



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

September 25, 2024

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

RE: Notice of Exempt Modification for Verizon Wireless: 5000383847
Crown Site ID# 800529
890 Evergreen Avenue, Hamden, CT 06518
Latitude: 41° 24' 23.9 / Longitude: -72° 54' 16.3"

Dear Ms. Bachman:

Verizon Wireless currently maintains twelve (12) antennas at the 95-foot mount on the existing 108-foot silo structure located at 890 Evergreen Avenue, Hamden, CT. The property is owned by Connecticut Agricultural, and the tower is owned by Crown Castle. Verizon now intends to replace three (3) new antennas, and ancillary antenna equipment at the 95ft level. This modification/proposal includes hardware that is both 4G (LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Install New:

- (3) Samsung-MT6413-77A Antennas
- (3) Samsung-RF4439D-25A Radios
- Mount Modification

Remove:

- (3) Antel – BXA-70063/6CF Antenna
- (3) Nokia UHFA B25 Radios
- (3) Nokia UHIE B66A Radios

The facility was originally approved by the Connecticut Siting Council, docket No. 195 on October 8, 1999.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Lauren Garrett, Mayor, Town of Hamden and Eugene Livshits, Town Planner, Town of Hamden. Conn Agricultural Expt Station is the Property Owner. Crown Castle is the tower owner.

The Foundation for a Wireless World.

CrownCastle.com

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

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

Sincerely,

Jeffrey Barbadora
Permitting Specialist
1800 W. Park Drive
Westborough, MA 01581
(781) 970-0053
Jeff.Barbadora@crowncastle.com

Attachments

cc:

Lauren Garrett, Mayor
Town of Hamden
2750 Dixwell Avenue
Hamden, CT06518
203-287-7077

Eugene Livshits, Town Planner
Town of Hamden
2750 Dixwell Avenue
Hamden, CT06518
203-287-7077

Conn Agricultural Expt Station, Landowner
890 Evergreen Ave
Hamden, CT 06518
Crown Castle, Tower Owner

Connecticut Siting Council^(/CSC)

[CT.gov Home](#) [\(/\)](#) [Connecticut Siting Council](#) [\(/CSC\)](#) Hamden Docket No. 195 Decision

- [Decisions \(/CSC/Decisions/Decisions\)](#) >
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DOCKET NO. 195 - An application by Cellco Partnership d/b/a Bell Atlantic Mobile for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a telecommunications tower disguised as an agricultural silo located at Lockwood Farm, 890 Evergreen Avenue in Hamden, Connecticut.	}	Connecticut
		Siting
		Council
		October 8, 1999

Decision and Order

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

operation, and maintenance of a telecommunications tower, disguised as an agricultural silo, and associated equipment building located at Lockwood Farm, 890 Evergreen Avenue in Hamden, Connecticut.

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

1. The tower shall be constructed as proposed, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of BAM, Springwiche Cellular Limited Partnership (SCLP), and Nextel Communications of the Mid-Atlantic, Inc. (Nextel); and other entities, both public and private, but such tower shall not exceed a height of 108 feet above ground level (AGL). No antennas shall be mounted to the exterior of the tower, except for the Town of Hamden's public safety whip antenna(s) mounted to the top of the tower, if necessary, as approved by the Council.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include: a final site plan(s) for site development to include the location and specifications for the antennas, emergency generator and fuel tank, access road, utility line, and for the tower foundation and equipment building to be re-oriented north/south and relocated to maintain an appropriate set-back from residential properties; construction plans for water drainage, and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; provisions for the installation of radiofrequency transparent material; and provisions for the prevention and containment of spills and/or other discharge into surface water and groundwater bodies.
3. Upon the establishment of any new State or federal radiofrequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radiofrequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. If the facility does not initially provide, or permanently ceases to provide cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antenna becomes obsolete and ceases to function.
8. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

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

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

The parties and intervenors to this proceeding are:

APPLICANT Bell Atlantic Mobile	ITS REPRESENTATIVE Kenneth C. Baldwin, Esq. Robinson & Cole 280 Trumbull Street Hartford, CT 06103-3597 David S. Malko, P.E. Sandy M. Carter Bell Atlantic Mobile 20 Alexander Drive Wallingford, CT 06492
INTERVENORS Springwich Cellular Limited Partnership	ITS REPRESENTATIVE Peter W. vanWilgen Springwich Cellular Limited Partnership 500 Enterprise Drive Rocky Hill, CT 06067-3900
Nextel Communications of the Mid-Atlantic, Inc. d/b/a Nextel Communications	Christopher B. Fisher, Esq. Daniel F. Leary, Esq. Cuddy, Feder & Worby, Esq. 90 Maple Avenue White Plains, NY 10601



TOWN OF HAMDEN

CONNECTICUT

BOND RELEASE RECOMMENDATION/ACTION

MEMO TO: Planning & Zoning Commission

FROM: Joseph J. Venditto, Zoning Enforcement Officer

DATE: MARCH 7, 2002

RE: Bond Release

ADDRESS: 890 EVERGREEN Ave

PROJECT: SITE PLAN 00-1263

TOTAL BOND AMOUNT:	Present Amt.	Recommendation Amt. to Retain
Site Work	13,527.	0
Right of Way	0.	0
Subtotal	13,527.	0
Other 10%	1,473.	0
TOTAL	15,000.	0

Bond total covers all items listed or not listed. Categories are for estimation purposes only.

Comments:

ALL SITE WORK COMPLETE. BOND RELEASE
CAN BE RECOMMENDED.

\$60.00
FEE

TOWN OF HAMDEN
APPLICATION FOR CERTIFICATE OF ZONING COMPLIANCE

Property Address 890 EVAN GREEN ^{DRIVE} ~~DRIVE~~ Zoning District R-4
Property Owner CROWN CASTLE ~~PLANNING~~ ^{LLC} Phone # CALL (860) 306-0337
Property Owner Address 703 HARRISON AVE, GLOSTONBURY, CT 06033
Type of Zoning Permit CONDOMINIUM SITING COUNCIL

I certify that the work required has been completed in accordance with approved plans except as noted on attached as-built drawing.

Applicant Signature [Signature]
Owner/Agent

Date 8-26-02

PRINTED NAME WILLIAM W. WATSON - JR

ADDRESS 703 HARRISON AVE, GLOSTONBURY, CT 06033

TELEPHONE # (860) 657-1567

FAX # (860) 633-7078

Certificate # _____ Certificate of Zoning Compliance

Zoning Enforcement Officer Findings: based upon inspection of MARCH 5, 2002

Unconditional ☒ Meets all requirements

Conditional ☐ See list below

Following is a list of requirements determined from inspection which while not yet complete do not adversely affect use/occupancy of the premises and for which sufficient security is being held:

Signature [Signature]
Zoning Enforcement Officer

Date 3/5/02

This is not a Certificate of Occupancy under the Building Code

Rev. 08/16/01

RECEIVED
TOWN OF HAMDEN

1-3-6 2002

PLANNING AND
ZONING DEPT.



Crown Castle Atlantic LLC
Northeast Region
703 Hebron Avenue, 2nd Floor
Glastonbury, CT 06033

Tel 860 633.9369
Fax 860 633.7078
www.crowncastle.com

February 25, 2002

Mr. Joseph J. Venditto
Town of Hamden
2372 Whitney Avenue
Hamden, CT 06518

Re: Hamden Telecommunications Facility
CT Agricultural Station
Hamden, CT

Dear Mr. Venditto,

Please find enclosed two (2) stamped original as built drawings for the referenced Telecommunications facility.

Also enclosed is a copy of a letter dated January 11, 2002 from Mr. Roberts of URS Corporation the A&E firm of record for this project addressing the Bollard issue.

I am requesting that a Certificate of Zoning Compliance be issued for this project.

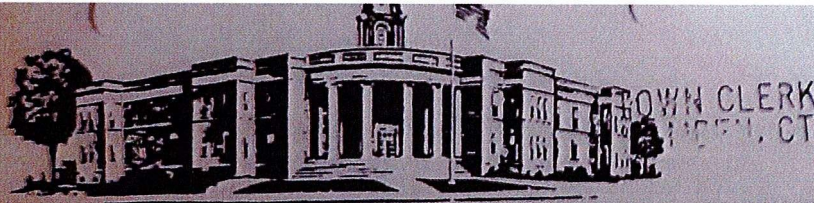
If you have any questions and/or need any additional information please do not hesitate to call. If I'm not in the office you can reach me on my cell phone (860) 306-0337.

Sincerely,
Crown Atlantic Company, LLC

William W. Watson
Project Manager

WWW:www

RECEIVED
TOWN OF HAMDEN
FEB 25 2002
PLANNING AND
ZONING DEPT.



TOWN OF HAMDEN

CONNECTICUT

2001 OCT -3 P 12:00

REC'D AND FILED BY

Draft Minutes subject to Commission approval

MINUTES: ZONING SECTION, Planning & Zoning Commission, Town of Hamden, held a Public Hearing and Regular Meeting on Tuesday, September 25, 2001 and the following were reviewed:

Commissioners in Attendance:

Mr. Crocco
Mr. Del Vecchio
Mr. Sims
Mr. Cesare, (for Mr. Vegliante)
Ms. Woodward, (for Ms. Benevides)

Staff in Attendance:

Mr. O'Brien, Town Planner
Mr. Lee, Town Attorney
Ms. Raccio, Stenographer
Ms. Gaiolini, Clerk

Mr. Del Vecchio opened the Regular Meeting at 7:10 p.m. He introduced the Commission, and staff and gave an overview of the procedures for the evening.

A. Regular Meeting

1. Site Plan/WS 01-1308
72 Crest Way, Lot #12
Office/Storage
Robert Massaro, Applicant
Deadline: October 18, 2001

Bernard Wright, 71 Charnes Dr., East Haven, CT. Will answer any questions the Commission may have.

Mr. O'Brien stated this had been submitted several months back. There were questions from the Town Engineer, those questions have since been answered & incorporated on the map. Mr. Savarese's letter dated 9/20/01 states the plan is now satisfactory to his department. The comments from December 18th have been addressed. RWA comments dated 9/17/01. The comment on slope stabilization has already been discussed.

Mr. Del Vecchio said item #3 (stabilization) will be taken care of, it has already been discussed with the applicant. Mr. O'Brien noted the parking lot is not paved but crushed stone. Sometimes that is better with respect to drainage. Mr. Del Vecchio read the RWA letter. Mr. Wright said there are 3 dry wells to retain and also take any water coming down the slope. Also provided pipe from dry well to dry well so if 1 fills up it drains into next one. No heavy equipment to speak of. Mr. Crocco questioned location of parking and catch basins. 2 in the crushed stone part and 1 in the black top (the front is black top). Mr. Del Vecchio asked if Mr. Wright had reviewed the Town Planner's recommendations. Mr. Wright answered yes, noting the erosion and sediment control will be in place and iron pins set at a later date. As built site plan to Al Savarese. Will post bond after permit issued. Dumpster to the rear of the building. They don't need it because all they have is office space, but if required by the Town, they will provide. Mr. Crocco questioned the warehouse itself, above the office - you're not asking for storage on top? Mr. Wright answered, not right now. Mr. Crocco also asked Mr. O'Brien for clarification on the placing of corner pins & bond releases.

Mr. Sims motions to approve 01-1308 with the recommendations of the Town Planner:

- Parking location and handicapped parking to be approved by Town Planner
- Dumpster location to be approved by Town Planner
- Submit slope stabilization plan to Town Planner & Town Engineer
- Erosion sediment controls installed prior to beginning of construction
- RWA recommendations of letter dated 9/17/01 to be incorporated
- Iron pins to be set
- No outdoor storage
- Post bond prior to zoning permit

Mr. Cesare seconds. Unanimous. **APPROVED.**

B. Informational

Mr. Del Vecchio noted item B is Informational. There is actually no action being taken on either of these 2 items. These are administrative bond releases. This Commission has voted and given the Town Planner the authority to release up to \$15,000.00. Both released per Roger O'Brien.

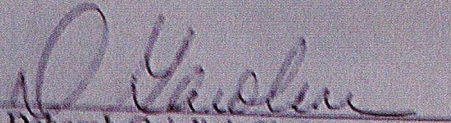
1. Site Plan 00-1263
890 Evergreen Ave./Lockwood Farms
Administrative Bond Release \$15,000.00
Requested by Crown Castle
2. Site Plan 01-1307
88 Mulberry Hill Rd.
Single Family Lot
Bond Release \$2,200.00
Requested by Joan Wagner

C. Approval of Minutes

1. Approve Minutes of June 26, 2001 Regular Meeting. (Mr. Sims, Mr. Crocco & Mr. Del Vecchio were present at that meeting and can vote). Mr. Crocco motions to approve as written. Mr. Sims seconds. **APPROVED.**
2. Approve Minutes of July 24, 2001 Regular Meeting. Mr. Sims motions to approve as written. Mr. Crocco seconds. **APPROVED.**

Ms. Woodward motions to adjourn. Mr. Cesare seconds. Closed at 7:30 p.m.

Submitted by:


Deborah Gaiolini, Clerk

890 EVERGREEN AVE

Location	890 EVERGREEN AVE	Mblu	2930/ 081/ 01/ /
Acct#		Owner	CONN AGRICULURAL EXPT STATION
Assessment	\$477,750	Appraisal	\$682,500
PID	123443	Building Count	1

Current Value

Appraisal					
Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2023	\$400,000	\$32,500	\$250,000	\$0	\$682,500
Assessment					
Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2023	\$280,000	\$22,750	\$175,000	\$0	\$477,750

Owner of Record

Owner	CONN AGRICULURAL EXPT STATION	Sale Price	\$0
Co-Owner		Certificate	
Address	890 EVERGREEN AVE HAMDEN, CT 06518	Book & Page	0064/0135
		Sale Date	01/04/1911
		Instrument	

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
CONN AGRICULURAL EXPT STATION	\$0		0064/0135		01/04/1911

Building Information

Building 1 : Section 1

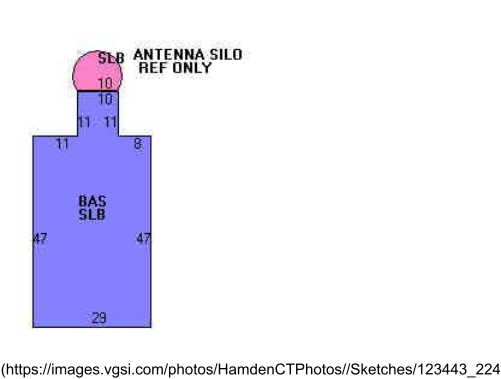
Year Built: 2000
Living Area: 1,473
Building Percent Good: 86

Building Attributes	
Field	Description
Style:	Telephone Bldg
Model	Ind/Comm
Grade	C
Stories:	1
Occupancy	1.00
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asphalt
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Hot Air-no Duc

Building Photo

 Building Photo
(https://images.vgsi.com/photos/HamdenCTPhotos//0045\20220208_06_4)

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	1,473	1,473
SLB	Slab	1,578	0

AC Type	Central			3,051	1,473
Struct Class					
Bldg Use	RAD/TV TR M96				
Total Rooms					
Total Bedrms	00				
Total Baths	0				
1st Floor Use:	4330				
Heat/AC	HEAT/AC SPLIT				
Frame Type	MASONRY				
Baths/Plumbing	NONE				
Ceiling/Wall	NONE				
Rooms/Prtns	AVERAGE				
Wall Height	10.00				
% Comn Wall					

Extra Features

Extra Features				<u>Legend</u>
Code	Description	Size	Value	Bldg #
GEN	GENERATOR	1.00 UNITS	\$12,500	1
GEN	GENERATOR	1.00 UNITS	\$20,000	1

Land

Land Use		Land Line Valuation	
Use Code	4310	Size (Acres)	0
Description	TEL REL TW M96	Frontage	
Zone	R4	Depth	
Neighborhood	110	Assessed Value	\$0
Alt Land Appr	No	Appraised Value	\$0
Category			

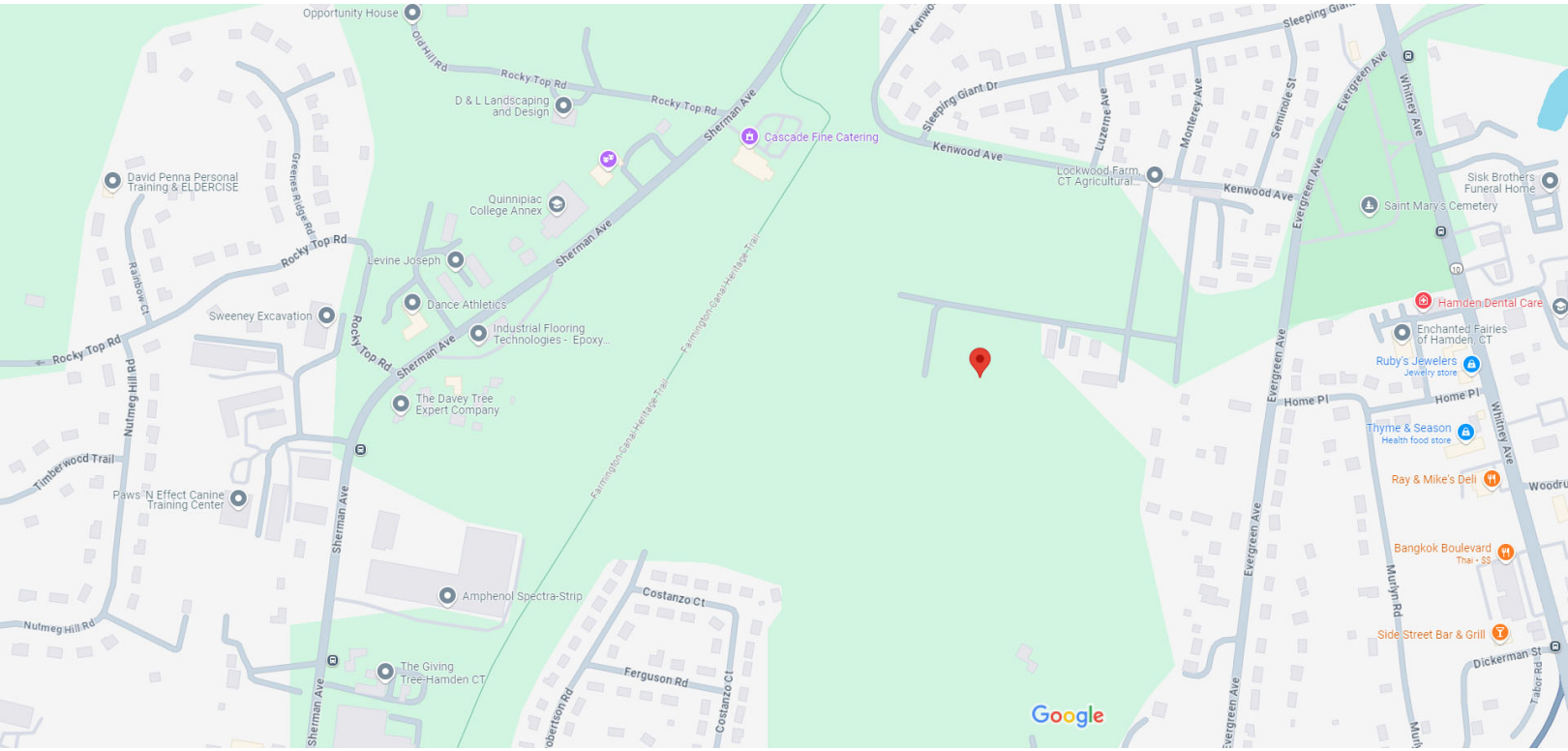
Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
CELL	CELL SITE			1.00 UNITS	\$250,000	1

Valuation History

Appraisal					
Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2022	\$137,700	\$12,900	\$0	\$165,000	\$315,600

Assessment					
Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2022	\$96,390	\$9,030	\$0	\$105,000	\$210,420



Map data ©2024 Google 200 ft



890 Evergreen Ave

- [Directions](#)
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- [Nearby](#)
- [Send to phone](#)
- [Share](#)

890 Evergreen Ave, Hamden, CT 06518

C34V+HJ Hamden, Connecticut

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Your shipment was delivered.

Delivery Date

Wed, 09/25/2024

10:01am

How was your delivery?



Tracking details

Tracking ID

778797903610

From

Crown Castle
1800 W. Park Drive
WESTBOROUGH, MA 01581

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Your shipment was delivered.

Delivery Date

Wed, 09/25/2024
10:01am

How was your delivery?



Tracking details

Tracking ID

778797872514

From

Crown Castle

1800 W. Park Drive

WESTBOROUGH, MA, US

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Your shipment was delivered.

Delivery Date

Wed, 09/25/2024

11:53am



Delivery picture not showing?

[View in browser](#)

GET PROOF OF DELIVERY

Report missing package

From	Crown Castle 1800 W. Park Drive WESTBOROUGH, MA, US 01581
To	Conn. Agricultural Station 890 Evergreen Ave HAMDEN, CT, US 06518
Ship date	Tue 9/24/2024 05:25 PM
Number of pieces	1
Total shipment weight	0.50 LB
Service	FedEx Standard Overnight



Colliers Engineering & Design, Architecture,
Landscape Architecture, Surveying, CT P.C.
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10226600
Colliers Engineering & Design Project #: 24777027

June 19, 2024

Site Information

Site ID: 5000383847-VZW / HAMDEN NORTH CT
Site Name: HAMDEN NORTH CT
Carrier Name: Verizon Wireless
Address: 890 Evergreen Ave.
Hamden, Connecticut 06518
New Haven County
Latitude: 41.406639°
Longitude: -72.904528°

Structure Information

Tower Type: 100-Ft Silo
Mount Type: 8.00-Ft Pipe Mount

FUZE ID # 16227594

Analysis Results

Pipe Mount: **3.5% Pass***

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

***Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Madison Shell



Digitally signed by Dejian Xu
Date: 2024.06.20 09:50:08-04'00'

Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 674926, dated October 30, 2023
Mount Mapping Report	RKS Design & Engineering, LLC, Site ID: VZW: 469224, Dated April 24, 2024

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.993
Seismic Parameters:	S_s : 0.202 g S_1 : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): N/A Maintenance Load, L_v : N/A Maintenance Load, L_m : N/A
Analysis Software:	RISA-3D (V20)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
90.00	95.00	3	Samsung	MT6413-77A	Added
		3	Samsung	RF4439d-25A	
		3	Amphenol Antel	BXA-80080-4CF-EDIN	Retained
		6	Commscope	JAHH-65B-R3B	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Commscope	CBC78T-DS-43-2X	
		2	Raycap	RRFDC-3315-PF-48*	

* Equipment is mounted on separate mounting pipes and do not have any change in loading. They are not included in this mount analysis.

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Mount Pipe</i>	<i>3.5%</i>	<i>Pass</i>
<i>Mount Connection</i>	<i>1.2%</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	3.5%
---	-------------

Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Alpha 1 Mount Pipe	90.0	N14	158	0	0.045	0.000	158	0	0.045	0.000
Alpha 2 Mount Pipe	90.0	N12	330	0	0.036	0.000	330	0	0.036	0.000
Alpha 3 Mount Pipe	90.0	N9	137	0	0.035	0.000	137	0	0.035	0.000
Alpha 4 Mount Pipe	90.0	N7	83	0	0.007	0.000	83	0	0.007	0.000
Beta 1 Mount Pipe	90.0	N5	158	0	0.045	0.000	158	0	0.045	0.000
Beta 2 Mount Pipe	90.0	N10	330	0	0.036	0.000	330	0	0.036	0.000
Beta 3 Mount Pipe	90.0	N27	137	0	0.034	0.000	137	0	0.034	0.000
Beta 4 Mount Pipe	90.0	N25	83	0	0.007	0.000	83	0	0.007	0.000
Gamma 1 Mount Pipe	90.0	N22	158	0	0.045	0.000	158	0	0.045	0.000
Gamma 2 Mount Pipe	90.0	N20	330	0	0.036	0.000	330	0	0.036	0.000
Gamma 3 Mount Pipe	90.0	N18	137	0	0.034	0.000	137	0	0.034	0.000
Gamma 4 Mount Pipe	90.0	N16	83	0	0.007	0.000	83	0	0.007	0.000

Notes:

- Axial loads act along the axis of the supporting structure
- Lateral reactions act perpendicular to the supporting structure
- Moment loads introduce bending moment to the supporting structure
- Torsion loads introduce twisting moment to the supporting structure
- Batch solutions by individual load cases are included at the end of this document

Requirements:

The existing mounts are **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

N/A

If required, ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other. Separate review fees will apply.

