154 ¹
T6	287.5 - 275	L6x6x7/8	12.57	6.29	41.7	9.7300	35857.90	288981.00	0.124 ¹
T7	275 - 262.5	L8x8x3/4	12.57	6.29	30.5	11.4000	42631.40	338580.00	0.126 ¹
T8	262.5 - 250	L8x8x3/4	12.57	6.29	30.5	11.4000	51665.30	338580.00	0.153 ¹
T9	250 - 225	L8x8x7/8	25.14	8.38	41.0	13.2000	60435.70	392040.00	0.154 ¹
T10	225 - 200	L8x8x1	25.14	8.38	41.2	15.0000	80627.40	445500.00	0.181 ¹
T11	200 - 175	L8x8x1 1/8	25.14	8.38	41.6	16.7000	101725.00	495990.00	0.205 ¹
T12	175 - 150	L8x8x1 1/8	25.14	6.29	31.2	16.7000	110903.00	495990.00	0.224 ¹
T13	150 - 125	L8x8x1 1/8	25.14	6.29	31.2	16.7000	131481.00	495990.00	0.265 ¹
T14	125 - 100	L8x8x1	25.14	6.29	30.9	15.0000	152383.00	445500.00	0.342 ¹
T15	100 - 75	L8x8x1	25.14	8.38	41.2	15.0000	178074.00	445500.00	0.400 ¹
T16	75 - 50	L8x8x1	25.14	8.38	41.2	15.0000	200542.00	445500.00	0.450 ¹
T17	50 - 25	L8x8x1	25.14	8.38	41.2	15.0000	224542.00	445500.00	0.504 ¹
T18	25 - 0	L8x8x1	25.14	8.38	41.2	15.0000	250894.00	445500.00	0.563 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 336.834	L3 1/2x3 1/2x5/16	18.87	10.13	112.5	2.0900	5435.97	67716.00	0.080 ¹
T2	336.834 - 325	L3 1/2x3 1/2x5/16	19.41	10.27	114.1	2.0900	7814.12	67716.00	0.115 ¹
T3	325 - 312.5	L3 1/2x3 1/2x5/16	21.27	11.22	124.6	2.0900	6818.99	67716.00	0.101 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	312.5 - 300	2L2 1/2x2 1/2x1/4x3/8	16.04	16.04	161.7	2.3800	9628.62	77112.00	0.125 ¹ ✓
T5	300 - 287.5	2L2 1/2x2 1/2x1/4x3/8	16.64	16.64	167.8	2.3800	9883.95	77112.00	0.128 ¹ ✓
T6	287.5 - 275	2L2 1/2x2 1/2x1/4x3/8	17.27	17.27	174.1	2.3800	10148.20	77112.00	0.132 ¹ ✓
T7	275 - 262.5	2L2 1/2x2 1/2x1/4x3/8	17.92	17.92	180.8	2.3800	10640.70	77112.00	0.138 ¹ ✓
T8	262.5 - 250	2L2 1/2x2 1/2x1/4x3/8	18.61	18.61	187.6	2.3800	11690.70	77112.00	0.152 ¹ ✓
T9	250 - 225	2L2 1/2x3x5/16x3/8	29.54	29.54	242.7	3.2422	30607.70	105047.00	0.291 ¹ ✓
T10	225 - 200	2L2 1/2x3x5/16x3/8	30.57	30.57	251.2	3.2422	20195.00	105047.00	0.192 ¹ ✓
T11	200 - 175	2L2 1/2x3 1/2x5/16x3/8	31.68	31.68	219.8	3.5500	26536.40	115020.00	0.231 ¹ ✓
T12	175 - 150	2L3x3 1/2x5/16x3/8	22.07	7.36	97.6	3.8700	34009.20	125388.00	0.271 ¹ ✓
T13	150 - 125	2L3x3 1/2x3/8x3/8	22.58	7.53	100.7	4.5900	37530.60	148716.00	0.252 ¹ ✓
T14	125 - 100	2L3x3 1/2x3/8x3/8	23.11	7.70	103.1	4.5900	39422.40	148716.00	0.265 ¹ ✓
T15	100 - 75	2L3x3 1/2x3/8x3/8	22.05	11.02	147.5	4.5900	45303.50	148716.00	0.305 ¹ ✓
T16	75 - 50	2L4x3x3/8x3/8	22.67	11.33	107.9	4.9700	37226.70	161028.00	0.231 ¹ ✓
T17	50 - 25	2L3x4x3/8x3/8	23.31	11.66	159.1	4.9688	44114.30	160988.00	0.274 ¹ ✓
T18	25 - 0	2L4x6x3/8x3/8	23.97	11.99	122.9	7.2200	40933.80	233928.00	0.175 ¹ ✓

¹ P_u / φP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	312.5 - 300	2L3x2 1/2x1/4x3/8	18.13	9.06	144.4	2.6300	7710.84	85212.00	0.090 ¹ ✓
T5	300 - 287.5	2L3x2 1/2x1/4x3/8	20.00	10.00	159.3	2.6300	6543.02	85212.00	0.077 ¹ ✓
T6	287.5 - 275	2L2 1/2x2 1/2x1/4x3/8	21.88	10.94	170.7	2.3800	7040.52	77112.00	0.091 ¹ ✓
T7	275 - 262.5	2L2 1/2x2 1/2x1/4x3/8	23.75	11.88	185.3	2.3800	7683.91	77112.00	0.100 ¹ ✓
T8	262.5 - 250	2L2 1/2x2 1/2x1/4x3/8	25.63	12.81	199.9	2.3800	8736.65	77112.00	0.113 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	250 - 225	2L3x2 1/2x1/4x3/8	27.50	13.75	219.0	2.6300	10528.40	85212.00	0.124 ¹
T10	225 - 200	2L3x2 1/2x1/4x3/8	31.25	15.63	248.9	2.6300	12214.80	85212.00	0.143 ¹
T11	200 - 175	2L3 1/2x2 1/2x1/4x3/8	35.00	17.50	289.0	2.8800	14977.70	93312.00	0.161 ¹
T12	175 - 150	2L3 1/2x2 1/2x5/16x3/8	38.75	14.53	158.5	3.5500	23541.50	115020.00	0.205 ¹
T13	150 - 125	2L 'a' > 16.0504 in - 426 2L3 1/2x3x5/16x3/8	42.50	15.94	173.9	3.8700	27273.40	125388.00	0.218 ¹
T14	125 - 100	2L 'a' > 20.4398 in - 535 2L4x3 1/2x5/16x3/8	46.25	17.34	165.2	4.4900	30789.10	145476.00	0.212 ¹
T15	100 - 75	2L 'a' > 22.6088 in - 644 2L3 1/2x3x5/16x3/8	50.00	12.50	136.4	3.8700	26527.00	125388.00	0.212 ¹
T16	75 - 50	2L4x3x5/16x3/8	53.75	13.44	127.0	4.1800	29310.10	135432.00	0.216 ¹
T17	50 - 25	2L5x3 1/2x3/8x3/8	57.50	14.38	118.2	6.0900	31748.40	197316.00	0.161 ¹
T18	25 - 0	2L5x3 1/2x3/8x3/8	61.25	15.31	125.9	6.0900	35269.30	197316.00	0.179 ¹

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 336.834	L3x3x1/4	13.42	13.42	173.1	1.4400	222.03	46656.00	0.005 ¹
T2	336.834 - 325	L3x2 1/2x1/4	15.31	15.31	244.5	1.3100	197.67	42444.00	0.005 ¹
T3	325 - 312.5	L3x2 1/2x1/4	17.14	17.14	273.6	1.3100	338.87	42444.00	0.008 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	350 - 336.834	2L2 1/2x2 1/2x1/4x3/8	12.50	12.50	195.1	2.3800	123.40	77112.00	0.002 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T2	336.834 - 325	2L2 1/2x2 1/2x1/4x3/8	14.47	14.47	225.9	2.3800	4899.98	77112.00	0.064 ¹
T3	325 - 312.5	2L2 1/2x2 1/2x1/4x3/8	16.25	16.25	253.6	2.3800	7508.70	77112.00	0.097 ¹

¹ P_u / φP_n controls

Redundant Horizontal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	312.5 - 300	L2 1/2x2x3/16	4.53	4.53	90.7	0.8090	774.13	26211.60	0.030 ¹
T5	300 - 287.5	L2 1/2x2x3/16	5.00	5.00	100.0	0.8090	942.89	26211.60	0.036 ¹
T6	287.5 - 275	L2 1/2x2 1/2x3/16	5.47	5.47	84.4	0.9020	964.05	29224.80	0.033 ¹
T7	275 - 262.5	L2 1/2x2 1/2x3/16	5.94	5.94	91.6	0.9020	1243.66	29224.80	0.043 ¹
T8	262.5 - 250	L2 1/2x2 1/2x3/16	6.41	6.41	98.8	0.9020	2245.10	29224.80	0.077 ¹
T9	250 - 225	2L2 1/2x2 1/2x1/4x3/8	4.58	4.58	71.5	2.3800	3324.54	77112.00	0.043 ¹
T10	225 - 200	2L 'a' > 22.3871 in - 267 2L2 1/2x2 1/2x1/4x3/8	5.21	5.21	81.3	2.3800	9729.06	77112.00	0.126 ¹
T11	200 - 175	2L2 1/2x2 1/2x1/4x3/8	5.83	5.83	91.0	2.3800	2988.52	77112.00	0.039 ¹
T12	175 - 150	2L2 1/2x2 1/2x1/4x3/8	3.39	3.39	52.8	2.3800	2912.92	77112.00	0.038 ¹
T13	150 - 125	2L 'a' > 8.7543 in - 435 2L2 1/2x2 1/2x1/4x3/8	3.70	3.70	57.7	2.3800	2909.95	77112.00	0.038 ¹
T14	125 - 100	2L 'a' > 9.5624 in - 544 2L2 1/2x2 1/2x1/4x3/8	4.01	4.01	62.6	2.3800	3400.13	77112.00	0.044 ¹
T15	100 - 75	2L 'a' > 10.3705 in - 608 2L3x2 1/2x1/4x3/8	6.56	6.56	83.3	2.6300	3446.23	85212.00	0.040 ¹
T16	75 - 50	2L 'a' > 14.8500 in - 769 2L3x2 1/2x1/4x3/8	7.03	7.03	89.3	2.6300	9499.11	85212.00	0.111 ¹
T17	50 - 25	2L 'a' > 15.9107 in - 795 2L3 1/2x2 1/2x1/4x3/8	7.50	7.50	82.6	2.8800	1279.18	93312.00	0.014 ¹
T18	25 - 0	2L 'a' > 15.1596 in - 885 2L3 1/2x2 1/2x1/4x3/8	7.97	7.97	87.7	2.8800	412.82	93312.00	0.004 ¹
		2L 'a' > 16.1071 in - 970							

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
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¹ P_u / φP_n controls

Redundant Horizontal (2) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	250 - 225	2L2 1/2x2 1/2x1/4x3/8	9.17	9.17	143.0	2.3800	957.72	77112.00	0.012 ¹ ✓
T10	225 - 200	2L2 1/2x2 1/2x1/4x3/8	10.42	10.42	162.5	2.3800	4685.04	77112.00	0.061 ¹ ✓
T11	200 - 175	2L2 1/2x2 1/2x1/4x3/8	11.67	11.67	182.1	2.3800	7290.56	77112.00	0.095 ¹ ✓
T12	175 - 150	2L2 1/2x2 1/2x1/4x3/8	6.77	6.77	105.7	2.3800	281.42	77112.00	0.004 ¹ ✓
T13	150 - 125	2L 'a' > 17.5086 in - 429 2L2 1/2x2 1/2x1/4x3/8	7.40	7.40	115.4	2.3800	461.72	77112.00	0.006 ¹ ✓
T14	125 - 100	2L 'a' > 19.1248 in - 500 2L2 1/2x2 1/2x1/4x3/8	8.02	8.02	125.2	2.3800	1512.92	77112.00	0.020 ¹ ✓
T15	100 - 75	2L 'a' > 20.7410 in - 609 2L3x2 1/2x1/4x3/8	13.13	13.13	166.7	2.6300	3131.20	85212.00	0.037 ¹ ✓
T16	75 - 50	2L3x2 1/2x1/4x3/8	14.06	14.06	178.6	2.6300	1985.05	85212.00	0.023 ¹ ✓
T17	50 - 25	2L3 1/2x2 1/2x1/4x3/8	15.00	15.00	165.1	2.8800	7155.77	93312.00	0.077 ¹ ✓
T18	25 - 0	2L3 1/2x2 1/2x1/4x3/8	15.94	15.94	175.5	2.8800	1235.76	93312.00	0.013 ¹ ✓

¹ P_u / φP_n controls

Redundant Horizontal (3) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L2 1/2x2 1/2x1/4x3/8	10.16	10.16	158.5	2.3800	1785.64	77112.00	0.023 ¹ ✓
T13	150 - 125	2L2 1/2x2 1/2x1/4x3/8	11.09	11.09	173.1	2.3800	3602.26	77112.00	0.047 ¹ ✓
T14	125 - 100	2L2 1/2x2 1/2x1/4x3/8	12.03	12.03	187.7	2.3800	3640.15	77112.00	0.047 ¹ ✓

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¹ $P_u / \phi P_n$ controls

Redundant Diagonal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	312.5 - 300	2L2 1/2x2x3/16x3/8	7.47	7.47	113.0	1.6200	691.60	52488.00	0.013 ¹
T5	300 - 287.5	2L2 1/2x2x3/16x3/8	7.73	7.73	117.0	1.6200	697.12	52488.00	0.013 ¹
T6	287.5 - 275	2L2 1/2x2 1/2x3/16x3/8	8.02	8.02	123.7	1.8000	667.87	58320.00	0.011 ¹
T7	275 - 262.5	2L2 1/2x2 1/2x3/16x3/8	8.32	8.32	128.3	1.8000	722.58	58320.00	0.012 ¹
T8	262.5 - 250	2L2 1/2x2 1/2x3/16x3/8	8.63	8.63	133.2	1.8000	931.15	58320.00	0.016 ¹
T9	250 - 225	2L2 1/2x2x3/16x3/8	9.25	9.25	139.9	1.6200	8113.67	52488.00	0.155 ¹
T10	225 - 200	2L2 1/2x2x3/16x3/8	9.53	9.53	144.2	1.6200	5441.09	52488.00	0.104 ¹
T11	200 - 175	2L3x2x3/16x3/8	9.85	9.85	134.4	1.8000	1778.13	58320.00	0.030 ¹
T12	175 - 150	2L1 1/2x1 1/2x1/8	6.91	6.91	178.3	0.7188	1919.86	23287.50	0.082 ¹
T13	150 - 125	2L1 1/2x1 1/2x1/8	7.05	7.05	181.9	0.7188	1821.82	23287.50	0.078 ¹
T14	125 - 100	2L1 1/2x1 1/2x1/8	7.20	7.20	185.7	0.7188	1758.93	23287.50	0.076 ¹
T15	100 - 75	2L2 1/2x2 1/2x3/16x3/8	10.25	10.25	158.1	1.8000	6142.52	58320.00	0.105 ¹
T16	75 - 50	2L2 1/2x2 1/2x3/16x3/8	10.53	10.53	162.4	1.8000	4933.62	58320.00	0.085 ¹
T17	50 - 25	2L2 1/2x2 1/2x3/16x3/8	10.82	10.82	166.9	1.8000	3025.41	58320.00	0.052 ¹
T18	25 - 0	2L2 1/2x2 1/2x3/16x3/8	11.13	11.13	171.6	1.8000	1296.60	58320.00	0.022 ¹

¹ $P_u / \phi P_n$ controls

Redundant Diagonal (2) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	250 - 225	2L2 1/2x2x3/16x3/8	11.95	11.95	180.8	1.6200	2605.80	52488.00	0.050 ¹
T10	225 - 200	2L2 1/2x2x3/16x3/8	12.87	12.87	194.8	1.6200	5927.13	52488.00	0.113 ¹
T11	200 - 175	2L3x2x3/16x3/8	13.85	13.85	189.0	1.8000	8156.81	58320.00	0.140 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x3/16x3/8	8.89	8.89	113.6	2.1800	911.26	70632.00	0.013 ¹ ✓
T13	150 - 125	2L 'a' > 22.8478 in - 387 2L3x3x3/16x3/8	9.34	9.34	119.4	2.1800	1114.82	70632.00	0.016 ¹ ✓
T14	125 - 100	2L3x3x3/16x3/8	9.81	9.81	125.4	2.1800	1247.53	70632.00	0.018 ¹ ✓
T15	100 - 75	2L3x2 1/2x1/4x3/8	15.04	15.04	190.9	2.6300	27471.40	85212.00	0.322 ¹ ✓
T16	75 - 50	2L3 1/2x2 1/2x1/4x3/8	15.82	15.82	174.2	2.8800	22855.90	93312.00	0.245 ¹ ✓
T17	50 - 25	2L3 1/2x2 1/2x1/4x3/8	16.63	16.63	183.1	2.8800	23913.30	93312.00	0.256 ¹ ✓
T18	25 - 0	2L3 1/2x3x1/4x3/8	17.44	17.44	188.6	3.1300	29199.20	101412.00	0.288 ¹ ✓

¹ P_u / φP_n controls

Redundant Diagonal (3) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L2 1/2x2x1/4x3/8	11.54	11.54	176.6	2.1300	20956.70	69012.00	0.304 ¹ ✓
T13	150 - 125	2L2 1/2x2 1/2x1/4x3/8	12.34	12.34	192.5	2.3800	25193.40	77112.00	0.327 ¹ ✓
T14	125 - 100	2L3x2x1/4x3/8	13.15	13.15	177.1	2.3800	28366.40	77112.00	0.368 ¹ ✓

¹ P_u / φP_n controls

Redundant Hip (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4	4.79	4.79	61.8	2.8800	212.68	93312.00	0.002 ¹ ✓
T13	150 - 125	2L3x3x1/4	5.23	5.23	67.5	2.8800	224.35	93312.00	0.002 ¹ ✓
T14	125 - 100	2L3x3x1/4	5.67	5.67	73.2	2.8800	233.11	93312.00	0.002 ¹ ✓
T15	100 - 75	2L3x3x1/4	9.28	9.28	119.8	2.8800	54.57	93312.00	0.001 ¹ ✓
T16	75 - 50	2L3x3x1/4	9.94	9.94	128.3	2.8800	44.52	93312.00	0.000 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T17	50 - 25	2L3x3x1/4	10.61	10.61	136.9	2.8800	82.10	93312.00	0.001 ¹
T18	25 - 0	2L3x3x1/4	11.27	11.27	145.4	2.8800	361.41	93312.00	0.004 ¹

