PYRAMID
Network Services, LLC

March 19, 2024

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

RE: Notice of Exempt Modification // Site: CT Collinsville CAC 802816 CT (ATC: 411259)
650 Albany Turnpike Collinsville, CT 06022
41° 51' 2.117" N // 72° 56' 55.481" W

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 121-ft level on the existing 120-ft Monopole Tower, located at 650 Albany Turnpike Collinsville, CT. The tower is owned by American Tower. The property is also owned by Perry Lansford W. The Council approved Verizon Wireless use of the existing tower in 2002. Verizon Wireless now intends to remove 6 antennas and install 9 new antennas for this upgrade. Additionally, Verizon Wireless will remove (12) 1-5/8" Coax Cables, install mount modifications, (6) Remote radio heads (RRHs), (2) OVPs, (3) SBS Mounts, and (2) 6x12 Hybrid Cables; altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

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 First Selectman, Kevin Witkos, Director of Planning and Community Development, Neil Pade, American Tower, the tower owner, and Perry Lansford W., the property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated March 8, 2024, by American Tower Engineering Services, a structural analysis dated February 15, 2024, by American Tower Engineering Services, and a structural mount analysis by Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C dated January 10, 2024, and radio frequency (RF) analysis table showing worst-case RF emission calculation by Tower Engineering Professionals.

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

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

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

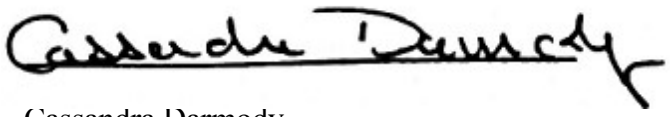
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis dated February 15, 2024, by American Tower Engineering Services, and a structural mount analysis by Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C dated January 10, 2024, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated March 8, 2024.

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

Sincerely,



Cassandra Darmody
Agent for American Tower
c/o Pyramid Network Services, LLC
6615 Towpath Road
East Syracuse, NY 13057
Cell (315) 569-9241
Fax (315) 445-0653

Attachments
cc: Kevin Witkos, First Selectman – Chief Elected Official
Neil Pade, AICP, Director of Planning and Community Development- as P&Z official
American Tower Corporation - as tower owner
Perry Lansford W - as property owner

Connecticut Siting Council(/CSC)

Decisions (/CSC/Decisions/Decisions)

Meetings and Minutes (/CSC/Common-Elements/v4-template/Council-Activity)

Pending Matters (/CSC/1_Applications-and-Other-Pending-Matters/Pending-Matters)

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DOCKET NO. 204 - Crown Atlantic Company LLC and Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a cellular telecommunications facility located at 650 Albany Turnpike (Route 44), Canton; or at 21 Indian Hill Road, Canton, Connecticut.	} } }	Connecticut Siting Council February 14, 2002

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 at the proposed prime site in Canton, 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 Crown Atlantic Company LLC and Cellco Partnership d/b/a Verizon Wireless for the construction, maintenance, and operation of a cellular telecommunications facility located at 650 Albany Turnpike (Route 44), in Canton, Connecticut. We deny certification of the proposed alternate site at 21 Indian Hill Road, in Canton, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Cellco and at least three other telecommunications entities, both public and private, but such tower shall not exceed a height of 110 feet above ground level (AGL), including appurtenances. The tower and foundation may be designed and constructed capable of being extended from 110 feet AGL to 150 feet AGL, with such extension subject to Council approval by petition for a declaratory ruling, pursuant to Sections 16-50j-38 through 16-50j-40 of the Regulations of Connecticut State Agencies.

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 tower foundation, equipment building, antennas, emergency generator and fuel tank, security fence, access road, and utility line; construction plans for site clearing, tree trimming, water drainage, and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; provisions for landscaping, a tower finish that may include painting, and for the prevention and containment of spills and/or other discharge into surface water and groundwater bodies.

3. The Certificate Holder shall, prior to the commencement of operation, provide the Council with worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall provide a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

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 wireless 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 antennas become obsolete and cease 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 and the Bristol Press (Farmington Valley Herald).

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

The parties to this proceeding are:

Applicant
Crown Atlantic Company LLC
and Cellco Partnership d/b/a
Verizon Wireless

Its Representative
Robert Stanford, Project Manager
Crown Atlantic Company LLC
703 Hebron Avenue
Glastonbury, CT 06033
Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

Party
Heather and Miles Loewe
15 Indian Hill Road
Collinsville, CT 06022

Party
Nancy Johnson
3 Buttonwood Hill Road
Canton, CT 06019

Party
Connecticut Sand & Stone Corporation

Its Representative
Joseph P. Derby
7 West Main Street
Plainville, CT 06062

Party	Its Representative
Town of Canton	Matthew Ranelli, Esq. Shipman & Goodwin LLP One American Row Hartford, CT 06103-2819

Colliers Engineering & Design, Architecture,
Landscape Architecture, Surveying, CT P.C.
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10218124
Colliers Engineering & Design Project #: 21777759 (Rev.1)

January 8, 2024

Site Information	*Site ID:*	*5000382696-VZW / COLLINSVILLE CT*
	Site Name:	*COLLINSVILLE CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*650 Albany Turnpike* *Collinsville, Connecticut 06022* *Hartford County*
	Latitude:	*41.850564°*
	Longitude:	*-72.948725°*
Structure Information	*Tower Type:*	*120-Ft Self Support*
	Mount Type:	*13.08-Ft Platform*

FUZE ID # 16271924

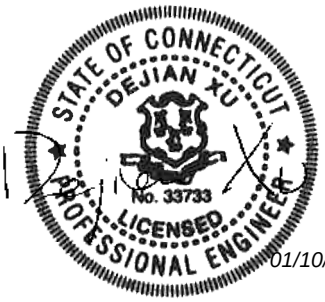
Analysis Results

Platform: **86.2% Pass w/ Hardware Upgrades***

*** 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: Selene Chen



01/10/2024

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: 323617, dated September 21, 2023*
Mount Mapping Report	*Structural Components, Site ID: 21777759, dated April 13, 2021*

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:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.982
Seismic Parameters:	S_S:	0.177 g
	S_1:	0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Load, Lv:	250 lbs.
	Maintenance Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
118.50	120.00	6	Commscope	NHH-65B-R2B	Added
		2	Raycap	DB-B1-6C-12AB-0Z	
		3	Samsung	MT6413-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	
		4	Antel	LPA-80080/6CF	Retained
		2	Antel	LPA-80063/6CF	

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
Face Horizontal	*68.2 %*	*Pass*
Standoff Horizontal	*79.0 %*	*Pass*
Antenna Pipe	*56.8 %*	*Pass*
OVP Pipe	*12.5 %*	*Pass*
Connection Check	*86.2 %*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**86.2%**

***** Results valid after hardware upgrades noted in the PMI Requirements are installed.

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)
Sector C Standoff	118.5	N12	1394	3356	5.786	1.593	3324	977	12.469	0.465
Sector B Standoff	118.5	N76B	915	1946	4.704	0.993	2264	508	10.274	0.318
Sector A Standoff	118.5	N79	1400	2259	5.664	1.381	3426	710	11.645	0.430

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

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	14.2	14.2	33.6	33.6
0.5	18.0	18.0	45.5	45.5
1	21.7	21.7	57.4	57.4

Notes:
- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor shall install a new 42” long PIPE 2 SCH 40 OVP pipe between Alpha and Beta, Beta and Gamma sector standoff horizontals.

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

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MDG #: 5000382696 SMART Project #: 10218124 Fuze Project ID: 16271924

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:

Contractor shall install a new 42” long PIPE 2 SCH 40 OVP pipe between Alpha and Beta, Beta and Gamma sector standoff horizontals.

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

Certifying Individual:

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

Structure: 5000382696-VZW - COLLINSVILLE CT

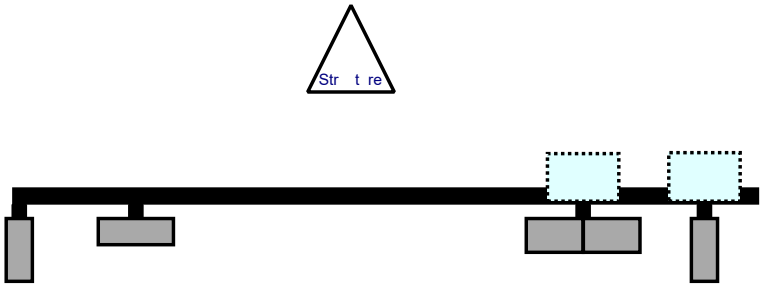
Se tor: **A** 1/8/2024

Str t re Type: Sel S pport 10218124

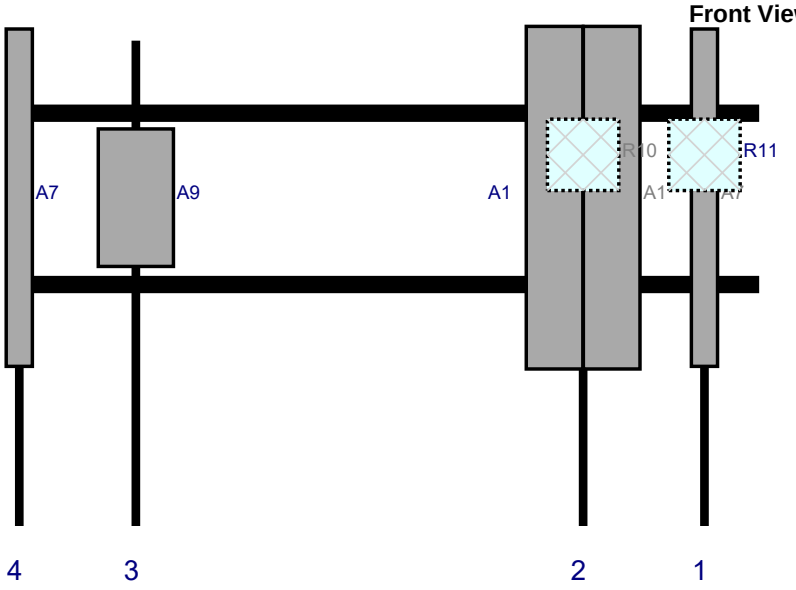
Mo t Elev: 118.50 P ge: 1

Colliers Engineering & Design

Plan View

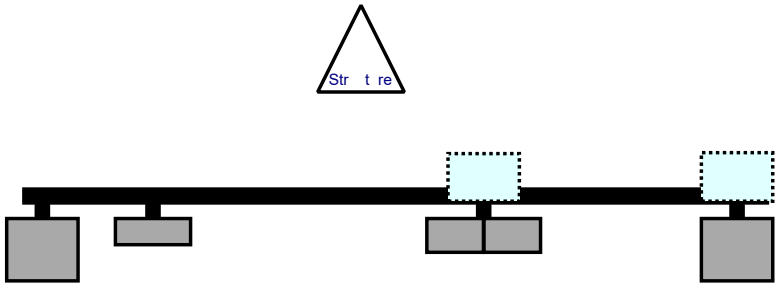


Front View - Loo i g t Str t re

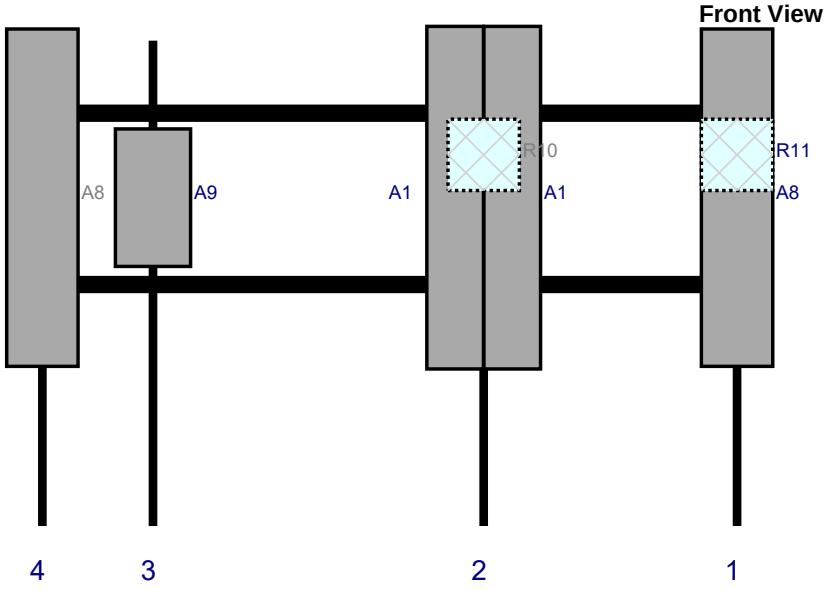


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A7	LPA-80080/6CF	70.9	5.5	145.5	1		Fro t	33	0	Ret i ed	04/13/2021
R11	RF4461d-13A	15	15	145.5	1		Behi d	24	0	Added	
A1	NHH-65B-R2B	72	11.9	120	2		Fro t	33	-6	Added	
A1	NHH-65B-R2B	72	11.9	120	2		Fro t	33	6	Added	
R10	RF4439d-25A	15	15	120	2		Behi d	24	0	Added	
A9	MT6413-77A	28.9	15.8	26	3		Fro t	33	0	Added	
A7	LPA-80080/6CF	70.9	5.5	1.5	4		Fro t	33	0	Ret i ed	04/13/2021
M35	DB-B1-6C-12AB-0Z	29.5	16.5		Me er					Added	
M37	DB-B1-6C-12AB-0Z	29.5	16.5		Me er					Added	

Plan View

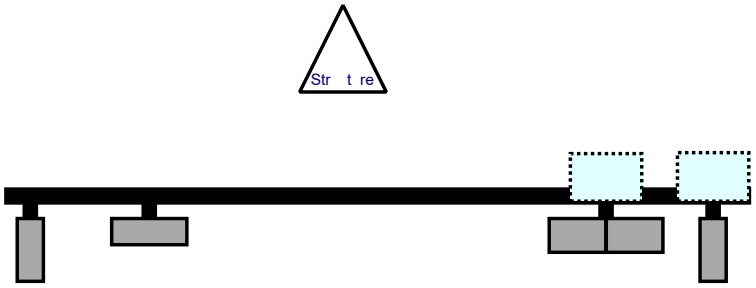


Front View - Loo i g t Str t re

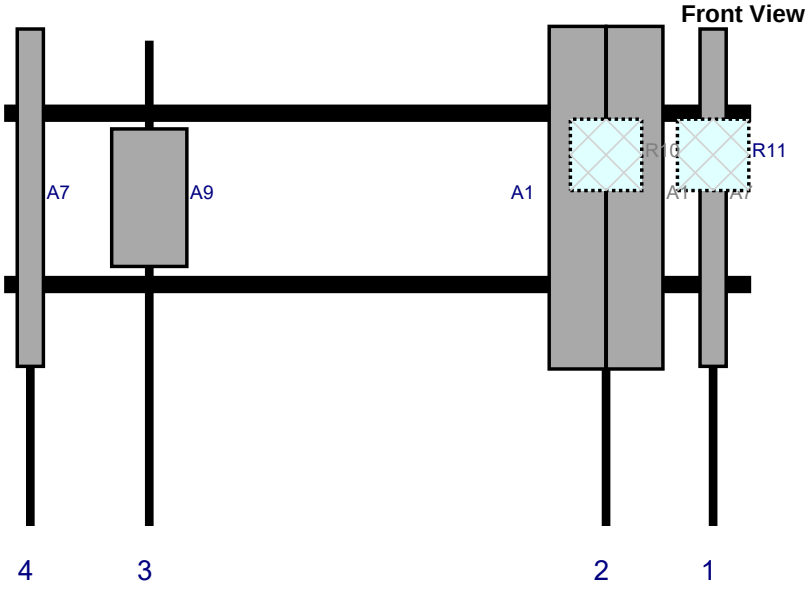


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A8	LPA-80063/6CF	70.9	15	150.25	1		Fro t	33	0	Ret i ed	04/13/2021
R11	RF4461d-13A	15	15	150.25	1		Behi d	24	0	Added	
A1	NHH-65B-R2B	72	11.9	97	2		Fro t	33	-6	Added	
A1	NHH-65B-R2B	72	11.9	97	2		Fro t	33	6	Added	
R10	RF4439d-25A	15	15	97	2		Behi d	24	0	Added	
A9	MT6413-77A	28.9	15.8	27.5	3		Fro t	33	0	Added	
A8	LPA-80063/6CF	70.9	15	4.25	4		Fro t	33	0	Ret i ed	04/13/2021

Plan View



Front View - Loo i g t Str t re



Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A7	LPA-80080/6CF	70.9	5.5	149	1		Fro t	33	0	Ret i ed	04/13/2021
R11	RF4461d-13A	15	15	149	1		Behi d	24	0	Added	
A1	NHH-65B-R2B	72	11.9	126.5	2		Fro t	33	-6	Added	
A1	NHH-65B-R2B	72	11.9	126.5	2		Fro t	33	6	Added	
R10	RF4439d-25A	15	15	126.5	2		Behi d	24	0	Added	
A9	MT6413-77A	28.9	15.8	30.5	3		Fro t	33	0	Added	
A7	LPA-80080/6CF	70.9	5.5	5.5	4		Fro t	33	0	Ret i ed	04/13/2021


04.13.2021 13:58


04.13.2021 13:35

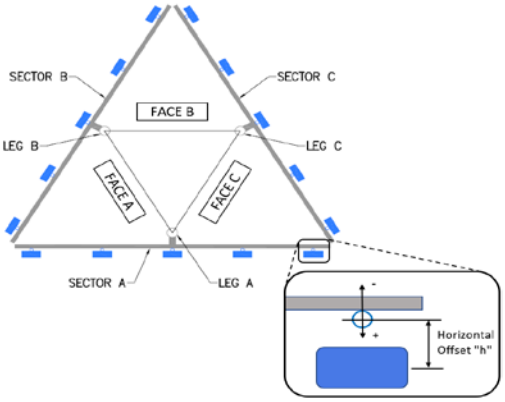
V4.0 Updated on 3-31-2021

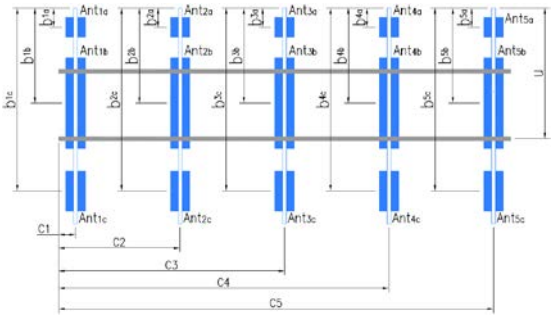
Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	ATC	**Mapping Date:**	4/13/2021
Site Name:	Collinsville CT	**Tower Type:**	monopole
Site Number or ID:	21777759	**Tower Height (Ft.):**	120
Mapping Contractor:	Structural Components	**Mount Elevation (Ft.):**	118

Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.