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000383847

SMART Project #: 10226600

Fuze Project ID: 16227594

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- *Photos taken at ground level*
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
- ☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

- ☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

N/A

Response:

Special Instruction Confirmation:

- ☐ The contractor has read and acknowledges the above special instructions.
- ☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- ☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

- ☐ The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

--

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Contractor to provide measurement from top of the highest equipment/steel to the bottom of the lowest equipment/steel by documenting it using the most appropriate illustration below along with supporting photos:

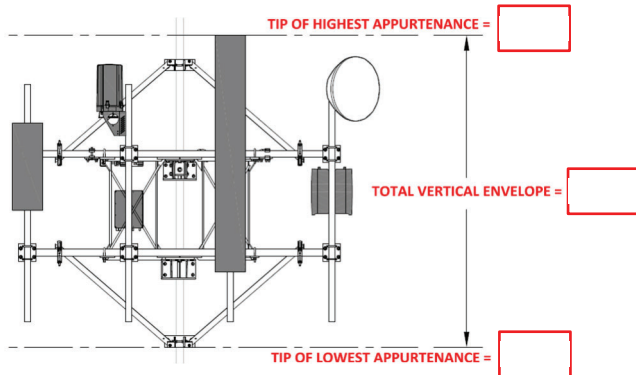


Illustration #1

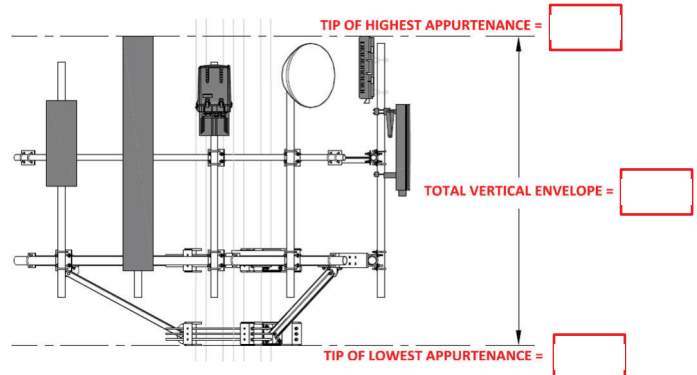


Illustration #2

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	



Sector: **A**

6/18/2024

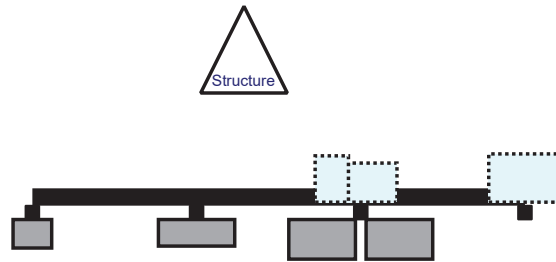
Structure Type: Rooftop

10226600

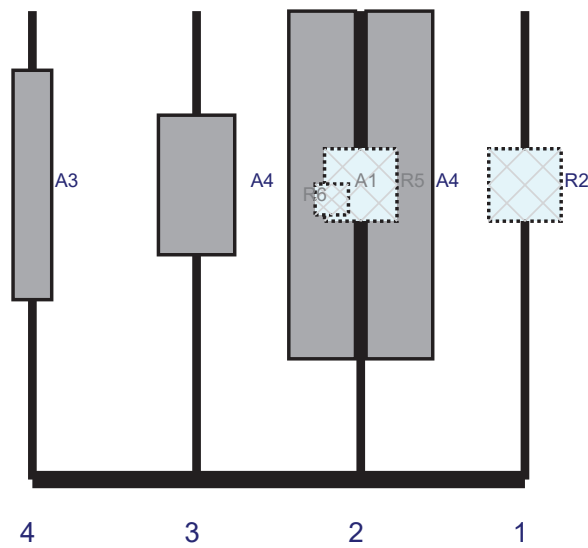
Mount Elev: 90.00

Page: 1

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	RF4439d-25A	15	15	102	1	a	Behind	36	0	Added	
A4	JAHH-65B-R3B	72	13.8	68	2	a	Front	36	-8	Retained	04/24/2024
A4	JAHH-65B-R3B	72	13.8	68	2	b	Front	36	8	Retained	04/24/2024
R5	B5/B13 RRH-BR04C	15	15	68	2	a	Behind	36	0	Retained	04/24/2024
R6	CBC78T-DS-43-2X	6.4	6.9	68	2	a	Behind	39	-6	Retained	04/24/2024
A1	MT6413-77A	28.9	15.8	34	3	a	Front	36	0	Added	
A3	BXA-80080-4CF-EDIN	47.5	8		4	a	Front	36	0	Retained	04/24/2024

Sector: **B**

6/18/2024

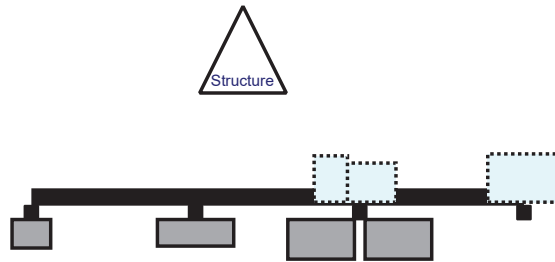
Structure Type: Rooftop

10226600

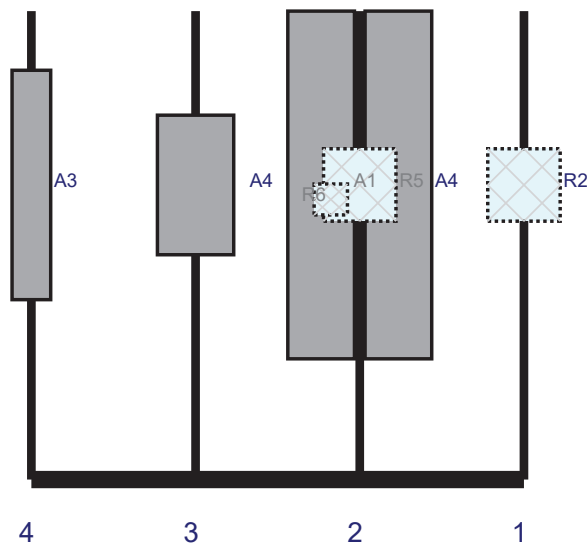
Mount Elev: 90.00

Page: 2

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	RF4439d-25A	15	15	102	1	a	Behind	36	0	Added	
A4	JAHH-65B-R3B	72	13.8	68	2	a	Front	36	-8	Retained	04/24/2024
A4	JAHH-65B-R3B	72	13.8	68	2	b	Front	36	8	Retained	04/24/2024
R5	B5/B13 RRH-BR04C	15	15	68	2	a	Behind	36	0	Retained	04/24/2024
R6	CBC78T-DS-43-2X	6.4	6.9	68	2	a	Behind	39	-6	Retained	04/24/2024
A1	MT6413-77A	28.9	15.8	34	3	a	Front	36	0	Added	
A3	BXA-80080-4CF-EDIN	47.5	8		4	a	Front	36	0	Retained	04/24/2024

Sector: C

6/18/2024

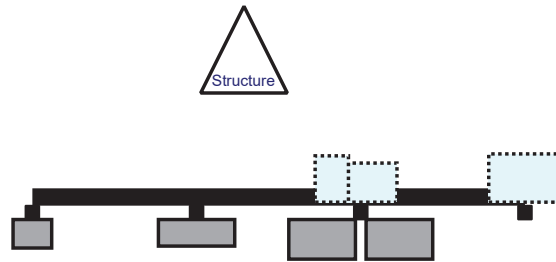
Structure Type: Rooftop

10226600

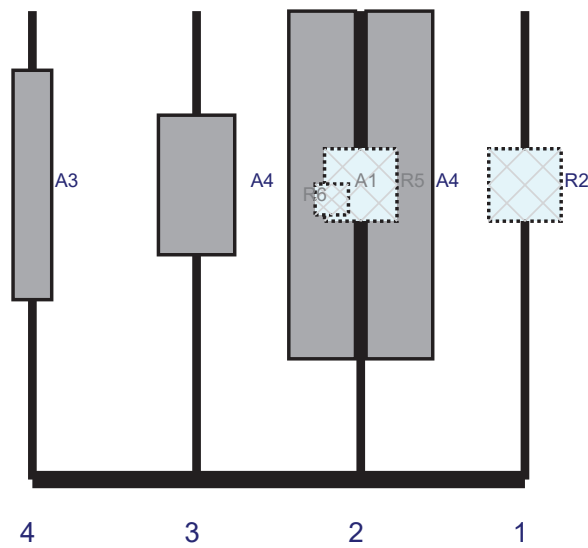
Mount Elev: 90.00

Page: 3

Plan View



Front View - Looking at Structure

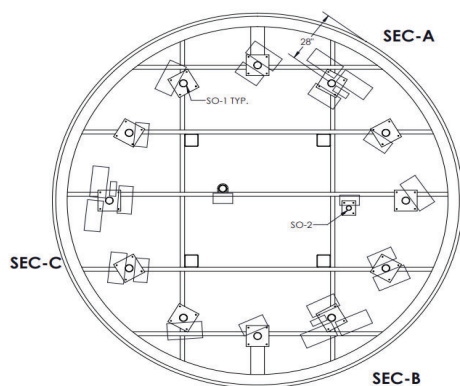


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	RF4439d-25A	15	15	102	1	a	Behind	36	0	Added	
A4	JAHH-65B-R3B	72	13.8	68	2	a	Front	36	-8	Retained	04/24/2024
A4	JAHH-65B-R3B	72	13.8	68	2	b	Front	36	8	Retained	04/24/2024
R5	B5/B13 RRH-BR04C	15	15	68	2	a	Behind	36	0	Retained	04/24/2024
R6	CBC78T-DS-43-2X	6.4	6.9	68	2	a	Behind	39	-6	Retained	04/24/2024
A1	MT6413-77A	28.9	15.8	34	3	a	Front	36	0	Added	
A3	BXA-80080-4CF-EDIN	47.5	8		4	a	Front	36	0	Retained	04/24/2024

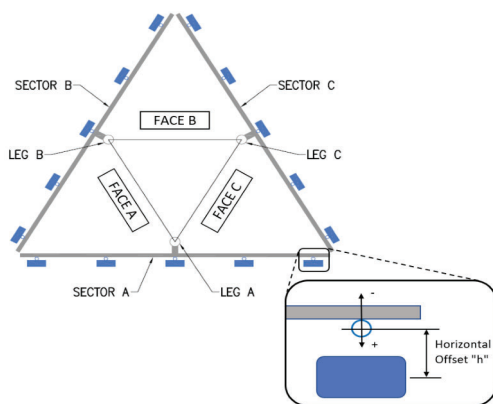


Antenna Mount Mapping Form (PATENT PENDING)				FCC #
				UNKNOWN
Tower Owner:	UNKNOWN		Mapping Date:	4/24/2024
Site Name:	VZW: HAMDEN NORTH CT		Tower Type:	Other
Site Number or ID:	VZW: 469224		Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC		Mount Elevation (Ft.):	90.6

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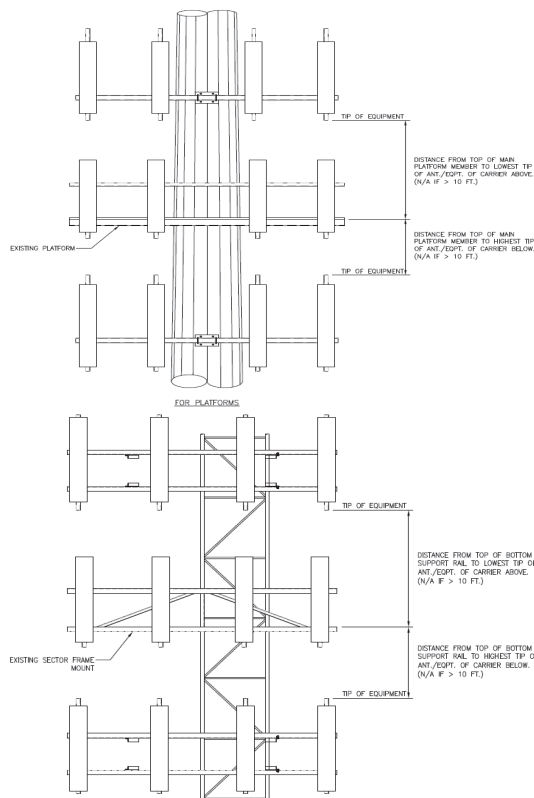
ANTENNA PLAN VIEW



Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 3.5"ØX0.216"X97" LONG	97.00		C1	PIPE 3.5"ØX0.216"X97" LONG	97.00	
A2	PIPE 3.5"ØX0.216"X97" LONG	97.00		C2	PIPE 3.5"ØX0.216"X97" LONG	97.00	
A3	PIPE 3.5"ØX0.216"X97" LONG	97.00		C3	PIPE 3.5"ØX0.216"X97" LONG	97.00	
A4	PIPE 3.5"ØX0.216"X97" LONG	97.00		C4	PIPE 3.5"ØX0.216"X97" LONG	97.00	
A5				C5			
A6				C6			
B1	PIPE 3.5"ØX0.216"X97" LONG	97.00		D1			
B2	PIPE 3.5"ØX0.216"X97" LONG	97.00		D2			
B3	PIPE 3.5"ØX0.216"X97" LONG	97.00		D3			
B4	PIPE 3.5"ØX0.216"X97" LONG	97.00		D4			
B5				D5			
B6				D6			
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
Please enter additional information or comments below.							
Mount CL was measured with rangefinder from bottom of mount bracket/handrail to top of foundation and Adding foundation height.							
LEG SIZE HSS 6"X6"							
Tower Face Width at Mount Elev. (ft.): 4.83 Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):							

	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center- line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}	B66A RRH4X45	11.80	7.20	25.80		95.5167	38.00	-6.50		77
Ant _{1b}	BXA-171063-12BF-ED	6.10	4.10	72.50		95.4542	38.75	8.50	30.00	77
Ant _{1c}										
Ant _{2a}	CBC78T-DS-43-2X	6.90	9.60	6.40		94.8292	46.25	-5.75		89
Ant _{2b}	(2) JAHH-65B-R3B	13.80	8.20	72.00		95.35	40.00	13.50	30.00	86
Ant _{2c}	RFV01U-D2A	15.00	8.10	15.00		95.1	43.00	-6.75		86
Ant _{3a}	B25 RRH4X30	12.00	7.20	21.20		96.0167	32.00	-6.25		100
Ant _{3b}										
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	BXA-80080-4CF-EDIN	8.00	5.90	47.50		96.3708	27.75	10.50	30.00	105
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff	RRFDC-3315-PF-48	15.73	10.25	25.66		94.9				64
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Antenna Layout (Looking Out From Tower)

[illegible]

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	COAX TOTAL (2): (2) 1.5"Ø HYBRID	
2		
3		
4		
5		
6		
7		
8		

Mapping Notes
1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.) 2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness. 3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab. 4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type. 5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required. 6. Please measure and report the size and length of all existing antenna mounting pipes. 7. Please measure and report the antenna information for all sectors. 8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

SMART Tool[®]
Vendor

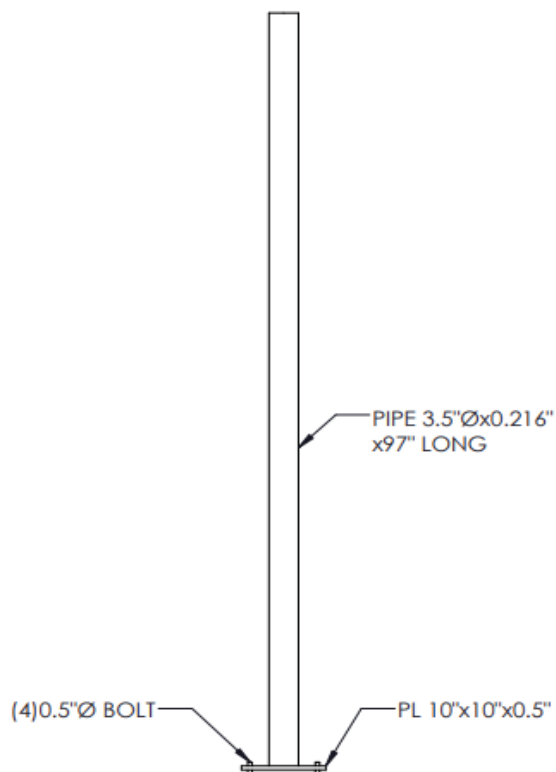
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

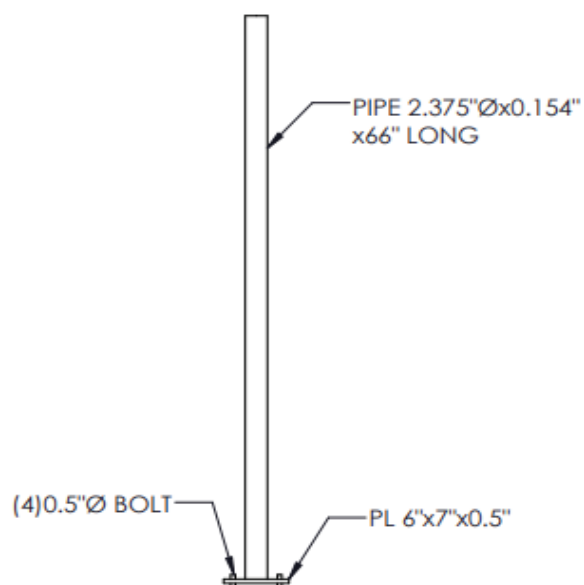
Tower Owner:	UNKNOWN	Mapping Date:	4/24/2024
Site Name:	VZW: HAMDEN NORTH CT	Tower Type:	Other
Site Number or ID:	VZW: 469224	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	90.6

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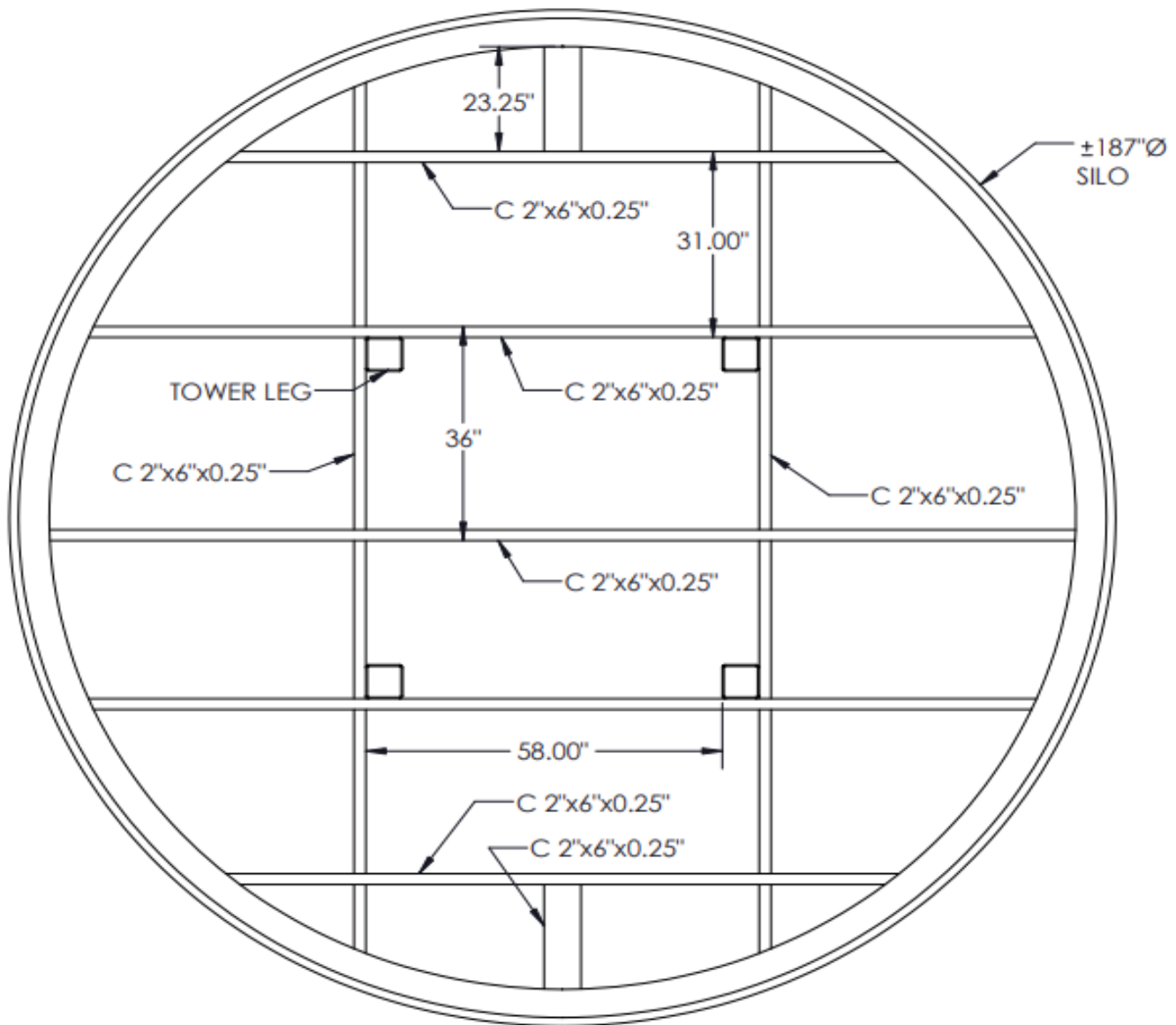
Please Insert Sketches of the Antenna Mount



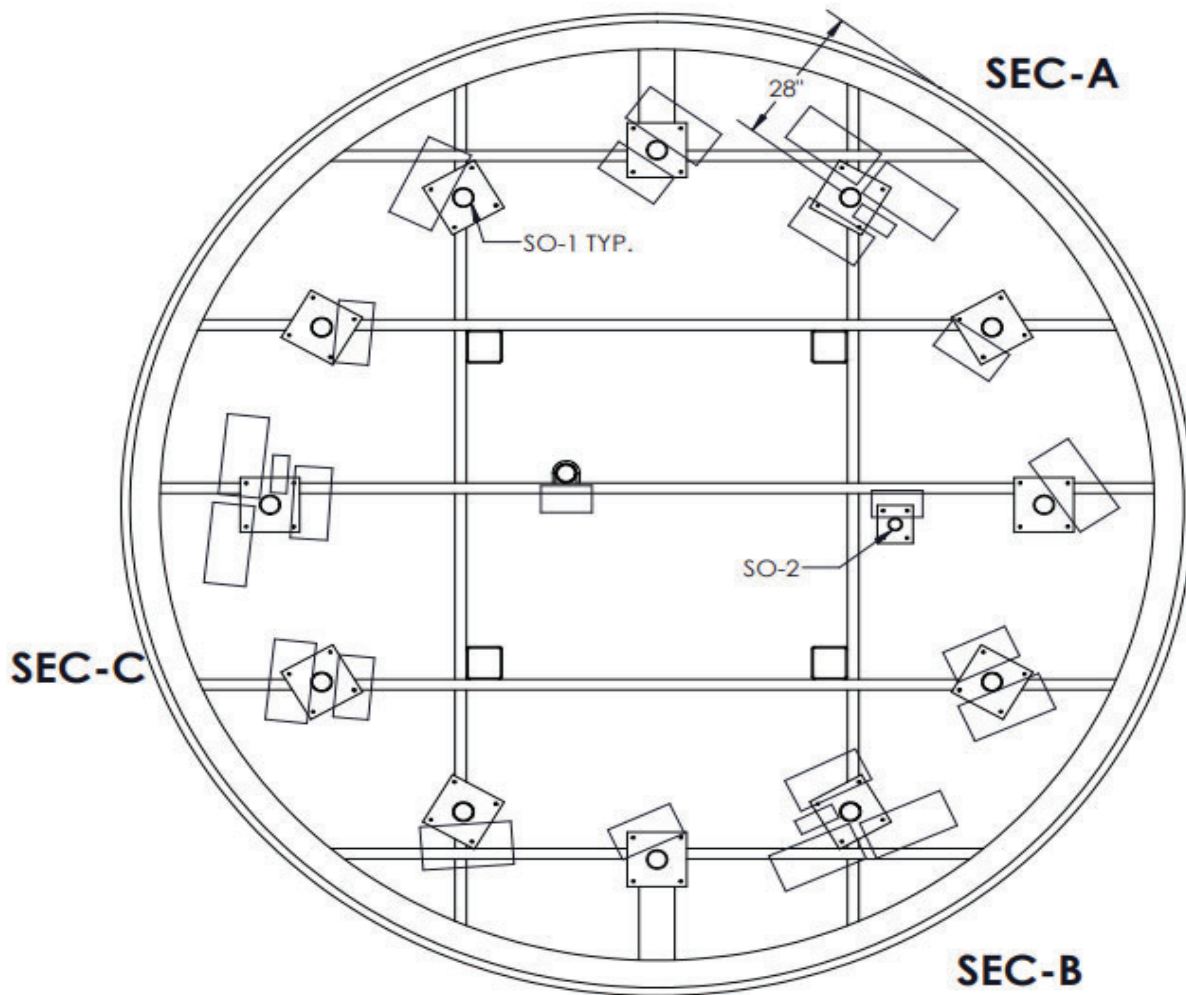
STAND OFF VIEW-1



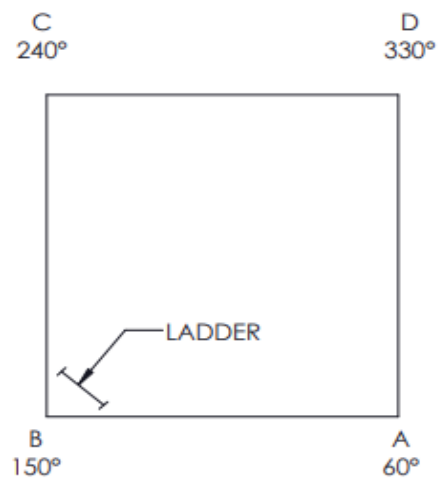
STAND OFF VIEW-2



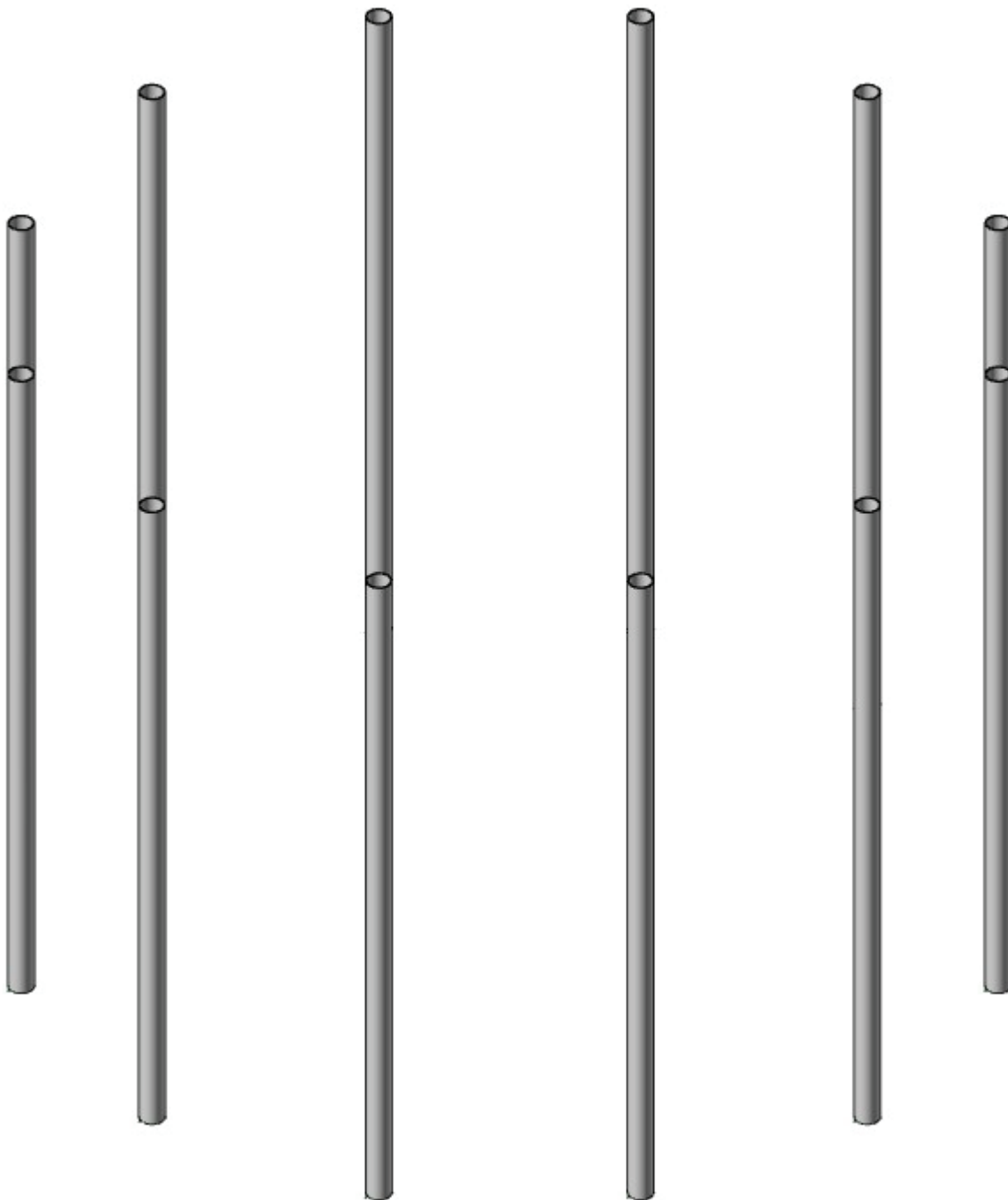
PLAN VIEW



ANTENNA PLAN VIEW



PLAN VIEW

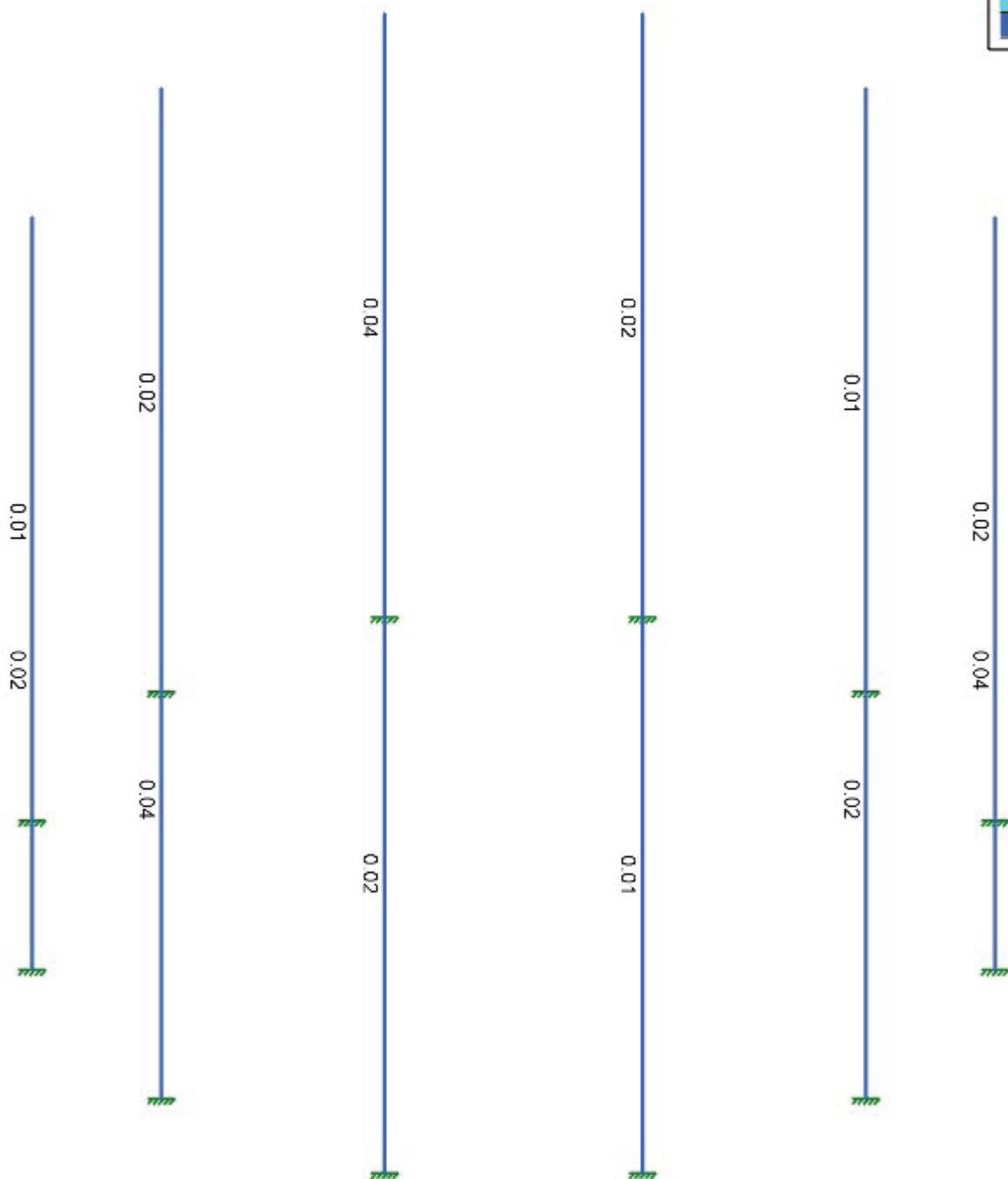
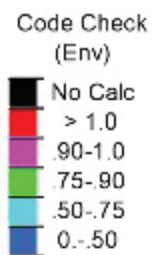