¹ P_u / φP_n controls

Redundant Hip (2) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T9	250 - 225	2L3x3x1/4	12.96	12.96	167.3	2.8800	244.29	93312.00	0.003 ¹
T10	225 - 200	2L3x3x1/4	14.73	14.73	190.1	2.8800	2184.07	93312.00	0.023 ¹
T12	175 - 150	2L3x3x1/4	9.58	9.58	123.6	2.8800	81.08	93312.00	0.001 ¹
T13	150 - 125	2L3x3x1/4	10.46	10.46	135.0	2.8800	53.01	93312.00	0.001 ¹
T14	125 - 100	2L3x3x1/4	11.34	11.34	146.4	2.8800	39.55	93312.00	0.000 ¹
T15	100 - 75	2L3x3x1/4	18.56	18.56	239.5	2.8800	853.82	93312.00	0.009 ¹
T16	75 - 50	2L3x3x1/4	19.89	19.89	256.6	2.8800	1223.76	93312.00	0.013 ¹
T17	50 - 25	2L3x3x1/4	21.21	21.21	273.7	2.8800	1091.94	93312.00	0.012 ¹
T18	25 - 0	2L3x3x1/4	22.54	22.54	290.8	2.8800	1172.78	93312.00	0.013 ¹

¹ P_u / φP_n controls

Redundant Hip (3) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4	14.36	14.36	185.3	2.8800	142.54	93312.00	0.002 ¹
T13	150 - 125	2L3x3x1/4	15.69	15.69	202.4	2.8800	262.42	93312.00	0.003 ¹
T14	125 - 100	2L3x3x1/4	17.01	17.01	219.5	2.8800	570.34	93312.00	0.006 ¹

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¹ $P_u / \phi P_n$ controls

Redundant Hip Diagonal (1) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4	10.00	10.00	129.0	2.8800	581.59	93312.00	0.006 ¹
T13	150 - 125	2L3x3x1/4	10.55	10.55	136.2	2.8800	568.09	93312.00	0.006 ¹ ✓
T14	125 - 100	2L3x3x1/4	11.12	11.12	143.5	2.8800	505.48	93312.00	0.005 ¹ ✓
T15	100 - 75	2L3x3x1/4	17.14	17.14	221.2	2.8800	181.08	93312.00	0.002 ¹ ✓
T16	75 - 50	2L3x3x1/4	18.06	18.06	233.0	2.8800	112.15	93312.00	0.001 ¹ ✓
T17	50 - 25	2L3x3x1/4	19.00	19.00	245.1	2.8800	234.65	93312.00	0.003 ¹ ✓
T18	25 - 0	2L3x3x1/4	19.94	19.94	257.3	2.8800	314.84	93312.00	0.003 ¹ ✓

¹ $P_u / \phi P_n$ controls

Redundant Hip Diagonal (2) Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4	13.84	13.84	178.6	2.8800	175.71	93312.00	0.002 ¹
T13	150 - 125	2L3x3x1/4	14.86	14.86	191.7	2.8800	180.66	93312.00	0.002 ¹ ✓
T14	125 - 100	2L3x3x1/4	15.89	15.89	205.0	2.8800	184.46	93312.00	0.002 ¹ ✓

¹ $P_u / \phi P_n$ controls

Redundant Sub-Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4x3/8	19.38	19.38	167.3	2.8800	22431.40	93312.00	0.240 ¹
T13	150 - 125	2L3x3 1/2x1/4x3/8	21.25	21.25	154.5	3.1300	28940.20	101412.00	0.285 ¹ ✓
T14	125 - 100	2L3x4x5/16x3/8	23.13	23.13	156.4	4.1800	32956.00	135432.00	0.243 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T15	100 - 75	2L3x3 1/2x1/4x3/8	25.00	25.00	328.2	3.1300	29538.20	101412.00	0.291 ¹ ✓
T16	75 - 50	2L3x3 1/2x1/4x3/8	26.88	26.88	352.8	3.1300	23811.80	101412.00	0.235 ¹ ✓
T17	50 - 25	2L3x4x1/4x3/8	28.75	28.75	385.0	3.3800	32398.40	109512.00	0.296 ¹ ✓
T18	25 - 0	2L3 1/2x4x1/4x3/8	30.63	30.63	343.5	3.6300	35331.70	117612.00	0.300 ¹ ✓

¹ P_u / φP_n controls

Redundant Sub Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x2x1/4x3/8	7.92	7.92	106.7	2.3800	23266.50	77112.00	0.302 ¹ ✓
T13	150 - 125	2L 'a' > 13.9220 in - 400 2L3 1/2x2 1/2x1/4x3/8	8.22	8.22	90.5	2.8800	25553.00	93312.00	0.274 ¹ ✓
T14	125 - 100	2L 'a' > 14.7619 in - 509 2L3 1/2x2 1/2x1/4x3/8	8.53	8.53	93.9	2.8800	27295.70	93312.00	0.293 ¹ ✓
T15	100 - 75	2L 'a' > 15.3199 in - 618 2L4x3x5/16x3/8	15.04	15.04	142.1	4.1800	37826.70	135432.00	0.279 ¹ ✓
T16	75 - 50	2L4x3x3/8x3/8	15.82	15.82	150.7	4.9700	33345.80	161028.00	0.207 ¹ ✓
T17	50 - 25	2L4x3 1/2x3/8x3/8	16.63	16.63	159.6	5.3400	41955.70	173016.00	0.242 ¹ ✓
T18	25 - 0	2L5x3 1/2x3/8x3/8	17.44	17.44	143.4	6.0900	40034.10	197316.00	0.203 ¹ ✓

¹ P_u / φP_n controls

Redundant Vertical Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T16	75 - 50	2L2 1/2x2 1/2x1/4x3/8	8.36	8.36	130.4	2.3800	718.63	77112.00	0.009 ¹ ✓
T18	25 - 0	2L2 1/2x2 1/2x1/4x3/8	8.36	8.36	130.4	2.3800	44.41	77112.00	0.001 ¹ ✓

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¹ $P_u / \phi P_n$ controls

Inner Bracing Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	175 - 150	2L3x3x1/4x3/8	27.40	27.40	353.6	2.8800	1076.32	93312.00	0.012 ¹ ✓
T13	150 - 125	2L 'a' > 15.6978 in - 481 2L3x3x1/4x3/8	30.05	30.05	387.8	2.8800	1348.61	93312.00	0.014 ¹ ✓
T14	125 - 100	2L 'a' > 17.2169 in - 592 2L3x3x1/4x3/8	46.25	46.25	596.8	2.8800	1431.46	93312.00	0.015 ¹ ✓
T15	100 - 75	L/R > 500 (T) - 703 2L3x3x1/4x3/8	50.00	50.00	645.2	2.8800	2150.87	93312.00	0.023 ¹ ✓
T16	75 - 50	L/R > 500 (T) - 788 2L3x3x1/4x3/8	53.75	53.75	693.5	2.8800	1503.04	93312.00	0.016 ¹ ✓
T17	50 - 25	L/R > 500 (T) - 873 2L3x3x1/4x3/8	57.50	57.50	741.9	2.8800	1734.12	93312.00	0.019 ¹ ✓
T18	25 - 0	L/R > 500 (T) - 958 2L3x3x1/4x3/8	43.31	43.31	558.8	2.8800	1909.06	93312.00	0.020 ¹ ✓
		L/R > 500 (T) - 1039							✓

¹ $P_u / \phi P_n$ controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T1	350 - 336.834	Leg	L6x6x5/8	4	-71250.70	169684.00	42.0	Pass
		Diagonal	L3 1/2x3 1/2x5/16	13	-9389.65	17810.90	52.7	Pass
		Secondary Horizontal	L3x3x1/4	17	-262.85	26610.70	1.0	Pass
T2	336.834 - 325	Top Girt	2L2 1/2x2 1/2x1/4x3/8	5	-208.99	19474.20	1.1	Pass
		Leg	L6x6x5/8	24	-140939.00	176965.00	79.6	Pass
		Diagonal	L3 1/2x3 1/2x5/16	33	-13459.20	17414.70	77.3	Pass
T3	325 - 312.5	Secondary Horizontal	L3x2 1/2x1/4	38	-231.86	19544.10	1.2	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	25	-1411.44	15690.60	9.0	Pass
		Leg	L6x6x7/8	44	-137915.00	236473.00	58.3	Pass
T4	312.5 - 300	Diagonal	L3 1/2x3 1/2x5/16	53	-10462.10	15029.30	69.6	Pass
		Secondary Horizontal	L3x2 1/2x1/4	58	-250.18	17355.90	1.4	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	45	-1733.51	13157.50	13.2	Pass
		Leg	L6x6x7/8	64	-139796.00	236473.00	59.1	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	80	-9875.82	18841.80	52.4	Pass
		Horizontal	2L3x2 1/2x1/4x3/8	79	-5858.60	42434.40	13.8	Pass
		Redund Horiz 1 Bracing	L2 1/2x2x3/16	70	-438.80	13204.90	3.3	Pass
		Redund Diag 1	2L2 1/2x2x3/16x3/8	85	-492.95	31050.70	1.6	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T5	300 - 287.5	Bracing						
		Leg	L6x6x7/8	96	-136500.00	236473.00	57.7	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	112	-10159.60	17610.00	57.7	Pass
		Horizontal	2L3x2 1/2x1/4x3/8	111	-6593.40	37255.60	17.7	Pass
		Redund Horz 1	L2 1/2x2x3/16	120	-506.10	12325.50	4.1	Pass
		Bracing						
T6	287.5 - 275	Redund Diag 1	2L2 1/2x2x3/16x3/8	117	-560.83	30256.80	1.9	Pass
		Bracing						
		Leg	L6x6x7/8	128	-134785.00	236473.00	57.0	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	144	-10434.20	16439.10	63.5	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	143	-7072.53	21360.30	33.1	Pass
		Redund Horz 1	L2 1/2x2 1/2x3/16	152	-573.28	14330.90	4.0	Pass
T7	275 - 262.5	Bracing						
		Redund Diag 1	2L2 1/2x2 1/2x3/16x3/8	149	-512.75	32598.40	1.6	Pass
		Bracing						
		Leg	L8x8x3/4	160	-135273.00	303324.00	44.6	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	176	-10957.80	15335.60	71.5	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	175	-7710.49	18647.80	41.3	Pass
T8	262.5 - 250	Redund Horz 1	L2 1/2x2 1/2x3/16	163	-784.70	13289.50	5.9	Pass
		Bracing						
		Redund Diag 1	2L2 1/2x2 1/2x3/16x3/8	181	-650.26	31182.60	2.1	Pass
		Bracing						
		Leg	L8x8x3/4	192	-135812.00	303324.00	44.8	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	215	-11971.40	19324.20	62.0	Pass
T9	250 - 225	Horizontal	2L2 1/2x2 1/2x1/4x3/8	207	-8752.33	16420.90	53.3	Pass
		Redund Horz 1	L2 1/2x2 1/2x3/16	216	-1203.28	11677.20	10.3	Pass
		Bracing						
		Redund Diag 1	2L2 1/2x2 1/2x3/16x3/8	206	-1423.10	29709.80	4.8	Pass
		Bracing						
		Leg	L8x8x7/8	224	-140922.00	321624.00	43.8	Pass
T10	225 - 200	Diagonal	2L2 1/2x3x5/16x3/8	231	-24456.30	67130.40	36.4	Pass
		Horizontal	2L3x2 1/2x1/4x3/8	260	-11983.10	22738.20	52.7	Pass
		Redund Horz 1	2L2 1/2x2 1/2x1/4x3/8	227	-7939.63	62691.70	12.7	Pass
		Bracing						
		Redund Horz 2	2L2 1/2x2 1/2x1/4x3/8	228	-2765.07	35410.30	7.8	Pass
		Bracing						
		Redund Diag 1	2L2 1/2x2x3/16x3/8	229	8113.67	52488.00	15.5	Pass
		Bracing						
		Redund Diag 2	2L2 1/2x2x3/16x3/8	235	-773.13	15491.30	5.0	Pass
		Bracing						
		Redund Hip 2	2L3x3x1/4	247	-189.97	32184.40	0.6	Pass
		Bracing						
T11	200 - 175	Leg	L8x8x1 1/8	276	-147171.00	364552.00	40.4	Pass
		Diagonal	2L2 1/2x3x5/16x3/8	301	-17249.40	65536.50	26.3	Pass
		Horizontal	2L3x2 1/2x1/4x3/8	288	-9763.39	18380.70	53.1	Pass
		Redund Horz 1	2L2 1/2x2 1/2x1/4x3/8	279	9729.06	77112.00	12.6	Pass
		Bracing						
		Redund Horz 2	2L2 1/2x2 1/2x1/4x3/8	315	-9227.90	28165.10	32.8	Pass
		Bracing						
		Redund Diag 1	2L2 1/2x2x3/16x3/8	281	-8791.87	23792.50	37.0	Pass
		Bracing						
		Redund Diag 2	2L2 1/2x2x3/16x3/8	310	-5125.50	13349.00	38.4	Pass
		Bracing						
		Redund Hip 2	2L3x3x1/4	323	2184.07	93312.00	2.3	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
T12	175 - 150	Bracing							
		Redund Diag 1	2L3x2x3/16x3/8	338	-2404.03	24913.60	9.6	Pass	
		Bracing							
		Redund Diag 2	2L3x2x3/16x3/8	334	-5527.14	14114.90	39.2	Pass	
		Bracing							
		Redund Hip 2	2L3x3x1/4	351	-198.01	19868.90	1.0	Pass	
		Bracing							
		Leg	L8x8x1 1/8	379	-166775.00	407491.00	40.9	Pass	
		Diagonal	2L3x3 1/2x5/16x3/8	389	-27472.00	40823.50	67.3	Pass	
		Horizontal	2L3 1/2x2 1/2x5/16x3/8	381	-34894.90	95433.90	36.6	Pass	
		Redund Horz 1	2L2 1/2x2 1/2x1/4x3/8	435	2912.92	77112.00	3.8	Pass	
		Bracing							
		Redund Horz 2	2L2 1/2x2 1/2x1/4x3/8	384	-576.41	64701.30	0.9	Pass	
		Bracing							
		Redund Horz 3	2L2 1/2x2 1/2x1/4x3/8	456	-1843.77	58997.40	3.1	Pass	
		Bracing							
		Redund Diag 1	2L1 1/2x1 1/2x1/8	437	-2704.75	16591.50	16.3	Pass	
		Bracing							
		Redund Diag 2	2L3x3x3/16x3/8	387	911.26	70632.00	1.3	Pass	
		Bracing							
		Redund Diag 3	2L2 1/2x2x1/4x3/8	388	20956.70	69012.00	30.4	Pass	
		Bracing							
		Redund Hip 1	2L3x3x1/4	472	-329.11	85718.10	0.4	Pass	
Bracing									
Redund Hip 2	2L3x3x1/4	468	-95.62	66447.30	0.5	Pass			
Bracing									
Redund Hip 3	2L3x3x1/4	420	-850.20	43466.30	2.0	Pass			
Bracing									
Redund Hip Diagonal 1 Bracing	2L3x3x1/4	474	581.59	93312.00	0.6	Pass			
Redund Hip Diagonal 2 Bracing	2L3x3x1/4	421	-170.64	66403.80	0.6	Pass			
Redund Sub Horz	2L3x3x1/4x3/8	396	22431.40	93312.00	24.0	Pass			
Bracing									
Redund Sub	2L3x2x1/4x3/8	399	-24045.70	59688.90	40.3	Pass			
Diagonal Bracing									
Inner Bracing	2L3x3x1/4x3/8	485	-817.32	80681.60	1.9	Pass			
Leg	L8x8x1 1/8	488	-199870.00	407491.00	49.0	Pass			
Diagonal	2L3x3 1/2x3/8x3/8	498	-28183.00	45461.50	62.0	Pass			
Horizontal	2L3 1/2x3x5/16x3/8	490	-44154.30	108662.00	40.6	Pass			
Redund Horz 1	2L2 1/2x2 1/2x1/4x3/8	544	2909.95	77112.00	3.8	Pass			
Bracing									
Redund Horz 2	2L2 1/2x2 1/2x1/4x3/8	493	-764.42	64083.30	1.2	Pass			
Bracing									
Redund Horz 3	2L2 1/2x2 1/2x1/4x3/8	565	-2816.96	56023.90	5.0	Pass			
Bracing									
Redund Diag 1	2L1 1/2x1 1/2x1/8	546	-2495.92	16367.00	15.2	Pass			
Bracing									
Redund Diag 2	2L3x3x3/16x3/8	496	1114.82	70632.00	1.6	Pass			
Bracing									
Redund Diag 3	2L2 1/2x2 1/2x1/4x3/8	497	25193.40	77112.00	32.7	Pass			
Bracing									
Redund Hip 1	2L3x3x1/4	581	-347.68	84324.30	0.4	Pass			
Bracing									
Redund Hip 2	2L3x3x1/4	577	-109.74	62229.70	0.5	Pass			
Bracing									
Redund Hip 3	2L3x3x1/4	529	-1246.49	37503.60	3.3	Pass			
Bracing									
Redund Hip Diagonal 1 Bracing	2L3x3x1/4	583	568.09	93312.00	0.6	Pass			
Redund Hip Diagonal	2L3x3x1/4	530	-159.15	63064.60	0.6	Pass			