Antenna Layout (Looking Out From Tower)

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	2-3/8x.154x102	51.25	11.50	C1	2-3/8x.154x102	50.50	12.00
A2	2-3/8x.154x102	51.25	37.00	C2	2-3/8x.154x102	51.25	33.50
A3	2-3/8x.154x102	51.00	131.00	C3	2-3/8x.154x102	51.25	130.50
A4	2-3/8x.154x102	50.25	155.50	C4	2-3/8x.154x102	51.25	156.75
A5				C5			
A6				C6			
B1	2-3/8x.154x102	53.00	10.75	D1			
B2	2-3/8x.154x102	51.50	64.00	D2			
B3	2-3/8x.154x102	51.25	131.25	D3			
B4	2-3/8x.154x102	51.25	155.25	D4			
B5				D5			
B6				D6			

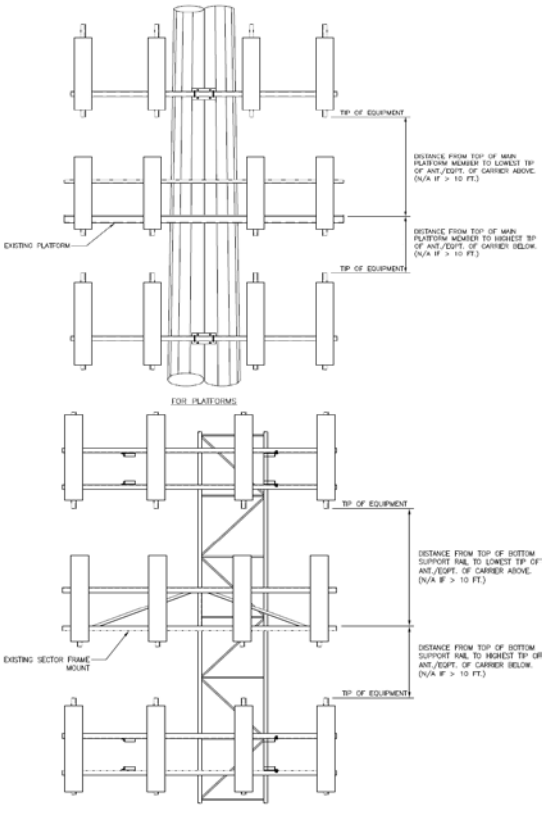
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	
Please enter additional infomation or comments below.	
3/8" weld from main standoff to plate	
Tower Face Width at Mount Elev. (ft.): 4.5	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): 25.79
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.	

	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}										
Ant_{1b}	Antel LPA 80080/6CF-	5.75	13.00	72.00	1) 1-5/8" T	119.854	29.00	13.00	50.00	31
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	unknown	11.00	5.00	71.00	2) 1-5/8" T	119.271	36.00	9.25	50.00	40
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	unknown	6.00	4.00	72.00	2) 1-5/8" T	119.354	34.75	7.50	50.00	66
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	Antel LPA 80080/6CF-	5.75	13.00	72.00	1) 1-5/8" T	119.604	31.00	12.00	50.00	66
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

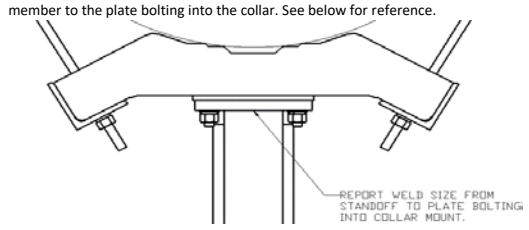
Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	50.00	Deg	Leg A:		Deg
Sector B:	170.00	Deg	Leg B:		Deg
Sector C:	290.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information			
Location:	200.00	Deg	
Climbing Facility	Corrosion Type:		Good condition.
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.

Please insert a photo of the mount centerline measurement here.



For T-Arms/Platforms on monopoles, record the weld size from the main standoff member to the plate bolting into the collar. See below for reference.



Sector B										
Ant_{1a}										
Ant_{1b}	Antel LPA 80080/6CF-	5.75	13.00	72.00	1) 1-5/8" T	119.417	36.00	17.00	170.00	97
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	unknown	11.00	5.00	71.00	2) 1-5/8" T	119.583	32.50	9.00	170.00	115
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	unknown	6.00	4.00	72.00	2) 1-5/8" T	119.458	33.75	7.75	170.00	132
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	Antel LPA 80080/6CF-	5.75	13.00	72.00	1) 1-5/8" T	119.729	30.50	17.00	170.00	156
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	Antel LPA 80080/6CF-	5.75	13.00	72.00	1) 1-5/8" T	119.542	32.00	13.00	290.00	163
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	unknown	11.00	5.00	71.00	2) 1-5/8" T	119.563	32.50	9.00	290.00	180
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	unknown	6.00	4.00	72.00	2) 1-5/8" T	119.396	34.50	7.50	290.00	193
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	Antel LPA 80080/6CF-	5.75	13.00	72.00	1) 1-5/8" T	119.521	33.00	13.00	290.00	208
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System					
If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.					Photo #
Description of Obstruction:					
Type of Light:		Photo #		Additional Comments:	
Lighting Technology:		Photo #			
Elevation (AGL) at base of light (Ft.):		Photo #			
Is a service loop available?		Photo #			
Is beacon installed on an extension?		Photo #			

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.

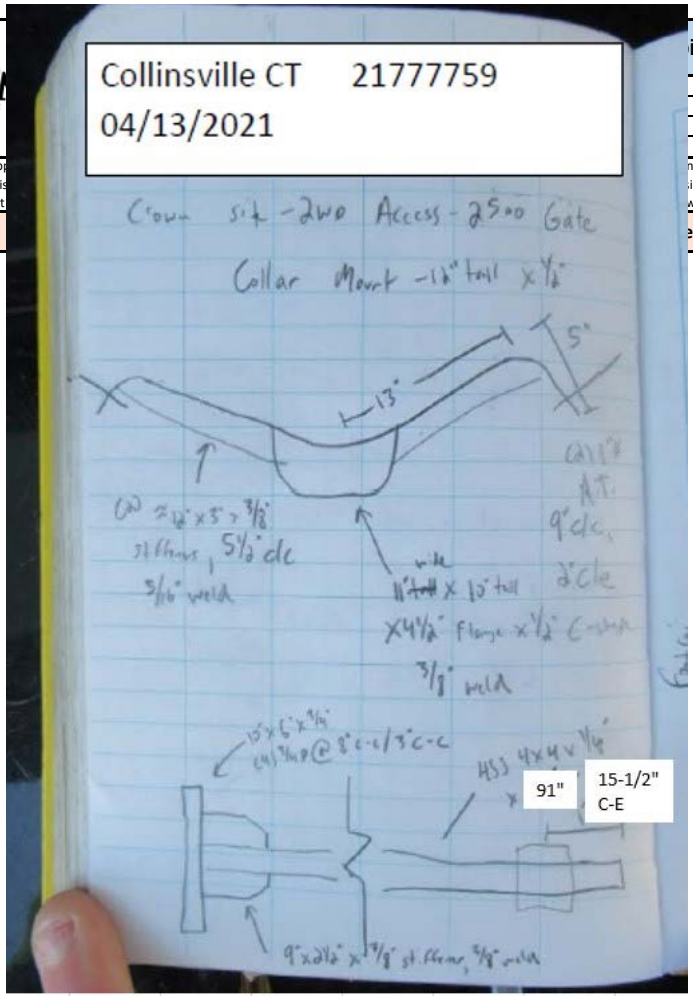
V4.0 Updated on 3-31-2021

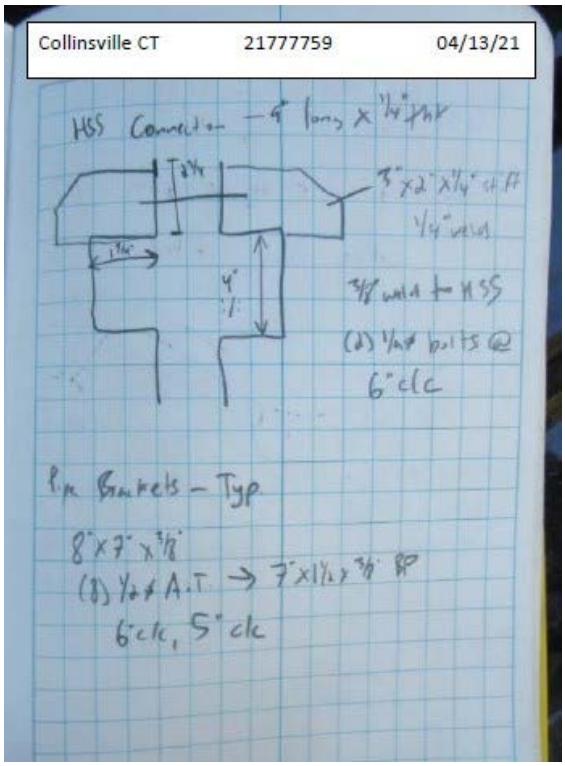
ing Form (PATENT PENDING) | **FCC #**

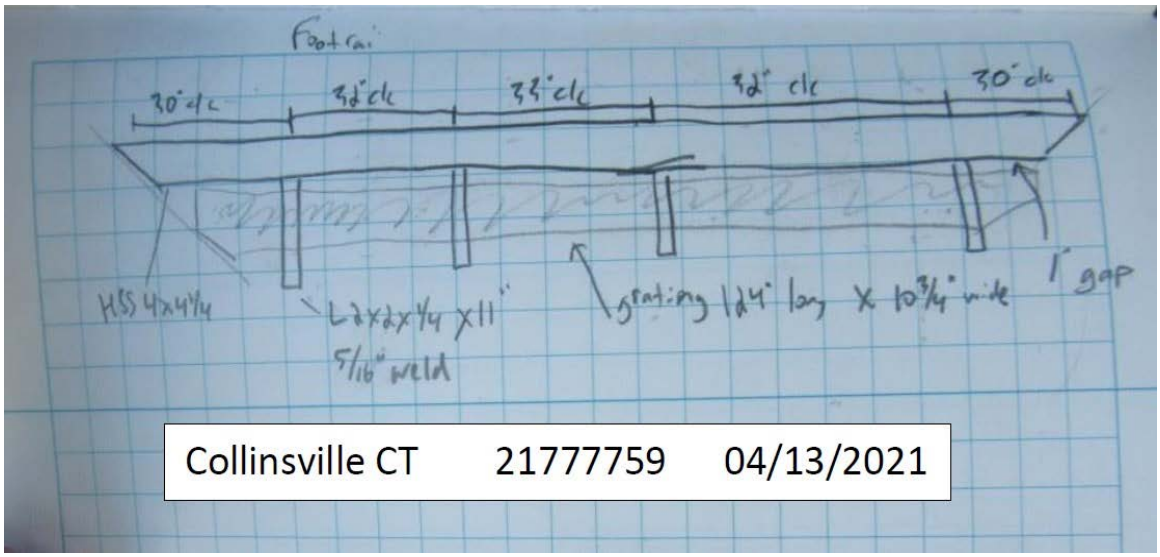
	Mapping Date:	4/13/2021
	Tower Type:	monopole
	Tower Height (Ft.):	120
	Mount Elevation (Ft.):	118