Envelope Only Solution

SK-1

Jun 18, 2024

5000383847-VZW_MT_LO_H.r3d

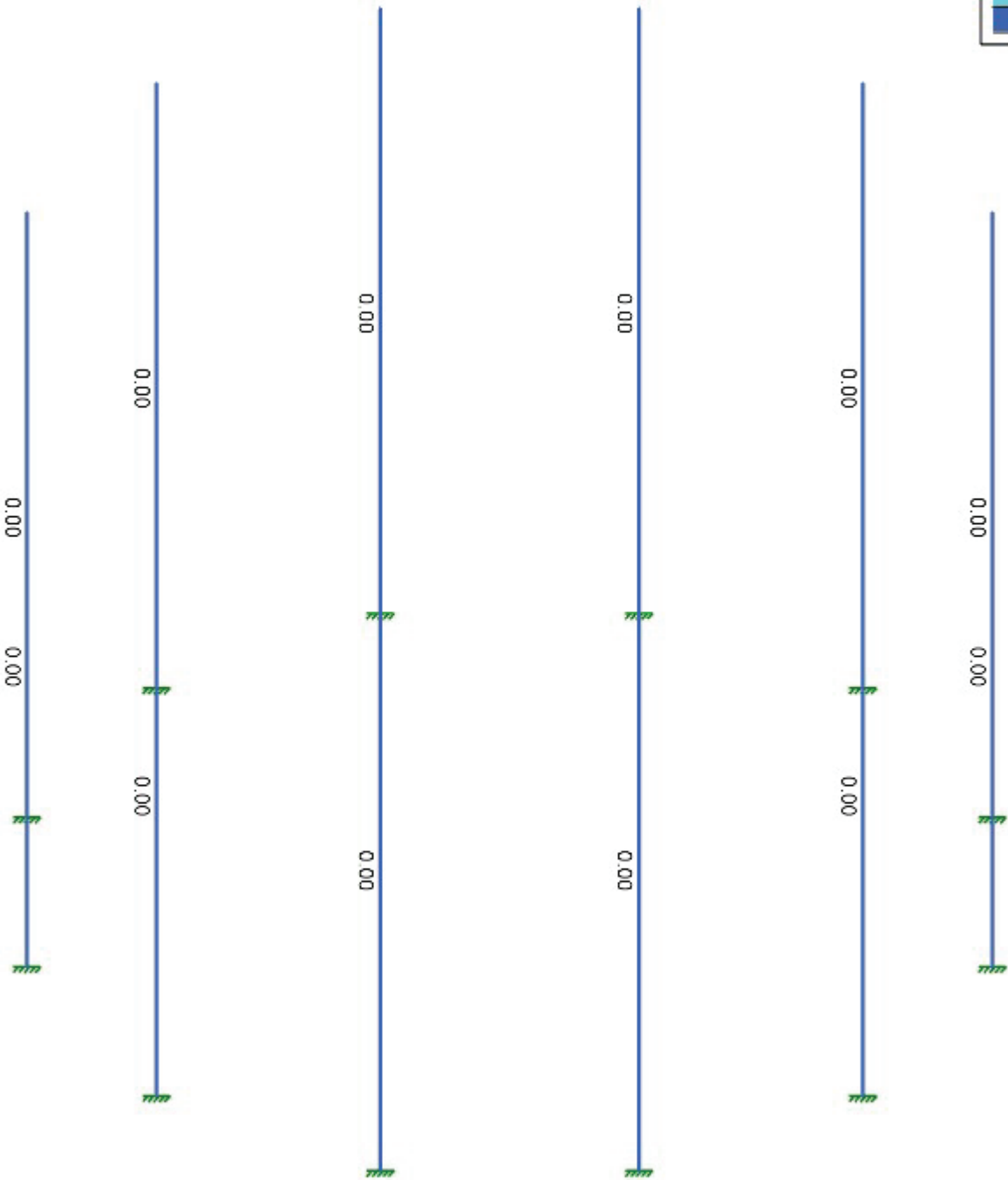
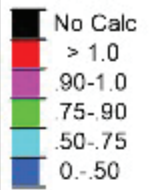


Member Code Checks Displayed (Enveloped)
Envelope Only Solution

		SK-2
		Jun 18, 2024
		5000383847-VZW_MT_LO_H.r3d



Shear Check
(Env)



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

SK-3

Jun 18, 2024

5000383847-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed
1	Antenna D	None				99	
2	Antenna Di	None					
3	Antenna Wo (0 Deg)	None				99	
4	Antenna Wo (30 Deg)	None				99	
5	Antenna Wo (60 Deg)	None				99	
6	Antenna Wo (90 Deg)	None				99	
7	Antenna Wo (120 Deg)	None				99	
8	Antenna Wo (150 Deg)	None				99	
9	Antenna Wo (180 Deg)	None				99	
10	Antenna Wo (210 Deg)	None				99	
11	Antenna Wo (240 Deg)	None				99	
12	Antenna Wo (270 Deg)	None				99	
13	Antenna Wo (300 Deg)	None				99	
14	Antenna Wo (330 Deg)	None				99	
15	Antenna Wi (0 Deg)	None					
16	Antenna Wi (30 Deg)	None					
17	Antenna Wi (60 Deg)	None					
18	Antenna Wi (90 Deg)	None					
19	Antenna Wi (120 Deg)	None					
20	Antenna Wi (150 Deg)	None					
21	Antenna Wi (180 Deg)	None					
22	Antenna Wi (210 Deg)	None					
23	Antenna Wi (240 Deg)	None					
24	Antenna Wi (270 Deg)	None					
25	Antenna Wi (300 Deg)	None					
26	Antenna Wi (330 Deg)	None					
27	Antenna Wm (0 Deg)	None				99	
28	Antenna Wm (30 Deg)	None				99	
29	Antenna Wm (60 Deg)	None				99	
30	Antenna Wm (90 Deg)	None				99	
31	Antenna Wm (120 Deg)	None				99	
32	Antenna Wm (150 Deg)	None				99	
33	Antenna Wm (180 Deg)	None				99	
34	Antenna Wm (210 Deg)	None				99	
35	Antenna Wm (240 Deg)	None				99	
36	Antenna Wm (270 Deg)	None				99	
37	Antenna Wm (300 Deg)	None				99	
38	Antenna Wm (330 Deg)	None				99	
39	Structure D	None		-1			
40	Structure Di	None					
41	Structure Wo (0 Deg)	None					24
42	Structure Wo (30 Deg)	None					24
43	Structure Wo (60 Deg)	None					24
44	Structure Wo (90 Deg)	None					24
45	Structure Wo (120 Deg)	None					24
46	Structure Wo (150 Deg)	None					24
47	Structure Wo (180 Deg)	None					24
48	Structure Wo (210 Deg)	None					24
49	Structure Wo (240 Deg)	None					24
50	Structure Wo (270 Deg)	None					24
51	Structure Wo (300 Deg)	None					24
52	Structure Wo (330 Deg)	None					24
53	Structure Wi (0 Deg)	None					24
54	Structure Wi (30 Deg)	None					24
55	Structure Wi (60 Deg)	None					24

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed
56	Structure Wi (90 Deg)	None					24
57	Structure Wi (120 Deg)	None					24
58	Structure Wi (150 Deg)	None					24
59	Structure Wi (180 Deg)	None					24
60	Structure Wi (210 Deg)	None					24
61	Structure Wi (240 Deg)	None					24
62	Structure Wi (270 Deg)	None					24
63	Structure Wi (300 Deg)	None					24
64	Structure Wi (330 Deg)	None					24
65	Structure Wm (0 Deg)	None					24
66	Structure Wm (30 Deg)	None					24
67	Structure Wm (60 Deg)	None					24
68	Structure Wm (90 Deg)	None					24
69	Structure Wm (120 Deg)	None					24
70	Structure Wm (150 Deg)	None					24
71	Structure Wm (180 Deg)	None					24
72	Structure Wm (210 Deg)	None					24
73	Structure Wm (240 Deg)	None					24
74	Structure Wm (270 Deg)	None					24
75	Structure Wm (300 Deg)	None					24
76	Structure Wm (330 Deg)	None					24
77	Lm1	None					
78	Lm2	None					
79	Lv1	None					
80	Lv2	None					
81	Antenna Ev	None				99	
82	Antenna Eh (0 Deg)	None				66	
83	Antenna Eh (90 Deg)	None				66	
84	Structure Ev	ELY		-0.043			
85	Structure Eh (0 Deg)	ELZ			-0.108		
86	Structure Eh (90 Deg)	ELX	0.108				

Load Combinations

	Description	Solve P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
1	1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + 1.0Wi (60 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + 1.0Wi (90 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0Di + 1.0Wi (120 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1.0Wi (150 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0Di + 1.0Wi (180 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0Di + 1.0Wi (210 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0Di + 1.0Wi (240 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1				

Load Combinations (Continued)

Description	Solve	P-Delta	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor
22 1.2D + 1.0Di + 1.0Wi (270 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23 1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24 1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25 1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1						
26 1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1						
27 1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1						
28 1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1						
29 1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1						
30 1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1						
31 1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1						
32 1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1						
33 1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1						
34 1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1						
35 1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1						
36 1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1						
37 1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1						
38 1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1						
39 1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1						
40 1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1						
41 1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1						
42 1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1						
43 1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1						
44 1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1						
45 1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1						
46 1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1						
47 1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1						
48 1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1						
49 1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5										
50 1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5										
51 1.4D	Yes	Y	1	1.4	39	1.4												
52 1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX	
53 1.2D + 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
54 1.2D + 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
55 1.2D + 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56 1.2D + 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
57 1.2D + 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
58 1.2D + 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59 1.2D + 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
60 1.2D + 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
61 1.2D + 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62 1.2D + 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
63 1.2D + 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5
64 0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65 0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
66 0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
67 0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68 0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
69 0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
70 0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71 0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
72 0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
73 0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74 0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
75 0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	0	0	0	
2	N10	-4.727055	0	-2.729167	
3	N23	-4.727055	8.083333	-2.729167	
4	N4	-5.458333	8.083333	0	
5	N5	-5.458333	0	0	
6	N6	-4.727055	8.083333	2.729167	
7	N7	-4.727055	0	2.729167	
8	N8	-2.729167	8.083333	4.727055	
9	N9	-2.729167	0	4.727055	
10	N11	0	8.083333	5.458333	
11	N12	0	0	5.458333	
12	N13	2.729167	8.083333	4.727055	
13	N14	2.729167	0	4.727055	
14	N15	4.727055	8.083333	2.729167	
15	N16	4.727055	0	2.729167	
16	N17	5.458333	8.083333	0	
17	N18	5.458333	0	0	
18	N19	4.727055	8.083333	-2.729167	
19	N20	4.727055	0	-2.729167	
20	N21	2.729167	8.083333	-4.727055	
21	N22	2.729167	0	-4.727055	
22	N24	0	8.083333	-5.458333	
23	N25	0	0	-5.458333	
24	N26	-2.729167	8.083333	-4.727055	
25	N27	-2.729167	0	-4.727055	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	Mount Pipe	PIPE_3.0	Beam	HSS Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁻⁶ °F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	0.3	0.65	0.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	0.3	0.65	0.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	0.3	0.65	0.49	46	1.4	58	1.3

Member Primary Data

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
1	MP2B	N23	N10	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
2	MP1B	N4	N5	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
3	MP4A	N6	N7	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
4	MP3A	N8	N9	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
5	MP2A	N11	N12	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
6	MP1A	N13	N14	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
7	MP4C	N15	N16	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
8	MP3C	N17	N18	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
9	MP2C	N19	N20	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
10	MP1C	N21	N22	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
11	MP4B	N24	N25	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical
12	MP3B	N26	N27	Mount Pipe	Beam	HSS Pipe	A53 Gr. B	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
1	MP2B	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
2	MP1B	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
3	MP4A	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
4	MP3A	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
5	MP2A	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
6	MP1A	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
7	MP4C	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
8	MP3C	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
9	MP2C	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
10	MP1C	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
11	MP4B	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral
12	MP3B	Mount Pipe	8.083	Lbyy	N/A	N/A	Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-28.65	2
2	MP3A	My	-0.014	2
3	MP3A	Mz	0	2
4	MP3A	Y	-28.65	4
5	MP3A	My	-0.014	4
6	MP3A	Mz	0	4
7	MP3B	Y	-28.65	2
8	MP3B	My	0.007	2
9	MP3B	Mz	-0.012	2
10	MP3B	Y	-28.65	4
11	MP3B	My	0.007	4
12	MP3B	Mz	-0.012	4
13	MP3C	Y	-28.65	2
14	MP3C	My	0.007	2
15	MP3C	Mz	0.012	2
16	MP3C	Y	-28.65	4
17	MP3C	My	0.007	4
18	MP3C	Mz	0.012	4
19	MP1A	Y	-74.7	3
20	MP1A	My	0.037	3
21	MP1A	Mz	0	3
22	MP1B	Y	-74.7	3
23	MP1B	My	-0.019	3
24	MP1B	Mz	0.032	3
25	MP1C	Y	-74.7	3
26	MP1C	My	-0.019	3
27	MP1C	Mz	-0.032	3
28	MP4A	Y	-6	1.75
29	MP4A	My	-0.003	1.75
30	MP4A	Mz	0	1.75
31	MP4A	Y	-6	4.25
32	MP4A	My	-0.003	4.25
33	MP4A	Mz	0	4.25

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP4B	Y	-6	1.75
35	MP4B	My	0.002	1.75
36	MP4B	Mz	-0.003	1.75
37	MP4B	Y	-6	4.25
38	MP4B	My	0.002	4.25
39	MP4B	Mz	-0.003	4.25
40	MP4C	Y	-6	1.75
41	MP4C	My	0.002	1.75
42	MP4C	Mz	0.003	1.75
43	MP4C	Y	-6	4.25
44	MP4C	My	0.002	4.25
45	MP4C	Mz	0.003	4.25
46	MP2A	Y	-31.65	1.5
47	MP2A	My	-0.016	1.5
48	MP2A	Mz	-0.021	1.5
49	MP2A	Y	-31.65	4.5
50	MP2A	My	-0.016	4.5
51	MP2A	Mz	-0.021	4.5
52	MP2B	Y	-31.65	1.5
53	MP2B	My	0.026	1.5
54	MP2B	Mz	-0.003	1.5
55	MP2B	Y	-31.65	4.5
56	MP2B	My	0.026	4.5
57	MP2B	Mz	-0.003	4.5
58	MP2C	Y	-31.65	1.5
59	MP2C	My	-0.01	1.5
60	MP2C	Mz	0.024	1.5
61	MP2C	Y	-31.65	4.5
62	MP2C	My	-0.01	4.5
63	MP2C	Mz	0.024	4.5
64	MP2A	Y	-31.65	1.5
65	MP2A	My	-0.016	1.5
66	MP2A	Mz	0.021	1.5
67	MP2A	Y	-31.65	4.5
68	MP2A	My	-0.016	4.5
69	MP2A	Mz	0.021	4.5
70	MP2B	Y	-31.65	1.5
71	MP2B	My	-0.01	1.5
72	MP2B	Mz	-0.024	1.5
73	MP2B	Y	-31.65	4.5
74	MP2B	My	-0.01	4.5
75	MP2B	Mz	-0.024	4.5
76	MP2C	Y	-31.65	1.5
77	MP2C	My	0.026	1.5
78	MP2C	Mz	0.003	1.5
79	MP2C	Y	-31.65	4.5
80	MP2C	My	0.026	4.5
81	MP2C	Mz	0.003	4.5
82	MP2A	Y	-70.3	3
83	MP2A	My	0.035	3
84	MP2A	Mz	0	3
85	MP2B	Y	-70.3	3
86	MP2B	My	-0.018	3
87	MP2B	Mz	0.03	3
88	MP2C	Y	-70.3	3

Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP2C	My	-0.018	3
90	MP2C	Mz	-0.03	3
91	MP2A	Y	-20.8	3.25
92	MP2A	My	0	3.25
93	MP2A	Mz	-0.01	3.25
94	MP2B	Y	-20.8	3.25
95	MP2B	My	0.009	3.25
96	MP2B	Mz	0.005	3.25
97	MP2C	Y	-20.8	3.25
98	MP2C	My	-0.009	3.25
99	MP2C	Mz	0.005	3.25

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25

Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5

Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5

Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5

Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5

Member Point Loads (BLC 8 : Antenna Wo (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25

Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5

Member Point Loads (BLC 11 : Antenna Wo (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5

Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5

Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5

Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3

Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3

Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25

Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5

Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5

Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5

Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5

Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3

Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25

Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25

Member Point Loads (BLC 36 : Antenna Wm (270 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5

Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	0	2
2	MP3A	Z	0	2
3	MP3A	Mx	0	2
4	MP3A	X	0	4
5	MP3A	Z	0	4
6	MP3A	Mx	0	4
7	MP3B	X	0	2
8	MP3B	Z	0	2

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
9	MP3B	Mx	0	2
10	MP3B	X	0	4
11	MP3B	Z	0	4
12	MP3B	Mx	0	4
13	MP3C	X	0	2
14	MP3C	Z	0	2
15	MP3C	Mx	0	2
16	MP3C	X	0	4
17	MP3C	Z	0	4
18	MP3C	Mx	0	4
19	MP1A	X	0	3
20	MP1A	Z	0	3
21	MP1A	Mx	0	3
22	MP1B	X	0	3
23	MP1B	Z	0	3
24	MP1B	Mx	0	3
25	MP1C	X	0	3
26	MP1C	Z	0	3
27	MP1C	Mx	0	3
28	MP4A	X	0	1.75
29	MP4A	Z	0	1.75
30	MP4A	Mx	0	1.75
31	MP4A	X	0	4.25
32	MP4A	Z	0	4.25
33	MP4A	Mx	0	4.25
34	MP4B	X	0	1.75
35	MP4B	Z	0	1.75
36	MP4B	Mx	0	1.75
37	MP4B	X	0	4.25
38	MP4B	Z	0	4.25
39	MP4B	Mx	0	4.25
40	MP4C	X	0	1.75
41	MP4C	Z	0	1.75
42	MP4C	Mx	0	1.75
43	MP4C	X	0	4.25
44	MP4C	Z	0	4.25
45	MP4C	Mx	0	4.25
46	MP2A	X	0	1.5
47	MP2A	Z	0	1.5
48	MP2A	Mx	0	1.5
49	MP2A	X	0	4.5
50	MP2A	Z	0	4.5
51	MP2A	Mx	0	4.5
52	MP2B	X	0	1.5
53	MP2B	Z	0	1.5
54	MP2B	Mx	0	1.5
55	MP2B	X	0	4.5
56	MP2B	Z	0	4.5
57	MP2B	Mx	0	4.5
58	MP2C	X	0	1.5
59	MP2C	Z	0	1.5
60	MP2C	Mx	0	1.5
61	MP2C	X	0	4.5
62	MP2C	Z	0	4.5
63	MP2C	Mx	0	4.5

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
64	MP2A	X	0	1.5
65	MP2A	Z	0	1.5
66	MP2A	Mx	0	1.5
67	MP2A	X	0	4.5
68	MP2A	Z	0	4.5
69	MP2A	Mx	0	4.5
70	MP2B	X	0	1.5
71	MP2B	Z	0	1.5
72	MP2B	Mx	0	1.5
73	MP2B	X	0	4.5
74	MP2B	Z	0	4.5
75	MP2B	Mx	0	4.5
76	MP2C	X	0	1.5
77	MP2C	Z	0	1.5
78	MP2C	Mx	0	1.5
79	MP2C	X	0	4.5
80	MP2C	Z	0	4.5
81	MP2C	Mx	0	4.5
82	MP2A	X	0	3
83	MP2A	Z	0	3
84	MP2A	Mx	0	3
85	MP2B	X	0	3
86	MP2B	Z	0	3
87	MP2B	Mx	0	3
88	MP2C	X	0	3
89	MP2C	Z	0	3
90	MP2C	Mx	0	3
91	MP2A	X	0	3.25
92	MP2A	Z	0	3.25
93	MP2A	Mx	0	3.25
94	MP2B	X	0	3.25
95	MP2B	Z	0	3.25
96	MP2B	Mx	0	3.25
97	MP2C	X	0	3.25
98	MP2C	Z	0	3.25
99	MP2C	Mx	0	3.25

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Y	-1.235	2
2	MP3A	My	-0.000617	2
3	MP3A	Mz	0	2
4	MP3A	Y	-1.235	4
5	MP3A	My	-0.000617	4
6	MP3A	Mz	0	4
7	MP3B	Y	-1.235	2
8	MP3B	My	0.000309	2
9	MP3B	Mz	-0.000535	2
10	MP3B	Y	-1.235	4
11	MP3B	My	0.000309	4
12	MP3B	Mz	-0.000535	4
13	MP3C	Y	-1.235	2
14	MP3C	My	0.000309	2
15	MP3C	Mz	0.000535	2
16	MP3C	Y	-1.235	4

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
17	MP3C	My	0.000309	4
18	MP3C	Mz	0.000535	4
19	MP1A	Y	-3.219	3
20	MP1A	My	0.002	3
21	MP1A	Mz	0	3
22	MP1B	Y	-3.219	3
23	MP1B	My	-0.000805	3
24	MP1B	Mz	0.001	3
25	MP1C	Y	-3.219	3
26	MP1C	My	-0.000805	3
27	MP1C	Mz	-0.001	3
28	MP4A	Y	-0.259	1.75
29	MP4A	My	-0.000129	1.75
30	MP4A	Mz	0	1.75
31	MP4A	Y	-0.259	4.25
32	MP4A	My	-0.000129	4.25
33	MP4A	Mz	0	4.25
34	MP4B	Y	-0.259	1.75
35	MP4B	My	6.5e-5	1.75
36	MP4B	Mz	-0.000112	1.75
37	MP4B	Y	-0.259	4.25
38	MP4B	My	6.5e-5	4.25
39	MP4B	Mz	-0.000112	4.25
40	MP4C	Y	-0.259	1.75
41	MP4C	My	6.5e-5	1.75
42	MP4C	Mz	0.000112	1.75
43	MP4C	Y	-0.259	4.25
44	MP4C	My	6.5e-5	4.25
45	MP4C	Mz	0.000112	4.25
46	MP2A	Y	-1.364	1.5
47	MP2A	My	-0.000682	1.5
48	MP2A	Mz	-0.000909	1.5
49	MP2A	Y	-1.364	4.5
50	MP2A	My	-0.000682	4.5
51	MP2A	Mz	-0.000909	4.5
52	MP2B	Y	-1.364	1.5
53	MP2B	My	0.001	1.5
54	MP2B	Mz	-0.000136	1.5
55	MP2B	Y	-1.364	4.5
56	MP2B	My	0.001	4.5
57	MP2B	Mz	-0.000136	4.5
58	MP2C	Y	-1.364	1.5
59	MP2C	My	-0.000446	1.5
60	MP2C	Mz	0.001	1.5
61	MP2C	Y	-1.364	4.5
62	MP2C	My	-0.000446	4.5
63	MP2C	Mz	0.001	4.5
64	MP2A	Y	-1.364	1.5
65	MP2A	My	-0.000682	1.5
66	MP2A	Mz	0.000909	1.5
67	MP2A	Y	-1.364	4.5
68	MP2A	My	-0.000682	4.5
69	MP2A	Mz	0.000909	4.5
70	MP2B	Y	-1.364	1.5
71	MP2B	My	-0.000446	1.5

Member Point Loads (BLC 81 : Antenna Ev) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
72	MP2B	Mz	-0.001	1.5
73	MP2B	Y	-1.364	4.5
74	MP2B	My	-0.000446	4.5
75	MP2B	Mz	-0.001	4.5
76	MP2C	Y	-1.364	1.5
77	MP2C	My	0.001	1.5
78	MP2C	Mz	0.000136	1.5
79	MP2C	Y	-1.364	4.5
80	MP2C	My	0.001	4.5
81	MP2C	Mz	0.000136	4.5
82	MP2A	Y	-3.029	3
83	MP2A	My	0.002	3
84	MP2A	Mz	0	3
85	MP2B	Y	-3.029	3
86	MP2B	My	-0.000757	3
87	MP2B	Mz	0.001	3
88	MP2C	Y	-3.029	3
89	MP2C	My	-0.000757	3
90	MP2C	Mz	-0.001	3
91	MP2A	Y	-0.896	3.25
92	MP2A	My	0	3.25
93	MP2A	Mz	-0.000448	3.25
94	MP2B	Y	-0.896	3.25
95	MP2B	My	0.000388	3.25
96	MP2B	Mz	0.000224	3.25
97	MP2C	Y	-0.896	3.25
98	MP2C	My	-0.000388	3.25
99	MP2C	Mz	0.000224	3.25