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Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail		
T14	125 - 100	2 Bracing								
		Redund Sub Horiz Bracing	2L3x3 1/2x1/4x3/8	505	28940.20	101412.00	28.5	Pass		
		Redund Sub Diagonal Bracing	2L3 1/2x2 1/2x1/4x3/8	508	-26467.70	78615.40	33.7	Pass		
		Inner Bracing Leg	2L3x3x1/4x3/8 L8x8x1	593	-1941.76	82598.40	2.4	Pass		
		Diagonal	2L3x3 1/2x3/8x3/8	607	-232928.00	366010.00	63.6	Pass		
		Horizontal	2L4x3 1/2x5/16x3/8	599	-31596.00	43391.70	72.8	Pass		
		Redund Horiz 1 Bracing	2L2 1/2x2 1/2x1/4x3/8	599	-49572.80	129514.00	38.3	Pass		
		Redund Horiz 2 Bracing	2L2 1/2x2 1/2x1/4x3/8	608	3400.13	77112.00	4.4	Pass		
		Redund Horiz 3 Bracing	2L2 1/2x2 1/2x1/4x3/8	609	1512.92	77112.00	2.0	Pass		
		Redund Horiz 3 Bracing	2L2 1/2x2 1/2x1/4x3/8	674	-2753.65	52958.10	5.2	Pass		
		Redund Diag 1 Bracing	2L1 1/2x1 1/2x1/8	648	-3037.38	16123.10	18.8	Pass		
		Redund Diag 2 Bracing	2L3x3x3/16x3/8	612	-1078.81	58034.20	1.9	Pass		
		Redund Diag 3 Bracing	2L3x2x1/4x3/8	658	28366.40	77112.00	36.8	Pass		
		Redund Hip 1 Bracing	2L3x3x1/4	690	-339.29	82833.20	0.4	Pass		
		Redund Hip 2 Bracing	2L3x3x1/4	661	-92.21	57943.50	0.5	Pass		
		Redund Hip 3 Bracing	2L3x3x1/4	638	-2038.43	31949.00	6.4	Pass		
		Redund Hip Diagonal 1 Bracing	2L3x3x1/4	692	505.48	93312.00	0.5	Pass		
		Redund Hip Diagonal 2 Bracing	2L3x3x1/4	639	-150.53	59624.00	0.7	Pass		
		T15	100 - 75	Redund Sub Horiz Bracing	2L3x4x5/16x3/8	659	32956.00	135432.00	24.3	Pass
				Redund Sub Diagonal Bracing	2L3 1/2x2 1/2x1/4x3/8	617	-28416.40	78199.20	36.3	Pass
Inner Bracing Leg	2L3x3x1/4x3/8 L8x8x1			702	-2186.65	82060.90	2.7	Pass		
Diagonal	2L3x3 1/2x3/8x3/8			706	-266532.00	364552.00	73.1	Pass		
Horizontal	2L3 1/2x3x5/16x3/8			714	-35749.40	52184.60	68.5	Pass		
Redund Horiz 1 Bracing	2L3x2 1/2x1/4x3/8			708	-39852.50	98168.10	40.6	Pass		
Redund Horiz 2 Bracing	2L3x2 1/2x1/4x3/8			710	-7425.61	72573.30	10.2	Pass		
Redund Horiz 2 Bracing	2L3x2 1/2x1/4x3/8			716	3131.20	85212.00	4.2	Pass		
Redund Diag 1 Bracing	2L2 1/2x2 1/2x3/16x3/8			712	6142.52	58320.00	10.5	Pass		
Redund Diag 2 Bracing	2L3x2 1/2x1/4x3/8			729	27471.40	85212.00	32.2	Pass		
Redund Hip 1 Bracing	2L3x3x1/4			755	54.57	93312.00	0.4	Pass		
Redund Hip 2 Bracing	2L3x3x1/4			737	-5188.40	26846.10	19.3	Pass		
Redund Hip Diagonal 1 Bracing	2L3x3x1/4			757	-163.61	55398.50	0.7	Pass		
Redund Sub Horiz Bracing	2L3x3 1/2x1/4x3/8			735	29538.20	101412.00	29.1	Pass		
Redund Sub Diagonal Bracing	2L4x3x5/16x3/8			721	-40610.10	107101.00	37.9	Pass		
Redund Vert Bracing	2L2 1/2x2 1/2x1/4x3/8			723	-698.99	40384.80	1.7	Pass		
Inner Bracing Leg	2L3x3x1/4x3/8 L8x8x1			785	-2920.02	81481.90	3.6	Pass		
Diagonal	2L4x3x3/8x3/8			791	-295137.00	364552.00	81.0	Pass		
T16	75 - 50					815	-30036.00	84862.10	35.4	Pass

tnxTower Infinigy Engineering PLLC 1033 Watervliet Shaker Rd. Albany, NY Phone: (518) 690-0790 FAX: (518) 690-0790	Job	CT03XC377	Page	56 of 58
	Project	526-102	Date	10:52:32 05/16/18
	Client	Cherundolo Consulting / Sprint	Designed by	BArcher

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T17	50 - 25	Horizontal	2L4x3x5/16x3/8	847	-35355.40	102878.00	34.4	Pass
		Redund Horz 1 Bracing	2L3x2 1/2x1/4x3/8	795	9499.11	85212.00	11.1	Pass
		Redund Horz 2 Bracing	2L3x2 1/2x1/4x3/8	796	-3958.65	60257.60	6.6	Pass
		Redund Diag 1 Bracing	2L2 1/2x2 1/2x3/16x3/8	797	-6751.91	44024.50	15.3	Pass
		Redund Diag 2 Bracing	2L3 1/2x2 1/2x1/4x3/8	838	22855.90	93312.00	24.5	Pass
		Redund Hip 1 Bracing	2L3x3x1/4	821	-117.85	64701.80	0.5	Pass
		Redund Hip 2 Bracing	2L3x3x1/4	822	-4417.16	23385.90	18.9	Pass
		Redund Hip Diagonal 1 Bracing	2L3x3x1/4	861	-140.54	52298.30	0.7	Pass
		Redund Sub Horz Bracing	2L3x3 1/2x1/4x3/8	839	23811.80	101412.00	23.5	Pass
		Redund Sub Diagonal Bracing	2L4x3x3/8x3/8	806	-36301.80	125397.00	28.9	Pass
		Redund Vert Bracing	2L2 1/2x2 1/2x1/4x3/8	808	-769.63	40384.80	1.9	Pass
		Inner Bracing	2L3x3x1/4x3/8	870	-2583.24	80862.30	3.2	Pass
		Leg	L8x8x1	876	-322798.00	364552.00	88.5	Pass
		Diagonal	2L3x4x3/8x3/8	900	-31611.30	50001.30	63.2	Pass
		Horizontal	2L5x3 1/2x3/8x3/8	878	-54947.50	155845.00	35.3	Pass
		Redund Horz 1 Bracing	2L3 1/2x2 1/2x1/4x3/8	880	-3578.43	78320.10	4.6	Pass
		Redund Horz 2 Bracing	2L3 1/2x2 1/2x1/4x3/8	881	7155.77	93312.00	7.7	Pass
		Redund Diag 1 Bracing	2L2 1/2x2 1/2x3/16x3/8	882	3025.41	58320.00	5.2	Pass
		Redund Diag 2 Bracing	2L3 1/2x2 1/2x1/4x3/8	899	23913.30	93312.00	25.6	Pass
		Redund Hip 1 Bracing	2L3x3x1/4	925	82.10	93312.00	0.5	Pass
		Redund Hip 2 Bracing	2L3x3x1/4	907	-3436.23	20554.00	16.7	Pass
		Redund Hip Diagonal 1 Bracing	2L3x3x1/4	949	-146.11	49179.40	0.8	Pass
		Redund Sub Horz Bracing	2L3x4x1/4x3/8	905	32398.40	109512.00	29.6	Pass
		Redund Sub Diagonal Bracing	2L4x3 1/2x3/8x3/8	891	-45354.10	139598.00	32.5	Pass
		Redund Vert Bracing	2L2 1/2x2 1/2x1/4x3/8	893	-979.62	40384.80	2.4	Pass
		Inner Bracing	2L3x3x1/4x3/8	958	-1610.07	69836.60	2.6	Pass
		Leg	L8x8x1	961	-350954.00	364552.00	96.3	Pass
		Diagonal	2L4x6x3/8x3/8	985	-33691.00	105639.00	31.9	Pass
		Horizontal	2L5x3 1/2x3/8x3/8	963	-49272.60	152036.00	32.4	Pass
		Redund Horz 1 Bracing	2L3 1/2x2 1/2x1/4x3/8	965	-822.60	77589.80	1.1	Pass
Redund Horz 2 Bracing	2L3 1/2x2 1/2x1/4x3/8	966	-1561.19	60660.40	2.6	Pass		
Redund Diag 1 Bracing	2L2 1/2x2 1/2x3/16x3/8	967	1296.60	58320.00	2.2	Pass		
Redund Diag 2 Bracing	2L3 1/2x3x1/4x3/8	984	29199.20	101412.00	28.8	Pass		
Redund Hip 1 Bracing	2L3x3x1/4	1032	-392.92	58302.00	0.7	Pass		
Redund Hip 2 Bracing	2L3x3x1/4	992	-4030.27	18207.00	22.1	Pass		
Redund Hip Diagonal 1 Bracing	2L3x3x1/4	1034	-156.93	46066.50	0.7	Pass		
T18	25 - 0							

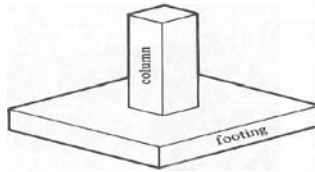
tnxTower Infinigy Engineering PLLC 1033 Watervliet Shaker Rd. Albany, NY Phone: (518) 690-0790 FAX: (518) 690-0790	Job	CT03XC377	Page	57 of 58
	Project	526-102	Date	10:52:32 05/16/18
	Client	Cherundolo Consulting / Sprint	Designed by	BArcher

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
		Redund Sub Horz Bracing	2L3 1/2x4x1/4x3/8	990	35331.70	117612.00	30.0	Pass
		Redund Sub Diagonal Bracing	2L5x3 1/2x3/8x3/8	976	-43835.90	157500.00	27.8	Pass
		Redund Vert Bracing	2L2 1/2x2 1/2x1/4x3/8	978	-968.20	40384.80	2.4	Pass
		Inner Bracing	2L3x3x1/4x3/8	1042	-2862.33	79165.30	3.6	Pass
							Summary	
						Leg (T18)	96.3	Pass
						Diagonal (T2)	77.3	Pass
						Horizontal (T11)	80.4	Pass
						Secondary Horizontal (T3)	1.4	Pass
						Top Girt (T3)	13.2	Pass
						Redund Horz 1	12.7	Pass
						Bracing (T9)		
						Redund Horz 2	44.4	Pass
						Bracing (T11)		
						Redund Horz 3	5.2	Pass
						Bracing (T14)		
						Redund Diag 1	37.0	Pass
						Bracing (T10)		
						Redund Diag 2	39.2	Pass
						Bracing (T11)		
						Redund Diag 3	36.8	Pass
						Bracing (T14)		
						Redund Hip 1	0.7	Pass
						Bracing (T18)		
						Redund Hip 2	22.1	Pass
						Bracing (T18)		
						Redund Hip 3	6.4	Pass
						Bracing (T14)		
						Redund Hip Diagonal 1	0.8	Pass
						Bracing (T17)		
						Redund Hip Diagonal 2	0.7	Pass
						Bracing (T14)		
						Redund Sub Horz Bracing	30.0	Pass
						(T18)		

tnxTower Infinigy Engineering PLLC 1033 Watervliet Shaker Rd. Albany, NY Phone: (518) 690-0790 FAX: (518) 690-0790	Job	CT03XC377	Page	58 of 58
	Project	526-102	Date	10:52:32 05/16/18
	Client	Cherundolo Consulting / Sprint	Designed by	BArcher

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
						Redund Sub Diagonal Bracing (T12)	40.3	Pass
						Redund Vert Bracing (T17)	2.4	Pass
						Inner Bracing (T18)	3.6	Pass
						Bolt Checks	31.1	Pass
						RATING =	96.3	Pass

Date: 5/16/2018
 Site Name: CT03XC377
 Client: Cherundolo Consulting
 Infinigy Job #: 526-102
 Analysis/Design: Analysis
 Column Shape: Square
 Footing Shape: Square
 Tower Type: Self Support



Infinigy Engineering PLLC
 Pad + Pier Calculations
 ACI 318-11

Loading Data		
TIA Code Revision:	ANSI/TIA-222-G	
Uplift:	300.1	kips
Axial:	388.2	kips
Shear:	74.4	kips
Moment:	0	k-ft

Soil Data		
Soil Type:	Sand	
Water Table Depth:	99	ft
Soil Dry Unit Weight:	123.0	pcf
∅ Angle:	34	deg
Cohesion:	0	psf
Ultimate Skin Friction:	500	psf
Friction Coefficient:	0.3	
Ultimate Bearing Pressure:	12000	psf

Column Data		
Concrete Strength:	3000	psi
Column Side Width:	6.375	ft
Column Total Length:	12	ft
Column Height above ground:	0.3	ft
Vertical Rebar Strength:		psi
Vertical Rebar Size:		(#10) max.
Vertical Rebar Quantity:		(4) min.
Tie Rebar Strength:		psi
Tie Rebar Size:		(#3) max.
Tie Rebar Spacing:		in
Rebar Clear Distance:		in

Footing Data		
Concrete Strength:	3000	psi
Footing Length:	20	ft
Footing Width:	20	ft
Footing Thickness:	3.000	ft
Horizontal Rebar Strength:		psi
Horizontal Rebar Size:		
Horizontal Rebar Quantity:		
Rebar Clear Distance:		in
Dowel Strength:		psi
Dowel Size:		(#11) max.
Dowel Development Length:		in
Dowel Quantity:		

Concrete Strength Check		
Footing One-Way Shear Ratio:	21.91	%

Soil Stability Check		
∅s Bearing:	0.75	
∅s Uplift:	0.75	
Bearing Ratio:	10.78	%
Sliding Ratio:	23.31	%
Toe Pressure Ratio:	35.61	%
Overturning Ratio:	11.34	%
Uplift Ratio:	27.82	%

INFINIGY

FROM ZERO TO INFINIGY
the solutions are endless

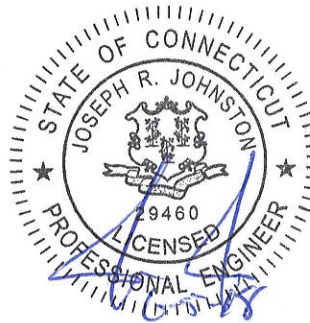
1033 WATERVLIET SHAKER RD, ALBANY, NY 12205

Mount Analysis Report

May 16, 2018

Site Name	CT03XC377
Infinigy Job Number	526-102
Client	Cherundolo Consulting
Carrier	Sprint
Site Location	10 Willard Rd Norwalk, CT 06851 41° 07' 41.7684" N NAD83 73° 23' 24.6114" W NAD83
Mount Centerline EL.	244.0 ft
Mount Classification	Mount Sector
Usage	31.3%

Upon reviewing the results of this analysis, it is our opinion that the existing mounts meet the specified TIA code requirements. The existing mounts are therefore deemed adequate to support the final loading configuration as listed in this report.



Brenden Archer
Structural Engineer I

AZ CA CO FL GA MD NC NH NJ NY TX WA

INFINIGY

Mount Analysis Report
May 16, 2018

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Introduction..... 3

Supporting Documentation..... 3

Analysis Code Requirements..... 3

Conclusion..... 3

Final Configuration Loading..... 4

Structure Usages..... 4

Assumptions and Limitations..... 4

Calculations..... Appended

Mount Analysis Report
May 16, 2018

Introduction

Infinigy Engineering has been requested to perform a mount analysis on the existing Sprint mounts. All 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 16.0.3 analysis software.

Supporting Documentation

RFDS	Sprint ID #45781, dated April 11, 2017
Construction Drawings	Infinigy Job #526-102, dated April 17, 2018

Analysis Code Requirements

Wind Speed	90 mph (3-Second Gust, V_{ASD}) / 115 mph (3-Second Gust, V_{ULT})
Wind Speed w/ ice	50 mph (3-Second Gust, V_{ASD}) w/ 3/4" ice
TIA Revision	ANSI/TIA-222-G
Adopted IBC	2012 IBC / 2016 Connecticut State Building Code
Structure Class	II
Exposure Category	B
Topographic Category	1
Calculated Crest Height	0 ft

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the existing mounts meet the specified TIA code requirements. The existing mounts are therefore deemed adequate to support the final loading configuration as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

Brenden Archer
Structural Engineer I | Infinigy
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Mount Analysis Report
May 16, 2018

DO Macro Final Configuration

Mount CL (ft)	Rad. HT (ft)	Vert. O/S (ft)	Horiz. O/S (ft) ⁽¹⁾	Qty	Appurtenance	Carrier
244.0	244.0	0.0	0.0	3	Nokia AAHC	Sprint
			13.0	3	RFS APXVSPP-18	
			0.0, 13.0	6	Alcatel Lucent RRH 800MHz 2x50W	
			13.0	3	Alcatel Lucent RRH 1900 MHz	

(1)Horizontal Offset is defined as the distance from the left most edge of the mount face horizontal when viewed facing the tower.
(2)Radios are mounted behind antennas at respective locations see appended documents for vertical locations.

Structure Usages

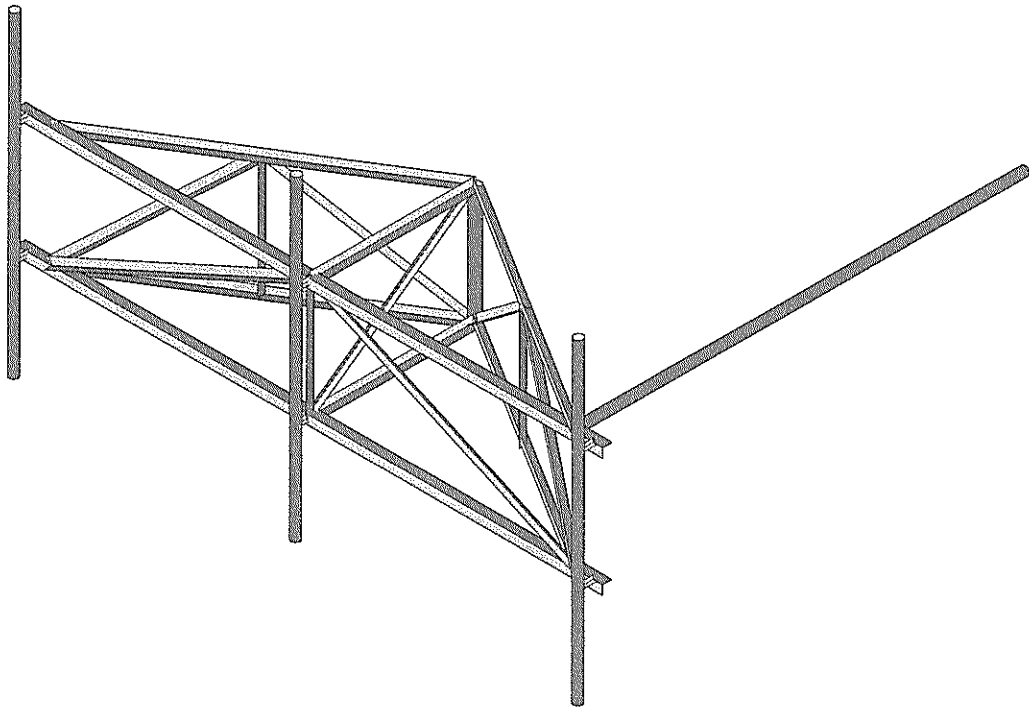
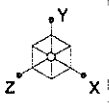
Horizontal	31.3%	Pass
Standoff	22.8%	Pass
Mount Pipe	23.9%	Pass
Results	31.3%	Pass

Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” 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 Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.