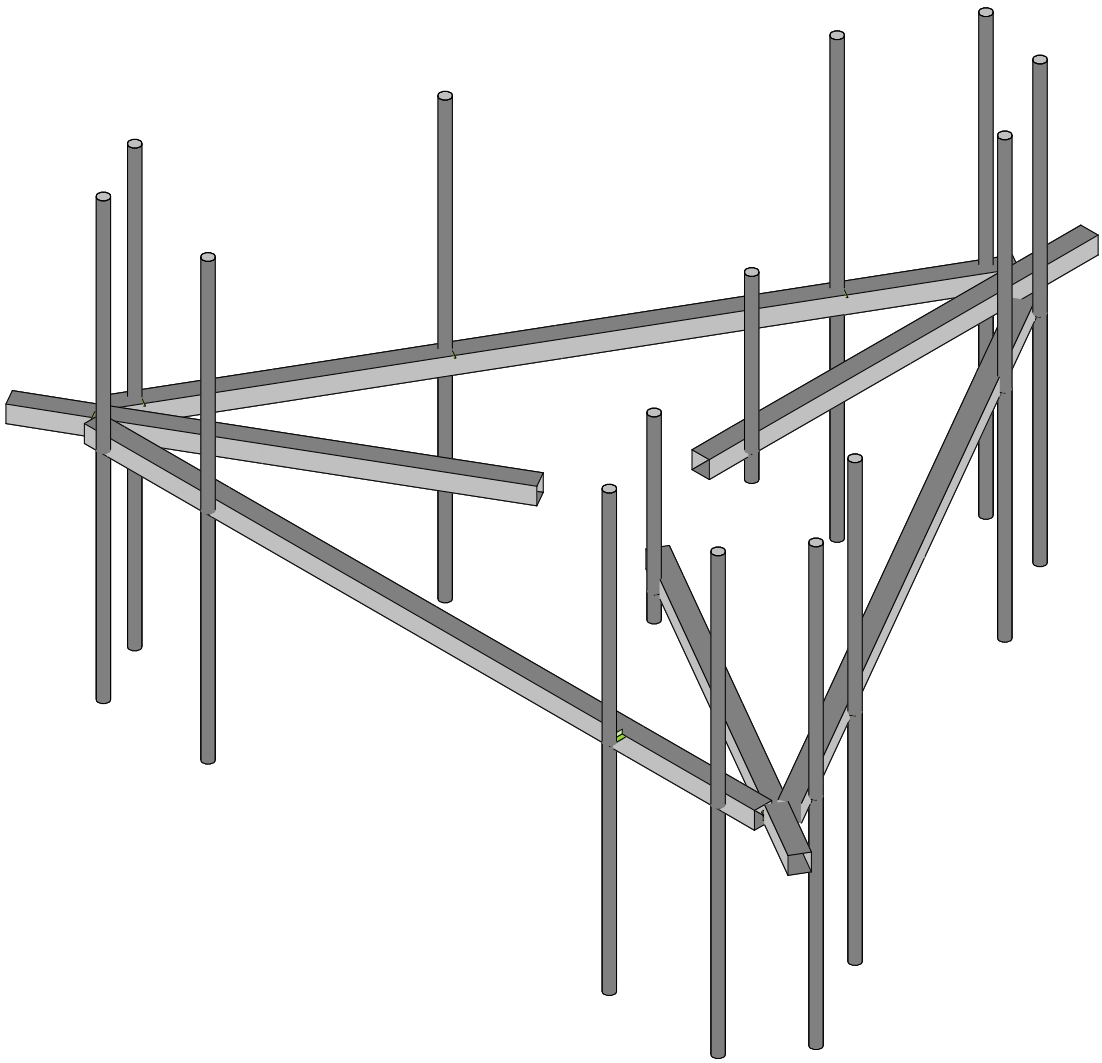
This antenna mapp... n nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or dis... ibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that ... with OSHA requirements.

e Antenna Mount









Envelope Only Solution

Colliers Engineering & De...	5000382696-VZW_MT_LO_H	SK - 1
		Jan 8, 2024 at 1:47 PM
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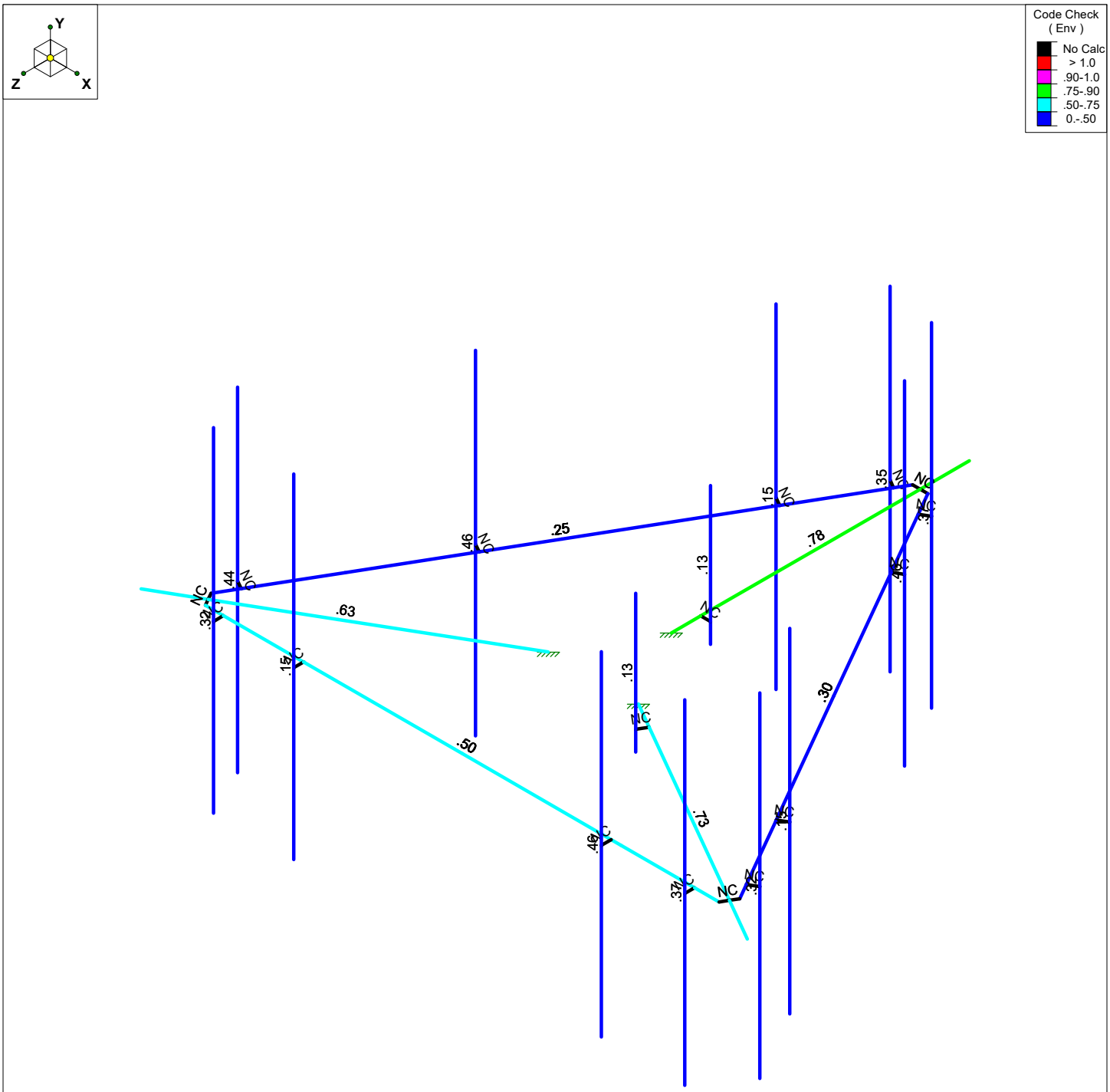