Member Point Loads (BLC 82 : Antenna Eh (0 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	Z	-3.087	2
2	MP3A	Mx	0	2
3	MP3A	Z	-3.087	4
4	MP3A	Mx	0	4
5	MP3B	Z	-3.087	2
6	MP3B	Mx	0.001	2
7	MP3B	Z	-3.087	4
8	MP3B	Mx	0.001	4
9	MP3C	Z	-3.087	2
10	MP3C	Mx	-0.001	2
11	MP3C	Z	-3.087	4
12	MP3C	Mx	-0.001	4
13	MP1A	Z	-8.048	3
14	MP1A	Mx	0	3
15	MP1B	Z	-8.048	3
16	MP1B	Mx	-0.003	3
17	MP1C	Z	-8.048	3
18	MP1C	Mx	0.003	3
19	MP4A	Z	-0.646	1.75
20	MP4A	Mx	0	1.75
21	MP4A	Z	-0.646	4.25
22	MP4A	Mx	0	4.25
23	MP4B	Z	-0.646	1.75
24	MP4B	Mx	0.00028	1.75

Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
25	MP4B	Z	-0.646	4.25
26	MP4B	Mx	0.00028	4.25
27	MP4C	Z	-0.646	1.75
28	MP4C	Mx	-0.00028	1.75
29	MP4C	Z	-0.646	4.25
30	MP4C	Mx	-0.00028	4.25
31	MP2A	Z	-3.41	1.5
32	MP2A	Mx	0.002	1.5
33	MP2A	Z	-3.41	4.5
34	MP2A	Mx	0.002	4.5
35	MP2B	Z	-3.41	1.5
36	MP2B	Mx	0.00034	1.5
37	MP2B	Z	-3.41	4.5
38	MP2B	Mx	0.00034	4.5
39	MP2C	Z	-3.41	1.5
40	MP2C	Mx	-0.003	1.5
41	MP2C	Z	-3.41	4.5
42	MP2C	Mx	-0.003	4.5
43	MP2A	Z	-3.41	1.5
44	MP2A	Mx	-0.002	1.5
45	MP2A	Z	-3.41	4.5
46	MP2A	Mx	-0.002	4.5
47	MP2B	Z	-3.41	1.5
48	MP2B	Mx	0.003	1.5
49	MP2B	Z	-3.41	4.5
50	MP2B	Mx	0.003	4.5
51	MP2C	Z	-3.41	1.5
52	MP2C	Mx	-0.00034	1.5
53	MP2C	Z	-3.41	4.5
54	MP2C	Mx	-0.00034	4.5
55	MP2A	Z	-7.574	3
56	MP2A	Mx	0	3
57	MP2B	Z	-7.574	3
58	MP2B	Mx	-0.003	3
59	MP2C	Z	-7.574	3
60	MP2C	Mx	0.003	3
61	MP2A	Z	-2.241	3.25
62	MP2A	Mx	0.001	3.25
63	MP2B	Z	-2.241	3.25
64	MP2B	Mx	-0.00056	3.25
65	MP2C	Z	-2.241	3.25
66	MP2C	Mx	-0.00056	3.25

Member Point Loads (BLC 83 : Antenna Eh (90 Deg))

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP3A	X	3.087	2
2	MP3A	Mx	-0.002	2
3	MP3A	X	3.087	4
4	MP3A	Mx	-0.002	4
5	MP3B	X	3.087	2
6	MP3B	Mx	0.000772	2
7	MP3B	X	3.087	4
8	MP3B	Mx	0.000772	4
9	MP3C	X	3.087	2
10	MP3C	Mx	0.000772	2

Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
11	MP3C	X	3.087	4
12	MP3C	Mx	0.000772	4
13	MP1A	X	8.048	3
14	MP1A	Mx	0.004	3
15	MP1B	X	8.048	3
16	MP1B	Mx	-0.002	3
17	MP1C	X	8.048	3
18	MP1C	Mx	-0.002	3
19	MP4A	X	0.646	1.75
20	MP4A	Mx	-0.000323	1.75
21	MP4A	X	0.646	4.25
22	MP4A	Mx	-0.000323	4.25
23	MP4B	X	0.646	1.75
24	MP4B	Mx	0.000162	1.75
25	MP4B	X	0.646	4.25
26	MP4B	Mx	0.000162	4.25
27	MP4C	X	0.646	1.75
28	MP4C	Mx	0.000162	1.75
29	MP4C	X	0.646	4.25
30	MP4C	Mx	0.000162	4.25
31	MP2A	X	3.41	1.5
32	MP2A	Mx	-0.002	1.5
33	MP2A	X	3.41	4.5
34	MP2A	Mx	-0.002	4.5
35	MP2B	X	3.41	1.5
36	MP2B	Mx	0.003	1.5
37	MP2B	X	3.41	4.5
38	MP2B	Mx	0.003	4.5
39	MP2C	X	3.41	1.5
40	MP2C	Mx	-0.001	1.5
41	MP2C	X	3.41	4.5
42	MP2C	Mx	-0.001	4.5
43	MP2A	X	3.41	1.5
44	MP2A	Mx	-0.002	1.5
45	MP2A	X	3.41	4.5
46	MP2A	Mx	-0.002	4.5
47	MP2B	X	3.41	1.5
48	MP2B	Mx	-0.001	1.5
49	MP2B	X	3.41	4.5
50	MP2B	Mx	-0.001	4.5
51	MP2C	X	3.41	1.5
52	MP2C	Mx	0.003	1.5
53	MP2C	X	3.41	4.5
54	MP2C	Mx	0.003	4.5
55	MP2A	X	7.574	3
56	MP2A	Mx	0.004	3
57	MP2B	X	7.574	3
58	MP2B	Mx	-0.002	3
59	MP2C	X	7.574	3
60	MP2C	Mx	-0.002	3
61	MP2A	X	2.241	3.25
62	MP2A	Mx	0	3.25
63	MP2B	X	2.241	3.25
64	MP2B	Mx	0.00097	3.25
65	MP2C	X	2.241	3.25

Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
66	MP2C	Mx	-0.00097	3.25

Member Area Loads

No Data to Print...				
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Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N10	max	29.588	61	384.492	51	29.588	52	0.173	52	0.003	66	0.128	67
2		min	-29.588	55	235.338	64	-29.588	58	-0.124	70	-0.003	60	-0.168	61
3	N5	max	14.182	73	184.292	51	14.182	64	0.05	64	0.004	71	0.106	55
4		min	-14.182	67	112.801	64	-14.182	58	-0.089	58	-0.004	53	-0.038	73
5	N7	max	7.427	61	96.512	51	7.427	64	0.026	64	0.001	73	0.031	55
6		min	-7.427	55	59.073	64	-7.427	58	-0.039	58	-0.001	55	-0.031	61
7	N9	max	12.307	73	159.932	51	12.307	64	0.032	64	0.003	73	0.056	55
8		min	-12.307	55	97.89	64	-12.307	58	-0.092	58	-0.003	55	-0.056	61
9	N12	max	29.588	73	384.492	51	29.588	64	0.12	64	0.003	74	0.135	67
10		min	-29.588	55	235.338	64	-29.588	70	-0.18	58	-0.003	56	-0.157	61
11	N14	max	14.182	73	184.292	51	14.182	64	0.113	52	0.004	67	0.066	55
12		min	-14.182	55	112.801	64	-14.182	58	-0.034	70	-0.004	61	-0.066	61
13	N16	max	7.427	73	96.512	51	7.427	52	0.035	52	0.001	69	0.038	55
14		min	-7.427	67	59.073	64	-7.427	58	-0.029	70	-0.001	63	-0.027	73
15	N18	max	12.307	73	159.932	51	12.307	64	0.074	52	0.003	69	0.087	55
16		min	-12.307	67	97.89	64	-12.307	58	-0.044	70	-0.003	63	-0.035	73
17	N20	max	29.588	73	384.492	51	29.588	64	0.151	52	0.003	70	0.181	55
18		min	-29.588	67	235.338	64	-29.588	58	-0.14	70	-0.003	52	-0.119	73
19	N22	max	14.182	73	184.292	51	14.182	64	0.05	64	0.004	75	0.038	67
20		min	-14.182	55	112.801	64	-14.182	58	-0.089	58	-0.004	57	-0.106	61
21	N25	max	7.427	73	96.512	51	7.427	52	0.035	52	0.001	65	0.027	67
22		min	-7.427	55	59.073	64	-7.427	58	-0.029	70	-0.001	59	-0.038	61
23	N27	max	12.307	73	159.932	51	12.307	64	0.074	52	0.003	65	0.035	67
24		min	-12.307	55	97.89	64	-12.307	58	-0.044	70	-0.003	59	-0.087	61
25	Totals:	max	190.509	73	2475.681	51	190.509	64						
26		min	-190.509	55	1515.306	64	-190.509	58						

Node Reactions

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	1	N10	0	329.564	0	0.028	0	-0.023
2	1	N5	0	157.964	0	-0.023	0	0.039
3	1	N7	0	82.724	0	-0.007	0	0
4	1	N9	0	137.084	0	-0.035	0	0
5	1	N12	0	329.564	0	-0.034	0	-0.013
6	1	N14	0	157.964	0	0.045	0	0
7	1	N16	0	82.724	0	0.004	0	0.006
8	1	N18	0	137.084	0	0.017	0	0.03
9	1	N20	0	329.564	0	0.006	0	0.036
10	1	N22	0	157.964	0	-0.023	0	-0.039
11	1	N25	0	82.724	0	0.004	0	-0.006
12	1	N27	0	137.084	0	0.017	0	-0.03
13	1	Totals:	0	2122.012	0			
14	1	COG (ft):	X: 0	Y: 4.672	Z: 0			
15	2	N10	0	329.564	0	0.028	0	-0.023
16	2	N5	0	157.964	0	-0.023	0	0.039
17	2	N7	0	82.724	0	-0.007	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
18	2	N9	0	137.084	0	-0.035	0	0
19	2	N12	0	329.564	0	-0.034	0	-0.013
20	2	N14	0	157.964	0	0.045	0	0
21	2	N16	0	82.724	0	0.004	0	0.006
22	2	N18	0	137.084	0	0.017	0	0.03
23	2	N20	0	329.564	0	0.006	0	0.036
24	2	N22	0	157.964	0	-0.023	0	-0.039
25	2	N25	0	82.724	0	0.004	0	-0.006
26	2	N27	0	137.084	0	0.017	0	-0.03
27	2	Totals:	0	2122.012	0			
28	2	COG (ft):	X: 0	Y: 4.672	Z: 0			
29	3	N10	0	329.564	0	0.028	0	-0.023
30	3	N5	0	157.964	0	-0.023	0	0.039
31	3	N7	0	82.724	0	-0.007	0	0
32	3	N9	0	137.084	0	-0.035	0	0
33	3	N12	0	329.564	0	-0.034	0	-0.013
34	3	N14	0	157.964	0	0.045	0	0
35	3	N16	0	82.724	0	0.004	0	0.006
36	3	N18	0	137.084	0	0.017	0	0.03
37	3	N20	0	329.564	0	0.006	0	0.036
38	3	N22	0	157.964	0	-0.023	0	-0.039
39	3	N25	0	82.724	0	0.004	0	-0.006
40	3	N27	0	137.084	0	0.017	0	-0.03
41	3	Totals:	0	2122.012	0			
42	3	COG (ft):	X: 0	Y: 4.672	Z: 0			
43	4	N10	0	329.564	0	0.028	0	-0.023
44	4	N5	0	157.964	0	-0.023	0	0.039
45	4	N7	0	82.724	0	-0.007	0	0
46	4	N9	0	137.084	0	-0.035	0	0
47	4	N12	0	329.564	0	-0.034	0	-0.013
48	4	N14	0	157.964	0	0.045	0	0
49	4	N16	0	82.724	0	0.004	0	0.006
50	4	N18	0	137.084	0	0.017	0	0.03
51	4	N20	0	329.564	0	0.006	0	0.036
52	4	N22	0	157.964	0	-0.023	0	-0.039
53	4	N25	0	82.724	0	0.004	0	-0.006
54	4	N27	0	137.084	0	0.017	0	-0.03
55	4	Totals:	0	2122.012	0			
56	4	COG (ft):	X: 0	Y: 4.672	Z: 0			
57	5	N10	0	329.564	0	0.028	0	-0.023
58	5	N5	0	157.964	0	-0.023	0	0.039
59	5	N7	0	82.724	0	-0.007	0	0
60	5	N9	0	137.084	0	-0.035	0	0
61	5	N12	0	329.564	0	-0.034	0	-0.013
62	5	N14	0	157.964	0	0.045	0	0
63	5	N16	0	82.724	0	0.004	0	0.006
64	5	N18	0	137.084	0	0.017	0	0.03
65	5	N20	0	329.564	0	0.006	0	0.036
66	5	N22	0	157.964	0	-0.023	0	-0.039
67	5	N25	0	82.724	0	0.004	0	-0.006
68	5	N27	0	137.084	0	0.017	0	-0.03
69	5	Totals:	0	2122.012	0			
70	5	COG (ft):	X: 0	Y: 4.672	Z: 0			
71	6	N10	0	329.564	0	0.028	0	-0.023
72	6	N5	0	157.964	0	-0.023	0	0.039

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
73	6	N7	0	82.724	0	-0.007	0	0
74	6	N9	0	137.084	0	-0.035	0	0
75	6	N12	0	329.564	0	-0.034	0	-0.013
76	6	N14	0	157.964	0	0.045	0	0
77	6	N16	0	82.724	0	0.004	0	0.006
78	6	N18	0	137.084	0	0.017	0	0.03
79	6	N20	0	329.564	0	0.006	0	0.036
80	6	N22	0	157.964	0	-0.023	0	-0.039
81	6	N25	0	82.724	0	0.004	0	-0.006
82	6	N27	0	137.084	0	0.017	0	-0.03
83	6	Totals:	0	2122.012	0			
84	6	COG (ft):	X: 0	Y: 4.672	Z: 0			
85	7	N10	0	329.564	0	0.028	0	-0.023
86	7	N5	0	157.964	0	-0.023	0	0.039
87	7	N7	0	82.724	0	-0.007	0	0
88	7	N9	0	137.084	0	-0.035	0	0
89	7	N12	0	329.564	0	-0.034	0	-0.013
90	7	N14	0	157.964	0	0.045	0	0
91	7	N16	0	82.724	0	0.004	0	0.006
92	7	N18	0	137.084	0	0.017	0	0.03
93	7	N20	0	329.564	0	0.006	0	0.036
94	7	N22	0	157.964	0	-0.023	0	-0.039
95	7	N25	0	82.724	0	0.004	0	-0.006
96	7	N27	0	137.084	0	0.017	0	-0.03
97	7	Totals:	0	2122.012	0			
98	7	COG (ft):	X: 0	Y: 4.672	Z: 0			
99	8	N10	0	329.564	0	0.028	0	-0.023
100	8	N5	0	157.964	0	-0.023	0	0.039
101	8	N7	0	82.724	0	-0.007	0	0
102	8	N9	0	137.084	0	-0.035	0	0
103	8	N12	0	329.564	0	-0.034	0	-0.013
104	8	N14	0	157.964	0	0.045	0	0
105	8	N16	0	82.724	0	0.004	0	0.006
106	8	N18	0	137.084	0	0.017	0	0.03
107	8	N20	0	329.564	0	0.006	0	0.036
108	8	N22	0	157.964	0	-0.023	0	-0.039
109	8	N25	0	82.724	0	0.004	0	-0.006
110	8	N27	0	137.084	0	0.017	0	-0.03
111	8	Totals:	0	2122.012	0			
112	8	COG (ft):	X: 0	Y: 4.672	Z: 0			
113	9	N10	0	329.564	0	0.028	0	-0.023
114	9	N5	0	157.964	0	-0.023	0	0.039
115	9	N7	0	82.724	0	-0.007	0	0
116	9	N9	0	137.084	0	-0.035	0	0
117	9	N12	0	329.564	0	-0.034	0	-0.013
118	9	N14	0	157.964	0	0.045	0	0
119	9	N16	0	82.724	0	0.004	0	0.006
120	9	N18	0	137.084	0	0.017	0	0.03
121	9	N20	0	329.564	0	0.006	0	0.036
122	9	N22	0	157.964	0	-0.023	0	-0.039
123	9	N25	0	82.724	0	0.004	0	-0.006
124	9	N27	0	137.084	0	0.017	0	-0.03
125	9	Totals:	0	2122.012	0			
126	9	COG (ft):	X: 0	Y: 4.672	Z: 0			
127	10	N10	0	329.564	0	0.028	0	-0.023

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
128	10	N5	0	157.964	0	-0.023	0	0.039
129	10	N7	0	82.724	0	-0.007	0	0
130	10	N9	0	137.084	0	-0.035	0	0
131	10	N12	0	329.564	0	-0.034	0	-0.013
132	10	N14	0	157.964	0	0.045	0	0
133	10	N16	0	82.724	0	0.004	0	0.006
134	10	N18	0	137.084	0	0.017	0	0.03
135	10	N20	0	329.564	0	0.006	0	0.036
136	10	N22	0	157.964	0	-0.023	0	-0.039
137	10	N25	0	82.724	0	0.004	0	-0.006
138	10	N27	0	137.084	0	0.017	0	-0.03
139	10	Totals:	0	2122.012	0			
140	10	COG (ft):	X: 0	Y: 4.672	Z: 0			
141	11	N10	0	329.564	0	0.028	0	-0.023
142	11	N5	0	157.964	0	-0.023	0	0.039
143	11	N7	0	82.724	0	-0.007	0	0
144	11	N9	0	137.084	0	-0.035	0	0
145	11	N12	0	329.564	0	-0.034	0	-0.013
146	11	N14	0	157.964	0	0.045	0	0
147	11	N16	0	82.724	0	0.004	0	0.006
148	11	N18	0	137.084	0	0.017	0	0.03
149	11	N20	0	329.564	0	0.006	0	0.036
150	11	N22	0	157.964	0	-0.023	0	-0.039
151	11	N25	0	82.724	0	0.004	0	-0.006
152	11	N27	0	137.084	0	0.017	0	-0.03
153	11	Totals:	0	2122.012	0			
154	11	COG (ft):	X: 0	Y: 4.672	Z: 0			
155	12	N10	0	329.564	0	0.028	0	-0.023
156	12	N5	0	157.964	0	-0.023	0	0.039
157	12	N7	0	82.724	0	-0.007	0	0
158	12	N9	0	137.084	0	-0.035	0	0
159	12	N12	0	329.564	0	-0.034	0	-0.013
160	12	N14	0	157.964	0	0.045	0	0
161	12	N16	0	82.724	0	0.004	0	0.006
162	12	N18	0	137.084	0	0.017	0	0.03
163	12	N20	0	329.564	0	0.006	0	0.036
164	12	N22	0	157.964	0	-0.023	0	-0.039
165	12	N25	0	82.724	0	0.004	0	-0.006
166	12	N27	0	137.084	0	0.017	0	-0.03
167	12	Totals:	0	2122.012	0			
168	12	COG (ft):	X: 0	Y: 4.672	Z: 0			
169	13	N10	0	329.564	0	0.028	0	-0.023
170	13	N5	0	157.964	0	-0.023	0	0.039
171	13	N7	0	82.724	0	-0.007	0	0
172	13	N9	0	137.084	0	-0.035	0	0
173	13	N12	0	329.564	0	-0.034	0	-0.013
174	13	N14	0	157.964	0	0.045	0	0
175	13	N16	0	82.724	0	0.004	0	0.006
176	13	N18	0	137.084	0	0.017	0	0.03
177	13	N20	0	329.564	0	0.006	0	0.036
178	13	N22	0	157.964	0	-0.023	0	-0.039
179	13	N25	0	82.724	0	0.004	0	-0.006
180	13	N27	0	137.084	0	0.017	0	-0.03
181	13	Totals:	0	2122.012	0			
182	13	COG (ft):	X: 0	Y: 4.672	Z: 0			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
183	14	N10	0	329.564	0	0.028	0	-0.023
184	14	N5	0	157.964	0	-0.023	0	0.039
185	14	N7	0	82.724	0	-0.007	0	0
186	14	N9	0	137.084	0	-0.035	0	0
187	14	N12	0	329.564	0	-0.034	0	-0.013
188	14	N14	0	157.964	0	0.045	0	0
189	14	N16	0	82.724	0	0.004	0	0.006
190	14	N18	0	137.084	0	0.017	0	0.03
191	14	N20	0	329.564	0	0.006	0	0.036
192	14	N22	0	157.964	0	-0.023	0	-0.039
193	14	N25	0	82.724	0	0.004	0	-0.006
194	14	N27	0	137.084	0	0.017	0	-0.03
195	14	Totals:	0	2122.012	0			
196	14	COG (ft):	X: 0	Y: 4.672	Z: 0			
197	15	N10	0	329.564	0	0.028	0	-0.023
198	15	N5	0	157.964	0	-0.023	0	0.039
199	15	N7	0	82.724	0	-0.007	0	0
200	15	N9	0	137.084	0	-0.035	0	0
201	15	N12	0	329.564	0	-0.034	0	-0.013
202	15	N14	0	157.964	0	0.045	0	0
203	15	N16	0	82.724	0	0.004	0	0.006
204	15	N18	0	137.084	0	0.017	0	0.03
205	15	N20	0	329.564	0	0.006	0	0.036
206	15	N22	0	157.964	0	-0.023	0	-0.039
207	15	N25	0	82.724	0	0.004	0	-0.006
208	15	N27	0	137.084	0	0.017	0	-0.03
209	15	Totals:	0	2122.012	0			
210	15	COG (ft):	X: 0	Y: 4.672	Z: 0			
211	16	N10	0	329.564	0	0.028	0	-0.023
212	16	N5	0	157.964	0	-0.023	0	0.039
213	16	N7	0	82.724	0	-0.007	0	0
214	16	N9	0	137.084	0	-0.035	0	0
215	16	N12	0	329.564	0	-0.034	0	-0.013
216	16	N14	0	157.964	0	0.045	0	0
217	16	N16	0	82.724	0	0.004	0	0.006
218	16	N18	0	137.084	0	0.017	0	0.03
219	16	N20	0	329.564	0	0.006	0	0.036
220	16	N22	0	157.964	0	-0.023	0	-0.039
221	16	N25	0	82.724	0	0.004	0	-0.006
222	16	N27	0	137.084	0	0.017	0	-0.03
223	16	Totals:	0	2122.012	0			
224	16	COG (ft):	X: 0	Y: 4.672	Z: 0			
225	17	N10	0	329.564	0	0.028	0	-0.023
226	17	N5	0	157.964	0	-0.023	0	0.039
227	17	N7	0	82.724	0	-0.007	0	0
228	17	N9	0	137.084	0	-0.035	0	0
229	17	N12	0	329.564	0	-0.034	0	-0.013
230	17	N14	0	157.964	0	0.045	0	0
231	17	N16	0	82.724	0	0.004	0	0.006
232	17	N18	0	137.084	0	0.017	0	0.03
233	17	N20	0	329.564	0	0.006	0	0.036
234	17	N22	0	157.964	0	-0.023	0	-0.039
235	17	N25	0	82.724	0	0.004	0	-0.006
236	17	N27	0	137.084	0	0.017	0	-0.03
237	17	Totals:	0	2122.012	0			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
238	17	COG (ft):	X: 0	Y: 4.672	Z: 0			
239	18	N10	0	329.564	0	0.028	0	-0.023
240	18	N5	0	157.964	0	-0.023	0	0.039
241	18	N7	0	82.724	0	-0.007	0	0
242	18	N9	0	137.084	0	-0.035	0	0
243	18	N12	0	329.564	0	-0.034	0	-0.013
244	18	N14	0	157.964	0	0.045	0	0
245	18	N16	0	82.724	0	0.004	0	0.006
246	18	N18	0	137.084	0	0.017	0	0.03
247	18	N20	0	329.564	0	0.006	0	0.036
248	18	N22	0	157.964	0	-0.023	0	-0.039
249	18	N25	0	82.724	0	0.004	0	-0.006
250	18	N27	0	137.084	0	0.017	0	-0.03
251	18	Totals:	0	2122.012	0			
252	18	COG (ft):	X: 0	Y: 4.672	Z: 0			
253	19	N10	0	329.564	0	0.028	0	-0.023
254	19	N5	0	157.964	0	-0.023	0	0.039
255	19	N7	0	82.724	0	-0.007	0	0
256	19	N9	0	137.084	0	-0.035	0	0
257	19	N12	0	329.564	0	-0.034	0	-0.013
258	19	N14	0	157.964	0	0.045	0	0
259	19	N16	0	82.724	0	0.004	0	0.006
260	19	N18	0	137.084	0	0.017	0	0.03
261	19	N20	0	329.564	0	0.006	0	0.036
262	19	N22	0	157.964	0	-0.023	0	-0.039
263	19	N25	0	82.724	0	0.004	0	-0.006
264	19	N27	0	137.084	0	0.017	0	-0.03
265	19	Totals:	0	2122.012	0			
266	19	COG (ft):	X: 0	Y: 4.672	Z: 0			
267	20	N10	0	329.564	0	0.028	0	-0.023
268	20	N5	0	157.964	0	-0.023	0	0.039
269	20	N7	0	82.724	0	-0.007	0	0
270	20	N9	0	137.084	0	-0.035	0	0
271	20	N12	0	329.564	0	-0.034	0	-0.013
272	20	N14	0	157.964	0	0.045	0	0
273	20	N16	0	82.724	0	0.004	0	0.006
274	20	N18	0	137.084	0	0.017	0	0.03
275	20	N20	0	329.564	0	0.006	0	0.036
276	20	N22	0	157.964	0	-0.023	0	-0.039
277	20	N25	0	82.724	0	0.004	0	-0.006
278	20	N27	0	137.084	0	0.017	0	-0.03
279	20	Totals:	0	2122.012	0			
280	20	COG (ft):	X: 0	Y: 4.672	Z: 0			
281	21	N10	0	329.564	0	0.028	0	-0.023
282	21	N5	0	157.964	0	-0.023	0	0.039
283	21	N7	0	82.724	0	-0.007	0	0
284	21	N9	0	137.084	0	-0.035	0	0
285	21	N12	0	329.564	0	-0.034	0	-0.013
286	21	N14	0	157.964	0	0.045	0	0
287	21	N16	0	82.724	0	0.004	0	0.006
288	21	N18	0	137.084	0	0.017	0	0.03
289	21	N20	0	329.564	0	0.006	0	0.036
290	21	N22	0	157.964	0	-0.023	0	-0.039
291	21	N25	0	82.724	0	0.004	0	-0.006
292	21	N27	0	137.084	0	0.017	0	-0.03