Envelope Only Solution

Infinigy Engineering, PLLC

BDA

526-102

CT03XC377

Existing Configuration

May 15, 2018 at 7:49 PM

Existing_CT03XC377.r3d

Site Name: CT03XC377
 Client: Cherundolo
 Carrier: Sprint
 Engineer: BDA
 Date: 5/15/2018



Site Information Inputs:

Adopted Building Code: 2015 IBC
 Structure Load Standard: TIA-222-G
 Antenna Load Standard: TIA-222-G
 Structure Risk Category: II
 Structure Type: Mount - Sector
 Number of Sectors: 3
 Structure Shape 1: Round

Rooftop Inputs:

Rooftop Wind Speed-Up?: No

Wind Loading Inputs:

Design Wind Velocity: 90 mph (nominal 3-second gust)
 Wind Centerline 1 (z₁): 244.0 ft
 Side Face Angle (θ): 60 degrees
 Exposure Category: B
 Topographic Category: 1

Wind with No Ice		
q _z (psf)	G _h	F _{ST} (psf)
25.12	1.00	30.14

Wind with Ice		
q _z (psf)	G _h	F _{ST} (psf)
7.75	1.00	25.18

Ice Loading Inputs:

Is Ice Loading Needed?: Yes
 Ice Wind Velocity: 50 mph (nominal 3-second gust)
 Base Ice Thickness: 0.75 in

Input Appurtenance Information and Load Placements:

Appurtenance Name	Elevation (ft)	Total Quantity	K _a	Front Shape	Side Shape	q _z (psf)	EPA (ft ²)	F _z (lbs)	F _x (lbs)	F _z (60) (lbs)	F _x (30) (lbs)
Nokia AAHC	244.0	3	1.00	Flat	Flat	25.12	4.20	105.56	52.00	65.39	92.17
RFS APXVSP-18	244.0	3	1.00	Flat	Flat	25.12	8.02	201.56	132.71	149.92	184.35
Alcatel Lucent RRH 800 MHz 2x50W	244.0	3	1.00	Flat	Flat	25.12	1.71	42.99	33.07	35.55	40.51
Alcatel Lucent RRH 800 MHz 2x50W	244.0	3	1.00	Flat	Flat	25.12	1.71	42.99	33.07	35.55	40.51
Alcatel Lucent RRH 1900 MHz	244.0	3	1.00	Flat	Flat	25.12	2.31	58.09	59.66	59.26	58.48

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M1	N1	N2		180	Main Horizontal	Beam	Single Angle	A36 Gr.36	Typical
2	M2	N3	N4		180	Main Horizontal	Beam	Single Angle	A36 Gr.36	Typical
3	MP3	N5	N6			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
4	MP4	N7	N8			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
5	M5	N20	N16			Offset Horizontal	Beam	Single Angle	A36 Gr.36	Typical
6	M6	N18	N16			Offset Horizontal	Beam	Single Angle	A36 Gr.36	Typical
7	M7	N19	N15			Offset Horizontal	Beam	Single Angle	A36 Gr.36	Typical
8	M8	N17	N15			Offset Horizontal	Beam	Single Angle	A36 Gr.36	Typical
9	M9	N14	N16			Offset Horizontal	Beam	Single Angle	A36 Gr.36	Typical
10	M10	N13	N15			Offset Horizontal	Beam	Single Angle	A36 Gr.36	Typical
11	M11	N22	N21			Brace	Beam	Single Angle	A36 Gr.36	Typical
12	M12	N23	N24			Brace	Beam	Single Angle	A36 Gr.36	Typical
13	M13	N19	N21			Brace	Beam	Single Angle	A36 Gr.36	Typical
14	M14	N15	N21			Brace	Beam	Single Angle	A36 Gr.36	Typical
15	M15	N15	N24			Brace	Beam	Single Angle	A36 Gr.36	Typical
16	M16	N17	N24			Brace	Beam	Single Angle	A36 Gr.36	Typical
17	M17	N15	N16			Frame Pipe	Beam	Pipe	A53 Gr. B	Typical
18	M18	N19	N14			Brace	Beam	Single Angle	A36 Gr.36	Typical
19	M19	N17	N14			Brace	Beam	Single Angle	A36 Gr.36	Typical
20	M20	N13	N14			Brace	Beam	Single Angle	A36 Gr.36	Typical
21	M21	N16	N13			Brace	Beam	Single Angle	A36 Gr.36	Typical
22	M22	N18	N25			Tie Back	Beam	Pipe	A53 Gr. B	Typical
23	MP23	N26	N27			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
24	M24	N28	N9			RIGID	None	None	RIGID	Typical
25	M25	N30	N11			RIGID	None	None	RIGID	Typical
26	M26	N33	N14			RIGID	None	None	RIGID	Typical
27	M27	N32	N13			RIGID	None	None	RIGID	Typical
28	M28	N29	N10			RIGID	None	None	RIGID	Typical
29	M29	N31	N12			RIGID	None	None	RIGID	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[K]
1	General				
2	RIGID		6	24	0
3	Total General		6	24	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x2.5x3	2	312	0
7	A36 Gr.36	L2x2x3	10	507.6	.1
8	A36 Gr.36	L2x2x4	6	415	.1
9	A53 Gr. B	PIPE 2.0	4	372	.1
10	A53 Gr. B	PIPE 2.5	1	31.5	0
11	Total HR Steel		23	1638.1	.4

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
1	Self Weight	DL		-1			7		
2	Wind Load AZI 000	WLZ					7	1	
3	Wind Load AZI 090	WLX					7	1	
4	Ice Weight	OL1					7	29	
5	Wind + Ice Load AZI 000	OL2					7	1	
6	Wind + Ice Load AZI 090	OL3					7	1	
7	Service Live 1	LL				2			

Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...
8 BLC 2 Transient Area Loads	None						20
9 BLC 3 Transient Area Loads	None						27
10 BLC 5 Transient Area Loads	None						20
11 BLC 6 Transient Area Loads	None						27

Load Combinations

Description	S	P	S	B	Fa	BLC	Fac	BLC	Fa	B	F	B	F	B	F	B	F	B	F
1 1.4D	Y	Y	DL	1.4															
2 1.2D + 1.6W AZI 000	Y	Y	DL	1.2	WLZ	1.6													
3 1.2D + 1.6W AZI 030	Y	Y	DL	1.2	WLZ	1.3	W	.8											
4 1.2D + 1.6W AZI 060	Y	Y	DL	1.2	WLZ	.8	W	1.3											
5 1.2D + 1.6W AZI 090	Y	Y	DL	1.2			W	1.6											
6 1.2D + 1.6W AZI 120	Y	Y	DL	1.2	WLZ	-.8	W	1.3											
7 1.2D + 1.6W AZI 150	Y	Y	DL	1.2	WLZ	-1.3	W	.8											
8 1.2D + 1.6W AZI 180	Y	Y	DL	1.2	WLZ	-1.6													
9 1.2D + 1.6W AZI 210	Y	Y	DL	1.2	WLZ	-1.3	W	-.8											
10 1.2D + 1.6W AZI 240	Y	Y	DL	1.2	WLZ	-.8	W	-1											
11 1.2D + 1.6W AZI 270	Y	Y	DL	1.2			W	-1.6											
12 1.2D + 1.6W AZI 300	Y	Y	DL	1.2	WLZ	.8	W	-1											
13 1.2D + 1.6W AZI 330	Y	Y	DL	1.2	WLZ	1.3	W	-.8											
14 0.9D + 1.6W AZI 000	Y	Y	DL	.9	WLZ	1.6													
15 0.9D + 1.6W AZI 030	Y	Y	DL	.9	WLZ	1.3	W	.8											
16 0.9D + 1.6W AZI 060	Y	Y	DL	.9	WLZ	.8	W	1.3											
17 0.9D + 1.6W AZI 090	Y	Y	DL	.9			W	1.6											
18 0.9D + 1.6W AZI 120	Y	Y	DL	.9	WLZ	-.8	W	1.3											
19 0.9D + 1.6W AZI 150	Y	Y	DL	.9	WLZ	-1.3	W	.8											
20 0.9D + 1.6W AZI 180	Y	Y	DL	.9	WLZ	-1.6													
21 0.9D + 1.6W AZI 210	Y	Y	DL	.9	WLZ	-1.3	W	-.8											
22 0.9D + 1.6W AZI 240	Y	Y	DL	.9	WLZ	-.8	W	-1											
23 0.9D + 1.6W AZI 270	Y	Y	DL	.9			W	-1.6											
24 0.9D + 1.6W AZI 300	Y	Y	DL	.9	WLZ	.8	W	-1											
25 0.9D + 1.6W AZI 330	Y	Y	DL	.9	WLZ	1.3	W	-.8											
26 1.2D + 1.0Di	Y	Y	DL	1.2	OL1	1													
27 1.2D + 1.0Di + 1.0Wi AZI 000	Y	Y	DL	1.2	OL1	1	OL2	1											
28 1.2D + 1.0Di + 1.0Wi AZI 030	Y	Y	DL	1.2	OL1	1	OL2	.866	...	.5									
29 1.2D + 1.0Di + 1.0Wi AZI 060	Y	Y	DL	1.2	OL1	1	OL2	.5	...	.8									
30 1.2D + 1.0Di + 1.0Wi AZI 090	Y	Y	DL	1.2	OL1	1				1									
31 1.2D + 1.0Di + 1.0Wi AZI 120	Y	Y	DL	1.2	OL1	1	OL2	-.5	...	.8									
32 1.2D + 1.0Di + 1.0Wi AZI 150	Y	Y	DL	1.2	OL1	1	OL2	-.866	...	.5									
33 1.2D + 1.0Di + 1.0Wi AZI 180	Y	Y	DL	1.2	OL1	1	OL2	-.1											
34 1.2D + 1.0Di + 1.0Wi AZI 210	Y	Y	DL	1.2	OL1	1	OL2	-.866	...	-.5									
35 1.2D + 1.0Di + 1.0Wi AZI 240	Y	Y	DL	1.2	OL1	1	OL2	-.5	...	----									
36 1.2D + 1.0Di + 1.0Wi AZI 270	Y	Y	DL	1.2	OL1	1				----									
37 1.2D + 1.0Di + 1.0Wi AZI 300	Y	Y	DL	1.2	OL1	1	OL2	.5	...	----									
38 1.2D + 1.0Di + 1.0Wi AZI 330	Y	Y	DL	1.2	OL1	1	OL2	.866	...	-.5									
39 1.2D + 1.5L + 1.0WL (30 mph) AZI 000	Y	Y	DL	1.2	LL	1.5	WLZ	.111											
40 1.2D + 1.5L + 1.0WL (30 mph) AZI 030	Y	Y	DL	1.2	LL	1.5	WLZ	.096	...	.0									
41 1.2D + 1.5L + 1.0WL (30 mph) AZI 060	Y	Y	DL	1.2	LL	1.5	WLZ	.056	...	.0									
42 1.2D + 1.5L + 1.0WL (30 mph) AZI 090	Y	Y	DL	1.2	LL	1.5				...	.1								
43 1.2D + 1.5L + 1.0WL (30 mph) AZI 120	Y	Y	DL	1.2	LL	1.5	WLZ	-.056	...	.0									
44 1.2D + 1.5L + 1.0WL (30 mph) AZI 150	Y	Y	DL	1.2	LL	1.5	WLZ	-.096	...	.0									
45 1.2D + 1.5L + 1.0WL (30 mph) AZI 180	Y	Y	DL	1.2	LL	1.5	WLZ	-.111											
46 1.2D + 1.5L + 1.0WL (30 mph) AZI 210	Y	Y	DL	1.2	LL	1.5	WLZ	-.096	...	----									
47 1.2D + 1.5L + 1.0WL (30 mph) AZI 240	Y	Y	DL	1.2	LL	1.5	WLZ	-.056	...	----									
48 1.2D + 1.5L + 1.0WL (30 mph) AZI 270	Y	Y	DL	1.2	LL	1.5				...	----								

Load Combinations (Continued)

	Description	S..P...	S..B..Fa...	BLC Fac...	BLC Fa...	B..F...	B..F...	B..F...	B..F...	B..F...	B..F...	B..F...	B..F...
49	1.2D + 1.5L + 1.0WL (30 mph) AZI 300	Y..	Y	DL 1.2	LL	1.5	WLZ .056	...	.....		
50	1.2D + 1.5L + 1.0WL (30 mph) AZI 330	Y..	Y	DL 1.2	LL	1.5	WLZ .096	...	.....		

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 N25 max	44.731	17	68.078	30	698.833	12	0	1	0	1	0	1
2 min	-44.658	23	15.466	25	-698.947	6	0	1	0	1	0	1
3 N16 max	574.27	17	1187.353	37	67.72	16	0	1	0	1	0	1
4 min	-912.373	36	132.837	18	-3937.992	34	0	1	0	1	0	1
5 N15 max	872.883	30	1834.487	31	3888.99	27	0	1	0	1	0	1
6 min	-469.016	23	291.025	24	11.129	20	0	1	0	1	0	1
7 Totals: max	1246.251	5	2999.034	27	1727.004	14						
8 min	-1246.251	23	675.731	20	-1727.004	8						

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

Member	Shape	Code Check	Loc[in]	LC	Shear Ch...	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pn...	phi*M...	phi*M...	Eqn	
1	M2	L2.5x2.5...	.313	152.75	37	.100	147.875	y	38	28503.259	29192.4	.873	1.972	... H2-1
2	MP4	PIPE_2.0	.239	26.25	27	.054	57.75		6	30338.482	32130	1.872	1.872	... H1-1b
3	M15	L2x2x3	.228	25.313	33	.004	51.703	y	36	9229.609	23392.8	.558	1.087	... H2-1
4	M14	L2x2x3	.182	25.313	33	.004	51.703	y	31	9229.609	23392.8	.558	1.087	... H2-1
5	M1	L2.5x2.5...	.177	146.25	12	.046	147.875	z	8	9787.328	29192.4	.873	1.86	... H2-1
6	M18	L2x2x3	.166	38.157	38	.008	0	y	36	4238.021	23392.8	.558	.979	... H2-1
7	M19	L2x2x3	.163	38.157	33	.009	76.314	y	28	4238.021	23392.8	.558	.979	... H2-1
8	M5	L2x2x4	.160	41	9	.006	81.999	z	3	16939.707	30585.6	.691	1.577	... H2-1
9	M6	L2x2x4	.156	41	18	.010	0	z	13	16939.707	30585.6	.691	1.577	... H2-1
10	MP3	PIPE_2.0	.155	26.25	50	.029	57.75		33	30338.482	32130	1.872	1.872	... H1-1b
11	M21	L2x2x3	.141	26.854	38	.004	0	y	38	8556.688	23392.8	.558	1.077	... H2-1
12	M10	L2x2x4	.132	0	28	.004	0	y	32	15727.259	30585.6	.691	1.577	... H2-1
13	M8	L2x2x4	.125	41	27	.007	81.999	z	13	16939.707	30585.6	.691	1.536	... H2-1
14	M16	L2x2x3	.117	25.852	30	.005	51.703	z	7	9229.609	23392.8	.558	1.087	... H2-1
15	M22	PIPE_2.0	.110	60	36	.008	0		30	9836.597	32130	1.872	1.872	... H1-1b
16	M7	L2x2x4	.097	41	27	.004	41	y	28	16939.707	30585.6	.691	1.577	... H2-1
17	M13	L2x2x3	.094	25.852	38	.004	0	y	27	9229.609	23392.8	.558	1.087	... H2-1
18	M20	L2x2x3	.057	14.438	38	.002	0	y	11	16563.897	23392.8	.558	1.196	... H2-1
19	M9	L2x2x4	.033	24.016	28	.003	0	y	32	15727.259	30585.6	.691	1.523	... H2-1
20	MP23	PIPE_2.0	.017	57.75	2	.003	26.25		10	31473.182	32130	1.872	1.872	... H1-1b
21	M12	L2x2x3	.015	15.75	7	.002	0	y	11	16563.897	23392.8	.558	1.196	... H2-1
22	M11	L2x2x3	.015	15.75	13	.002	0	z	8	16563.897	23392.8	.558	1.196	... H2-1
23	M17	PIPE_2.5	.003	15.422	4	.001	0		5	47934.351	50715	3.596	3.596	... H1-1b

Sprint



PROJECT: 2.5 EQUIPMENT DEPLOYMENT
 SITE NAME: SNET
 SITE CASCADE: CT03XC377
 SITE ADDRESS: 10 WILLARD RD
 NORWALK, CT 06851
 SITE TYPE: SELF SUPPORT TOWER
 MARKET: SOUTHERN CONNECTICUT

PLANS PREPARED FOR:

6580 Sprint Parkway
Overland Park, Kansas 66251

PLANS PREPARED BY:

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the solutions are endless

1033 Watervliet Shaker Rd
Albany, NY 12205
Office # (518) 690-0790
JOB NUMBER 528-102

ENGINEERING LICENSE:

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REVISIONS:	DESCRIPTION	DATE	BY	REV
REVISED & REISSUED FOR PERMIT		05/16/18	BMM	2
REVISED & REISSUED FOR PERMIT		04/17/18	BMM	1
ISSUED FOR PERMIT		01/22/18	ASW	0

SITE NAME:
SNET

SITE CASCADE:
CT03XC377

SITE ADDRESS:
10 WILLARD RD
NORWALK, CT 06851

SHEET DESCRIPTION:
TITLE SHEET & PROJECT DATA

SHEET NUMBER:
T-1

SITE INFORMATION

TOWER OWNER:
 THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY
 310 ORANGE ST
 NEW HAVEN, CT 06510

LATITUDE (NAD83):
 41° 7' 41.7684" N
 41.128269°

LONGITUDE (NAD83):
 73° 23' 24.6114" W
 -73.39017°

COUNTY:
 FAIRFIELD

ZONING JURISDICTION:
 CITY OF NORWALK

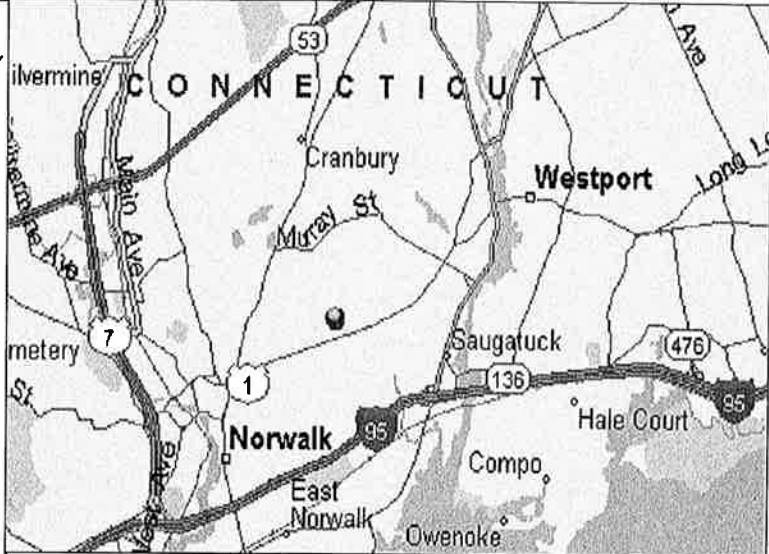
ZONING DISTRICT:
 B2-BUSINESS

POWER COMPANY:
 CONNECTICUT LIGHT AND POWER
 (800) 286-2000

AAV PROVIDER:
 AT&T
 (800) 246-2020

SPRINT CM:
 GARY WOOD
 PHONE: (860) 940-9168
 gary.wood@sprint.com

AREA MAP



LOCATION MAP



PROJECT DESCRIPTION

SPRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY.