Member Code Checks Displayed (Enveloped)
Envelope Only Solution

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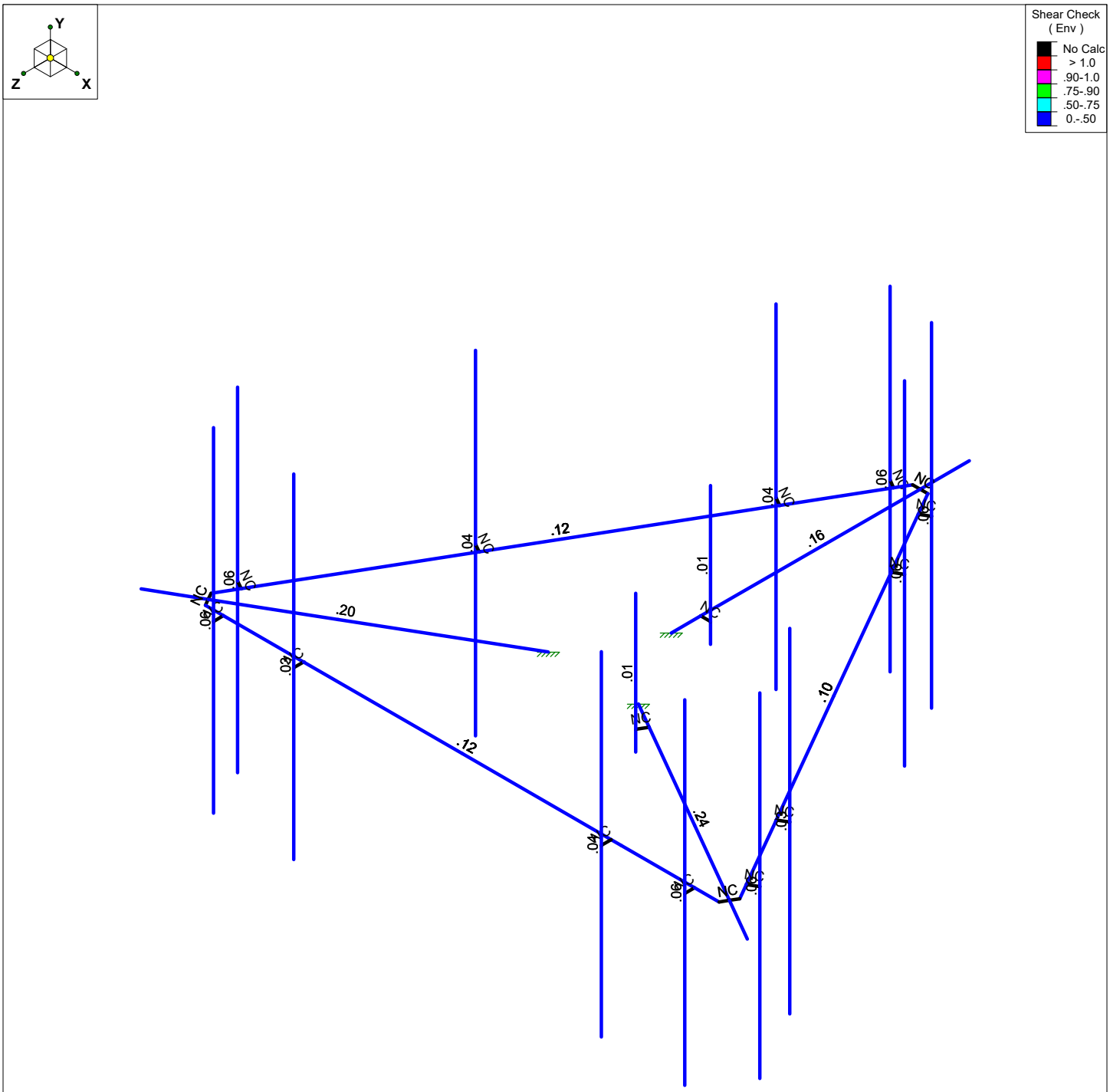


Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...	5000382696-VZW_MT_LO_H	SK - 3
		Jan 8, 2024 at 1:47 PM
		5000382696-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
1	Antenna D	None					114			
2	Antenna Di	None					114			
3	Antenna Wo (0 Deg)	None					114			
4	Antenna Wo (30 Deg)	None					114			
5	Antenna Wo (60 Deg)	None					114			
6	Antenna Wo (90 Deg)	None					114			
7	Antenna Wo (120 Deg)	None					114			
8	Antenna Wo (150 Deg)	None					114			
9	Antenna Wo (180 Deg)	None					114			
10	Antenna Wo (210 Deg)	None					114			
11	Antenna Wo (240 Deg)	None					114			
12	Antenna Wo (270 Deg)	None					114			
13	Antenna Wo (300 Deg)	None					114			
14	Antenna Wo (330 Deg)	None					114			
15	Antenna Wi (0 Deg)	None					114			
16	Antenna Wi (30 Deg)	None					114			
17	Antenna Wi (60 Deg)	None					114			
18	Antenna Wi (90 Deg)	None					114			
19	Antenna Wi (120 Deg)	None					114			
20	Antenna Wi (150 Deg)	None					114			
21	Antenna Wi (180 Deg)	None					114			
22	Antenna Wi (210 Deg)	None					114			
23	Antenna Wi (240 Deg)	None					114			
24	Antenna Wi (270 Deg)	None					114			
25	Antenna Wi (300 Deg)	None					114			
26	Antenna Wi (330 Deg)	None					114			
27	Antenna Wm (0 Deg)	None					114			
28	Antenna Wm (30 Deg)	None					114			
29	Antenna Wm (60 Deg)	None					114			
30	Antenna Wm (90 Deg)	None					114			
31	Antenna Wm (120 Deg)	None					114			
32	Antenna Wm (150 Deg)	None					114			
33	Antenna Wm (180 Deg)	None					114			
34	Antenna Wm (210 Deg)	None					114			
35	Antenna Wm (240 Deg)	None					114			
36	Antenna Wm (270 Deg)	None					114			
37	Antenna Wm (300 Deg)	None					114			
38	Antenna Wm (330 Deg)	None					114			
39	Structure D	None		-1					3	
40	Structure Di	None						20	3	
41	Structure Wo (0 Deg)	None						40		
42	Structure Wo (30 Deg)	None						40		
43	Structure Wo (60 Deg)	None						40		
44	Structure Wo (90 Deg)	None						40		
45	Structure Wo (120 Deg)	None						40		
46	Structure Wo (150 Deg)	None						40		
47	Structure Wo (180 Deg)	None						40		
48	Structure Wo (210 Deg)	None						40		
49	Structure Wo (240 Deg)	None						40		
50	Structure Wo (270 Deg)	None						40		
51	Structure Wo (300 Deg)	None						40		
52	Structure Wo (330 Deg)	None						40		
53	Structure Wi (0 Deg)	None						40		
54	Structure Wi (30 Deg)	None						40		
55	Structure Wi (60 Deg)	None						40		
56	Structure Wi (90 Deg)	None						40		
57	Structure Wi (120 Deg)	None						40		
58	Structure Wi (150 Deg)	None						40		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
59	Structure Wi (180 Deg)	None						40		
60	Structure Wi (210 Deg)	None						40		
61	Structure Wi (240 Deg)	None						40		
62	Structure Wi (270 Deg)	None						40		
63	Structure Wi (300 Deg)	None						40		
64	Structure Wi (330 Deg)	None						40		
65	Structure Wm (0 Deg)	None						40		
66	Structure Wm (30 Deg)	None						40		
67	Structure Wm (60 Deg)	None						40		
68	Structure Wm (90 Deg)	None						40		
69	Structure Wm (120 Deg)	None						40		
70	Structure Wm (150 Deg)	None						40		
71	Structure Wm (180 Deg)	None						40		
72	Structure Wm (210 Deg)	None						40		
73	Structure Wm (240 Deg)	None						40		
74	Structure Wm (270 Deg)	None						40		
75	Structure Wm (300 Deg)	None						40		
76	Structure Wm (330 Deg)	None						40		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					114			
82	Antenna Eh (0 Deg)	None					76			
83	Antenna Eh (90 Deg)	None					76			
84	Structure Ev	ELY		-.04					3	
85	Structure Eh (0 Deg)	ELZ			-.101				3	
86	Structure Eh (90 Deg)	ELX	.101						3	
87	BLC 39 Transient Area L...	None						8		
88	BLC 40 Transient Area L...	None						8		
89	BLC 84 Transient Area L...	None						18		
90	BLC 85 Transient Area L...	None						18		
91	BLC 86 Transient Area L...	None						18		

Load Combinations

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac...
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 (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								

Load Combinations (Continued)