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
293	21	Totals:	0	2122.012	0			
294	21	COG (ft):	X: 0	Y: 4.672	Z: 0			
295	22	N10	0	329.564	0	0.028	0	-0.023
296	22	N5	0	157.964	0	-0.023	0	0.039
297	22	N7	0	82.724	0	-0.007	0	0
298	22	N9	0	137.084	0	-0.035	0	0
299	22	N12	0	329.564	0	-0.034	0	-0.013
300	22	N14	0	157.964	0	0.045	0	0
301	22	N16	0	82.724	0	0.004	0	0.006
302	22	N18	0	137.084	0	0.017	0	0.03
303	22	N20	0	329.564	0	0.006	0	0.036
304	22	N22	0	157.964	0	-0.023	0	-0.039
305	22	N25	0	82.724	0	0.004	0	-0.006
306	22	N27	0	137.084	0	0.017	0	-0.03
307	22	Totals:	0	2122.012	0			
308	22	COG (ft):	X: 0	Y: 4.672	Z: 0			
309	23	N10	0	329.564	0	0.028	0	-0.023
310	23	N5	0	157.964	0	-0.023	0	0.039
311	23	N7	0	82.724	0	-0.007	0	0
312	23	N9	0	137.084	0	-0.035	0	0
313	23	N12	0	329.564	0	-0.034	0	-0.013
314	23	N14	0	157.964	0	0.045	0	0
315	23	N16	0	82.724	0	0.004	0	0.006
316	23	N18	0	137.084	0	0.017	0	0.03
317	23	N20	0	329.564	0	0.006	0	0.036
318	23	N22	0	157.964	0	-0.023	0	-0.039
319	23	N25	0	82.724	0	0.004	0	-0.006
320	23	N27	0	137.084	0	0.017	0	-0.03
321	23	Totals:	0	2122.012	0			
322	23	COG (ft):	X: 0	Y: 4.672	Z: 0			
323	24	N10	0	329.564	0	0.028	0	-0.023
324	24	N5	0	157.964	0	-0.023	0	0.039
325	24	N7	0	82.724	0	-0.007	0	0
326	24	N9	0	137.084	0	-0.035	0	0
327	24	N12	0	329.564	0	-0.034	0	-0.013
328	24	N14	0	157.964	0	0.045	0	0
329	24	N16	0	82.724	0	0.004	0	0.006
330	24	N18	0	137.084	0	0.017	0	0.03
331	24	N20	0	329.564	0	0.006	0	0.036
332	24	N22	0	157.964	0	-0.023	0	-0.039
333	24	N25	0	82.724	0	0.004	0	-0.006
334	24	N27	0	137.084	0	0.017	0	-0.03
335	24	Totals:	0	2122.012	0			
336	24	COG (ft):	X: 0	Y: 4.672	Z: 0			
337	25	N10	0	329.564	0	0.028	0	-0.023
338	25	N5	0	157.964	0	-0.023	0	0.039
339	25	N7	0	82.724	0	-0.007	0	0
340	25	N9	0	137.084	0	-0.035	0	0
341	25	N12	0	329.564	0	-0.034	0	-0.013
342	25	N14	0	157.964	0	0.045	0	0
343	25	N16	0	82.724	0	0.004	0	0.006
344	25	N18	0	137.084	0	0.017	0	0.03
345	25	N20	0	329.564	0	0.006	0	0.036
346	25	N22	0	157.964	0	-0.023	0	-0.039
347	25	N25	0	82.724	0	0.004	0	-0.006

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
348	25	N27	0	137.084	0	0.017	0	-0.03
349	25	Totals:	0	2122.012	0			
350	25	COG (ft):	X: 0	Y: 4.672	Z: 0			
351	26	N10	0	329.564	0	0.028	0	-0.023
352	26	N5	0	157.964	0	-0.023	0	0.039
353	26	N7	0	82.724	0	-0.007	0	0
354	26	N9	0	137.084	0	-0.035	0	0
355	26	N12	0	329.564	0	-0.034	0	-0.013
356	26	N14	0	157.964	0	0.045	0	0
357	26	N16	0	82.724	0	0.004	0	0.006
358	26	N18	0	137.084	0	0.017	0	0.03
359	26	N20	0	329.564	0	0.006	0	0.036
360	26	N22	0	157.964	0	-0.023	0	-0.039
361	26	N25	0	82.724	0	0.004	0	-0.006
362	26	N27	0	137.084	0	0.017	0	-0.03
363	26	Totals:	0	2122.012	0			
364	26	COG (ft):	X: 0	Y: 4.672	Z: 0			
365	27	N10	0	329.564	0	0.028	0	-0.023
366	27	N5	0	157.964	0	-0.023	0	0.039
367	27	N7	0	82.724	0	-0.007	0	0
368	27	N9	0	137.084	0	-0.035	0	0
369	27	N12	0	329.564	0	-0.034	0	-0.013
370	27	N14	0	157.964	0	0.045	0	0
371	27	N16	0	82.724	0	0.004	0	0.006
372	27	N18	0	137.084	0	0.017	0	0.03
373	27	N20	0	329.564	0	0.006	0	0.036
374	27	N22	0	157.964	0	-0.023	0	-0.039
375	27	N25	0	82.724	0	0.004	0	-0.006
376	27	N27	0	137.084	0	0.017	0	-0.03
377	27	Totals:	0	2122.012	0			
378	27	COG (ft):	X: 0	Y: 4.672	Z: 0			
379	28	N10	0	329.564	0	0.028	0	-0.023
380	28	N5	0	157.964	0	-0.023	0	0.039
381	28	N7	0	82.724	0	-0.007	0	0
382	28	N9	0	137.084	0	-0.035	0	0
383	28	N12	0	329.564	0	-0.034	0	-0.013
384	28	N14	0	157.964	0	0.045	0	0
385	28	N16	0	82.724	0	0.004	0	0.006
386	28	N18	0	137.084	0	0.017	0	0.03
387	28	N20	0	329.564	0	0.006	0	0.036
388	28	N22	0	157.964	0	-0.023	0	-0.039
389	28	N25	0	82.724	0	0.004	0	-0.006
390	28	N27	0	137.084	0	0.017	0	-0.03
391	28	Totals:	0	2122.012	0			
392	28	COG (ft):	X: 0	Y: 4.672	Z: 0			
393	29	N10	0	329.564	0	0.028	0	-0.023
394	29	N5	0	157.964	0	-0.023	0	0.039
395	29	N7	0	82.724	0	-0.007	0	0
396	29	N9	0	137.084	0	-0.035	0	0
397	29	N12	0	329.564	0	-0.034	0	-0.013
398	29	N14	0	157.964	0	0.045	0	0
399	29	N16	0	82.724	0	0.004	0	0.006
400	29	N18	0	137.084	0	0.017	0	0.03
401	29	N20	0	329.564	0	0.006	0	0.036
402	29	N22	0	157.964	0	-0.023	0	-0.039

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
403	29	N25	0	82.724	0	0.004	0	-0.006
404	29	N27	0	137.084	0	0.017	0	-0.03
405	29	Totals:	0	2122.012	0			
406	29	COG (ft):	X: 0	Y: 4.672	Z: 0			
407	30	N10	0	329.564	0	0.028	0	-0.023
408	30	N5	0	157.964	0	-0.023	0	0.039
409	30	N7	0	82.724	0	-0.007	0	0
410	30	N9	0	137.084	0	-0.035	0	0
411	30	N12	0	329.564	0	-0.034	0	-0.013
412	30	N14	0	157.964	0	0.045	0	0
413	30	N16	0	82.724	0	0.004	0	0.006
414	30	N18	0	137.084	0	0.017	0	0.03
415	30	N20	0	329.564	0	0.006	0	0.036
416	30	N22	0	157.964	0	-0.023	0	-0.039
417	30	N25	0	82.724	0	0.004	0	-0.006
418	30	N27	0	137.084	0	0.017	0	-0.03
419	30	Totals:	0	2122.012	0			
420	30	COG (ft):	X: 0	Y: 4.672	Z: 0			
421	31	N10	0	329.564	0	0.028	0	-0.023
422	31	N5	0	157.964	0	-0.023	0	0.039
423	31	N7	0	82.724	0	-0.007	0	0
424	31	N9	0	137.084	0	-0.035	0	0
425	31	N12	0	329.564	0	-0.034	0	-0.013
426	31	N14	0	157.964	0	0.045	0	0
427	31	N16	0	82.724	0	0.004	0	0.006
428	31	N18	0	137.084	0	0.017	0	0.03
429	31	N20	0	329.564	0	0.006	0	0.036
430	31	N22	0	157.964	0	-0.023	0	-0.039
431	31	N25	0	82.724	0	0.004	0	-0.006
432	31	N27	0	137.084	0	0.017	0	-0.03
433	31	Totals:	0	2122.012	0			
434	31	COG (ft):	X: 0	Y: 4.672	Z: 0			
435	32	N10	0	329.564	0	0.028	0	-0.023
436	32	N5	0	157.964	0	-0.023	0	0.039
437	32	N7	0	82.724	0	-0.007	0	0
438	32	N9	0	137.084	0	-0.035	0	0
439	32	N12	0	329.564	0	-0.034	0	-0.013
440	32	N14	0	157.964	0	0.045	0	0
441	32	N16	0	82.724	0	0.004	0	0.006
442	32	N18	0	137.084	0	0.017	0	0.03
443	32	N20	0	329.564	0	0.006	0	0.036
444	32	N22	0	157.964	0	-0.023	0	-0.039
445	32	N25	0	82.724	0	0.004	0	-0.006
446	32	N27	0	137.084	0	0.017	0	-0.03
447	32	Totals:	0	2122.012	0			
448	32	COG (ft):	X: 0	Y: 4.672	Z: 0			
449	33	N10	0	329.564	0	0.028	0	-0.023
450	33	N5	0	157.964	0	-0.023	0	0.039
451	33	N7	0	82.724	0	-0.007	0	0
452	33	N9	0	137.084	0	-0.035	0	0
453	33	N12	0	329.564	0	-0.034	0	-0.013
454	33	N14	0	157.964	0	0.045	0	0
455	33	N16	0	82.724	0	0.004	0	0.006
456	33	N18	0	137.084	0	0.017	0	0.03
457	33	N20	0	329.564	0	0.006	0	0.036

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
458	33	N22	0	157.964	0	-0.023	0	-0.039
459	33	N25	0	82.724	0	0.004	0	-0.006
460	33	N27	0	137.084	0	0.017	0	-0.03
461	33	Totals:	0	2122.012	0			
462	33	COG (ft):	X: 0	Y: 4.672	Z: 0			
463	34	N10	0	329.564	0	0.028	0	-0.023
464	34	N5	0	157.964	0	-0.023	0	0.039
465	34	N7	0	82.724	0	-0.007	0	0
466	34	N9	0	137.084	0	-0.035	0	0
467	34	N12	0	329.564	0	-0.034	0	-0.013
468	34	N14	0	157.964	0	0.045	0	0
469	34	N16	0	82.724	0	0.004	0	0.006
470	34	N18	0	137.084	0	0.017	0	0.03
471	34	N20	0	329.564	0	0.006	0	0.036
472	34	N22	0	157.964	0	-0.023	0	-0.039
473	34	N25	0	82.724	0	0.004	0	-0.006
474	34	N27	0	137.084	0	0.017	0	-0.03
475	34	Totals:	0	2122.012	0			
476	34	COG (ft):	X: 0	Y: 4.672	Z: 0			
477	35	N10	0	329.564	0	0.028	0	-0.023
478	35	N5	0	157.964	0	-0.023	0	0.039
479	35	N7	0	82.724	0	-0.007	0	0
480	35	N9	0	137.084	0	-0.035	0	0
481	35	N12	0	329.564	0	-0.034	0	-0.013
482	35	N14	0	157.964	0	0.045	0	0
483	35	N16	0	82.724	0	0.004	0	0.006
484	35	N18	0	137.084	0	0.017	0	0.03
485	35	N20	0	329.564	0	0.006	0	0.036
486	35	N22	0	157.964	0	-0.023	0	-0.039
487	35	N25	0	82.724	0	0.004	0	-0.006
488	35	N27	0	137.084	0	0.017	0	-0.03
489	35	Totals:	0	2122.012	0			
490	35	COG (ft):	X: 0	Y: 4.672	Z: 0			
491	36	N10	0	329.564	0	0.028	0	-0.023
492	36	N5	0	157.964	0	-0.023	0	0.039
493	36	N7	0	82.724	0	-0.007	0	0
494	36	N9	0	137.084	0	-0.035	0	0
495	36	N12	0	329.564	0	-0.034	0	-0.013
496	36	N14	0	157.964	0	0.045	0	0
497	36	N16	0	82.724	0	0.004	0	0.006
498	36	N18	0	137.084	0	0.017	0	0.03
499	36	N20	0	329.564	0	0.006	0	0.036
500	36	N22	0	157.964	0	-0.023	0	-0.039
501	36	N25	0	82.724	0	0.004	0	-0.006
502	36	N27	0	137.084	0	0.017	0	-0.03
503	36	Totals:	0	2122.012	0			
504	36	COG (ft):	X: 0	Y: 4.672	Z: 0			
505	37	N10	0	329.564	0	0.028	0	-0.023
506	37	N5	0	157.964	0	-0.023	0	0.039
507	37	N7	0	82.724	0	-0.007	0	0
508	37	N9	0	137.084	0	-0.035	0	0
509	37	N12	0	329.564	0	-0.034	0	-0.013
510	37	N14	0	157.964	0	0.045	0	0
511	37	N16	0	82.724	0	0.004	0	0.006
512	37	N18	0	137.084	0	0.017	0	0.03

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
513	37	N20	0	329.564	0	0.006	0	0.036
514	37	N22	0	157.964	0	-0.023	0	-0.039
515	37	N25	0	82.724	0	0.004	0	-0.006
516	37	N27	0	137.084	0	0.017	0	-0.03
517	37	Totals:	0	2122.012	0			
518	37	COG (ft):	X: 0	Y: 4.672	Z: 0			
519	38	N10	0	329.564	0	0.028	0	-0.023
520	38	N5	0	157.964	0	-0.023	0	0.039
521	38	N7	0	82.724	0	-0.007	0	0
522	38	N9	0	137.084	0	-0.035	0	0
523	38	N12	0	329.564	0	-0.034	0	-0.013
524	38	N14	0	157.964	0	0.045	0	0
525	38	N16	0	82.724	0	0.004	0	0.006
526	38	N18	0	137.084	0	0.017	0	0.03
527	38	N20	0	329.564	0	0.006	0	0.036
528	38	N22	0	157.964	0	-0.023	0	-0.039
529	38	N25	0	82.724	0	0.004	0	-0.006
530	38	N27	0	137.084	0	0.017	0	-0.03
531	38	Totals:	0	2122.012	0			
532	38	COG (ft):	X: 0	Y: 4.672	Z: 0			
533	39	N10	0	329.564	0	0.028	0	-0.023
534	39	N5	0	157.964	0	-0.023	0	0.039
535	39	N7	0	82.724	0	-0.007	0	0
536	39	N9	0	137.084	0	-0.035	0	0
537	39	N12	0	329.564	0	-0.034	0	-0.013
538	39	N14	0	157.964	0	0.045	0	0
539	39	N16	0	82.724	0	0.004	0	0.006
540	39	N18	0	137.084	0	0.017	0	0.03
541	39	N20	0	329.564	0	0.006	0	0.036
542	39	N22	0	157.964	0	-0.023	0	-0.039
543	39	N25	0	82.724	0	0.004	0	-0.006
544	39	N27	0	137.084	0	0.017	0	-0.03
545	39	Totals:	0	2122.012	0			
546	39	COG (ft):	X: 0	Y: 4.672	Z: 0			
547	40	N10	0	329.564	0	0.028	0	-0.023
548	40	N5	0	157.964	0	-0.023	0	0.039
549	40	N7	0	82.724	0	-0.007	0	0
550	40	N9	0	137.084	0	-0.035	0	0
551	40	N12	0	329.564	0	-0.034	0	-0.013
552	40	N14	0	157.964	0	0.045	0	0
553	40	N16	0	82.724	0	0.004	0	0.006
554	40	N18	0	137.084	0	0.017	0	0.03
555	40	N20	0	329.564	0	0.006	0	0.036
556	40	N22	0	157.964	0	-0.023	0	-0.039
557	40	N25	0	82.724	0	0.004	0	-0.006
558	40	N27	0	137.084	0	0.017	0	-0.03
559	40	Totals:	0	2122.012	0			
560	40	COG (ft):	X: 0	Y: 4.672	Z: 0			
561	41	N10	0	329.564	0	0.028	0	-0.023
562	41	N5	0	157.964	0	-0.023	0	0.039
563	41	N7	0	82.724	0	-0.007	0	0
564	41	N9	0	137.084	0	-0.035	0	0
565	41	N12	0	329.564	0	-0.034	0	-0.013
566	41	N14	0	157.964	0	0.045	0	0
567	41	N16	0	82.724	0	0.004	0	0.006

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
568	41	N18	0	137.084	0	0.017	0	0.03
569	41	N20	0	329.564	0	0.006	0	0.036
570	41	N22	0	157.964	0	-0.023	0	-0.039
571	41	N25	0	82.724	0	0.004	0	-0.006
572	41	N27	0	137.084	0	0.017	0	-0.03
573	41	Totals:	0	2122.012	0			
574	41	COG (ft):	X: 0	Y: 4.672	Z: 0			
575	42	N10	0	329.564	0	0.028	0	-0.023
576	42	N5	0	157.964	0	-0.023	0	0.039
577	42	N7	0	82.724	0	-0.007	0	0
578	42	N9	0	137.084	0	-0.035	0	0
579	42	N12	0	329.564	0	-0.034	0	-0.013
580	42	N14	0	157.964	0	0.045	0	0
581	42	N16	0	82.724	0	0.004	0	0.006
582	42	N18	0	137.084	0	0.017	0	0.03
583	42	N20	0	329.564	0	0.006	0	0.036
584	42	N22	0	157.964	0	-0.023	0	-0.039
585	42	N25	0	82.724	0	0.004	0	-0.006
586	42	N27	0	137.084	0	0.017	0	-0.03
587	42	Totals:	0	2122.012	0			
588	42	COG (ft):	X: 0	Y: 4.672	Z: 0			
589	43	N10	0	329.564	0	0.028	0	-0.023
590	43	N5	0	157.964	0	-0.023	0	0.039
591	43	N7	0	82.724	0	-0.007	0	0
592	43	N9	0	137.084	0	-0.035	0	0
593	43	N12	0	329.564	0	-0.034	0	-0.013
594	43	N14	0	157.964	0	0.045	0	0
595	43	N16	0	82.724	0	0.004	0	0.006
596	43	N18	0	137.084	0	0.017	0	0.03
597	43	N20	0	329.564	0	0.006	0	0.036
598	43	N22	0	157.964	0	-0.023	0	-0.039
599	43	N25	0	82.724	0	0.004	0	-0.006
600	43	N27	0	137.084	0	0.017	0	-0.03
601	43	Totals:	0	2122.012	0			
602	43	COG (ft):	X: 0	Y: 4.672	Z: 0			
603	44	N10	0	329.564	0	0.028	0	-0.023
604	44	N5	0	157.964	0	-0.023	0	0.039
605	44	N7	0	82.724	0	-0.007	0	0
606	44	N9	0	137.084	0	-0.035	0	0
607	44	N12	0	329.564	0	-0.034	0	-0.013
608	44	N14	0	157.964	0	0.045	0	0
609	44	N16	0	82.724	0	0.004	0	0.006
610	44	N18	0	137.084	0	0.017	0	0.03
611	44	N20	0	329.564	0	0.006	0	0.036
612	44	N22	0	157.964	0	-0.023	0	-0.039
613	44	N25	0	82.724	0	0.004	0	-0.006
614	44	N27	0	137.084	0	0.017	0	-0.03
615	44	Totals:	0	2122.012	0			
616	44	COG (ft):	X: 0	Y: 4.672	Z: 0			
617	45	N10	0	329.564	0	0.028	0	-0.023
618	45	N5	0	157.964	0	-0.023	0	0.039
619	45	N7	0	82.724	0	-0.007	0	0
620	45	N9	0	137.084	0	-0.035	0	0
621	45	N12	0	329.564	0	-0.034	0	-0.013
622	45	N14	0	157.964	0	0.045	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
623	45	N16	0	82.724	0	0.004	0	0.006
624	45	N18	0	137.084	0	0.017	0	0.03
625	45	N20	0	329.564	0	0.006	0	0.036
626	45	N22	0	157.964	0	-0.023	0	-0.039
627	45	N25	0	82.724	0	0.004	0	-0.006
628	45	N27	0	137.084	0	0.017	0	-0.03
629	45	Totals:	0	2122.012	0			
630	45	COG (ft):	X: 0	Y: 4.672	Z: 0			
631	46	N10	0	329.564	0	0.028	0	-0.023
632	46	N5	0	157.964	0	-0.023	0	0.039
633	46	N7	0	82.724	0	-0.007	0	0
634	46	N9	0	137.084	0	-0.035	0	0
635	46	N12	0	329.564	0	-0.034	0	-0.013
636	46	N14	0	157.964	0	0.045	0	0
637	46	N16	0	82.724	0	0.004	0	0.006
638	46	N18	0	137.084	0	0.017	0	0.03
639	46	N20	0	329.564	0	0.006	0	0.036
640	46	N22	0	157.964	0	-0.023	0	-0.039
641	46	N25	0	82.724	0	0.004	0	-0.006
642	46	N27	0	137.084	0	0.017	0	-0.03
643	46	Totals:	0	2122.012	0			
644	46	COG (ft):	X: 0	Y: 4.672	Z: 0			
645	47	N10	0	329.564	0	0.028	0	-0.023
646	47	N5	0	157.964	0	-0.023	0	0.039
647	47	N7	0	82.724	0	-0.007	0	0
648	47	N9	0	137.084	0	-0.035	0	0
649	47	N12	0	329.564	0	-0.034	0	-0.013
650	47	N14	0	157.964	0	0.045	0	0
651	47	N16	0	82.724	0	0.004	0	0.006
652	47	N18	0	137.084	0	0.017	0	0.03
653	47	N20	0	329.564	0	0.006	0	0.036
654	47	N22	0	157.964	0	-0.023	0	-0.039
655	47	N25	0	82.724	0	0.004	0	-0.006
656	47	N27	0	137.084	0	0.017	0	-0.03
657	47	Totals:	0	2122.012	0			
658	47	COG (ft):	X: 0	Y: 4.672	Z: 0			
659	48	N10	0	329.564	0	0.028	0	-0.023
660	48	N5	0	157.964	0	-0.023	0	0.039
661	48	N7	0	82.724	0	-0.007	0	0
662	48	N9	0	137.084	0	-0.035	0	0
663	48	N12	0	329.564	0	-0.034	0	-0.013
664	48	N14	0	157.964	0	0.045	0	0
665	48	N16	0	82.724	0	0.004	0	0.006
666	48	N18	0	137.084	0	0.017	0	0.03
667	48	N20	0	329.564	0	0.006	0	0.036
668	48	N22	0	157.964	0	-0.023	0	-0.039
669	48	N25	0	82.724	0	0.004	0	-0.006
670	48	N27	0	137.084	0	0.017	0	-0.03
671	48	Totals:	0	2122.012	0			
672	48	COG (ft):	X: 0	Y: 4.672	Z: 0			
673	49	N10	0	329.564	0	0.028	0	-0.023
674	49	N5	0	157.964	0	-0.023	0	0.039
675	49	N7	0	82.724	0	-0.007	0	0
676	49	N9	0	137.084	0	-0.035	0	0
677	49	N12	0	329.564	0	-0.034	0	-0.013

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
678	49	N14	0	157.964	0	0.045	0	0
679	49	N16	0	82.724	0	0.004	0	0.006
680	49	N18	0	137.084	0	0.017	0	0.03
681	49	N20	0	329.564	0	0.006	0	0.036
682	49	N22	0	157.964	0	-0.023	0	-0.039
683	49	N25	0	82.724	0	0.004	0	-0.006
684	49	N27	0	137.084	0	0.017	0	-0.03
685	49	Totals:	0	2122.012	0			
686	49	COG (ft):	X: 0	Y: 4.672	Z: 0			
687	50	N10	0	329.564	0	0.028	0	-0.023
688	50	N5	0	157.964	0	-0.023	0	0.039
689	50	N7	0	82.724	0	-0.007	0	0
690	50	N9	0	137.084	0	-0.035	0	0
691	50	N12	0	329.564	0	-0.034	0	-0.013
692	50	N14	0	157.964	0	0.045	0	0
693	50	N16	0	82.724	0	0.004	0	0.006
694	50	N18	0	137.084	0	0.017	0	0.03
695	50	N20	0	329.564	0	0.006	0	0.036
696	50	N22	0	157.964	0	-0.023	0	-0.039
697	50	N25	0	82.724	0	0.004	0	-0.006
698	50	N27	0	137.084	0	0.017	0	-0.03
699	50	Totals:	0	2122.012	0			
700	50	COG (ft):	X: 0	Y: 4.672	Z: 0			
701	51	N10	0	384.492	0	0.033	0	-0.027
702	51	N5	0	184.292	0	-0.026	0	0.046
703	51	N7	0	96.512	0	-0.008	0	0
704	51	N9	0	159.932	0	-0.04	0	0
705	51	N12	0	384.492	0	-0.04	0	-0.015
706	51	N14	0	184.292	0	0.053	0	0
707	51	N16	0	96.512	0	0.004	0	0.007
708	51	N18	0	159.932	0	0.02	0	0.035
709	51	N20	0	384.492	0	0.007	0	0.042
710	51	N22	0	184.292	0	-0.026	0	-0.046
711	51	N25	0	96.512	0	0.004	0	-0.007
712	51	N27	0	159.932	0	0.02	0	-0.035
713	51	Totals:	0	2475.681	0			
714	51	COG (ft):	X: 0	Y: 4.672	Z: 0			
715	52	N10	0	341.399	29.588	0.173	0.002	-0.024
716	52	N5	0	163.637	14.182	0.043	-0.003	0.04
717	52	N7	0	85.695	7.427	0.024	0	0
718	52	N9	0	142.007	12.307	0.021	0	0
719	52	N12	0	341.399	29.588	0.109	0.001	-0.013
720	52	N14	0	163.637	14.182	0.113	0	0
721	52	N16	0	85.695	7.427	0.035	-0.001	0.006
722	52	N18	0	142.007	12.307	0.074	-0.003	0.031
723	52	N20	0	341.399	29.588	0.151	-0.003	0.037
724	52	N22	0	163.637	14.182	0.043	0.003	-0.04
725	52	N25	0	85.695	7.427	0.035	0.001	-0.006
726	52	N27	0	142.007	12.307	0.074	0.003	-0.031
727	52	Totals:	0	2198.216	190.509			
728	52	COG (ft):	X: 0	Y: 4.672	Z: 0			
729	53	N10	-14.794	341.399	25.623	0.154	0.003	0.048
730	53	N5	-7.091	163.637	12.281	0.034	-0.004	0.073
731	53	N7	-3.713	85.695	6.432	0.02	0	0.016
732	53	N9	-6.154	142.007	10.658	0.013	-0.002	0.028