- INSTALL EQUIPMENT IN EXISTING N.V. MMBS CABINET
- INSTALL (3) PANEL ANTENNAS
- INSTALL (3) RRU'S TO TOWER
- INSTALL (27) JUMPER CABLES
- INSTALL (1) HYBRID CABLE
- INSTALL (8) BATTERIES IN EXISTING BBU CABINET

THESE PLANS HAVE BEEN DEVELOPED FOR THE MODIFICATION OF AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY OWNED OR LEASED BY SPRINT IN ACCORDANCE WITH THE SCOPE OF WORK PROVIDED BY SPRINT. INFINIGY HAS INCORPORATED THIS SCOPE OF WORK IN THE PLANS. THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS ACCOMPANIED BY A PASSING STRUCTURAL STABILITY ANALYSIS PREPARED BY A LICENSED STRUCTURAL ENGINEER. STRUCTURAL ANALYSIS MUST INCLUDE BOTH TOWER AND MOUNT.

APPLICABLE CODES

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

1. INTERNATIONAL BUILDING CODE (2012 IBC)
2. TIA-EIA-222-G OR LATEST EDITION
3. NFPA 780 - LIGHTNING PROTECTION CODE
4. 2011 NATIONAL ELECTRIC CODE OR LATEST EDITION
5. ANY OTHER NATIONAL OR LOCAL APPLICABLE CODES, MOST RECENT EDITIONS
6. CT BUILDING CODE
7. LOCAL BUILDING CODE
8. CITY/COUNTY ORDINANCES

DRAWING INDEX

SHEET NO.	SHEET TITLE	REV.
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A-1	SITE PLAN	2
A-2	TOWER ELEVATION & CABLE PLAN	2
A-3	ANTENNA LAYOUT & MOUNTING DETAILS	2
A-4	COLOR CODING & NOTES	2
A-5	EQUIPMENT & MOUNTING DETAILS	2
A-6	CIVIL DETAILS	2
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E-2	ELECTRICAL & GROUNDING DETAILS	2



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CONTINUE FROM SP-1

1. PERFORM ANY REQUIRED SITE ENVIRONMENTAL MITIGATION.
2. PREPARE GROUND SITES; PROVIDE DE-GRUBBING; AND ROUGH AND FINAL GRADING, AND COMPOUND SURFACE TREATMENTS.
3. MANAGE AND CONDUCT ALL ACTIVITIES FOR INSTALLATION OF UTILITIES INCLUDING ELECTRICAL AND TELCO BACKHAUL.
4. INSTALL UNDERGROUND FACILITIES INCLUDING UNDERGROUND POWER AND COMMUNICATIONS CONDUITS, AND UNDERGROUND GROUNDING SYSTEM.
5. INSTALL ABOVE GROUND GROUNDING SYSTEMS.
6. PROVIDE NEW HVAC INSTALLATIONS AND MODIFICATIONS.
7. INSTALL "H-FRAMES", CABINETS AND SHELTERS AS INDICATED.
8. INSTALL ROADS, ACCESS WAYS, CURBS AND DRAINS AS INDICATED.
9. ACCOMPLISH REQUIRED MODIFICATION OF EXISTING FACILITIES.
10. PROVIDE ANTENNA SUPPORT STRUCTURE FOUNDATIONS.
11. PROVIDE SLABS AND EQUIPMENT PLATFORMS.
12. INSTALL COMPOUND FENCING, SIGHT SHIELDING, LANDSCAPING AND ACCESS BARRIERS.
13. PERFORM INSPECTION AND MATERIAL TESTING AS REQUIRED HEREINAFTER.
14. CONDUCT SITE RESISTANCE TO EARTH TESTING AS REQUIRED HEREINAFTER.
15. INSTALL FIXED GENERATOR SETS AND OTHER STANDBY POWER SOLUTIONS.
16. INSTALL TOWERS, ANTENNA SUPPORT STRUCTURES AND PLATFORMS ON EXISTING TOWERS AS REQUIRED.
17. INSTALL CELL SITE RADIOS, MICROWAVE, GPS, COAXIAL MAINLINE, ANTENNAS, CROSS BAND COUPLERS, TOWER TOP AMPLIFIERS, LOW NOISE AMPLIFIERS AND RELATED EQUIPMENT.
18. PERFORM, DOCUMENT, AND CLOSE OUT ANY CONSTRUCTION CONTROL DOCUMENTS THAT MAY BE REQUIRED BY GOVERNMENT AGENCIES AND LANDLORDS.
19. PERFORM ANTENNA AND COAX SWEEP TESTING AND MAKE ANY AND ALL NECESSARY CORRECTIONS.
20. REMAIN ON SITE MOBILIZED THROUGHOUT HAND-OFF AND INTEGRATION TO ASSIST AS NEEDED UNTIL SITE IS DEEMED SUBSTANTIALLY COMPLETE AND PLACED "ON AIR."

3.2 GENERAL REQUIREMENTS FOR CIVIL CONSTRUCTION:

- A. 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.
- B. EQUIPMENT ROOMS SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.
- C. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.
 1. 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.
 2. 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.
- D. 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
- E. CONDUCT TESTING AS REQUIRED HEREIN.

3.3 DELIVERABLES:

- A. CONTRACTOR SHALL REVIEW, APPROVE, AND SUBMIT TO SPRINT SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS AS REQUIRED HEREINAFTER
- B. PROVIDE DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING. DOCUMENTATION SHALL BE FORWARDED IN ORIGINAL FORMAT AND/OR UPLOADED INTO SMS.
 1. ALL CORRESPONDENCE AND PRELIMINARY CONSTRUCTION REPORTS.
 2. PROJECT PROGRESS REPORTS.
 3. CIVIL CONSTRUCTION START DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
 4. ELECTRICAL SERVICE COMPLETION DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

5. LINES AND ANTENNA INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
6. POWER INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
7. TELCO READY DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
8. PPC (OR SHELTER) INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
9. TOWER CONSTRUCTION START DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
10. TOWER CONSTRUCTION COMPLETE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
11. BTS AND RADIO EQUIPMENT DELIVERED AT SITE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
12. NETWORK OPERATIONS HANDOFF CHECKLIST (HOC WALK) COMPLETE (UPLOAD FORM IN SMS)
13. CIVIL CONSTRUCTION COMPLETE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
14. SITE CONSTRUCTION PROGRESS PHOTOS UNLOADED INTO SMS.

SECTION 01 400 - SUBMITTALS & TESTS

PART 1 - GENERAL

- 1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONJUNCTION WITH THE OTHER CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.
- 1.2 RELATED DOCUMENTS:
 - A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.
 - B. SPRINT "STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES" ARE INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS HERewith.
- 1.3 SUBMITTALS:
 - A. THE WORK IN ALL ASPECTS SHALL COMPLY WITH THE CONSTRUCTION DRAWINGS AND THESE SPECIFICATIONS.
 - B. SUBMIT THE FOLLOWING TO COMPANY REPRESENTATIVE FOR APPROVAL.
 1. CONCRETE MIX-DESIGNS FOR TOWER FOUNDATIONS, ANCHORS PIERS, AND CONCRETE PAVING.
 2. CONCRETE BREAK TESTS AS SPECIFIED HEREIN.
 3. SPECIAL FINISHES FOR INTERIOR SPACES, IF ANY.
 4. ALL EQUIPMENT AND MATERIALS SO IDENTIFIED ON THE CONSTRUCTION DRAWINGS.
 5. CHEMICAL GROUNDING DESIGN
 - D. ALTERNATES: AT THE COMPANY'S REQUEST, ANY ALTERNATIVES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINT'S CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO BEING SHIPPED TO SITE. SPRINT WILL REVIEW AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING. NO VERBAL APPROVALS WILL BE CONSIDERED. SUBMITTAL FOR APPROVAL SHALL INCLUDE A STATEMENT OF COST REDUCTION PROPOSED FOR USE OF ALTERNATE PRODUCT.

1.4 TESTS AND INSPECTIONS:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
- B. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 1. COAX SWEEPS AND FIBER TESTS PER TS-0200 REV 4 ANTENNA LINE ACCEPTANCE STANDARDS.
 2. AGL, AZIMUTH AND DOWNTILT USING ELECTRONIC COMMERCIAL MADE-FOR-THE-PURPOSE ANTENNA ALIGNMENT TOOL.
 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
- C. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
 1. AZIMUTH, DOWNTILT, AGL - UPLOAD REPORT FROM ANTENNA ALIGNMENT TOOL TO SITERRA TASK 465. INSTALLED AZIMUTH, DOWNTILT, AND AGL MUST CONFORM TO THE RF DATA SHEETS. SWEEP AND FIBER TESTS
 2. SCANABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED EQUIPMENT
 3. ALL AVAILABLE JURISDICTIONAL INFORMATION
 4. PDF SCAN OF REDLINES PRODUCED IN FIELD

5. ELECTRONIC AS-BUILT DRAWINGS IN AUTOCAD AND PDF FORMATS. ANY FIELD CHANGE MUST BE REFLECTED BY MODIFYING THE PLANS, ELEVATIONS, AND DETAILS IN THE DRAWING SETS. GENERAL NOTES INDICATING MODIFICATIONS WILL NOT BE ACCEPTED. CHANGES SHALL BE HIGHLIGHTED AS "CLOUDS" IDENTIFIED AS THE "AS-BUILT" CONDITION.
6. LIEN WAIVERS
7. FINAL PAYMENT APPLICATION
8. REQUIRED FINAL CONSTRUCTION PHOTOS
9. CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFICIENT ITEMS
10. ALL POST NTP TASKS INCLUDING DOCUMENT UPLOADS COMPLETED IN SITERRA (SPRINTS DOCUMENT REPOSITORY OF RECORD).

- 1.5 COMMISSIONING: PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOPs
- 1.6 INTEGRATION: PERFORM ALL INTEGRATION ACTIVITIES AS REQUIRED BY APPLICABLE MOPs

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 REQUIREMENTS FOR TESTING:

- A. THIRD PARTY TESTING AGENCY:
 1. 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.
 2. 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.
 3. EXPERIENCE IN SOILS, CONCRETE, MASONRY, AGGREGATE, AND ASPHALT TESTING USING ASTM, AASHTO, AND OTHER METHODS IS NEEDED.
 4. EXPERIENCE IN SOILS, CONCRETE, MASONRY, AGGREGATE, AND ASPHALT TESTING USING ASTM, AASHTO, AND OTHER METHODS IS NEEDED.

3.2 REQUIRED TESTS:

- A. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 1. CONCRETE CYLINDER BREAK TESTS FOR THE TOWER AND ANCHOR FOUNDATIONS AS SPECIFIED IN SECTION: PORTLAND CEMENT CONCRETE PAVING.
 2. ASPHALT ROADWAY COMPACTED THICKNESS, SURFACE SMOOTHNESS, AND COMPACTED DENSITY TESTING AS SPECIFIED IN SECTION: HOT MIX ASPHALT PAVING.
 3. FIELD QUALITY CONTROL TESTING AS SPECIFIED IN SECTION: PORTLAND CEMENT CONCRETE PAVING.
 4. TESTING REQUIRED UNDER SECTION: AGGREGATE BASE FOR ACCESS ROADS, PADS AND ANCHOR LOCATIONS
 5. STRUCTURAL BACKFILL COMPACTION TESTS FOR THE TOWER FOUNDATION.
 6. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.
 7. ANTENNA AND COAX SWEEP TESTS PER EXHIBIT: ANTENNA TRANSMISSION LINE ACCEPTANCE STANDARDS.
 8. GROUNDING AT ANTENNA MASTS FOR GPS AND ANTENNAS
 9. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

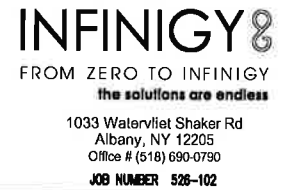
3.3 REQUIRED INSPECTIONS

- A. SCHEDULE INSPECTIONS WITH COMPANY REPRESENTATIVE.
- B. CONDUCT INSPECTIONS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 1. GROUNDING SYSTEM INSTALLATION PRIOR TO EARTH CONCEALMENT DOCUMENTED WITH DIGITAL PHOTOGRAPHS BY CONTRACTOR, APPROVED BY A&E OR SPRINT REPRESENTATIVE.
 2. FORMING FOR CONCRETE AND REBAR PLACEMENT PRIOR TO POUR DOCUMENTED WITH DIGITAL PHOTOGRAPHS BY CONTRACTOR, APPROVED BY A&E OR SPRINT REPRESENTATIVE.
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SITE CASCADE:

CT03XC377

SITE ADDRESS:

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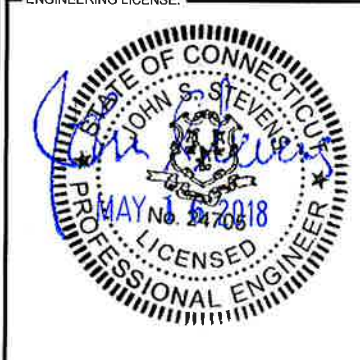
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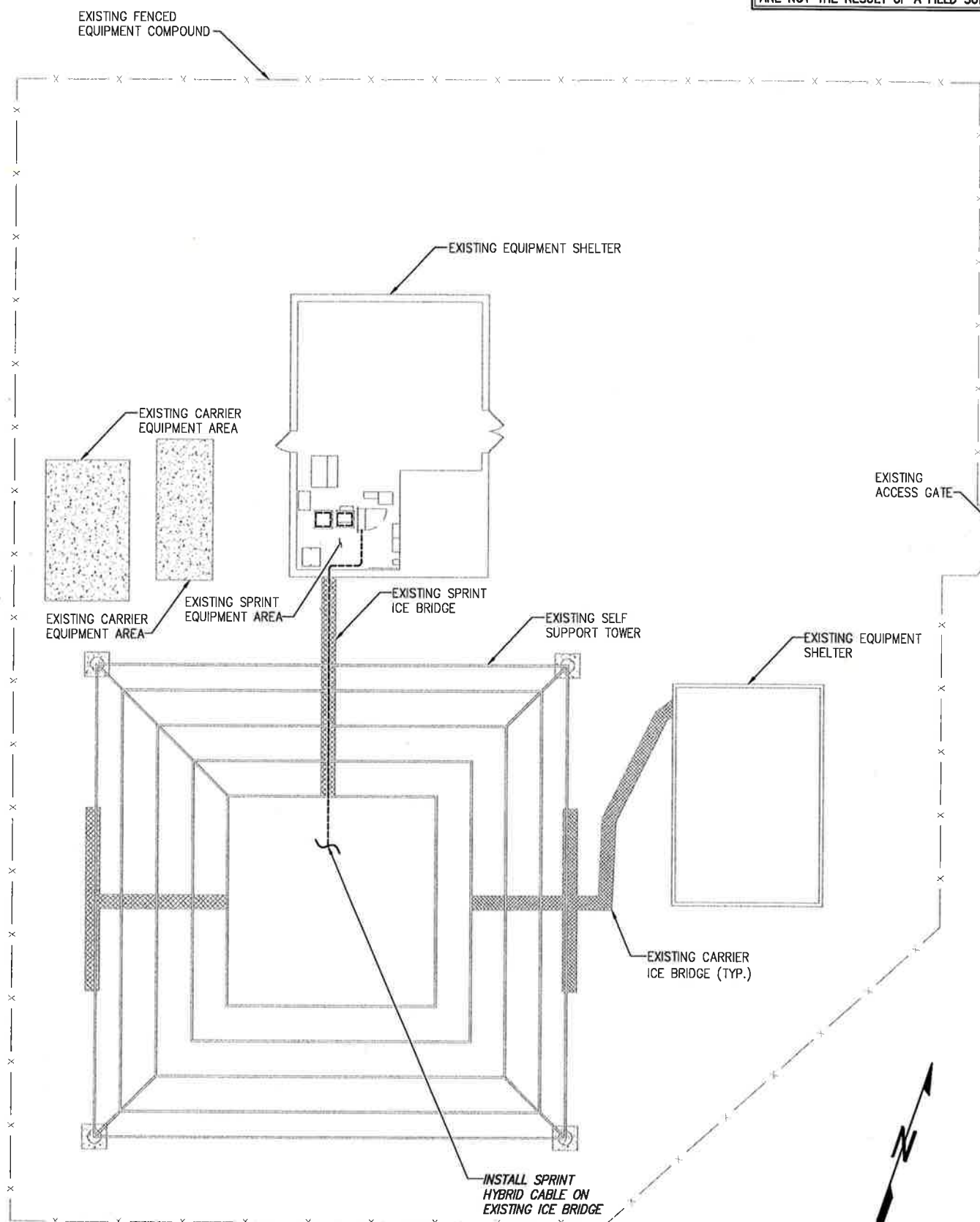
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SITE PLAN