	Description	So..	P...	S...	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..
22	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi (...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0...	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 ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5				
54	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866				
55	1.2D + 1.0Ev + 1.0Eh ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
57	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
58	1.2D + 1.0Ev + 1.0Eh ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
60	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
61	1.2D + 1.0Ev + 1.0Eh ...	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 ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
63	1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5				
64	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
75	0.9D - 1.0Ev + 1.0Eh (...	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	-0.	0	
2	N2	6.541667	0	0.	0	
3	N3	-6.541667	0	0.	0	
4	N4	0	0	-4	0	
5	N5	3.464102	0	-6	0	
6	N6	0.193268	0	-11.66525	0	
7	N7	6.734935	0	-0.33475	0	
8	N9	-3.464102	0	-6	0	
9	N10	-6.734935	0	-0.33475	0	
10	N11	-0.193268	0	-11.66525	0	
11	N11A	-6.638301	0	-0.167375	0	
12	N12	-0.	0	-5.324583	0	
13	N18	6.638301	0	-0.167375	0	
14	N22	-0.	0	-11.66525	0	
15	N17	-0.	0	-12.91525	0	
16	N20A	5.916667	0	-0.	0	
17	N21	3.791667	0	-0.	0	
18	N22A	-4.041667	0	0.	0	
19	N23A	-6.083333	0	0.	0	
20	N24	5.916667	0	.25	0	
21	N25	3.791667	0	.25	0	
22	N26	-4.041667	0	.25	0	
23	N27	-6.083333	0	.25	0	
24	N28	5.916667	4.270833	.25	0	
25	N29	3.791667	4.270833	.25	0	
26	N30	-4.041667	4.270833	.25	0	
27	N31	-6.083333	4.270833	.25	0	
28	N32	5.916667	-4.229167	.25	0	
29	N33	3.791667	-4.229167	.25	0	
30	N34	-4.041667	-4.229167	.25	0	
31	N35	-6.083333	-4.229167	.25	0	
32	N37	0.526602	0	-11.087899	0	
33	N38	1.464102	0	-9.464102	0	
34	N39	5.464102	0	-2.535898	0	
35	N40	6.505768	0	-0.731679	0	
36	N41	0.743108	0	-11.212899	0	
37	N42	1.680608	0	-9.589102	0	
38	N43	5.680608	0	-2.660898	0	
39	N44	6.722275	0	-0.856679	0	
40	N45	0.743108	4.270833	-11.212899	0	
41	N46	1.680608	4.270833	-9.589102	0	
42	N47	5.680608	4.270833	-2.660898	0	
43	N48	6.722275	4.270833	-0.856679	0	
44	N49	0.743108	-4.229167	-11.212899	0	
45	N50	1.680608	-4.229167	-9.589102	0	
46	N51	5.680608	-4.229167	-2.660898	0	
47	N52	6.722275	-4.229167	-0.856679	0	
48	N54	-6.453685	0	-0.82189	0	
49	N55	-4.234935	0	-4.664878	0	
50	N56	-1.432852	0	-9.518228	0	
51	N57	-0.370352	0	-11.358532	0	
52	N58	-6.670191	0	-0.94689	0	
53	N59	-4.451441	0	-4.789878	0	
54	N60	-1.649358	0	-9.643228	0	
55	N61	-0.586858	0	-11.483532	0	
56	N62	-6.670191	4.270833	-0.94689	0	
57	N63	-4.451441	4.270833	-4.789878	0	
58	N64	-1.649358	4.270833	-9.643228	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
59	N65	-0.586858	4.270833	-11.483532	0	
60	N66	-6.670191	-4.229167	-0.94689	0	
61	N67	-4.451441	-4.229167	-4.789878	0	
62	N68	-1.649358	-4.229167	-9.643228	0	
63	N69	-0.586858	-4.229167	-11.483532	0	
64	N68A	-0.	0	-6.074583	0	
65	N69A	.25	0	-6.074583	0	
66	N70	.25	3	-6.074583	0	
67	N71	.25	-.5	-6.074583	0	
68	N73	1.796642	0	-2.962708	0	
69	N74	1.671642	0	-2.746202	0	
70	N75	1.671642	3	-2.746202	0	
71	N76	1.671642	-.5	-2.746202	0	
72	N76A	-0.	0	-9.24125	0	
73	N77	-4.539056	0	-1.379375	0	
74	N78	4.539056	0	-1.379375	0	
75	N76B	-1.147123	0	-3.337708	0	
76	N77A	-7.720833	0	0.457625	0	
77	N79	1.147123	0	-3.337708	0	
78	N80	7.720833	0	0.457625	0	
79	N79A	4.041667	0	-0.	0	
80	N80A	-4.041667	0	0.	0	
81	N82	1.443268	0	-9.500186	0	
82	N83	5.484935	0	-2.499814	0	
83	N85	-5.484935	0	-2.499814	0	
84	N86	-1.443268	0	-9.500186	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	HSS4X4X4	Column	Tube	A500 Gr. B ...	Typical	3.37	7.8	7.8	12.8
3	Standoff Horizontal	HSS4X4X4	Column	Tube	A500 Gr. B ...	Typical	3.37	7.8	7.8	12.8
4	OVP Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/f...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N2			Face Horizontal	Column	Tube	A500 Gr. ...	Typical
2	M2	N7	N6			Face Horizontal	Column	Tube	A500 Gr. ...	Typical
3	M3	N11	N10			Face Horizontal	Column	Tube	A500 Gr. ...	Typical
4	M4	N3	N10			RIGID	None	None	RIGID	Typical
5	M5	N7	N2			RIGID	None	None	RIGID	Typical
6	M6	N11	N6			RIGID	None	None	RIGID	Typical
7	M7	N12	N17			Standoff Horiz...	Column	Tube	A500 Gr. ...	Typical
8	M10	N27	N23A			RIGID	None	None	RIGID	Typical
9	M11	N26	N22A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
10	M12	N25	N21			RIGID	None	None	RIGID	Typical
11	M13	N24	N20A			RIGID	None	None	RIGID	Typical
12	MP4A	N31	N35			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
13	MP3A	N30	N34			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
14	MP2A	N29	N33			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
15	MP1A	N28	N32			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
16	M18	N44	N40			RIGID	None	None	RIGID	Typical
17	M19	N43	N39			RIGID	None	None	RIGID	Typical
18	M20	N42	N38			RIGID	None	None	RIGID	Typical
19	M21	N41	N37			RIGID	None	None	RIGID	Typical
20	MP4C	N48	N52			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
21	MP3C	N47	N51			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
22	MP2C	N46	N50			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
23	MP1C	N45	N49			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
24	M26	N61	N57			RIGID	None	None	RIGID	Typical
25	M27	N60	N56			RIGID	None	None	RIGID	Typical
26	M28	N59	N55			RIGID	None	None	RIGID	Typical
27	M29	N58	N54			RIGID	None	None	RIGID	Typical
28	MP4B	N65	N69			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
29	MP3B	N64	N68			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
30	MP2B	N63	N67			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
31	MP1B	N62	N66			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
32	M34	N68A	N69A			RIGID	None	None	RIGID	Typical
33	M35	N70	N71			OVP Pipe	Column	Pipe	A53 Gr. B	Typical
34	M36	N73	N74			RIGID	None	None	RIGID	Typical
35	M37	N75	N76			OVP Pipe	Column	Pipe	A53 Gr. B	Typical
36	M36A	N76B	N77A			Standoff Horiz...	Column	Tube	A500 Gr. ...	Typical
37	M37A	N79	N80			Standoff Horiz...	Column	Tube	A500 Gr. ...	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M7						Yes	** NA **			None
8	M10						Yes	** NA **			None
9	M11						Yes	** NA **			None
10	M12						Yes	** NA **			None
11	M13						Yes	** NA **			None
12	MP4A						Yes	** NA **			None
13	MP3A						Yes	** NA **			None
14	MP2A						Yes	** NA **			None
15	MP1A						Yes	** NA **			None
16	M18						Yes	** NA **			None
17	M19						Yes	** NA **			None
18	M20						Yes	** NA **			None
19	M21						Yes	** NA **			None
20	MP4C						Yes	** NA **			None
21	MP3C						Yes	** NA **			None
22	MP2C						Yes	** NA **			None
23	MP1C						Yes	** NA **			None
24	M26						Yes	** NA **			None
25	M27						Yes	** NA **			None
26	M28						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
27	M29						Yes	** NA **			None
28	MP4B						Yes	** NA **			None
29	MP3B						Yes	** NA **			None
30	MP2B						Yes	** NA **			None
31	MP1B						Yes	** NA **			None
32	M34						Yes	** NA **			None
33	M35						Yes	** NA **			None
34	M36						Yes	** NA **			None
35	M37						Yes	** NA **			None
36	M36A						Yes	** NA **			None
37	M37A						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	.5
2	MP2A	My	-.011	.5
3	MP2A	Mz	-.011	.5
4	MP2A	Y	-21.85	5
5	MP2A	My	-.011	5
6	MP2A	Mz	-.011	5
7	MP2B	Y	-21.85	.5
8	MP2B	My	.014	.5
9	MP2B	Mz	-.007	.5
10	MP2B	Y	-21.85	5
11	MP2B	My	.014	5
12	MP2B	Mz	-.007	5
13	MP2C	Y	-21.85	.5
14	MP2C	My	.014	.5
15	MP2C	Mz	-.007	.5
16	MP2C	Y	-21.85	5
17	MP2C	My	.014	5
18	MP2C	Mz	-.007	5
19	MP2A	Y	-21.85	.5
20	MP2A	My	-.011	.5
21	MP2A	Mz	.011	.5
22	MP2A	Y	-21.85	5
23	MP2A	My	-.011	5
24	MP2A	Mz	.011	5
25	MP2B	Y	-21.85	.5
26	MP2B	My	-.007	.5
27	MP2B	Mz	-.014	.5
28	MP2B	Y	-21.85	5
29	MP2B	My	-.007	5
30	MP2B	Mz	-.014	5
31	MP2C	Y	-21.85	.5
32	MP2C	My	-.007	.5
33	MP2C	Mz	-.014	.5
34	MP2C	Y	-21.85	5
35	MP2C	My	-.007	5
36	MP2C	Mz	-.014	5
37	M35	Y	-32	1
38	M35	My	0	1
39	M35	Mz	0	1
40	M37	Y	-32	1
41	M37	My	0	1
42	M37	Mz	0	1
43	MP1A	Y	-10.5	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	My	-.005	.5
45	MP1A	Mz	0	.5
46	MP1A	Y	-10.5	5
47	MP1A	My	-.005	5
48	MP1A	Mz	0	5
49	MP1C	Y	-10.5	.5
50	MP1C	My	.003	.5
51	MP1C	Mz	.005	.5
52	MP1C	Y	-10.5	5
53	MP1C	My	.003	5
54	MP1C	Mz	.005	5
55	MP4A	Y	-10.5	.5
56	MP4A	My	-.005	.5
57	MP4A	Mz	0	.5
58	MP4A	Y	-10.5	5
59	MP4A	My	-.005	5
60	MP4A	Mz	0	5
61	MP4C	Y	-10.5	.5
62	MP4C	My	.003	.5
63	MP4C	Mz	.005	.5
64	MP4C	Y	-10.5	5
65	MP4C	My	.003	5
66	MP4C	Mz	.005	5
67	MP1B	Y	-13.5	.5
68	MP1B	My	.002	.5
69	MP1B	Mz	-.006	.5
70	MP1B	Y	-13.5	5
71	MP1B	My	.002	5
72	MP1B	Mz	-.006	5
73	MP4B	Y	-13.5	.5
74	MP4B	My	.002	.5
75	MP4B	Mz	-.006	.5
76	MP4B	Y	-13.5	5
77	MP4B	My	.002	5
78	MP4B	Mz	-.006	5
79	MP3A	Y	-28.65	2.25
80	MP3A	My	-.024	2.25
81	MP3A	Mz	0	2.25
82	MP3A	Y	-28.65	3.25
83	MP3A	My	-.024	3.25
84	MP3A	Mz	0	3.25
85	MP3B	Y	-28.65	2.25
86	MP3B	My	.008	2.25
87	MP3B	Mz	-.022	2.25
88	MP3B	Y	-28.65	3.25
89	MP3B	My	.008	3.25
90	MP3B	Mz	-.022	3.25
91	MP3C	Y	-28.65	2.25
92	MP3C	My	.012	2.25
93	MP3C	Mz	.021	2.25
94	MP3C	Y	-28.65	3.25
95	MP3C	My	.012	3.25
96	MP3C	Mz	.021	3.25
97	MP2A	Y	-74.7	2
98	MP2A	My	.037	2
99	MP2A	Mz	0	2
100	MP2B	Y	-74.7	2
101	MP2B	My	-.013	2
102	MP2B	Mz	.035	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	Y	-74.7	2
104	MP2C	My	-.019	2
105	MP2C	Mz	-.032	2
106	MP1A	Y	-79.1	2
107	MP1A	My	.04	2
108	MP1A	Mz	0	2
109	MP1B	Y	-79.1	2
110	MP1B	My	-.014	2
111	MP1B	Mz	.037	2
112	MP1C	Y	-79.1	2
113	MP1C	My	-.02	2
114	MP1C	Mz	-.034	2