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
733	53	N12	-14.794	341.399	25.623	0.09	-0.001	0.059
734	53	N14	-7.091	163.637	12.281	0.104	0.002	0.033
735	53	N16	-3.713	85.695	6.432	0.031	0	0.022
736	53	N18	-6.154	142.007	10.658	0.067	-0.002	0.059
737	53	N20	-14.794	341.399	25.623	0.131	-0.002	0.109
738	53	N22	-7.091	163.637	12.281	0.034	0.002	-0.007
739	53	N25	-3.713	85.695	6.432	0.031	0.001	0.009
740	53	N27	-6.154	142.007	10.658	0.067	0.003	-0.003
741	53	Totals:	-95.255	2198.216	164.981			
742	53	COG (ft):	X: 0	Y: 4.672	Z: 0			
743	54	N10	-25.623	341.399	14.794	0.101	0.003	0.101
744	54	N5	-12.281	163.637	7.091	0.01	-0.003	0.097
745	54	N7	-6.432	85.695	3.713	0.008	-0.001	0.027
746	54	N9	-10.658	142.007	6.154	-0.008	-0.003	0.049
747	54	N12	-25.623	341.399	14.794	0.037	-0.002	0.112
748	54	N14	-12.281	163.637	7.091	0.08	0.003	0.057
749	54	N16	-6.432	85.695	3.713	0.019	0	0.034
750	54	N18	-10.658	142.007	6.154	0.046	0	0.08
751	54	N20	-25.623	341.399	14.794	0.079	-0.001	0.162
752	54	N22	-12.281	163.637	7.091	0.01	0	0.017
753	54	N25	-6.432	85.695	3.713	0.019	0.001	0.021
754	54	N27	-10.658	142.007	6.154	0.046	0.003	0.018
755	54	Totals:	-164.981	2198.216	95.255			
756	54	COG (ft):	X: 0	Y: 4.672	Z: 0			
757	55	N10	-29.588	341.399	0	0.029	0.002	0.12
758	55	N5	-14.182	163.637	0	-0.023	-0.002	0.106
759	55	N7	-7.427	85.695	0	-0.007	-0.001	0.031
760	55	N9	-12.307	142.007	0	-0.036	-0.003	0.056
761	55	N12	-29.588	341.399	0	-0.035	-0.003	0.131
762	55	N14	-14.182	163.637	0	0.047	0.004	0.066
763	55	N16	-7.427	85.695	0	0.004	0	0.038
764	55	N18	-12.307	142.007	0	0.018	0.002	0.087
765	55	N20	-29.588	341.399	0	0.006	0.001	0.181
766	55	N22	-14.182	163.637	0	-0.023	-0.002	0.025
767	55	N25	-7.427	85.695	0	0.004	0	0.025
768	55	N27	-12.307	142.007	0	0.018	0.002	0.025
769	55	Totals:	-190.509	2198.216	0			
770	55	COG (ft):	X: 0	Y: 4.672	Z: 0			
771	56	N10	-25.623	341.399	-14.794	-0.043	0.001	0.101
772	56	N5	-12.281	163.637	-7.091	-0.056	0	0.097
773	56	N7	-6.432	85.695	-3.713	-0.023	-0.001	0.027
774	56	N9	-10.658	142.007	-6.154	-0.064	-0.003	0.049
775	56	N12	-25.623	341.399	-14.794	-0.108	-0.003	0.112
776	56	N14	-12.281	163.637	-7.091	0.014	0.003	0.057
777	56	N16	-6.432	85.695	-3.713	-0.012	0.001	0.034
778	56	N18	-10.658	142.007	-6.154	-0.01	0.003	0.08
779	56	N20	-25.623	341.399	-14.794	-0.066	0.002	0.162
780	56	N22	-12.281	163.637	-7.091	-0.056	-0.003	0.017
781	56	N25	-6.432	85.695	-3.713	-0.012	0	0.021
782	56	N27	-10.658	142.007	-6.154	-0.01	0	0.018
783	56	Totals:	-164.981	2198.216	-95.255			
784	56	COG (ft):	X: 0	Y: 4.672	Z: 0			
785	57	N10	-14.794	341.399	-25.623	-0.096	-0.001	0.048
786	57	N5	-7.091	163.637	-12.281	-0.08	0.002	0.073
787	57	N7	-3.713	85.695	-6.432	-0.035	0	0.016

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
788	57	N9	-6.154	142.007	-10.658	-0.085	-0.002	0.028
789	57	N12	-14.794	341.399	-25.623	-0.16	-0.002	0.059
790	57	N14	-7.091	163.637	-12.281	-0.01	0.002	0.033
791	57	N16	-3.713	85.695	-6.432	-0.023	0.001	0.022
792	57	N18	-6.154	142.007	-10.658	-0.031	0.003	0.059
793	57	N20	-14.794	341.399	-25.623	-0.119	0.003	0.109
794	57	N22	-7.091	163.637	-12.281	-0.08	-0.004	-0.007
795	57	N25	-3.713	85.695	-6.432	-0.023	0	0.009
796	57	N27	-6.154	142.007	-10.658	-0.031	-0.002	-0.003
797	57	Totals:	-95.255	2198.216	-164.981			
798	57	COG (ft):	X: 0	Y: 4.672	Z: 0			
799	58	N10	0	341.399	-29.588	-0.115	-0.002	-0.024
800	58	N5	0	163.637	-14.182	-0.089	0.003	0.04
801	58	N7	0	85.695	-7.427	-0.039	0	0
802	58	N9	0	142.007	-12.307	-0.092	0	0
803	58	N12	0	341.399	-29.588	-0.18	-0.001	-0.013
804	58	N14	0	163.637	-14.182	-0.019	0	0
805	58	N16	0	85.695	-7.427	-0.028	0.001	0.006
806	58	N18	0	142.007	-12.307	-0.038	0.003	0.031
807	58	N20	0	341.399	-29.588	-0.138	0.003	0.037
808	58	N22	0	163.637	-14.182	-0.089	-0.003	-0.04
809	58	N25	0	85.695	-7.427	-0.028	-0.001	-0.006
810	58	N27	0	142.007	-12.307	-0.038	-0.003	-0.031
811	58	Totals:	0	2198.216	-190.509			
812	58	COG (ft):	X: 0	Y: 4.672	Z: 0			
813	59	N10	14.794	341.399	-25.623	-0.096	-0.003	-0.096
814	59	N5	7.091	163.637	-12.281	-0.08	0.004	0.007
815	59	N7	3.713	85.695	-6.432	-0.035	0	-0.016
816	59	N9	6.154	142.007	-10.658	-0.085	0.002	-0.028
817	59	N12	14.794	341.399	-25.623	-0.16	0.001	-0.085
818	59	N14	7.091	163.637	-12.281	-0.01	-0.002	-0.033
819	59	N16	3.713	85.695	-6.432	-0.023	0	-0.009
820	59	N18	6.154	142.007	-10.658	-0.031	0.002	0.003
821	59	N20	14.794	341.399	-25.623	-0.119	0.002	-0.035
822	59	N22	7.091	163.637	-12.281	-0.08	-0.002	-0.073
823	59	N25	3.713	85.695	-6.432	-0.023	-0.001	-0.022
824	59	N27	6.154	142.007	-10.658	-0.031	-0.003	-0.059
825	59	Totals:	95.255	2198.216	-164.981			
826	59	COG (ft):	X: 0	Y: 4.672	Z: 0			
827	60	N10	25.623	341.399	-14.794	-0.043	-0.003	-0.149
828	60	N5	12.281	163.637	-7.091	-0.056	0.003	-0.017
829	60	N7	6.432	85.695	-3.713	-0.023	0.001	-0.027
830	60	N9	10.658	142.007	-6.154	-0.064	0.003	-0.049
831	60	N12	25.623	341.399	-14.794	-0.108	0.002	-0.138
832	60	N14	12.281	163.637	-7.091	0.014	-0.003	-0.057
833	60	N16	6.432	85.695	-3.713	-0.012	0	-0.021
834	60	N18	10.658	142.007	-6.154	-0.01	0	-0.018
835	60	N20	25.623	341.399	-14.794	-0.066	0.001	-0.088
836	60	N22	12.281	163.637	-7.091	-0.056	0	-0.097
837	60	N25	6.432	85.695	-3.713	-0.012	-0.001	-0.034
838	60	N27	10.658	142.007	-6.154	-0.01	-0.003	-0.08
839	60	Totals:	164.981	2198.216	-95.255			
840	60	COG (ft):	X: 0	Y: 4.672	Z: 0			
841	61	N10	29.588	341.399	0	0.029	-0.002	-0.168
842	61	N5	14.182	163.637	0	-0.023	0.002	-0.025

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
843	61	N7	7.427	85.695	0	-0.007	0.001	-0.031
844	61	N9	12.307	142.007	0	-0.036	0.003	-0.056
845	61	N12	29.588	341.399	0	-0.035	0.003	-0.157
846	61	N14	14.182	163.637	0	0.047	-0.004	-0.066
847	61	N16	7.427	85.695	0	0.004	0	-0.025
848	61	N18	12.307	142.007	0	0.018	-0.002	-0.025
849	61	N20	29.588	341.399	0	0.006	-0.001	-0.107
850	61	N22	14.182	163.637	0	-0.023	0.002	-0.106
851	61	N25	7.427	85.695	0	0.004	0	-0.038
852	61	N27	12.307	142.007	0	0.018	-0.002	-0.087
853	61	Totals:	190.509	2198.216	0			
854	61	COG (ft):	X: 0	Y: 4.672	Z: 0			
855	62	N10	25.623	341.399	14.794	0.101	-0.001	-0.149
856	62	N5	12.281	163.637	7.091	0.01	0	-0.017
857	62	N7	6.432	85.695	3.713	0.008	0.001	-0.027
858	62	N9	10.658	142.007	6.154	-0.008	0.003	-0.049
859	62	N12	25.623	341.399	14.794	0.037	0.003	-0.138
860	62	N14	12.281	163.637	7.091	0.08	-0.003	-0.057
861	62	N16	6.432	85.695	3.713	0.019	-0.001	-0.021
862	62	N18	10.658	142.007	6.154	0.046	-0.003	-0.018
863	62	N20	25.623	341.399	14.794	0.079	-0.002	-0.088
864	62	N22	12.281	163.637	7.091	0.01	0.003	-0.097
865	62	N25	6.432	85.695	3.713	0.019	0	-0.034
866	62	N27	10.658	142.007	6.154	0.046	0	-0.08
867	62	Totals:	164.981	2198.216	95.255			
868	62	COG (ft):	X: 0	Y: 4.672	Z: 0			
869	63	N10	14.794	341.399	25.623	0.154	0.001	-0.096
870	63	N5	7.091	163.637	12.281	0.034	-0.002	0.007
871	63	N7	3.713	85.695	6.432	0.02	0	-0.016
872	63	N9	6.154	142.007	10.658	0.013	0.002	-0.028
873	63	N12	14.794	341.399	25.623	0.09	0.002	-0.085
874	63	N14	7.091	163.637	12.281	0.104	-0.002	-0.033
875	63	N16	3.713	85.695	6.432	0.031	-0.001	-0.009
876	63	N18	6.154	142.007	10.658	0.067	-0.003	0.003
877	63	N20	14.794	341.399	25.623	0.131	-0.003	-0.035
878	63	N22	7.091	163.637	12.281	0.034	0.004	-0.073
879	63	N25	3.713	85.695	6.432	0.031	0	-0.022
880	63	N27	6.154	142.007	10.658	0.067	0.002	-0.059
881	63	Totals:	95.255	2198.216	164.981			
882	63	COG (ft):	X: 0	Y: 4.672	Z: 0			
883	64	N10	0	235.338	29.588	0.164	0.002	-0.017
884	64	N5	0	112.801	14.182	0.05	-0.003	0.028
885	64	N7	0	59.073	7.427	0.026	0	0
886	64	N9	0	97.89	12.307	0.032	0	0
887	64	N12	0	235.338	29.588	0.12	0.001	-0.009
888	64	N14	0	112.801	14.182	0.098	0	0
889	64	N16	0	59.073	7.427	0.034	-0.001	0.004
890	64	N18	0	97.89	12.307	0.069	-0.003	0.021
891	64	N20	0	235.338	29.588	0.148	-0.003	0.026
892	64	N22	0	112.801	14.182	0.05	0.003	-0.028
893	64	N25	0	59.073	7.427	0.034	0.001	-0.004
894	64	N27	0	97.89	12.307	0.069	0.003	-0.021
895	64	Totals:	0	1515.306	190.509			
896	64	COG (ft):	X: 0	Y: 4.672	Z: 0			
897	65	N10	-14.794	235.338	25.623	0.145	0.003	0.055

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
898	65	N5	-7.091	112.801	12.281	0.041	-0.004	0.061
899	65	N7	-3.713	59.073	6.432	0.022	0	0.016
900	65	N9	-6.154	97.89	10.658	0.024	-0.002	0.028
901	65	N12	-14.794	235.338	25.623	0.1	-0.001	0.063
902	65	N14	-7.091	112.801	12.281	0.089	0.002	0.033
903	65	N16	-3.713	59.073	6.432	0.03	0	0.02
904	65	N18	-6.154	97.89	10.658	0.061	-0.002	0.049
905	65	N20	-14.794	235.338	25.623	0.129	-0.002	0.098
906	65	N22	-7.091	112.801	12.281	0.041	0.002	0.005
907	65	N25	-3.713	59.073	6.432	0.03	0.001	0.011
908	65	N27	-6.154	97.89	10.658	0.061	0.003	0.007
909	65	Totals:	-95.255	1515.306	164.981			
910	65	COG (ft):	X: 0	Y: 4.672	Z: 0			
911	66	N10	-25.623	235.338	14.794	0.092	0.003	0.108
912	66	N5	-12.281	112.801	7.091	0.017	-0.003	0.085
913	66	N7	-6.432	59.073	3.713	0.011	-0.001	0.027
914	66	N9	-10.658	97.89	6.154	0.004	-0.003	0.049
915	66	N12	-25.623	235.338	14.794	0.048	-0.002	0.116
916	66	N14	-12.281	112.801	7.091	0.065	0.003	0.057
917	66	N16	-6.432	59.073	3.713	0.018	0	0.032
918	66	N18	-10.658	97.89	6.154	0.04	0	0.07
919	66	N20	-25.623	235.338	14.794	0.076	-0.001	0.15
920	66	N22	-12.281	112.801	7.091	0.017	0	0.029
921	66	N25	-6.432	59.073	3.713	0.018	0.001	0.023
922	66	N27	-10.658	97.89	6.154	0.04	0.003	0.027
923	66	Totals:	-164.981	1515.306	95.255			
924	66	COG (ft):	X: 0	Y: 4.672	Z: 0			
925	67	N10	-29.588	235.338	0	0.02	0.002	0.128
926	67	N5	-14.182	112.801	0	-0.016	-0.002	0.094
927	67	N7	-7.427	59.073	0	-0.005	-0.001	0.031
928	67	N9	-12.307	97.89	0	-0.025	-0.003	0.056
929	67	N12	-29.588	235.338	0	-0.024	-0.003	0.135
930	67	N14	-14.182	112.801	0	0.032	0.004	0.066
931	67	N16	-7.427	59.073	0	0.003	0	0.036
932	67	N18	-12.307	97.89	0	0.012	0.002	0.078
933	67	N20	-29.588	235.338	0	0.004	0.001	0.17
934	67	N22	-14.182	112.801	0	-0.016	-0.002	0.038
935	67	N25	-7.427	59.073	0	0.003	0	0.027
936	67	N27	-12.307	97.89	0	0.012	0.002	0.035
937	67	Totals:	-190.509	1515.306	0			
938	67	COG (ft):	X: 0	Y: 4.672	Z: 0			
939	68	N10	-25.623	235.338	-14.794	-0.052	0.001	0.108
940	68	N5	-12.281	112.801	-7.091	-0.049	0	0.085
941	68	N7	-6.432	59.073	-3.713	-0.021	-0.001	0.027
942	68	N9	-10.658	97.89	-6.154	-0.053	-0.003	0.049
943	68	N12	-25.623	235.338	-14.794	-0.096	-0.003	0.116
944	68	N14	-12.281	112.801	-7.091	-0.001	0.003	0.057
945	68	N16	-6.432	59.073	-3.713	-0.013	0.001	0.032
946	68	N18	-10.658	97.89	-6.154	-0.016	0.003	0.07
947	68	N20	-25.623	235.338	-14.794	-0.068	0.002	0.15
948	68	N22	-12.281	112.801	-7.091	-0.049	-0.003	0.029
949	68	N25	-6.432	59.073	-3.713	-0.013	0	0.023
950	68	N27	-10.658	97.89	-6.154	-0.016	0	0.027
951	68	Totals:	-164.981	1515.306	-95.255			
952	68	COG (ft):	X: 0	Y: 4.672	Z: 0			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
953	69	N10	-14.794	235.338	-25.623	-0.105	-0.001	0.055
954	69	N5	-7.091	112.801	-12.281	-0.073	0.002	0.061
955	69	N7	-3.713	59.073	-6.432	-0.032	0	0.016
956	69	N9	-6.154	97.89	-10.658	-0.073	-0.002	0.028
957	69	N12	-14.794	235.338	-25.623	-0.149	-0.002	0.063
958	69	N14	-7.091	112.801	-12.281	-0.025	0.002	0.033
959	69	N16	-3.713	59.073	-6.432	-0.025	0.001	0.02
960	69	N18	-6.154	97.89	-10.658	-0.036	0.003	0.049
961	69	N20	-14.794	235.338	-25.623	-0.12	0.003	0.098
962	69	N22	-7.091	112.801	-12.281	-0.073	-0.004	0.005
963	69	N25	-3.713	59.073	-6.432	-0.025	0	0.011
964	69	N27	-6.154	97.89	-10.658	-0.036	-0.002	0.007
965	69	Totals:	-95.255	1515.306	-164.981			
966	69	COG (ft):	X: 0	Y: 4.672	Z: 0			
967	70	N10	0	235.338	-29.588	-0.124	-0.002	-0.017
968	70	N5	0	112.801	-14.182	-0.082	0.003	0.028
969	70	N7	0	59.073	-7.427	-0.037	0	0
970	70	N9	0	97.89	-12.307	-0.081	0	0
971	70	N12	0	235.338	-29.588	-0.168	-0.001	-0.009
972	70	N14	0	112.801	-14.182	-0.034	0	0
973	70	N16	0	59.073	-7.427	-0.029	0.001	0.004
974	70	N18	0	97.89	-12.307	-0.044	0.003	0.021
975	70	N20	0	235.338	-29.588	-0.14	0.003	0.026
976	70	N22	0	112.801	-14.182	-0.082	-0.003	-0.028
977	70	N25	0	59.073	-7.427	-0.029	-0.001	-0.004
978	70	N27	0	97.89	-12.307	-0.044	-0.003	-0.021
979	70	Totals:	0	1515.306	-190.509			
980	70	COG (ft):	X: 0	Y: 4.672	Z: 0			
981	71	N10	14.794	235.338	-25.623	-0.105	-0.003	-0.089
982	71	N5	7.091	112.801	-12.281	-0.073	0.004	-0.005
983	71	N7	3.713	59.073	-6.432	-0.032	0	-0.016
984	71	N9	6.154	97.89	-10.658	-0.073	0.002	-0.028
985	71	N12	14.794	235.338	-25.623	-0.149	0.001	-0.081
986	71	N14	7.091	112.801	-12.281	-0.025	-0.002	-0.033
987	71	N16	3.713	59.073	-6.432	-0.025	0	-0.011
988	71	N18	6.154	97.89	-10.658	-0.036	0.002	-0.007
989	71	N20	14.794	235.338	-25.623	-0.12	0.002	-0.047
990	71	N22	7.091	112.801	-12.281	-0.073	-0.002	-0.061
991	71	N25	3.713	59.073	-6.432	-0.025	-0.001	-0.02
992	71	N27	6.154	97.89	-10.658	-0.036	-0.003	-0.049
993	71	Totals:	95.255	1515.306	-164.981			
994	71	COG (ft):	X: 0	Y: 4.672	Z: 0			
995	72	N10	25.623	235.338	-14.794	-0.052	-0.003	-0.141
996	72	N5	12.281	112.801	-7.091	-0.049	0.003	-0.029
997	72	N7	6.432	59.073	-3.713	-0.021	0.001	-0.027
998	72	N9	10.658	97.89	-6.154	-0.053	0.003	-0.049
999	72	N12	25.623	235.338	-14.794	-0.096	0.002	-0.134
1000	72	N14	12.281	112.801	-7.091	-0.001	-0.003	-0.057
1001	72	N16	6.432	59.073	-3.713	-0.013	0	-0.023
1002	72	N18	10.658	97.89	-6.154	-0.016	0	-0.027
1003	72	N20	25.623	235.338	-14.794	-0.068	0.001	-0.099
1004	72	N22	12.281	112.801	-7.091	-0.049	0	-0.085
1005	72	N25	6.432	59.073	-3.713	-0.013	-0.001	-0.032
1006	72	N27	10.658	97.89	-6.154	-0.016	-0.003	-0.07
1007	72	Totals:	164.981	1515.306	-95.255			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1008	72	COG (ft):	X: 0	Y: 4.672	Z: 0			
1009	73	N10	29.588	235.338	0	0.02	-0.002	-0.161
1010	73	N5	14.182	112.801	0	-0.016	0.002	-0.038
1011	73	N7	7.427	59.073	0	-0.005	0.001	-0.031
1012	73	N9	12.307	97.89	0	-0.025	0.003	-0.056
1013	73	N12	29.588	235.338	0	-0.024	0.003	-0.153
1014	73	N14	14.182	112.801	0	0.032	-0.004	-0.066
1015	73	N16	7.427	59.073	0	0.003	0	-0.027
1016	73	N18	12.307	97.89	0	0.012	-0.002	-0.035
1017	73	N20	29.588	235.338	0	0.004	-0.001	-0.119
1018	73	N22	14.182	112.801	0	-0.016	0.002	-0.094
1019	73	N25	7.427	59.073	0	0.003	0	-0.036
1020	73	N27	12.307	97.89	0	0.012	-0.002	-0.078
1021	73	Totals:	190.509	1515.306	0			
1022	73	COG (ft):	X: 0	Y: 4.672	Z: 0			
1023	74	N10	25.623	235.338	14.794	0.092	-0.001	-0.141
1024	74	N5	12.281	112.801	7.091	0.017	0	-0.029
1025	74	N7	6.432	59.073	3.713	0.011	0.001	-0.027
1026	74	N9	10.658	97.89	6.154	0.004	0.003	-0.049
1027	74	N12	25.623	235.338	14.794	0.048	0.003	-0.134
1028	74	N14	12.281	112.801	7.091	0.065	-0.003	-0.057
1029	74	N16	6.432	59.073	3.713	0.018	-0.001	-0.023
1030	74	N18	10.658	97.89	6.154	0.04	-0.003	-0.027
1031	74	N20	25.623	235.338	14.794	0.076	-0.002	-0.099
1032	74	N22	12.281	112.801	7.091	0.017	0.003	-0.085
1033	74	N25	6.432	59.073	3.713	0.018	0	-0.032
1034	74	N27	10.658	97.89	6.154	0.04	0	-0.07
1035	74	Totals:	164.981	1515.306	95.255			
1036	74	COG (ft):	X: 0	Y: 4.672	Z: 0			
1037	75	N10	14.794	235.338	25.623	0.145	0.001	-0.089
1038	75	N5	7.091	112.801	12.281	0.041	-0.002	-0.005
1039	75	N7	3.713	59.073	6.432	0.022	0	-0.016
1040	75	N9	6.154	97.89	10.658	0.024	0.002	-0.028
1041	75	N12	14.794	235.338	25.623	0.1	0.002	-0.081
1042	75	N14	7.091	112.801	12.281	0.089	-0.002	-0.033
1043	75	N16	3.713	59.073	6.432	0.03	-0.001	-0.011
1044	75	N18	6.154	97.89	10.658	0.061	-0.003	-0.007
1045	75	N20	14.794	235.338	25.623	0.129	-0.003	-0.047
1046	75	N22	7.091	112.801	12.281	0.041	0.004	-0.061
1047	75	N25	3.713	59.073	6.432	0.03	0	-0.02
1048	75	N27	6.154	97.89	10.658	0.061	0.002	-0.049
1049	75	Totals:	95.255	1515.306	164.981			
1050	75	COG (ft):	X: 0	Y: 4.672	Z: 0			

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

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
1	MP2B	PIPE	3.0	0.035	8.083	63	0.002	8.083	60	45959.593	65205	5.749	5.749	1	H1-1b
2	MP1B	PIPE	3.0	0.021	8.083	56	0.002	8.083	53	45959.593	65205	5.749	5.749	1	H1-1b
3	MP4A	PIPE	3.0	0.008	8.083	58	0.001	8.083	61	45959.593	65205	5.749	5.749	1	H1-1b
4	MP3A	PIPE	3.0	0.018	8.083	58	0.001	8.083	61	45959.593	65205	5.749	5.749	1	H1-1b
5	MP2A	PIPE	3.0	0.035	8.083	59	0.002	8.083	56	45959.593	65205	5.749	5.749	1	H1-1b
6	MP1A	PIPE	3.0	0.021	8.083	52	0.002	8.083	61	45959.593	65205	5.749	5.749	1	H1-1b
7	MP4C	PIPE	3.0	0.008	8.083	54	0.001	8.083	63	45959.593	65205	5.749	5.749	1	H1-1b
8	MP3C	PIPE	3.0	0.018	8.083	54	0.001	8.083	63	45959.593	65205	5.749	5.749	1	H1-1b
9	MP2C	PIPE	3.0	0.035	8.083	55	0.002	8.083	52	45959.593	65205	5.749	5.749	1	H1-1b

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

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
10	MP1C	PIPE	3.0	0.021	8.083	60	0.002	8.083	63	45959.593	65205	5.749	5.749	1	H1-1b
11	MP4B	PIPE	3.0	0.008	8.083	62	0.001	8.083	53	45959.593	65205	5.749	5.749	1	H1-1b
12	MP3B	PIPE	3.0	0.018	8.083	62	0.001	8.083	53	45959.593	65205	5.749	5.749	1	H1-1b

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

Yes

Bolt Orientation

Perpendicular

Bolt Quantity per Reaction:

4

d_x (in) (Delta X of typ. bolt config. sketch) :

7

d_y (in) (Delta Y of typ. bolt config. sketch) :

7

Bolt Type:

A325N

Bolt Diameter (in):

0.5

Required Tensile Strength / bolt (kips):

0.0

Required Shear Strength / bolt (kips):

0.1

Tensile Capacity / bolt (kips):

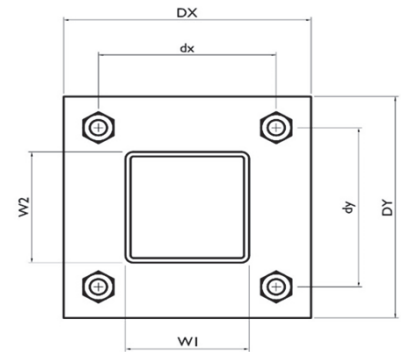
13.3

Shear Capacity / bolt (kips):

8.0

Bolt Overall Utilization:

1.2%



Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:

Pipe

Weld Stiffener Configuration:

No Stiffeners

Plate Width, D_x (in):

10

Plate Height, D_y (in):

10

$W1$ = Diameter (in):

3.5

$W2$ = N/A:

Member Thickness (in):

0.201

Stiffener location a_1 (in):

Stiffener location b_1 (in):

Stiffener location a_2 (in):

Stiffener location b_2 (in):

F_y (ksi, plate):

36

Plate Thickness (in):

0.5

Length of Yield Line, L_y (in):

8.45

Bolt Eccentricity, e (in):

3.20

M_u (kip-in):

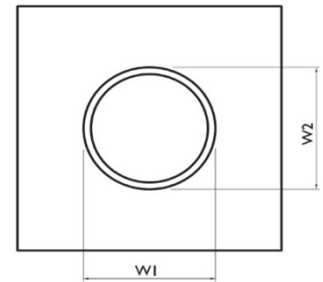
0.06

$\Phi * M_n$ (kip-in):

17.11

Plate Bending Utilization:

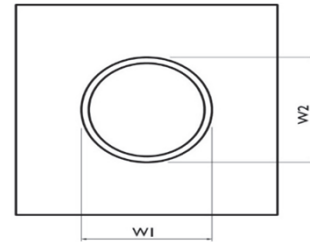
0.4%



Tower Connection Weld Checks

Weld Shape:
Weld Stiffener Configuration:
Weld Size (1/16 in):
W1 = Diameter (in):
W2 = Diameter (in):
Weld Total Length (in):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in):
 c_y (in):
Required combined strength (kip/in):
Weld Capacity (kip/in):
Weld Utilization:

Yes
Circle
None
3
3.5
3.5
11.00
9.62
9.62
33.67
1.951
1.951
0.06
4.18
1.3%



Date: **August 1, 2024**



520 South Main Street Suite 2531
Akron, Ohio 44311
(216) 927-8663

Subject: Structural Opinion Letter

Carrier Designation: Verizon Wireless Co-Locate
Site Number: 5000383847
Site Name: HAMDEN NORTH CT

Crown Castle Designation: BU Number: 800529
Site Name: CT HAMDEN NORTH CAC
JDE Job Number: 2107953
Work Order Number: 2315854
Order Number: 662904 Rev. 0

Engineering Firm Designation: GPD Project Number: 2024777.800529.16

Site Data: 890 Evergreen Avenue, Hamden, CT 06518, New Haven County
Latitude 41° 24' 23.90", Longitude -72° 54' 16.32"
100 Foot – Stealth Self Support Tower

We are pleased to submit this “**Structural Opinion Letter**” to determine the structural integrity of the above mentioned tower.