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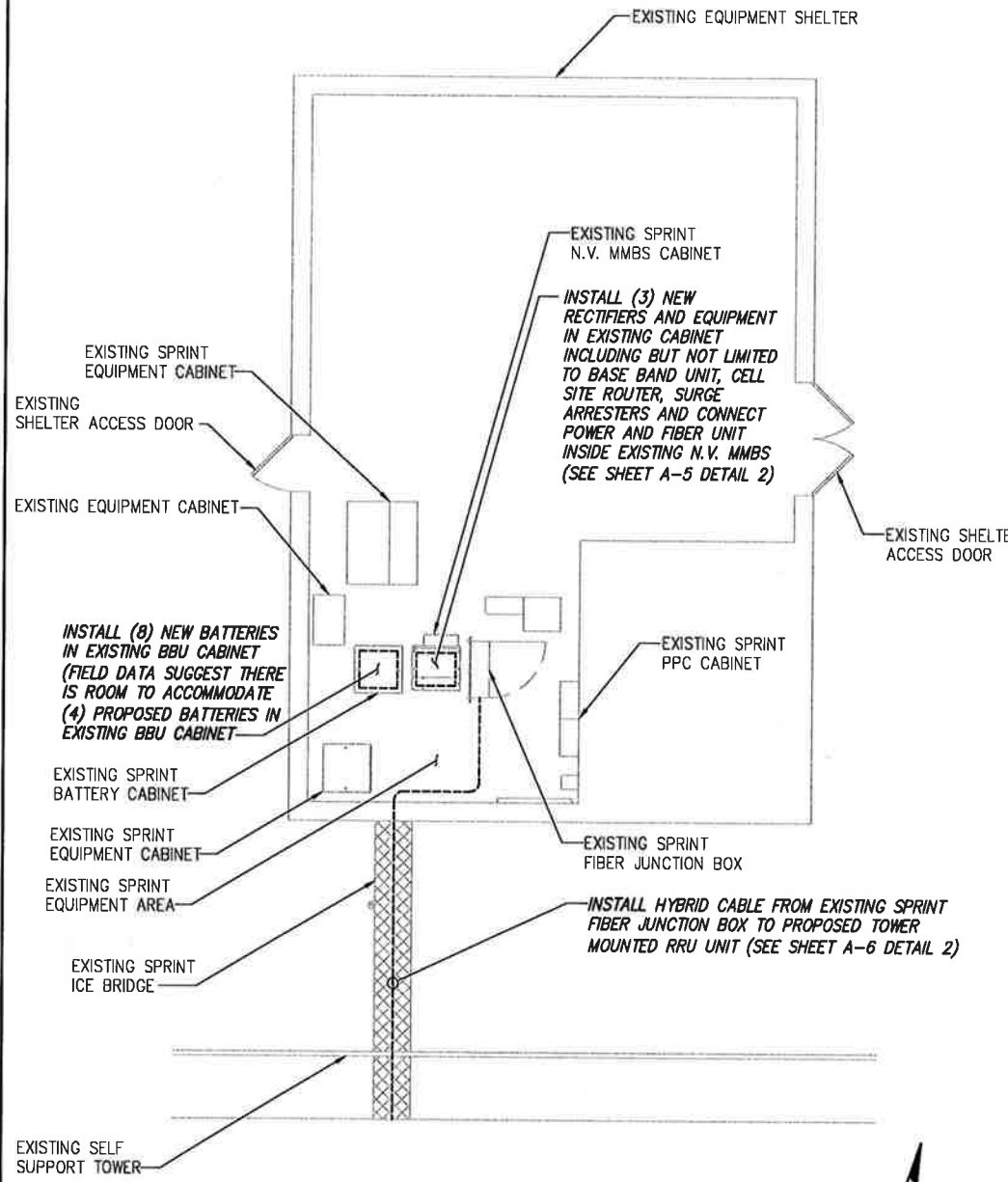
A-1



5' 0 5' 10' 20'
(IN FEET)
SCALE: 24"x36" SHEET 1" = 10'-0"
SCALE: 11"x17" SHEET 1" = 20'-0"

OVERALL SITE PLAN

SCALE: AS NOTED 1



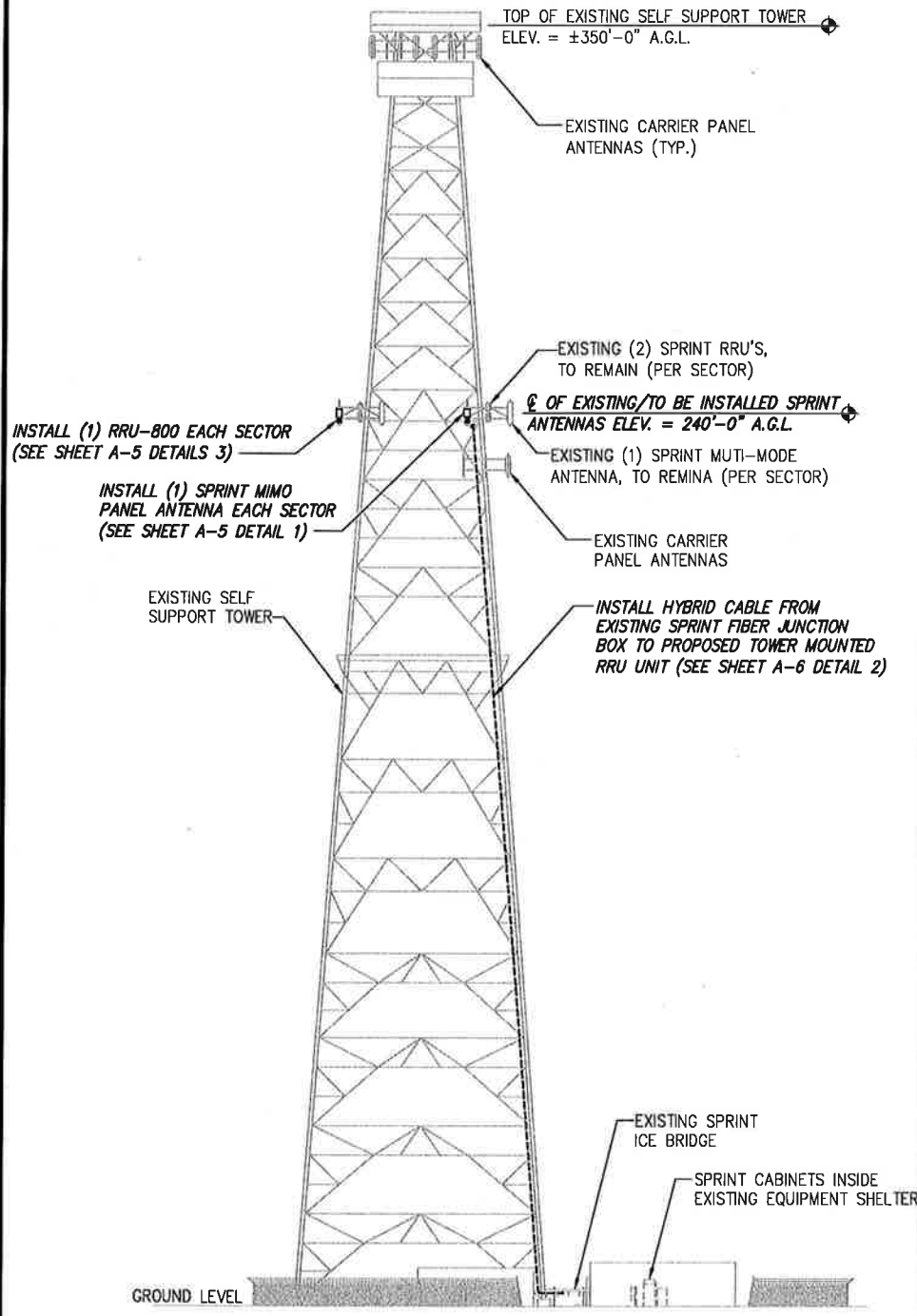
2.5' 0 2.5' 5' 10'
(IN FEET)
SCALE: 24"x36" SHEET 1" = 5'-0"
SCALE: 11"x17" SHEET 1" = 10'-0"

SPRINT EQUIPMENT PLAN

SCALE: AS NOTED 2

NOTE:
 FOR ADDITIONAL STRUCTURAL INFORMATION, SEE:
 • 'STRUCTURAL ANALYSIS REPORT' COMPLETED BY INFINIGY, DATED 5/16/18
 • 'MOUNT ANALYSIS REPORT' COMPLETED BY INFINIGY, DATED 5/16/18

NOTE:
 SEE DETAIL 2 ON A-3 FOR ANTENNA LAYOUT



DETAIL NOT USED NO SCALE 2

DETAIL NOT USED

DETAIL NOT USED NO SCALE 3

DETAIL NOT USED NO SCALE 4

PLANS PREPARED FOR:

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 Overland Park, Kansas 66251

PLANS PREPARED BY:

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 Office # (518) 690-0790
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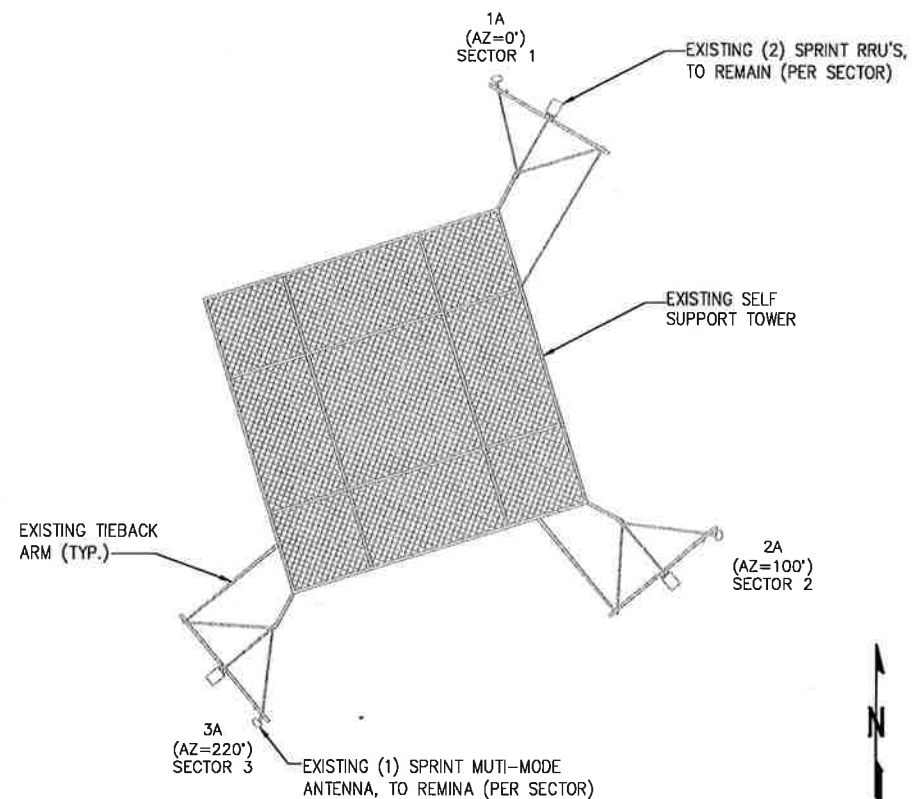
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SHEET DESCRIPTION:
TOWER ELEVATION & CABLE PLAN

SHEET NUMBER:
A-2

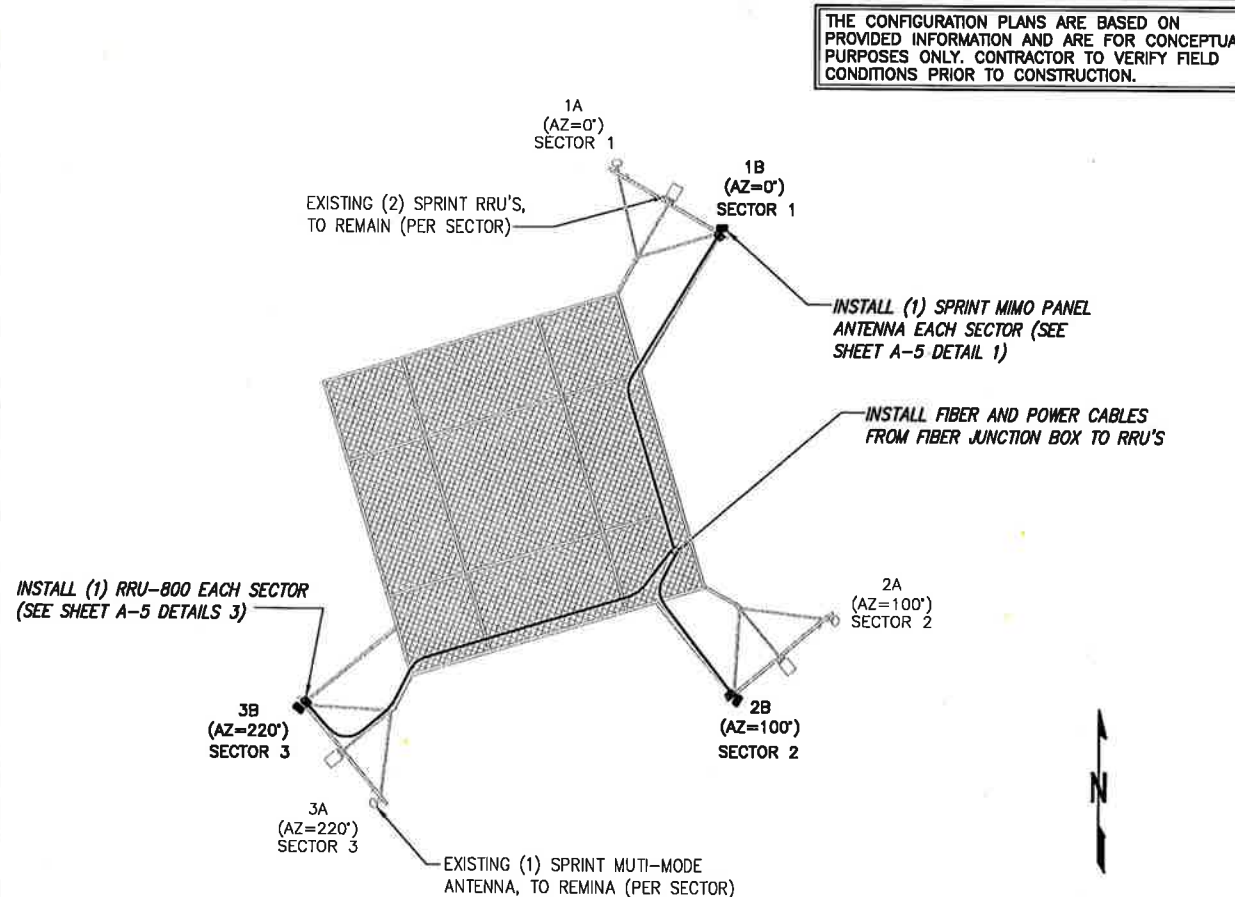
TOWER ELEVATION NO SCALE 1



EXISTING ANTENNA & RRU LAYOUT

NO SCALE

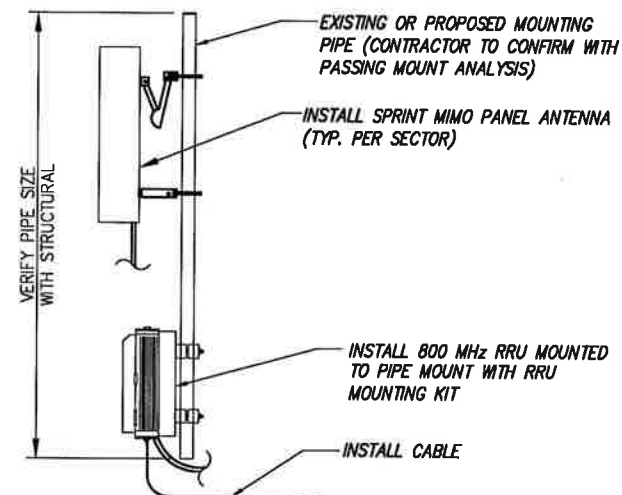
1



FINAL ANTENNA LAYOUT

NO SCALE

2



TYPICAL MIMO ANTENNA & RRU MOUNTING DETAILS

NO SCALE

4

NOTE:
SPARE DC CABLES ARE COILED UP ON NV RRHS AT SPRINT ARRAY. THESE ARE TO BE USED TO POWER UP THE 2.5 RRHS AND TIED INTO EXISTING DC BREAKERS INSIDE THE FIBER JUNCTION BOX LOCATED AT EQUIPMENT.

NOTE:
CONTRACTOR TO POSITION RRU ON MOUNT BEHIND ANTENNA SUCH THAT THE RRU DOES NOT INTERFERE WITH THE EXISTING PLATFORM/T-ARM MOUNTING HARDWARE.

NOTE:
THE DIAGRAM IS FOR CONCEPTUAL PURPOSES ONLY. CONTRACTOR IS TO REFER TO PASSING STRUCTURAL ANALYSIS FOR ANTENNA AND RRU MOUNTING DETAILS.

DETAIL NOT USED

NO SCALE

3

THE CONFIGURATION PLANS ARE BASED ON PROVIDED INFORMATION AND ARE FOR CONCEPTUAL PURPOSES ONLY. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION.