The purpose of this opinion letter is to determine the suitability of the tower structure to support the proposed equipment configuration listed in Table 1.

Based on a comparison of the previous analysis loads (Dated: 9/16/2022 – WO #: 10580593), with the addition of the proposed equipment, we have determined that the tower structure and foundation are **SUFFICIENT**. The addition of the proposed equipment configuration listed in Table 1 is acceptable.

Respectfully submitted by:

The block contains a handwritten signature in black ink that reads "Christopher J. Scheks". Overlaid on the signature is a circular professional seal for the State of Connecticut. The seal features the text "STATE OF CONNECTICUT" around the top and "PROFESSIONAL ENGINEER" around the bottom. In the center, it says "No. 30026".

Christopher J. Scheks, P.E.
Connecticut #: 0030026

8/1/2024

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
95.0	98.0	3	Samsung Telecommunications	RFV01U-D2A	6 2	1-5/8 1-1/4
	95.0	3	Antel	BXA-80080/4CF		
		6	CommScope	JAHH-65B-R3B		
		3	Samsung Telecommunications	MT6413-77A		
		3	CommScope	CBC78T-DS-43-2X		
		2	RFS/Celwave	DB-T1-6Z-8AB-0Z		
		3	Samsung Telecommunications	RF4439D-25A		

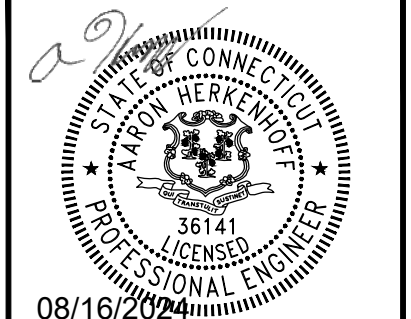


BUSINESS UNIT #: 800529
SITE ADDRESS: 890 EVERGREEN AVENUE
 HAMDEN, CT 06518
COUNTY: NEW HAVEN
JURISDICTION: CT - TOWN OF HAMDEN



EXISTING 100'-1" SILO
TOWER

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	08/16/24	AMM	CONSTRUCTION	AH



SHEET NUMBER: T-1	REVISION: 0
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STRUCTURAL ANALYSIS: GPD
DATED: 08/01/2024
MOUNT ANALYSIS: COLLIER'S ENGINEERING & DESIGN
DATED: 06/19/2024
RFDS REVISION: REV5
DATED: 10/30/2023
ORDER ID: 662904
REVISION: 0

A&E FIRM: POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
(502) 437-5252

CROWN CASTLE 8020 KATY FREEWAY
HOUSTON, TX 77024

CONTACTS: HEATHER MILLER - AES
HEATHER.MILLER@CROWNCastle.COM

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

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- NOTICE TO PROCEED-- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
- "LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
- ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED--STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA--322 (LATEST EDITION).
- ALL SITE WORK TO COMPLY WITH QAS--STD-10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED--STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GREENFIELD GROUNDING NOTES:

- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
- COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRIC METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
- GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAILS AS WELL.)
- BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: VERIZON
TOWER OWNER: CROWN CASTLE USA INC.
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DICTATED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
- NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
- SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
- CONCRETE EXPOSED TO FREEZE--THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT IS TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER--TO--CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER..... 40 ksi
#5 BARS AND LARGER..... 60 ksi
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... 3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER..... 2"
#5 BARS AND SMALLER..... 1-1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS..... 3/4"
BEAMS AND COLUMNS..... 1-1/2"
- A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
 - ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
 - ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE OF THE GOVERNING JURISDICTION.
- EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR--CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI--CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI--CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP--STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT) OR METAL--CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC ON STRAIGHTS AND SCHEDULE 80 PVC UNDER ALL TRAFFIC EASEMENTS AND ALL ELBOWS/90s. ABOVE GRADE CONDUIT TO BE SCH 80 PVC OR IMC/RMC CONDUIT. EMT IS ALLOWED AT STUB UP LOCATIONS AND INDOORS ONLY.
- LIQUID--TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID--TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION--TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOULD SPECIMATE WIREWAY).
- SLOTTED WIRING TUB SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON--PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER--ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY--COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
- METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY--COATED OR NON--CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
277/480V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	YELLOW
	NEUTRAL	GREY
DC VOLTAGE	GROUND	GREEN
	POS (+)	RED**
	NEG (-)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

verizon

CROWN CASTLE

POD
POWER OF DESIGN
11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299
502-437-5252

VERIZON SITE NUMBER:
5000383847

BU #: 800529

CROWN CASTLE SITE NAME
CT HAMDEN NORTH CAC

890 EVERGREEN AVENUE
HAMDEN, CT 06518

EXISTING 100'-1" SILO
TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
0	08/16/24	AMM	CONSTRUCTION	AH



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

SHEET NUMBER:

T-2

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5000383847

BU #: **800529**

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CT HAMDEN NORTH CAC

890 EVERGREEN AVENUE
HAMDEN, CT 06518

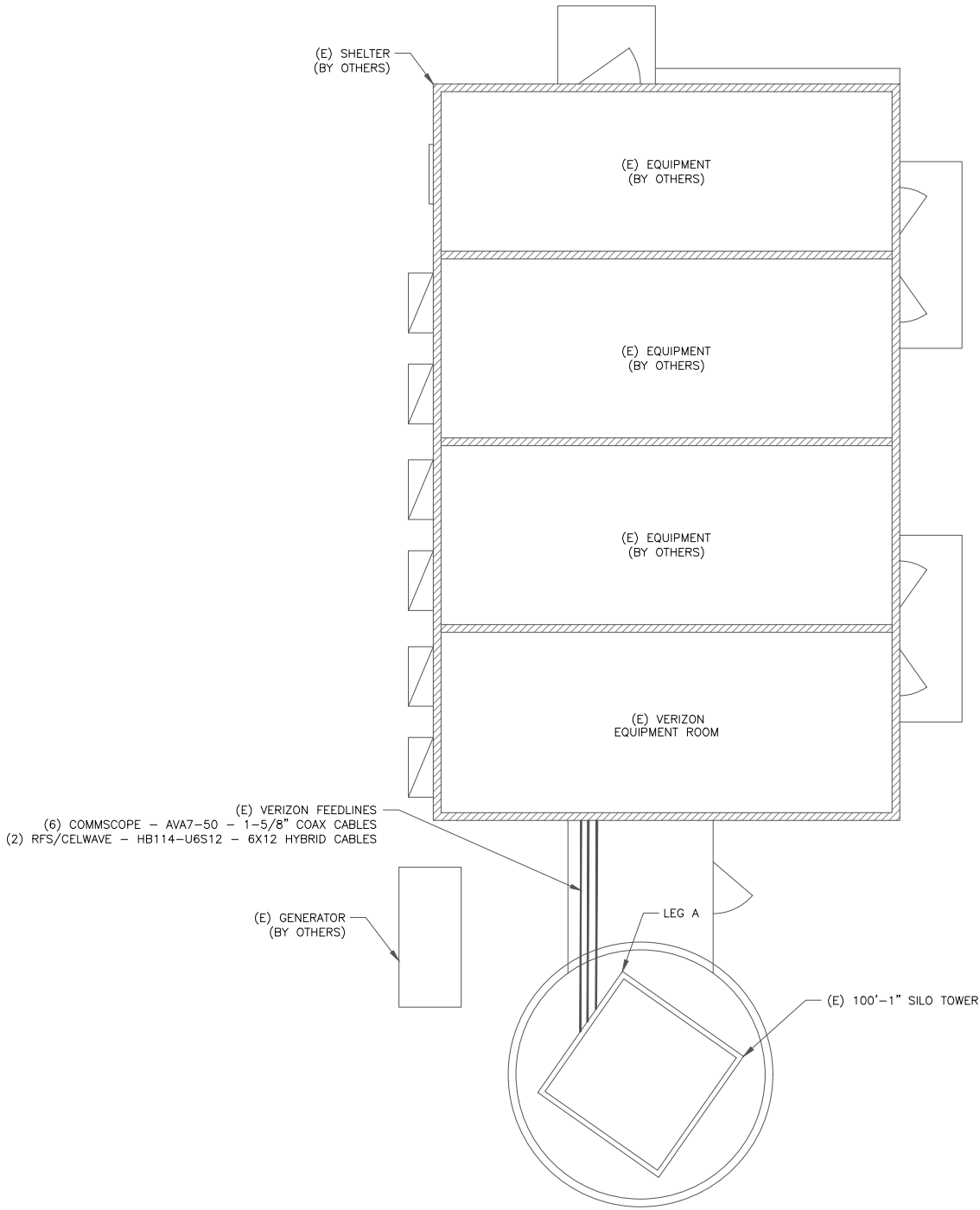
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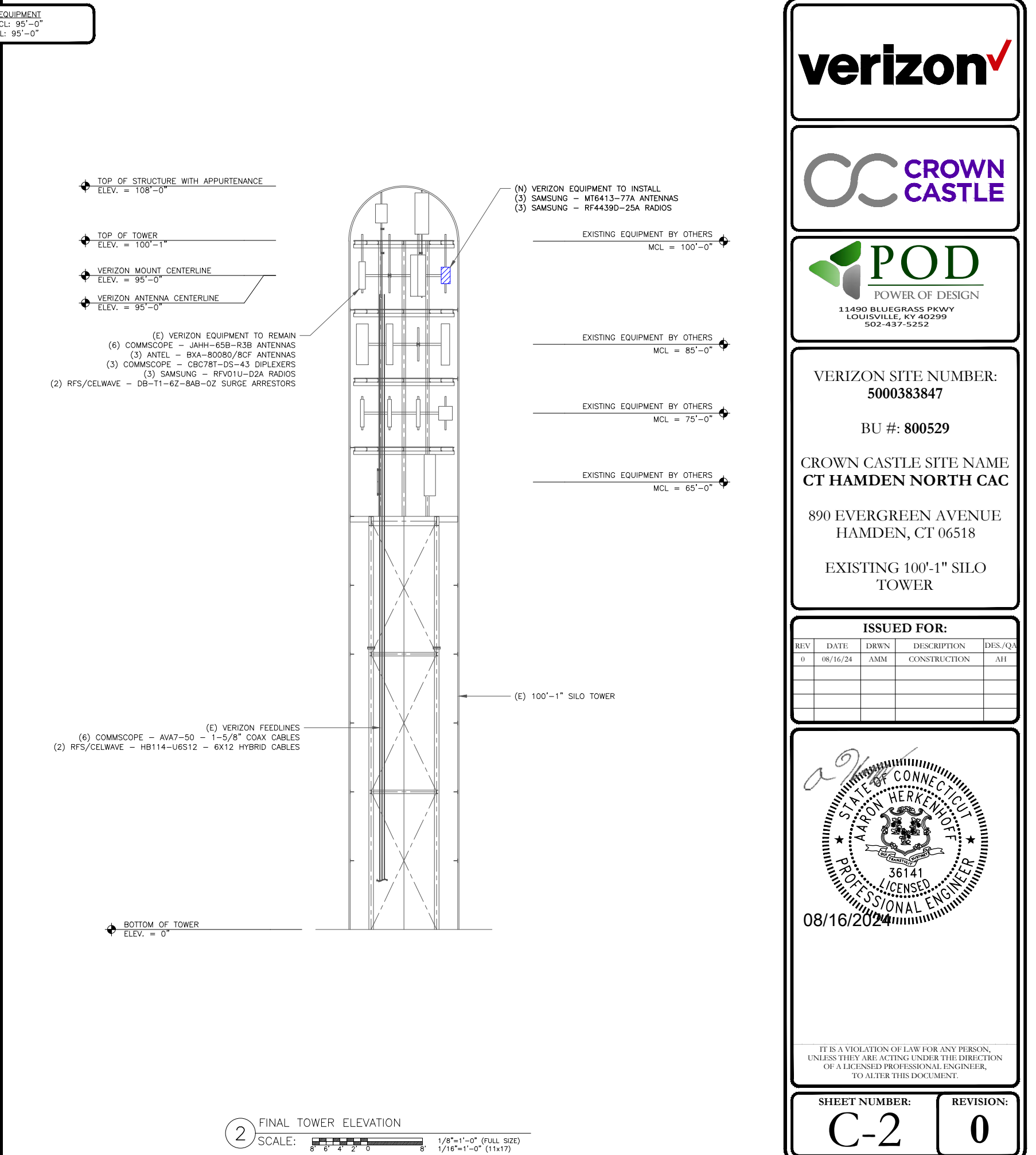
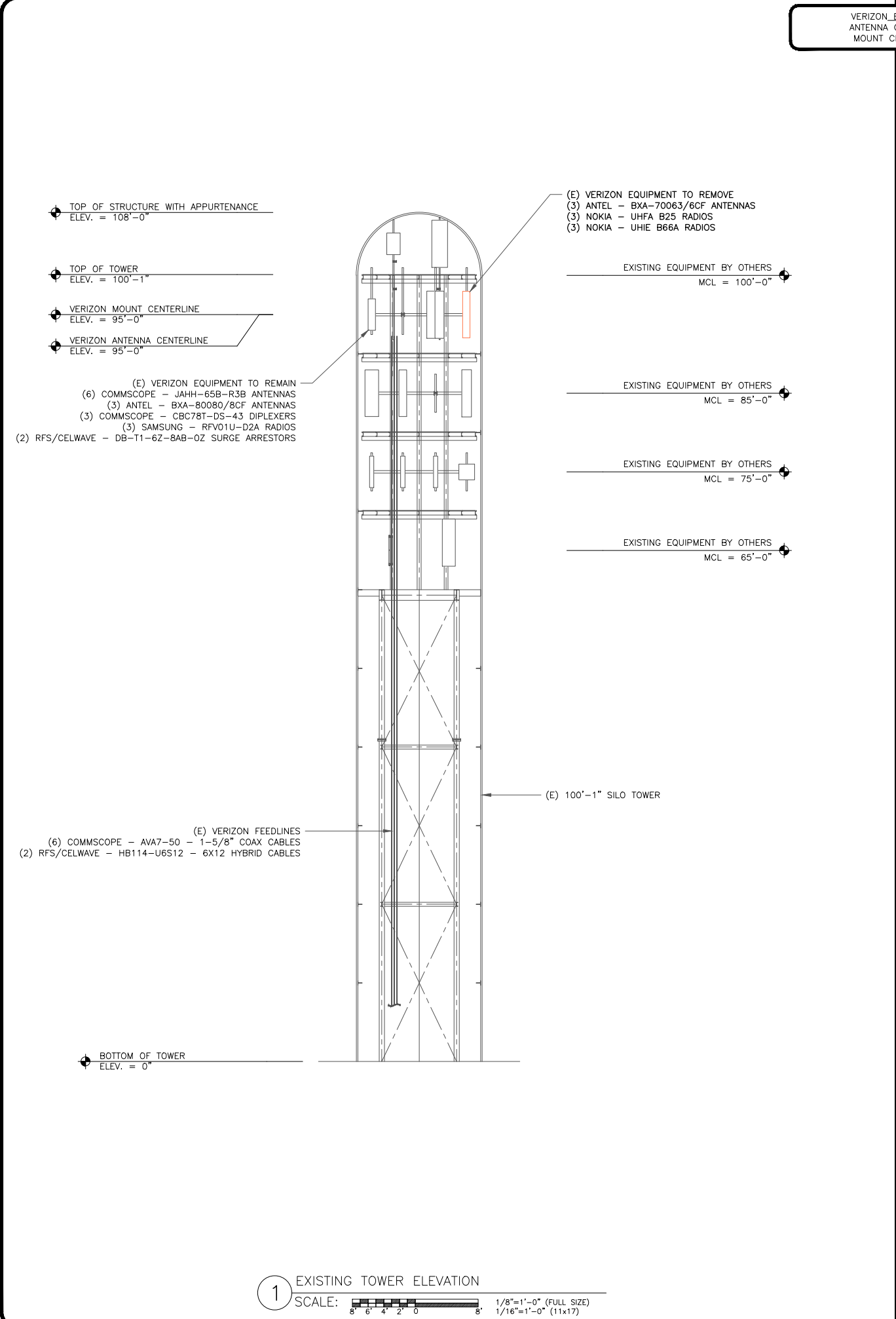
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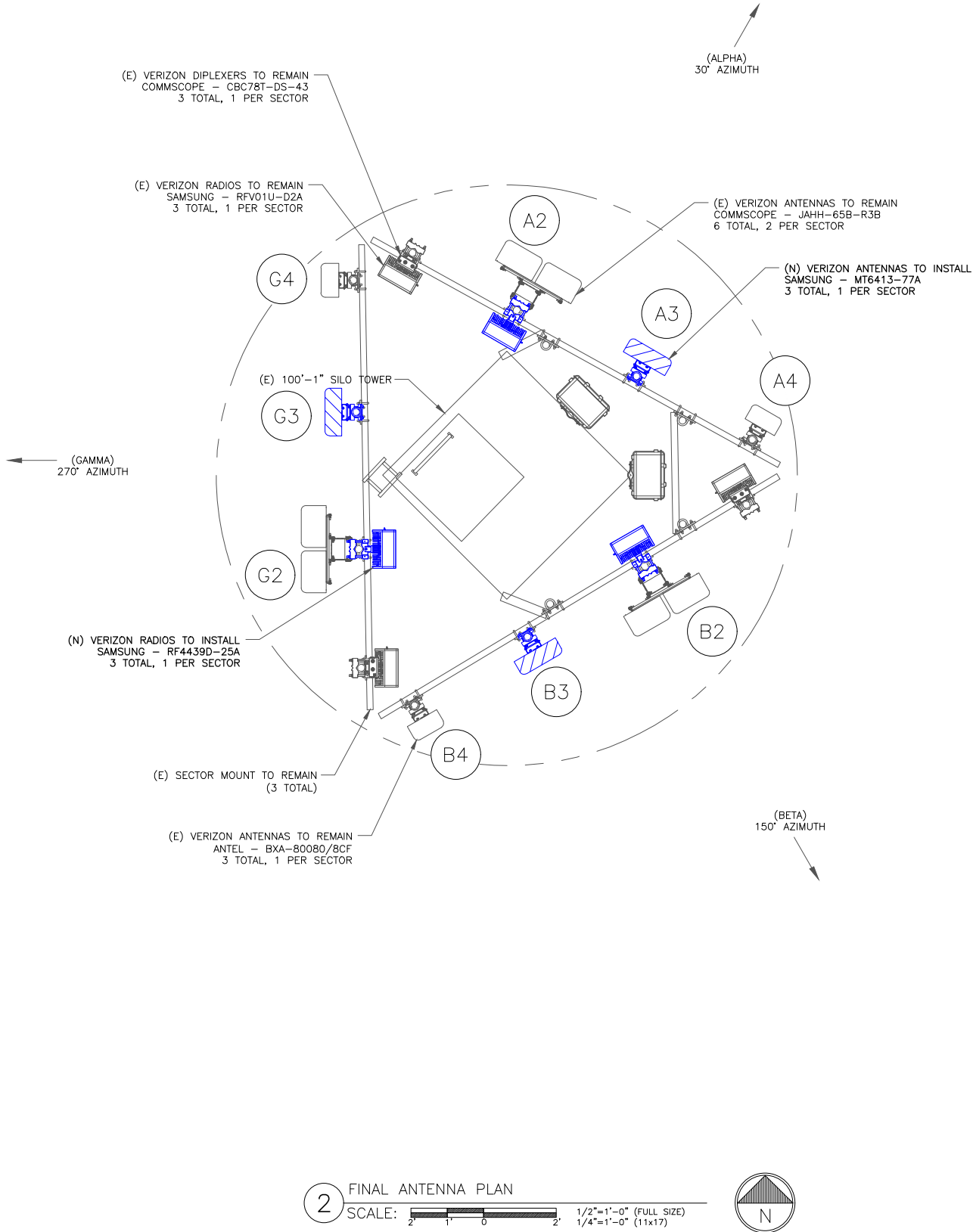
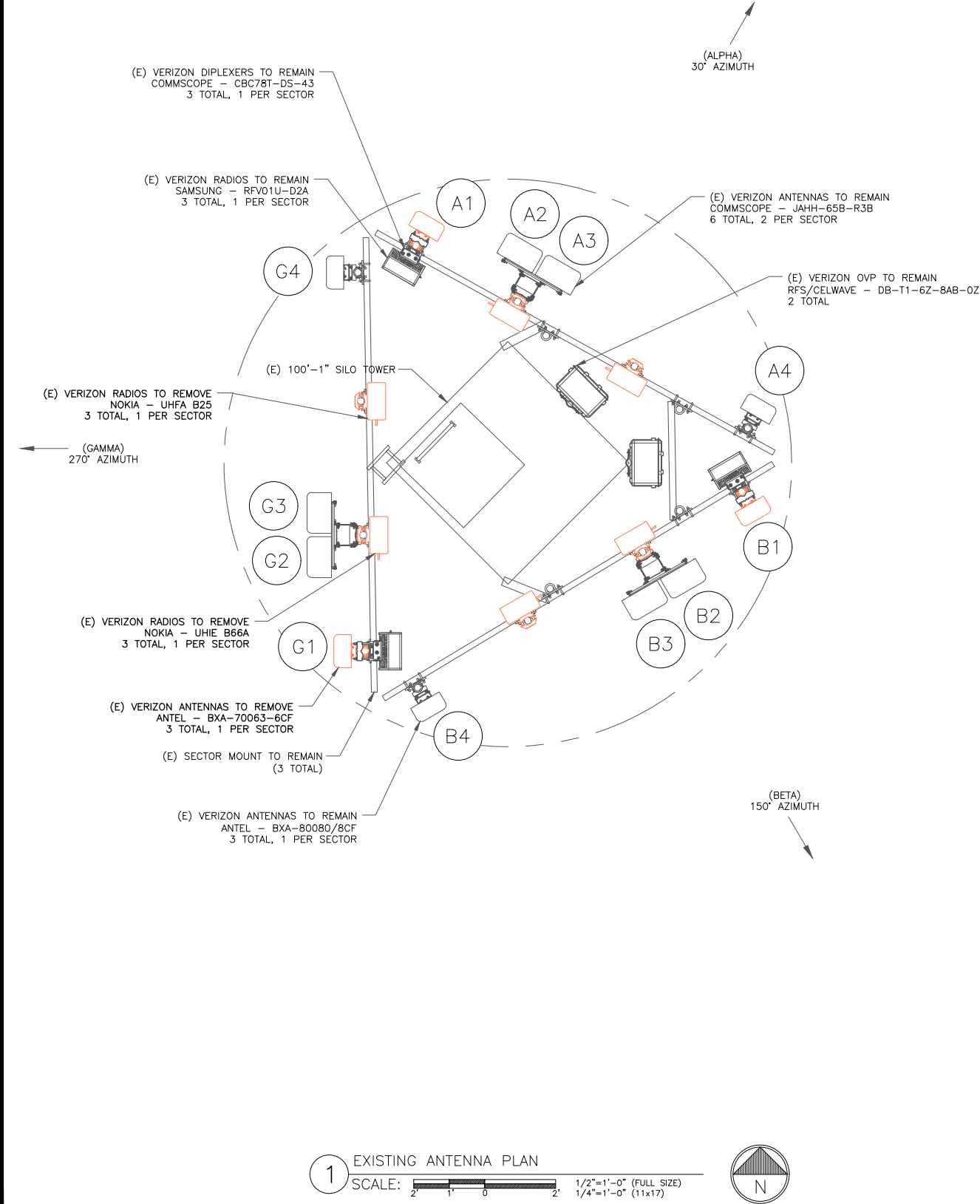
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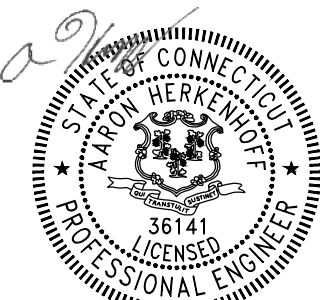
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CT HAMDEN NORTH CAC

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08/16/2024

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FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

POSITION	ANTENNA				RADIO			DIPLEXER			TMA		SURGE PROTECTION		CABLES			
	TECH	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	-	-	-	-	1	(E) RFV01U-D2A	TOWER	1	(E)	TOWER	-	-	2	(E) DB-T1-6Z-8AB-0Z	2	(E) HYBRID	1-1/4"	145'-0"
A2	850 700	(E) ANDREW-COMMSCOPE - JAHH-65B-R3B	30°	95'-0"	1	(N) RF4439D-25A	TOWER	-	-	-	-	-	-	-	-	-	-	-
		(E) ANDREW-COMMSCOPE - JAHH-65B-R3B	30°	95'-0"														
A3	-	(N) SAMSUNG - MT6413-77A	30°	95'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A4	-	(E) AMPHENOL ANTEL - BXA-80080/8CF	30°	95'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B1	-	-	-	-	1	(E) RFV01U-D2A	TOWER	1	(E)	TOWER	-	-	-	-	-	-	-	-
B2	850 700	(E) ANDREW-COMMSCOPE - JAHH-65B-R3B	150°	95'-0"	1	(N) RF4439D-25A	TOWER	-	-	-	-	-	-	-	-	-	-	-
		(E) ANDREW-COMMSCOPE - JAHH-65B-R3B	150°	95'-0"														
B3	-	(N) SAMSUNG - MT6413-77A	150°	95'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B4	-	(E) AMPHENOL ANTEL - BXA-80080/8CF	150°	95'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G1	-	-	-	-	1	(E) RFV01U-D2A	TOWER	1	(E)	TOWER	-	-	-	-	-	-	-	-
G2	850 700	(E) ANDREW-COMMSCOPE - JAHH-65B-R3B	270°	95'-0"	1	(N) RF4439D-25A	TOWER	-	-	-	-	-	-	-	-	-	-	-
		(E) ANDREW-COMMSCOPE - JAHH-65B-R3B	270°	95'-0"														
G3	-	(N) SAMSUNG - MT6413-77A	270°	95'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G4	-	(E) AMPHENOL ANTEL - BXA-80080/8CF	270°	95'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNUSED FEEDLINES