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SHEET DESCRIPTION:
ANTENNA LAYOUT
& MOUNTING DETAILS

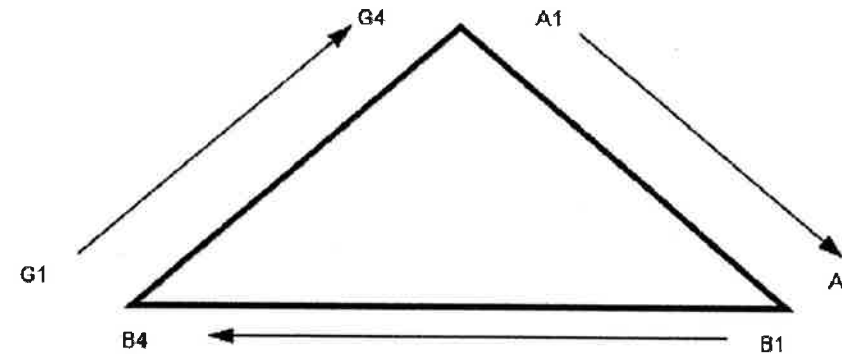
SHEET NUMBER:
A-3

NV CABLES				
BAND	INDICATOR	PORT	COLOR	
800-1	YEL GRN	NV-1	GRN	
1900-1	YEL RED	NV-2	BLU	
1900-2	YEL BRN	NV-3	BRN	
1900-3	YEL BLU	NV-4	WHT	
1900-4	YEL SLT	NV-5	RED	
800-2	YEL ORG	NV-6	SLT	
SPARE	YEL WHT	NV-7	PPL	
2500	YEL PPL	NV-8	ORG	

HYBRID	
HYBRID	COLOR
1	GRN
2	BLU
3	BRN
4	WHT
5	RED
6	SLT
7	PPL
8	ORG

2.5 Band		
2500 Radio 1	COLOR	
YEL WHT	GRN	
YEL WHT	BLU	
YEL WHT	BRN	
YEL WHT	WHT	
YEL WHT	RED	
YEL WHT	SLT	
YEL WHT	PPL	
YEL WHT	ORG	

Figure 1: Antenna Orientation



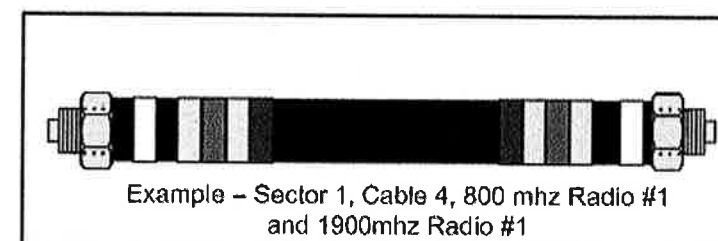
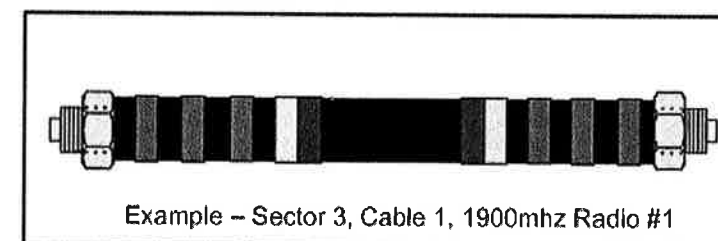
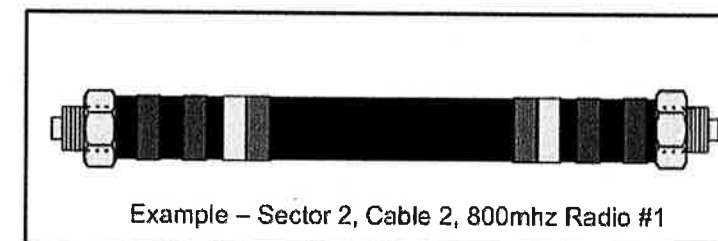
NOTES:

- ALL CABLES SHALL BE MARKED WITH 2" WIDE, UV STABILIZED, UL APPROVED TAPE.
- THE FIRST RING SHALL BE CLOSEST TO THE END OF THE CABLE AND SPACED APPROXIMATELY 2" FROM THE END CONNECTOR, WEATHERPROOFING, OR BREAK-OUT CYLINDER. THERE SHALL BE A 1" SPACE BETWEEN EACH RING FOR THE CABLE IDENTIFIER, AND NO SPACES BETWEEN THE FREQUENCY BANDS.
- A 2" GAP SHALL SEPARATE THE CABLE COLOR CODE FROM THE FREQUENCY COLOR CODE. THE 2" COLOR RINGS FOR THE FREQUENCY CODE SHALL BE PLACED NEXT TO EACH OTHER WITH NO SPACES.
- THE 2" COLORED TAPE(S) SHALL EACH BE WRAPPED A MINIMUM OF 3 TIMES AROUND THE INDIVIDUAL CABLES, AND THE TAPE SHALL BE KEPT IN THE SAME LOCATION AS MUCH AS POSSIBLE.
- SITES WITH MORE THAN FOUR (4) SECTORS WILL REQUIRE ADDITIONAL RINGS FOR EACH SECTOR, FOLLOWING THE PATTERN. HIGH CAPACITY SITES WILL USE THE NEXT COLOR IN THE SEQUENCE FOR ADDITIONAL CABLES IN EACH SECTOR.
- HYBRID FIBER CABLE SHALL BE SECTOR IDENTIFIED INSIDE THE CABINET ON FREQUENCY BUNDLES, ON THE SEALTITE, ON THE MAIN LINE UPON EXIT OF SEALTITE, AND BEFORE AND AFTER THE BREAKOUT UNIT (MEDUSA), AS WELL AS BEFORE AND AFTER ANY ENTRANCE OR EXIT.
- HFC "MAIN TRUNK" WILL NOT BE MARKED WITH THE FREQUENCY CODES, AS IT CONTAINS ALL FREQUENCIES.
- INDIVIDUAL POWER PAIRS AND FIBER BUNDLES SHALL BE LABELED WITH BOTH THE CABLE AND FREQUENCY.

Sector	Cable	First Ring	Second Ring	Third Ring
1 Alpha	1	White	No Tape	No Tape
	2	White	No Tape	No Tape
	3	White	No Tape	No Tape
	4	White	No Tape	No Tape
	5	White	No Tape	No Tape
	6	Grey	No Tape	No Tape
	7	Purple	No Tape	No Tape
	8	Orange	No Tape	No Tape
2 Beta	1	White	White	No Tape
	2	White	White	No Tape
	3	White	White	No Tape
	4	White	White	No Tape
	5	White	White	No Tape
	6	Grey	Grey	No Tape
	7	Purple	Purple	No Tape
	8	Orange	Orange	No Tape
3 Gamma	1	White	White	White
	2	White	White	White
	3	White	White	White
	4	White	White	White
	5	White	White	White
	6	Grey	Grey	Grey
	7	Purple	Purple	Purple
	8	Orange	Orange	Orange

NV FREQUENCY	INDICATOR	ID
800-1	YEL GRN	GRN
1900-1	YEL RED	RED
1900-2	YEL BRN	BRN
1900-3	YEL BLU	BLU
1900-4	YEL SLT	SLT
800-1	YEL ORG	ORG
RESERVED	YEL WHT	WHT
RESERVED	YEL PPL	PPL

2.5 FREQUENCY	INDICATOR	ID
2500 -1	YEL WHT GRN	GRN
2500 -2	YEL WHT RED	RED
2500 -3	YEL WHT BRN	BRN
2500 -4	YEL WHT BLU	BLU
2500 -5	YEL WHT SLT	SLT
2500 -6	YEL WHT ORG	ORG
2500 -7	YEL WHT WHT	WHT
2500 -8	YEL WHT PPL	PPL



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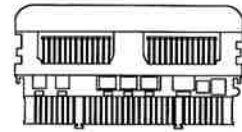
COLOR CODING AND NOTES

SHEET NUMBER:

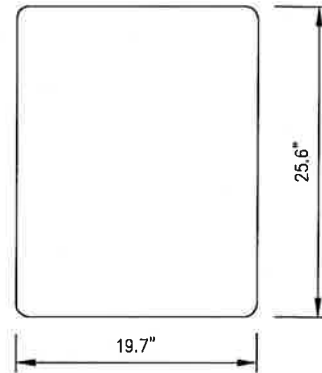
A-4

ANTENNA: NOKIA AAHC

RADOME MATERIAL: FIBERGLASS
 RADOME COLOR: LIGHT GREY
 DIMENSIONS, HxWxD.In(mim): 25.6"x19.7"x9.65" (651x501x245mm)
 WEIGHT: 103.6 lbs



TOP



FRONT



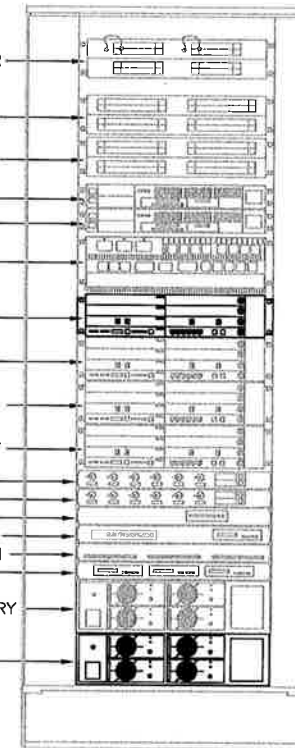
SIDE

NOKIA ANTENNA DETAIL

NO SCALE

1

- DS3 SURGE PROTECTOR
- POWER INJECTOR 5-8
- POWER INJECTOR 1-4
- 7210 SAS-M 2
- 7210 SAS-M 1
- 7205 SAR-B
- LTE-BBU
- LTE-BBU FDD
- CDMA MT-BBU GROWTH
- CDMA MT-BBU PRIMARY
- PDP1
- PDP2
- 15MHz SPLITTER
- ETHERNET HUB SEC-B
- PRIMARY PROTECTION T1
- SEC-B #1, #1 & #3
- RECTIFIER SHELF PRIMARY
- RECTIFIER SHELF



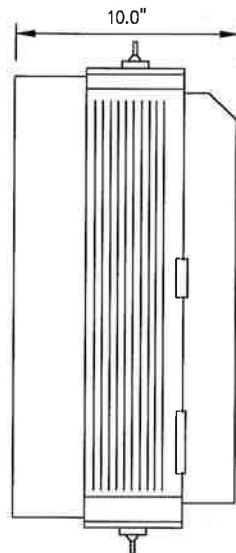
FRONT VIEW

EQUIPMENT IN EXISTING N.Y. MMBS

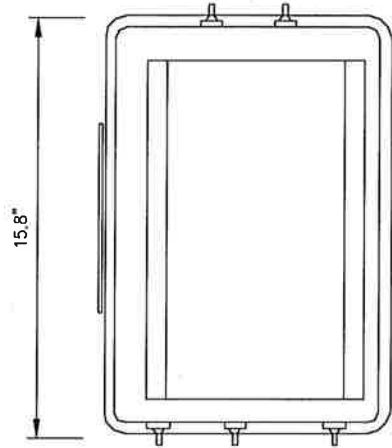
NO SCALE

2

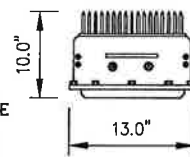
RRU: ALCATEL LUCENT RRH 800 MHz 2x50-800
 COLOR: LIGHT GREY
 WEIGHT: 69.1 LBS.



SIDE VIEW



FRONT VIEW



PLAN VIEW

NOTES

COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRU'S RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. DO NOT OPEN RRU PACKAGES IN THE RAIN.

800 RRU'S DETAIL

NO SCALE

3

DETAIL NIT USED

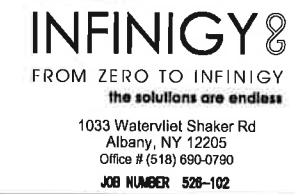
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A-5

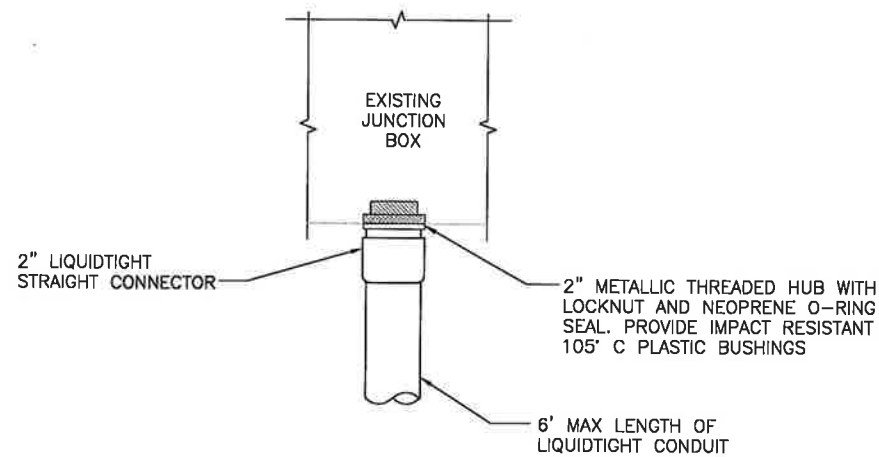
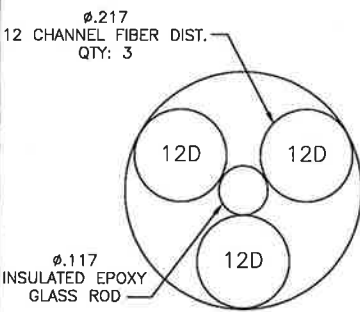
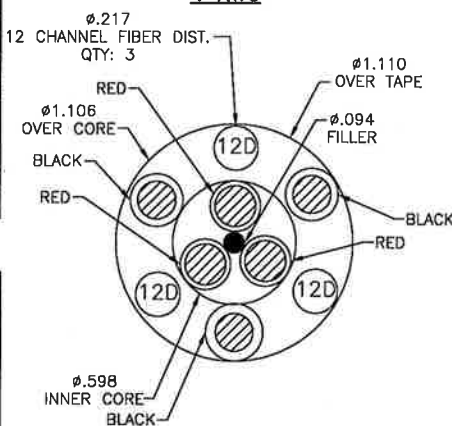
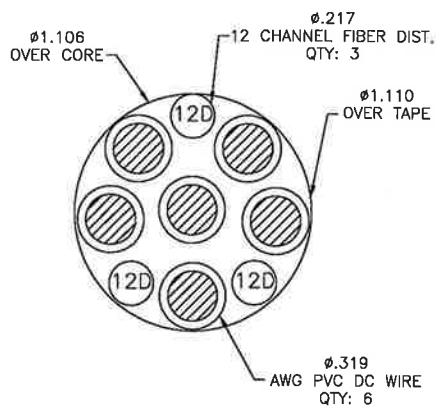
RFS HYBRIFLEX RISER CABLE SCHEDULE

Fiber Only (Existing DC Power)	Hybrid cable MN: HB058-M12-050F 12x multi-mode fiber pairs, Top: Outdoor protected connectors, Bottom: LC Connectors, 5/8 cable, 50 ft	50 ft
	MN: HB058-M12-075F	75 ft
	MN: HB058-M12-100F	100 ft
	MN: HB058-M12-125F	125 ft
	MN: HB058-M12-150F	150 ft
	MN: HB058-M12-175F	175 ft
	MN: HB058-M12-200F	200 ft
8 AWG Power	Hybrid cable MN: HB114-08U3M12-050F 3x 8 AWG power pairs, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 50 ft	50 ft
	MN: HB114-08U3M12-075F	75 ft
	MN: HB114-08U3M12-100F	100 ft
	MN: HB114-08U3M12-125F	125 ft
	MN: HB114-08U3M12-150F	150 ft
	MN: HB114-08U3M12-175F	175 ft
	MN: HB114-08U3M12-200F	200 ft
6 AWG Power	Hybrid cable MN: HB114-13U3M12-225F 3x 6 AWG power pair, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 225 ft	225 ft
	MN: HB114-13U3M12-250F	250 ft
	MN: HB114-13U3M12-275F	275 ft
	MN: HB114-13U3M12-300F	300 ft
4 AWG Power	Hybrid cable MN: HB114-21U3M12-325F 3x 4 AWG power pair, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 325 ft	325 ft
	MN: HB114-21U3M12-350F	350 ft
	MN: HB114-21U3M12-375F	375 ft

RFS HYBRIFLEX JUMPER CABLE SCHEDULE

Fiber Only	Hybrid Jumper cable MN: HBF012-M3-5F1 5 ft, 3x multi-mode fiber pairs, Outdoor & LC connectors, 1/2 cable	5 ft
	MN: HBF012-M3-10F1	10 ft
	MN: HBF012-M3-15F1	15 ft
	MN: HBF012-M3-20F1	20 ft
	MN: HBF012-M3-25F1	25 ft
	MN: HBF012-M3-30F1	30 ft
8 AWG Power	Hybrid Jumper cable MN: HBF058-08U1M3-5F1 5 ft, 1x 8 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 5/8 cable	5 ft
	MN: HBF058-08U1M3-10F1	10 ft
	MN: HBF058-08U1M3-15F1	15 ft
	MN: HBF058-08U1M3-20F1	20 ft
	MN: HBF058-08U1M3-25F1	25 ft
	MN: HBF058-08U1M3-30F1	30 ft
6 AWG Power	Hybrid Jumper cable MN: HBF058-13U1M3-5F1 5 ft, 1x 6 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 5/8 cable	5 ft
	MN: HBF058-13U1M3-10F1	10 ft
	MN: HBF058-13U1M3-15F1	15 ft
	MN: HBF058-13U1M3-20F1	20 ft
	MN: HBF058-13U1M3-25F1	25 ft
	MN: HBF058-13U1M3-30F1	30 ft
4 AWG Power	Hybrid Jumper cable MN: HBF078-21U1M3-5F1 5 ft, 1x 4 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 7/8 cable	5 ft
	MN: HBF078-21U1M3-10F1	10 ft
	MN: HBF078-21U1M3-15F1	15 ft
	MN: HBF078-21U1M3-20F1	20 ft
	MN: HBF078-21U1M3-25F1	25 ft
	MN: HBF078-21U1M3-30F1	30 ft

NOTE:
SPRINT CM TO CONFIRM HYBRID OR FIBER RISER CABLE AND HYBRID OR FIBER JUMPER CABLE MODEL NUMBERS IF HYBRID CABLES ARE REQUIRED BEFORE PREPARING BOM.