6	COAX	1-5/8"	145'-0"
-	-	-	-

1 FINAL EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE



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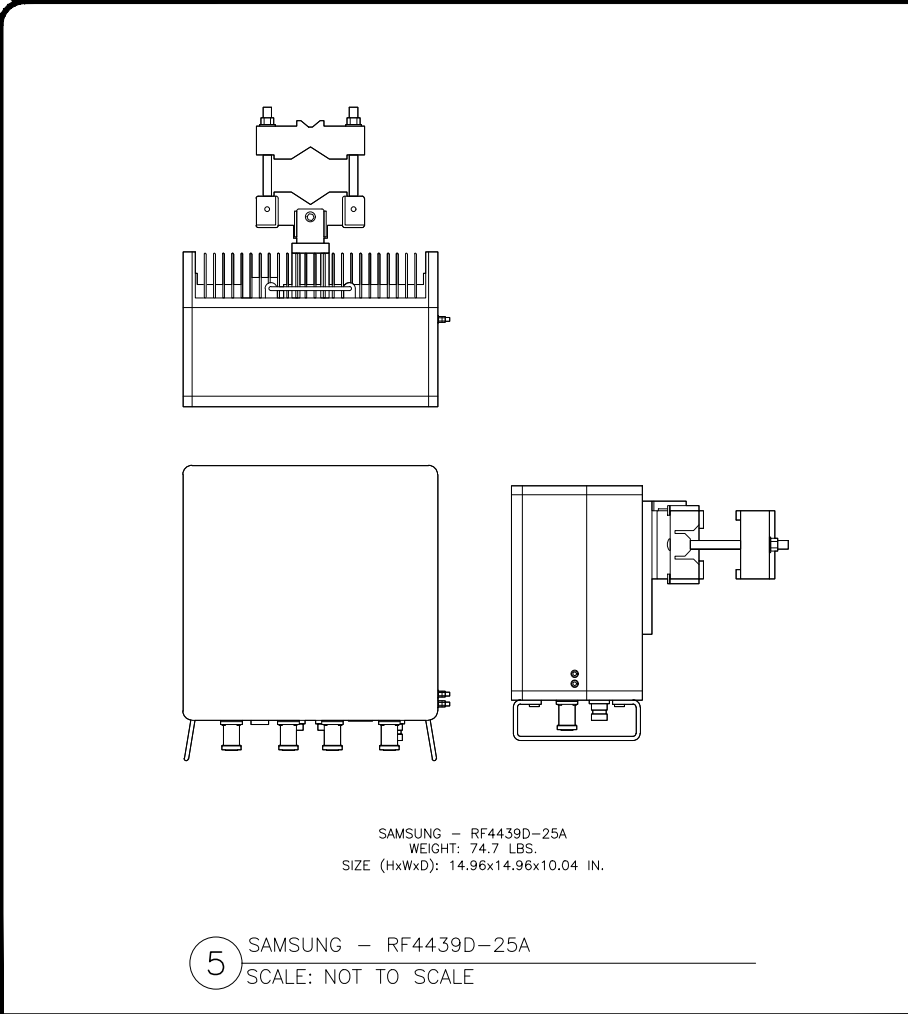
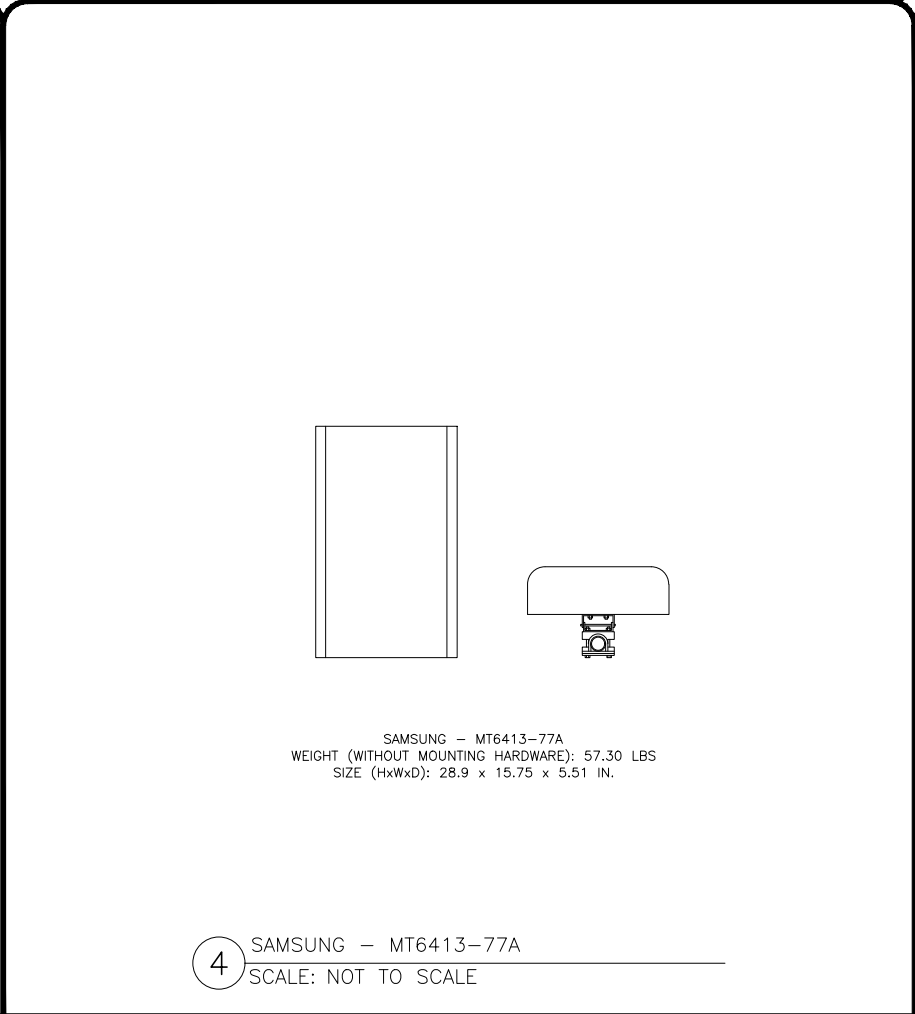
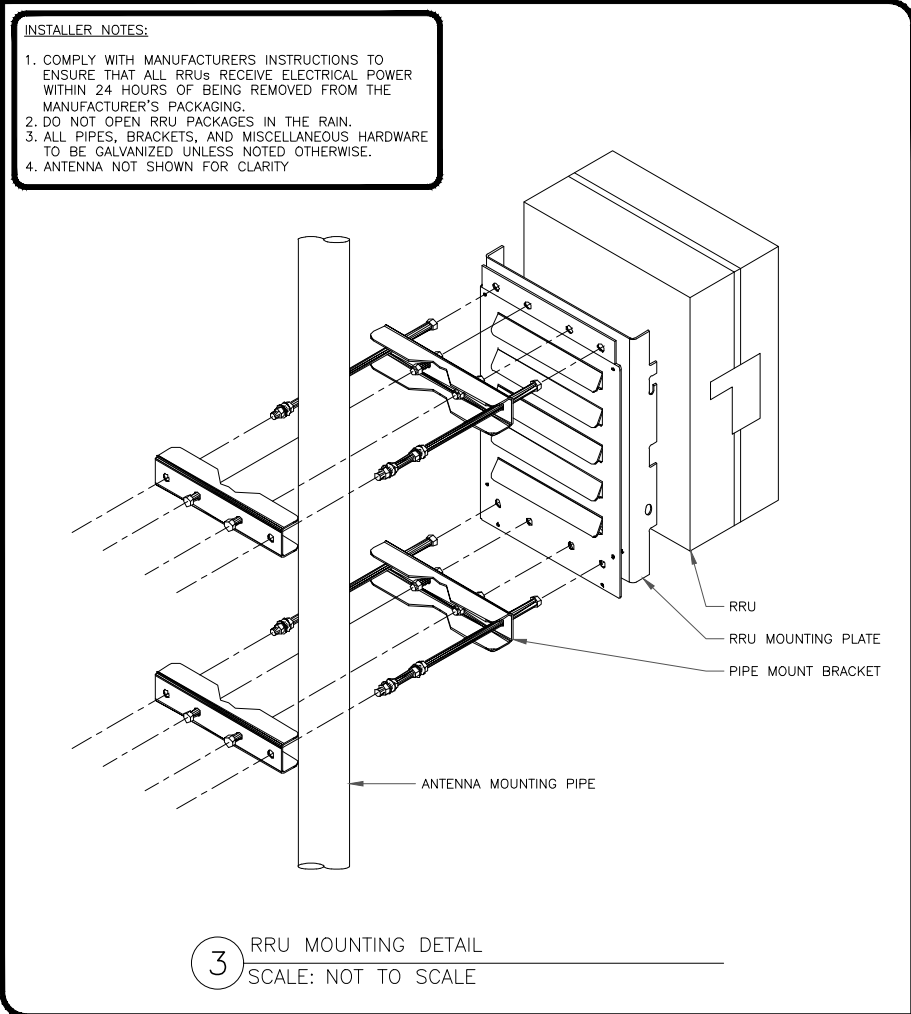
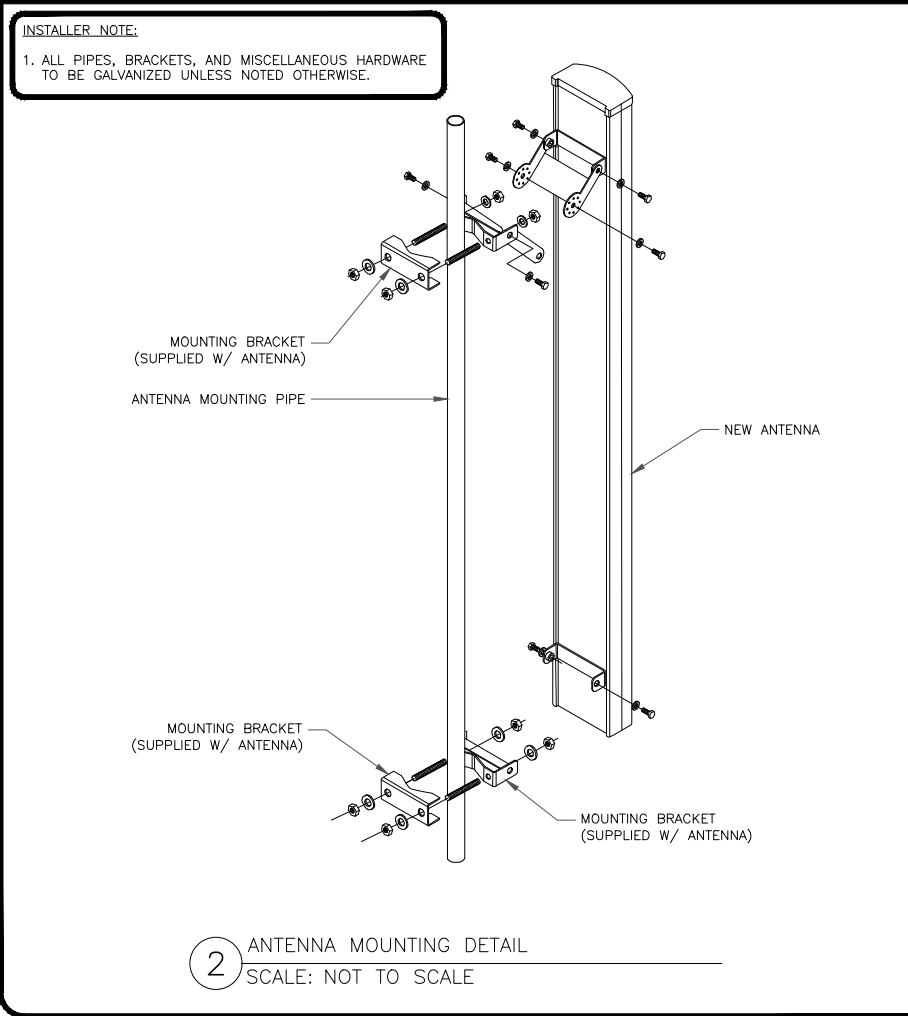
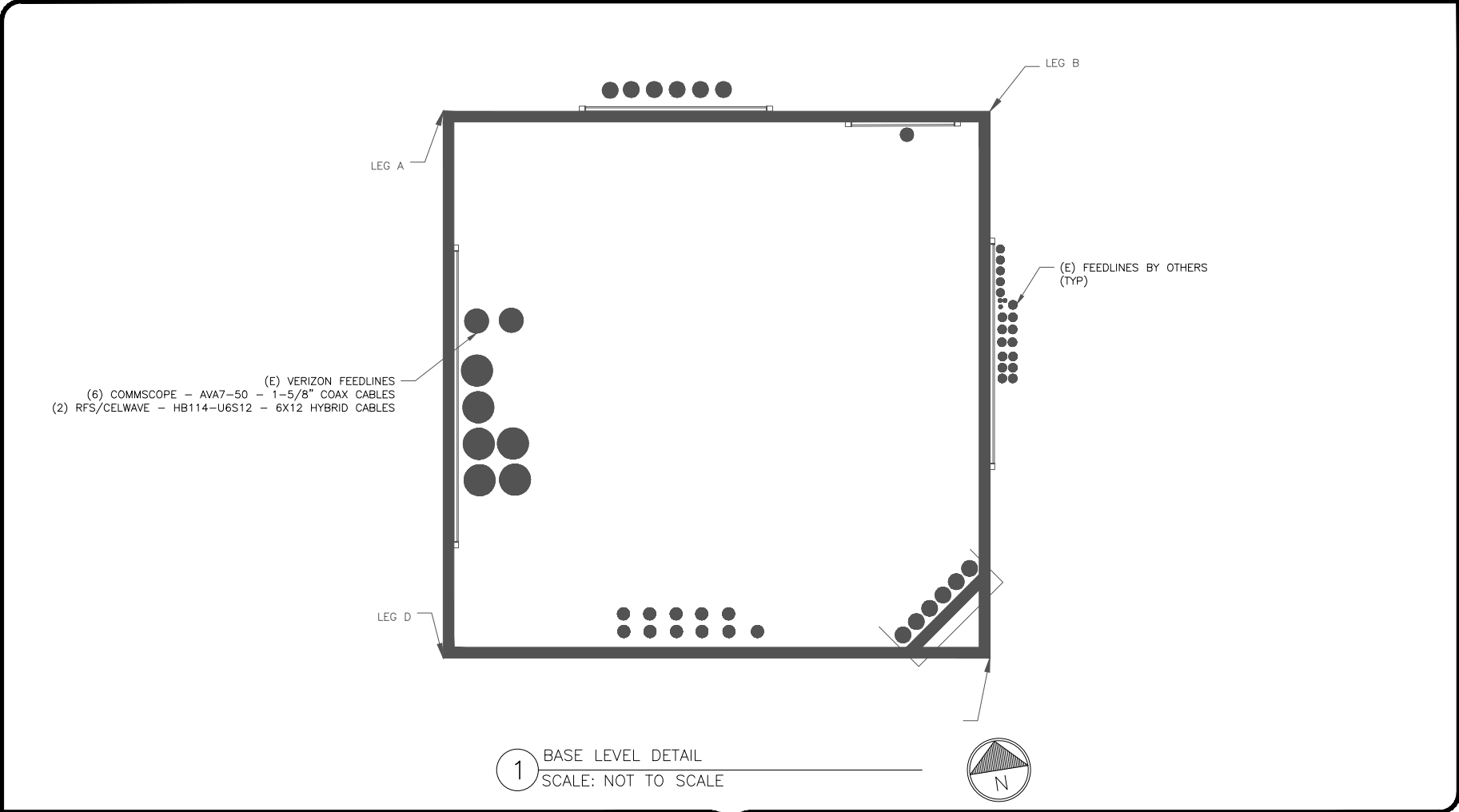
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11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299
502-437-5252

VERIZON SITE NUMBER:
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BU #: **800529**

CROWN CASTLE SITE NAME
CT HAMDEN NORTH CAC

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VERIZON SITE NUMBER:
5000383847

BU #: 800529

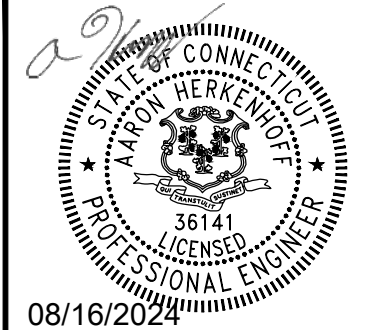
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HAMDEN, CT 06518

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ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
0	08/16/24	AMM	CONSTRUCTION	AH



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

SHEET NUMBER:

C-6

REVISION:

0

COLOR CODE MATRIX

Azimuth (1) Alpha					
Cell (850 CDMA)	Red				
PCS2 (1900 LTE)	Pink	Red	Pink		
700 LTE	Lt. Green	Red	Lt. Green		
850 LTE	Purple	Red	Purple		
2100 LTE	Orange	Red	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Red	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Red	Lt. Green	Purple
5G	Brown	Red	Brown		
LAA	Gray	Red	Gray		
CBRS	White	Red	White		

Azimuth (2) Beta					
Cell (850 CDMA)	Blue				
PCS2 (1900 LTE)	Pink	Blue	Pink		
700 LTE	Lt. Green	Blue	Lt. Green		
850 LTE	Purple	Blue	Purple		
2100 LTE	Orange	Blue	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Blue	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Blue	Lt. Green	Purple
5G	Brown	Blue	Brown		
LAA	Gray	Blue	Gray		
CBRS	White	Blue	White		

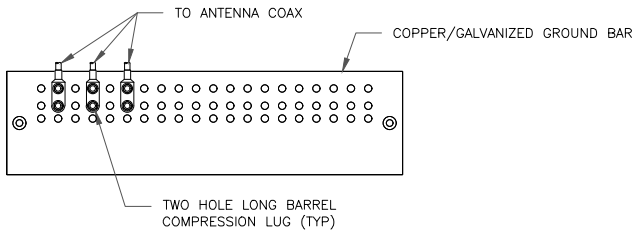
Azimuth (3) Gamma					
Cell (850 CDMA)	Yellow				
PCS2 (1900 LTE)	Pink	Yellow	Pink		
700 LTE	Lt. Green	Yellow	Lt. Green		
850 LTE	Purple	Yellow	Purple		
2100 LTE	Orange	Yellow	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Yellow	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Yellow	Lt. Green	Purple
5G	Brown	Yellow	Brown		
LAA	Gray	Yellow	Gray		
CBRS	White	Yellow	White		

COLOR CODE MATRIX

Azimuth (4) Delta					
Cell (850 CDMA)	Orange				
PCS2 (1900 LTE)	Pink	Orange	Pink		
700 LTE	Lt. Green	Orange	Lt. Green		
850 LTE	Purple	Orange	Purple		
2100 LTE	Orange	Orange	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Orange	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Orange	Lt. Green	Purple
5G	Brown	Orange	Brown		
LAA	Gray	Orange	Gray		
CBRS	White	Orange	White		

Azimuth (5) Epsilon					
Cell (850 CDMA)	White				
PCS2 (1900 LTE)	Pink	White	Pink		
700 LTE	Lt. Green	White	Lt. Green		
850 LTE	Purple	White	Purple		
2100 LTE	Orange	White	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	White	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	White	Lt. Green	Purple
5G	Brown	White	Brown		
LAA	Gray	White	Gray		
CBRS	White	White	White		

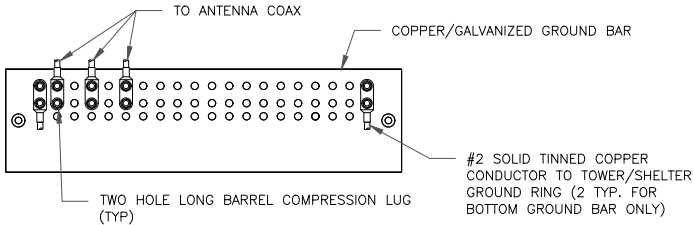
Azimuth (6) Zeta					
Cell (850 CDMA)	Gray				
PCS2 (1900 LTE)	Pink	Gray	Pink		
700 LTE	Lt. Green	Gray	Lt. Green		
850 LTE	Purple	Gray	Purple		
2100 LTE	Orange	Gray	Orange		
High Band Dual Band (Shared Lines)	Orange	Pink	Gray	Pink	Orange
Low Band Dual Band (Shared Lines)	Purple	Lt. Green	Gray	Lt. Green	Purple
5G	Brown	Gray	Brown		
LAA	Gray	Gray	Gray		
CBRS	White	Gray	White		



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

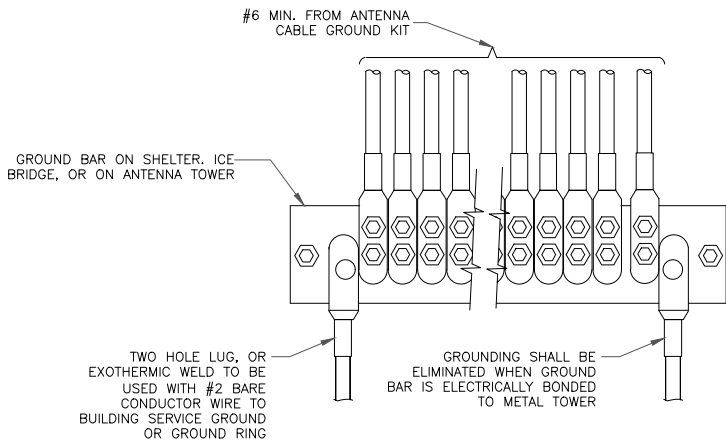
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



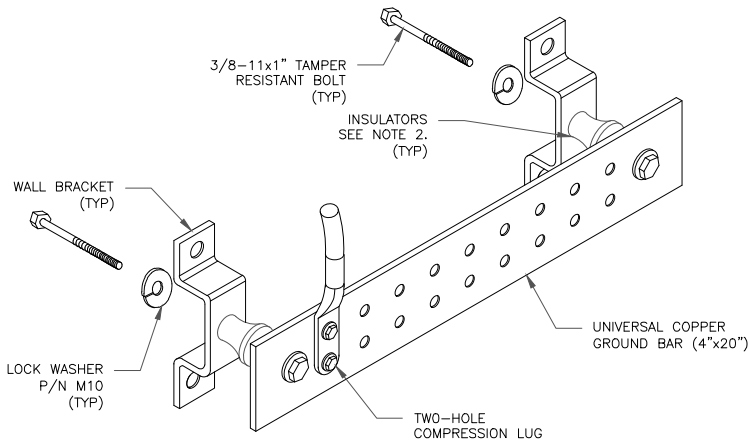
NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

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



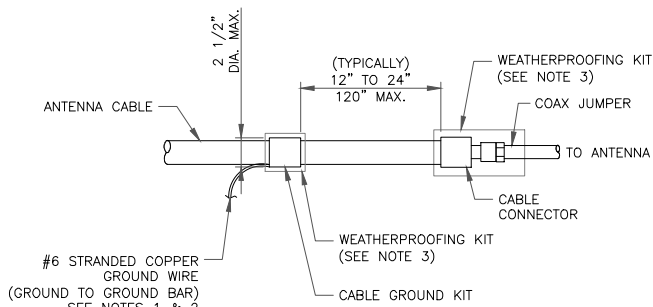
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



NOTES:

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

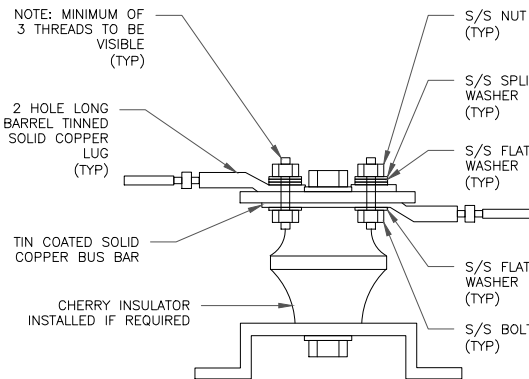
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

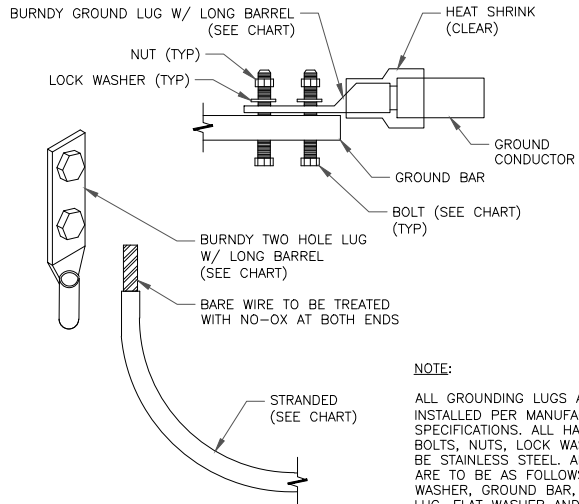
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

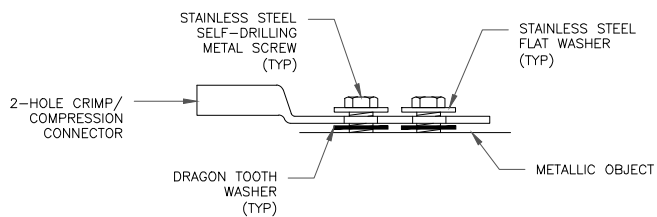
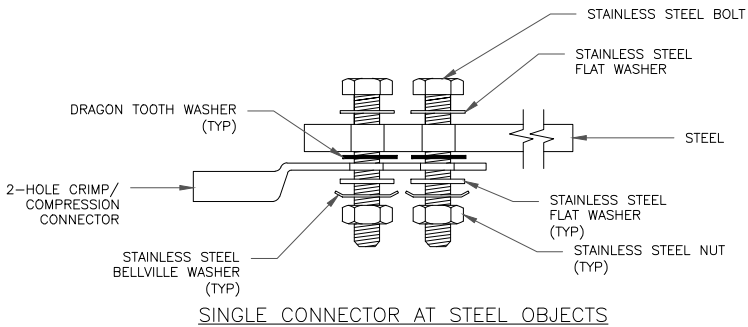
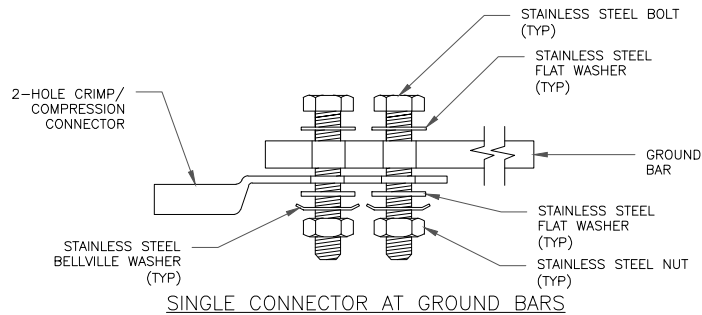
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



NOTE:

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

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE

verizon

CROWN CASTLE

POD
POWER OF DESIGN
11490 BLUEGRASS PKWY
LOUISVILLE, KY 40299
502-437-5252

VERIZON SITE NUMBER:
5000383847

BU #: 800529

CROWN CASTLE SITE NAME
CT HAMDEN NORTH CAC

890 EVERGREEN AVENUE
HAMDEN, CT 06518

EXISTING 100'-1" SILO
TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
0	08/16/24	AMM	CONSTRUCTION	AH



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SHEET NUMBER:

G-1

REVISION:

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