FIBER JUNCTION BOX PENETRATION

NO SCALE

2

CABLE CROSS SECTION DATA

NO SCALE

1

DETAIL NOT USED

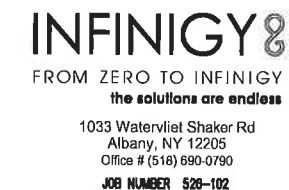
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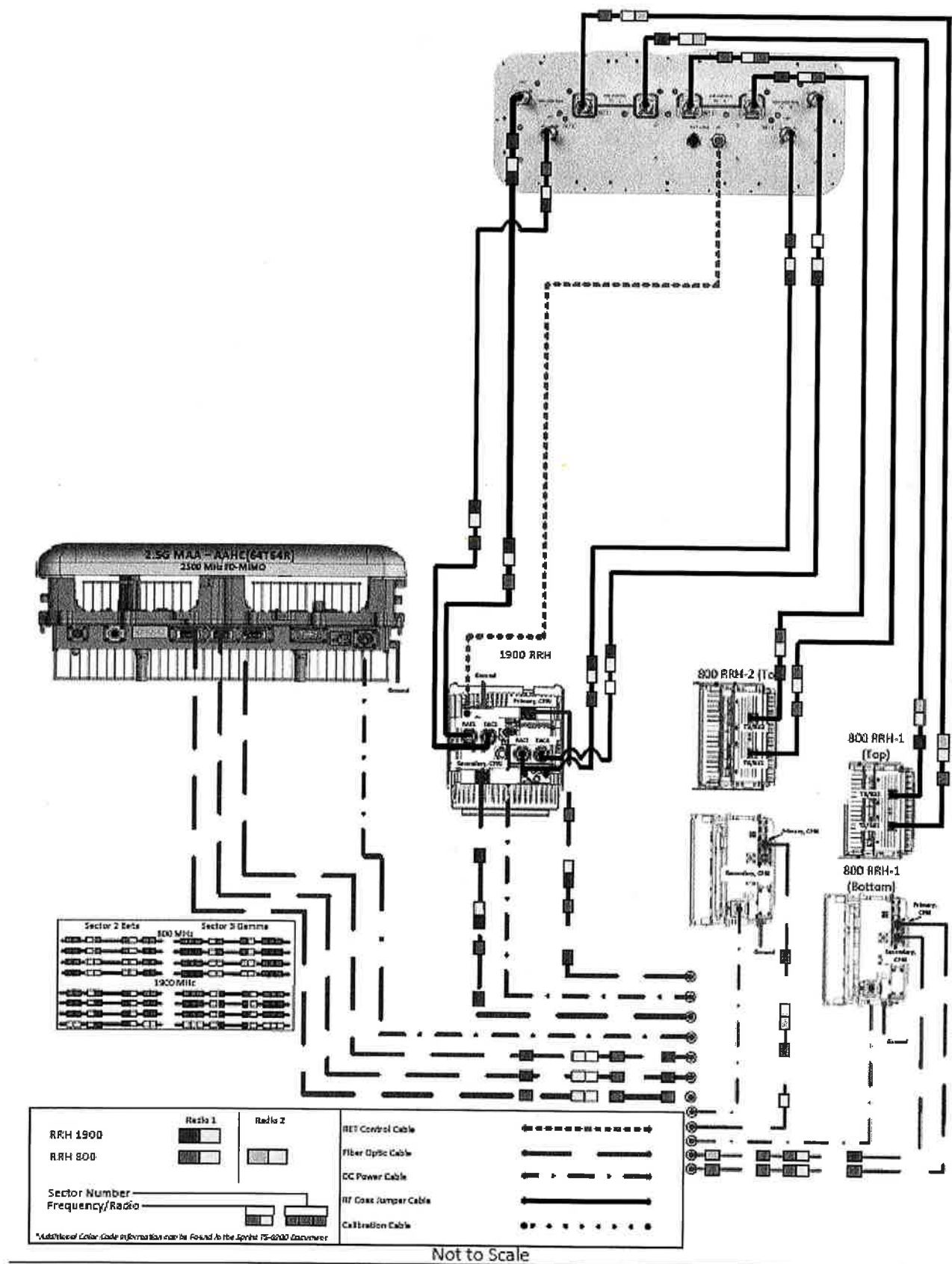
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CIVIL DETAILS

SHEET NUMBER:

A-6

ALU 21-MIMO NNVV-65B-R4 wo Filters



PLUMBING DIAGRAM

NO SCALE 1

PLANS PREPARED FOR:



PLANS PREPARED BY:



ENGINEERING LICENSE:



DRAWING NOTICE:

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REVISIONS:

DESCRIPTION	DATE	BY	REV
REVISED & REISSUED FOR PERMIT	05/16/18	BMM	2
REVISED & REISSUED FOR PERMIT	04/17/18	BMM	1
ISSUED FOR PERMIT	01/22/18	ASW	0

SITE NAME:

SNET

SITE CASCADE:

CT03XC377

SITE ADDRESS:

10 WILLARD RD
NORWALK, CT 06851

SHEET DESCRIPTION:

PLUMBING DIAGRAM

SHEET NUMBER:

A-7

PLANS PREPARED FOR:



PLANS PREPARED BY:



ENGINEERING LICENSE:



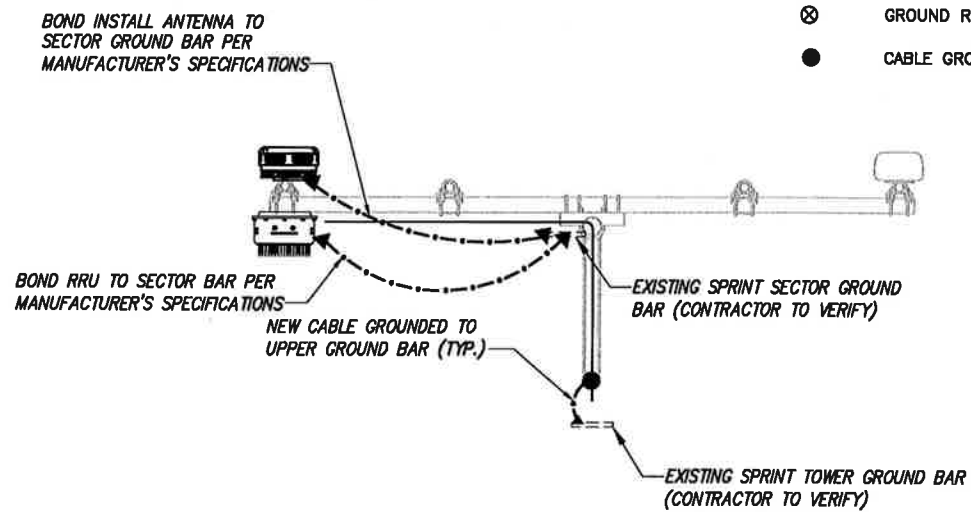
PLAN NOT USED

NO SCALE

1

LEGEND:

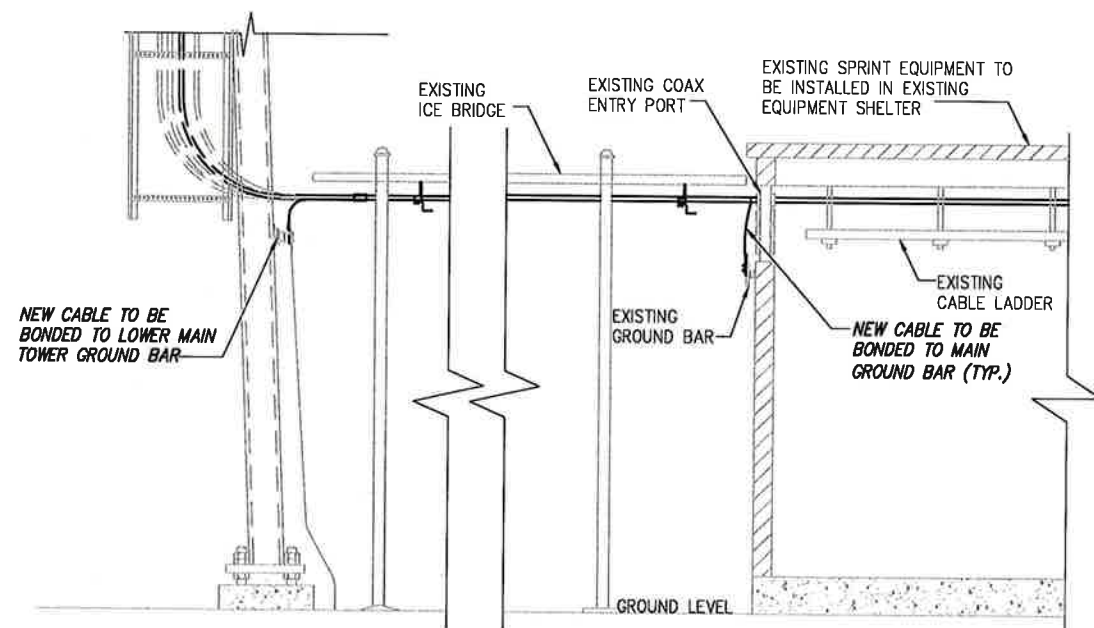
- EXISTING GROUND RING
- CADWELD CONNECTION (EXOTHERMIC WELD)
- ▲ MECHANICAL CONNECTION
- ⊗ GROUND ROD
- CABLE GROUND KIT



TYPICAL ANTENNA GROUNDING PLAN

NO SCALE

2



TYPICAL EQUIPMENT GROUNDING PLAN (ELEVATION)

NO SCALE

3

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ISSUED FOR PERMIT	01/22/18	ASW	0

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NORWALK, CT 06851

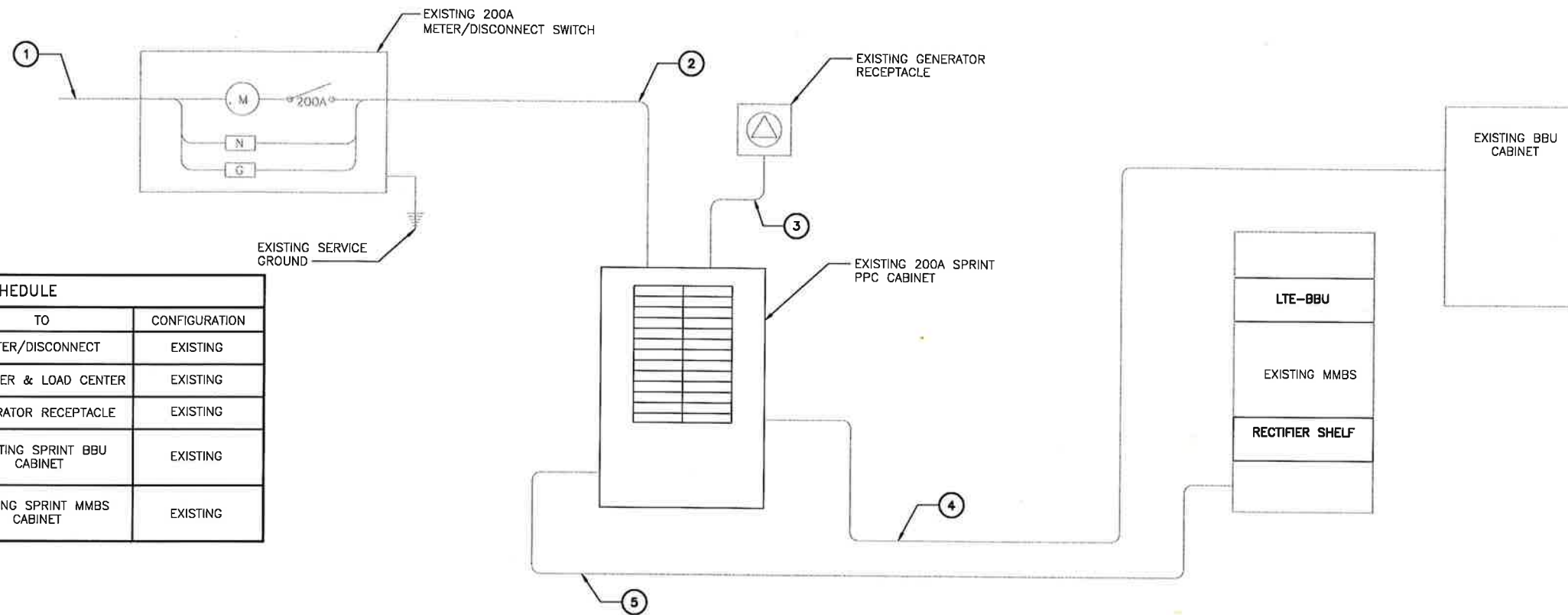
SHEET DESCRIPTION:

ELECTRICAL &
GROUNDING PLAN

SHEET NUMBER:

E-1

NOTES
 CG SHALL REFERENCE ALL SPECS FOR "CONNECTING THE POWER SUPPLY" OF THE NEW INSTALLATION DOCUMENTS, FOR ALL CONNECTION SPECIFICATIONS.



CIRCUIT SCHEDULE			
NO	FROM	TO	CONFIGURATION
①	UTILITY SOURCE	METER/DISCONNECT	EXISTING
②	METER/DISCONNECT	TRANSFER & LOAD CENTER	EXISTING
③	TRANSFER & LOAD CENTER	GENERATOR RECEPTACLE	EXISTING
④	TRANSFER & LOAD CENTER	EXISTING SPRINT BBU CABINET	EXISTING
⑤	TRANSFER & LOAD CENTER	EXISTING SPRINT MMBS CABINET	EXISTING

PLANS PREPARED FOR:

6580 Sprint Parkway
 Overland Park, Kansas 66251

PLANS PREPARED BY:

FROM ZERO TO INFINIGY
 the solutions are endless

1033 Watervliet Shaker Rd
 Albany, NY 12205
 Office # (518) 890-0790
 JOB NUMBER 528-102

ENGINEERING LICENSE:

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REUSED & REISSUED FOR PERMIT		04/17/18	BMM	1
ISSUED FOR PERMIT		01/22/18	ASW	0

SITE NAME:
SNET

SITE CASCADE:
CT03XC377

SITE ADDRESS:
 10 WILLARD RD
 NORWALK, CT 06851

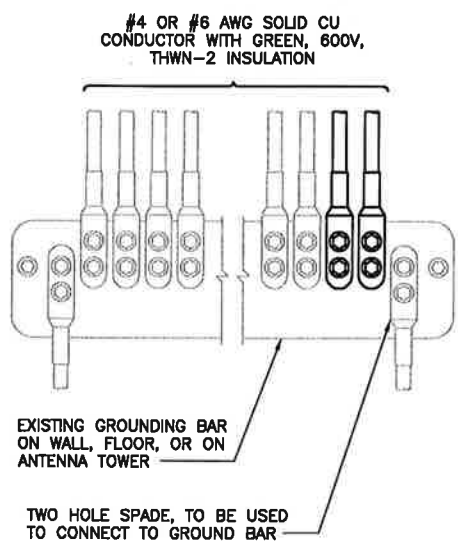
SHEET DESCRIPTION:
ELECTRICAL & GROUNDING DETAILS

SHEET NUMBER:
E-2

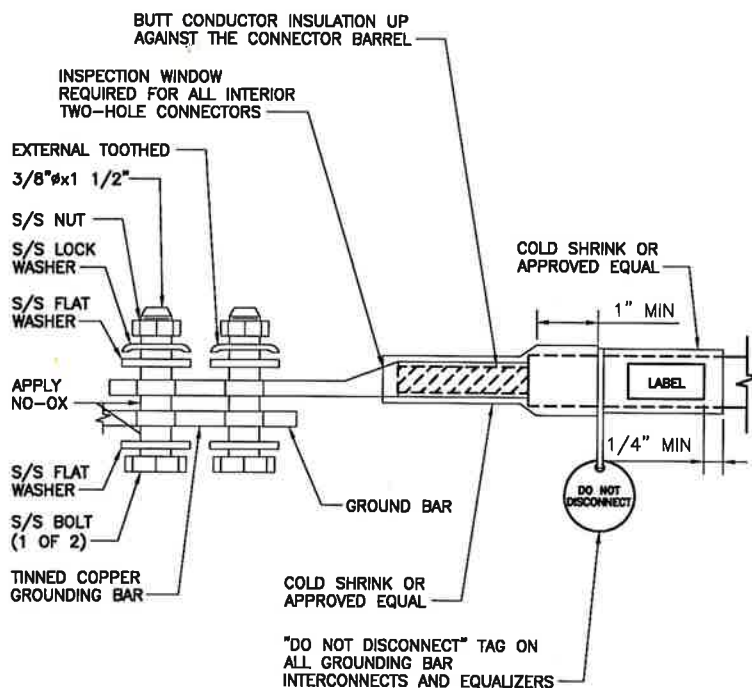
ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

1



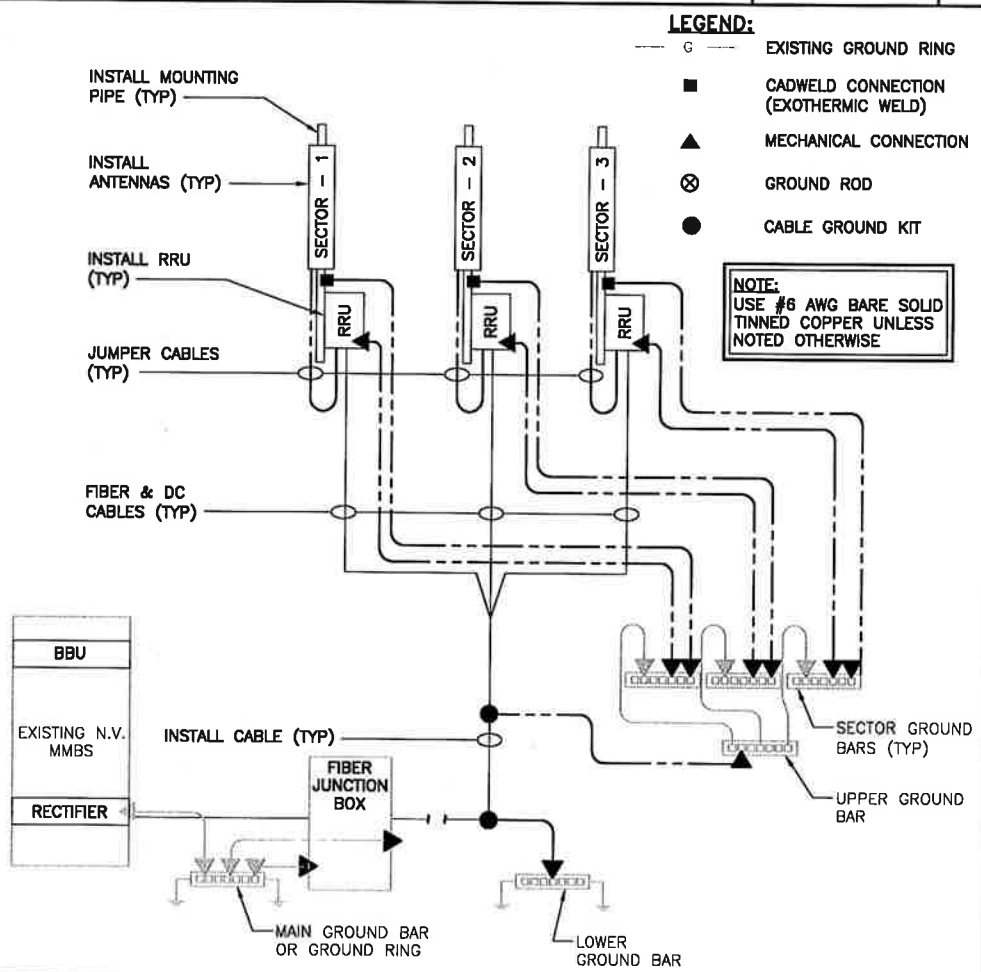
NOTES
 1. APPLY NO-OX TO LUG AND BAR CONTACT SURFACE. DO NOT COAT INLINE LUG.
 2. IF STOLEN GROUND BARS ARE ENCOUNTERED, CONTACT SPRINT CM FOR REPLACEMENT THREADED ROD KIT.



TWO HOLE LUG

NO SCALE

3



GROUNDING RISER DIAGRAM

NO SCALE

4

INSTALLATION OF GROUNDING CONDUCTOR TO GROUNDING BAR

NO SCALE

2