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-94.032	.5
2	MP2A	My	-.047	.5
3	MP2A	Mz	-.047	.5
4	MP2A	Y	-94.032	5
5	MP2A	My	-.047	5
6	MP2A	Mz	-.047	5
7	MP2B	Y	-94.032	.5
8	MP2B	My	.06	.5
9	MP2B	Mz	-.028	.5
10	MP2B	Y	-94.032	5
11	MP2B	My	.06	5
12	MP2B	Mz	-.028	5
13	MP2C	Y	-94.032	.5
14	MP2C	My	.06	.5
15	MP2C	Mz	-.028	.5
16	MP2C	Y	-94.032	5
17	MP2C	My	.06	5
18	MP2C	Mz	-.028	5
19	MP2A	Y	-94.032	.5
20	MP2A	My	-.047	.5
21	MP2A	Mz	.047	.5
22	MP2A	Y	-94.032	5
23	MP2A	My	-.047	5
24	MP2A	Mz	.047	5
25	MP2B	Y	-94.032	.5
26	MP2B	My	-.028	.5
27	MP2B	Mz	-.06	.5
28	MP2B	Y	-94.032	5
29	MP2B	My	-.028	5
30	MP2B	Mz	-.06	5
31	MP2C	Y	-94.032	.5
32	MP2C	My	-.028	.5
33	MP2C	Mz	-.06	.5
34	MP2C	Y	-94.032	5
35	MP2C	My	-.028	5
36	MP2C	Mz	-.06	5
37	M35	Y	-135.818	1
38	M35	My	0	1
39	M35	Mz	0	1
40	M37	Y	-135.818	1
41	M37	My	0	1
42	M37	Mz	0	1
43	MP1A	Y	-90.838	.5

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	My	-.045	.5
45	MP1A	Mz	0	.5
46	MP1A	Y	-90.838	5
47	MP1A	My	-.045	5
48	MP1A	Mz	0	5
49	MP1C	Y	-90.838	.5
50	MP1C	My	.023	.5
51	MP1C	Mz	.039	.5
52	MP1C	Y	-90.838	5
53	MP1C	My	.023	5
54	MP1C	Mz	.039	5
55	MP4A	Y	-90.838	.5
56	MP4A	My	-.045	.5
57	MP4A	Mz	0	.5
58	MP4A	Y	-90.838	5
59	MP4A	My	-.045	5
60	MP4A	Mz	0	5
61	MP4C	Y	-90.838	.5
62	MP4C	My	.023	.5
63	MP4C	Mz	.039	.5
64	MP4C	Y	-90.838	5
65	MP4C	My	.023	5
66	MP4C	Mz	.039	5
67	MP1B	Y	-135.888	.5
68	MP1B	My	.023	.5
69	MP1B	Mz	-.064	.5
70	MP1B	Y	-135.888	5
71	MP1B	My	.023	5
72	MP1B	Mz	-.064	5
73	MP4B	Y	-135.888	.5
74	MP4B	My	.023	.5
75	MP4B	Mz	-.064	.5
76	MP4B	Y	-135.888	5
77	MP4B	My	.023	5
78	MP4B	Mz	-.064	5
79	MP3A	Y	-46.566	2.25
80	MP3A	My	-.039	2.25
81	MP3A	Mz	0	2.25
82	MP3A	Y	-46.566	3.25
83	MP3A	My	-.039	3.25
84	MP3A	Mz	0	3.25
85	MP3B	Y	-46.566	2.25
86	MP3B	My	.013	2.25
87	MP3B	Mz	-.036	2.25
88	MP3B	Y	-46.566	3.25
89	MP3B	My	.013	3.25
90	MP3B	Mz	-.036	3.25
91	MP3C	Y	-46.566	2.25
92	MP3C	My	.019	2.25
93	MP3C	Mz	.034	2.25
94	MP3C	Y	-46.566	3.25
95	MP3C	My	.019	3.25
96	MP3C	Mz	.034	3.25
97	MP2A	Y	-70.507	2
98	MP2A	My	.035	2
99	MP2A	Mz	0	2
100	MP2B	Y	-70.507	2
101	MP2B	My	-.012	2
102	MP2B	Mz	.033	2

Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	Y	-70.507	2
104	MP2C	My	-.018	2
105	MP2C	Mz	-.031	2
106	MP1A	Y	-71.229	2
107	MP1A	My	.036	2
108	MP1A	Mz	0	2
109	MP1B	Y	-71.229	2
110	MP1B	My	-.012	2
111	MP1B	Mz	.033	2
112	MP1C	Y	-71.229	2
113	MP1C	My	-.018	2
114	MP1C	Mz	-.031	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-87.202	.5
3	MP2A	Mx	.044	.5
4	MP2A	X	0	5
5	MP2A	Z	-87.202	5
6	MP2A	Mx	.044	5
7	MP2B	X	0	.5
8	MP2B	Z	-43.242	.5
9	MP2B	Mx	.013	.5
10	MP2B	X	0	5
11	MP2B	Z	-43.242	5
12	MP2B	Mx	.013	5
13	MP2C	X	0	.5
14	MP2C	Z	-43.242	.5
15	MP2C	Mx	.013	.5
16	MP2C	X	0	5
17	MP2C	Z	-43.242	5
18	MP2C	Mx	.013	5
19	MP2A	X	0	.5
20	MP2A	Z	-87.202	.5
21	MP2A	Mx	-.044	.5
22	MP2A	X	0	5
23	MP2A	Z	-87.202	5
24	MP2A	Mx	-.044	5
25	MP2B	X	0	.5
26	MP2B	Z	-43.242	.5
27	MP2B	Mx	.028	.5
28	MP2B	X	0	5
29	MP2B	Z	-43.242	5
30	MP2B	Mx	.028	5
31	MP2C	X	0	.5
32	MP2C	Z	-43.242	.5
33	MP2C	Mx	.028	.5
34	MP2C	X	0	5
35	MP2C	Z	-43.242	5
36	MP2C	Mx	.028	5
37	M35	X	0	1
38	M35	Z	-95.714	1
39	M35	Mx	0	1
40	M37	X	0	1
41	M37	Z	-95.714	1
42	M37	Mx	0	1
43	MP1A	X	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-69.537	.5
45	MP1A	Mx	0	.5
46	MP1A	X	0	5
47	MP1A	Z	-69.537	5
48	MP1A	Mx	0	5
49	MP1C	X	0	.5
50	MP1C	Z	-121.309	.5
51	MP1C	Mx	-.053	.5
52	MP1C	X	0	5
53	MP1C	Z	-121.309	5
54	MP1C	Mx	-.053	5
55	MP4A	X	0	.5
56	MP4A	Z	-69.537	.5
57	MP4A	Mx	0	.5
58	MP4A	X	0	5
59	MP4A	Z	-69.537	5
60	MP4A	Mx	0	5
61	MP4C	X	0	.5
62	MP4C	Z	-121.309	.5
63	MP4C	Mx	-.053	.5
64	MP4C	X	0	5
65	MP4C	Z	-121.309	5
66	MP4C	Mx	-.053	5
67	MP1B	X	0	.5
68	MP1B	Z	-139.631	.5
69	MP1B	Mx	.066	.5
70	MP1B	X	0	5
71	MP1B	Z	-139.631	5
72	MP1B	Mx	.066	5
73	MP4B	X	0	.5
74	MP4B	Z	-139.631	.5
75	MP4B	Mx	.066	.5
76	MP4B	X	0	5
77	MP4B	Z	-139.631	5
78	MP4B	Mx	.066	5
79	MP3A	X	0	2.25
80	MP3A	Z	-50.748	2.25
81	MP3A	Mx	0	2.25
82	MP3A	X	0	3.25
83	MP3A	Z	-50.748	3.25
84	MP3A	Mx	0	3.25
85	MP3B	X	0	2.25
86	MP3B	Z	-21.677	2.25
87	MP3B	Mx	.017	2.25
88	MP3B	X	0	3.25
89	MP3B	Z	-21.677	3.25
90	MP3B	Mx	.017	3.25
91	MP3C	X	0	2.25
92	MP3C	Z	-26.056	2.25
93	MP3C	Mx	-.019	2.25
94	MP3C	X	0	3.25
95	MP3C	Z	-26.056	3.25
96	MP3C	Mx	-.019	3.25
97	MP2A	X	0	2
98	MP2A	Z	-49.784	2
99	MP2A	Mx	0	2
100	MP2B	X	0	2
101	MP2B	Z	-35.32	2
102	MP2B	Mx	-.017	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	0	2
104	MP2C	Z	-37.499	2
105	MP2C	Mx	.016	2
106	MP1A	X	0	2
107	MP1A	Z	-60.062	2
108	MP1A	Mx	0	2
109	MP1B	X	0	2
110	MP1B	Z	-43.187	2
111	MP1B	Mx	-.02	2
112	MP1C	X	0	2
113	MP1C	Z	-45.729	2
114	MP1C	Mx	.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	37.378	.5
2	MP2A	Z	-64.741	.5
3	MP2A	Mx	.014	.5
4	MP2A	X	37.378	5
5	MP2A	Z	-64.741	5
6	MP2A	Mx	.014	5
7	MP2B	X	19.46	.5
8	MP2B	Z	-33.705	.5
9	MP2B	Mx	.023	.5
10	MP2B	X	19.46	5
11	MP2B	Z	-33.705	5
12	MP2B	Mx	.023	5
13	MP2C	X	19.46	.5
14	MP2C	Z	-33.705	.5
15	MP2C	Mx	.023	.5
16	MP2C	X	19.46	5
17	MP2C	Z	-33.705	5
18	MP2C	Mx	.023	5
19	MP2A	X	37.378	.5
20	MP2A	Z	-64.741	.5
21	MP2A	Mx	-.051	.5
22	MP2A	X	37.378	5
23	MP2A	Z	-64.741	5
24	MP2A	Mx	-.051	5
25	MP2B	X	19.46	.5
26	MP2B	Z	-33.705	.5
27	MP2B	Mx	.016	.5
28	MP2B	X	19.46	5
29	MP2B	Z	-33.705	5
30	MP2B	Mx	.016	5
31	MP2C	X	19.46	.5
32	MP2C	Z	-33.705	.5
33	MP2C	Mx	.016	.5
34	MP2C	X	19.46	5
35	MP2C	Z	-33.705	5
36	MP2C	Mx	.016	5
37	M35	X	41.754	1
38	M35	Z	-72.321	1
39	M35	Mx	0	1
40	M37	X	41.754	1
41	M37	Z	-72.321	1
42	M37	Mx	0	1
43	MP1A	X	43.397	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-75.166	.5
45	MP1A	Mx	-.022	.5
46	MP1A	X	43.397	5
47	MP1A	Z	-75.166	5
48	MP1A	Mx	-.022	5
49	MP1C	X	43.397	.5
50	MP1C	Z	-75.166	.5
51	MP1C	Mx	-.022	.5
52	MP1C	X	43.397	5
53	MP1C	Z	-75.166	5
54	MP1C	Mx	-.022	5
55	MP4A	X	43.397	.5
56	MP4A	Z	-75.166	.5
57	MP4A	Mx	-.022	.5
58	MP4A	X	43.397	5
59	MP4A	Z	-75.166	5
60	MP4A	Mx	-.022	5
61	MP4C	X	43.397	.5
62	MP4C	Z	-75.166	.5
63	MP4C	Mx	-.022	.5
64	MP4C	X	43.397	5
65	MP4C	Z	-75.166	5
66	MP4C	Mx	-.022	5
67	MP1B	X	69.101	.5
68	MP1B	Z	-119.686	.5
69	MP1B	Mx	.068	.5
70	MP1B	X	69.101	5
71	MP1B	Z	-119.686	5
72	MP1B	Mx	.068	5
73	MP4B	X	69.101	.5
74	MP4B	Z	-119.686	.5
75	MP4B	Mx	.068	.5
76	MP4B	X	69.101	5
77	MP4B	Z	-119.686	5
78	MP4B	Mx	.068	5
79	MP3A	X	21.259	2.25
80	MP3A	Z	-36.821	2.25
81	MP3A	Mx	-.018	2.25
82	MP3A	X	21.259	3.25
83	MP3A	Z	-36.821	3.25
84	MP3A	Mx	-.018	3.25
85	MP3B	X	9.409	2.25
86	MP3B	Z	-16.297	2.25
87	MP3B	Mx	.015	2.25
88	MP3B	X	9.409	3.25
89	MP3B	Z	-16.297	3.25
90	MP3B	Mx	.015	3.25
91	MP3C	X	21.259	2.25
92	MP3C	Z	-36.821	2.25
93	MP3C	Mx	-.018	2.25
94	MP3C	X	21.259	3.25
95	MP3C	Z	-36.821	3.25
96	MP3C	Mx	-.018	3.25
97	MP2A	X	22.844	2
98	MP2A	Z	-39.568	2
99	MP2A	Mx	.011	2
100	MP2B	X	16.949	2
101	MP2B	Z	-29.356	2
102	MP2B	Mx	-.017	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	22.844	2
104	MP2C	Z	-39.568	2
105	MP2C	Mx	.011	2
106	MP1A	X	27.642	2
107	MP1A	Z	-47.878	2
108	MP1A	Mx	.014	2
109	MP1B	X	20.764	2
110	MP1B	Z	-35.964	2
111	MP1B	Mx	-.02	2
112	MP1C	X	27.642	2
113	MP1C	Z	-47.878	2
114	MP1C	Mx	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	43.184	.5
2	MP2A	Z	-24.932	.5
3	MP2A	Mx	-.009	.5
4	MP2A	X	43.184	5
5	MP2A	Z	-24.932	5
6	MP2A	Mx	-.009	5
7	MP2B	X	50.219	.5
8	MP2B	Z	-28.994	.5
9	MP2B	Mx	.041	.5
10	MP2B	X	50.219	5
11	MP2B	Z	-28.994	5
12	MP2B	Mx	.041	5
13	MP2C	X	50.219	.5
14	MP2C	Z	-28.994	.5
15	MP2C	Mx	.041	.5
16	MP2C	X	50.219	5
17	MP2C	Z	-28.994	5
18	MP2C	Mx	.041	5
19	MP2A	X	43.184	.5
20	MP2A	Z	-24.932	.5
21	MP2A	Mx	-.034	.5
22	MP2A	X	43.184	5
23	MP2A	Z	-24.932	5
24	MP2A	Mx	-.034	5
25	MP2B	X	50.219	.5
26	MP2B	Z	-28.994	.5
27	MP2B	Mx	.004	.5
28	MP2B	X	50.219	5
29	MP2B	Z	-28.994	5
30	MP2B	Mx	.004	5
31	MP2C	X	50.219	.5
32	MP2C	Z	-28.994	.5
33	MP2C	Mx	.004	.5
34	MP2C	X	50.219	5
35	MP2C	Z	-28.994	5
36	MP2C	Mx	.004	5
37	M35	X	67.036	1
38	M35	Z	-38.703	1
39	M35	Mx	0	1
40	M37	X	67.036	1
41	M37	Z	-38.703	1
42	M37	Mx	0	1
43	MP1A	X	105.056	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-60.654	.5
45	MP1A	Mx	-.053	.5
46	MP1A	X	105.056	5
47	MP1A	Z	-60.654	5
48	MP1A	Mx	-.053	5
49	MP1C	X	60.221	.5
50	MP1C	Z	-34.768	.5
51	MP1C	Mx	0	.5
52	MP1C	X	60.221	5
53	MP1C	Z	-34.768	5
54	MP1C	Mx	0	5
55	MP4A	X	105.056	.5
56	MP4A	Z	-60.654	.5
57	MP4A	Mx	-.053	.5
58	MP4A	X	105.056	5
59	MP4A	Z	-60.654	5
60	MP4A	Mx	-.053	5
61	MP4C	X	60.221	.5
62	MP4C	Z	-34.768	.5
63	MP4C	Mx	0	.5
64	MP4C	X	60.221	5
65	MP4C	Z	-34.768	5
66	MP4C	Mx	0	5
67	MP1B	X	125.147	.5
68	MP1B	Z	-72.254	.5
69	MP1B	Mx	.055	.5
70	MP1B	X	125.147	5
71	MP1B	Z	-72.254	5
72	MP1B	Mx	.055	5
73	MP4B	X	125.147	.5
74	MP4B	Z	-72.254	.5
75	MP4B	Mx	.055	.5
76	MP4B	X	125.147	5
77	MP4B	Z	-72.254	5
78	MP4B	Mx	.055	5
79	MP3A	X	22.565	2.25
80	MP3A	Z	-13.028	2.25
81	MP3A	Mx	-.019	2.25
82	MP3A	X	22.565	3.25
83	MP3A	Z	-13.028	3.25
84	MP3A	Mx	-.019	3.25
85	MP3B	X	27.218	2.25
86	MP3B	Z	-15.714	2.25
87	MP3B	Mx	.02	2.25
88	MP3B	X	27.218	3.25
89	MP3B	Z	-15.714	3.25
90	MP3B	Mx	.02	3.25
91	MP3C	X	43.949	2.25
92	MP3C	Z	-25.374	2.25
93	MP3C	Mx	0	2.25
94	MP3C	X	43.949	3.25
95	MP3C	Z	-25.374	3.25
96	MP3C	Mx	0	3.25
97	MP2A	X	32.475	2
98	MP2A	Z	-18.749	2
99	MP2A	Mx	.016	2
100	MP2B	X	34.79	2
101	MP2B	Z	-20.086	2
102	MP2B	Mx	-.015	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	43.114	2
104	MP2C	Z	-24.892	2
105	MP2C	Mx	0	2
106	MP1A	X	39.602	2
107	MP1A	Z	-22.865	2
108	MP1A	Mx	.02	2
109	MP1B	X	42.303	2
110	MP1B	Z	-24.424	2
111	MP1B	Mx	-.019	2
112	MP1C	X	52.015	2
113	MP1C	Z	-30.031	2
114	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	37.418	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.019	.5
4	MP2A	X	37.418	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.019	5
7	MP2B	X	81.379	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.052	.5
10	MP2B	X	81.379	5
11	MP2B	Z	0	5
12	MP2B	Mx	.052	5
13	MP2C	X	81.379	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.052	.5
16	MP2C	X	81.379	5
17	MP2C	Z	0	5
18	MP2C	Mx	.052	5
19	MP2A	X	37.418	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.019	.5
22	MP2A	X	37.418	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.019	5
25	MP2B	X	81.379	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.024	.5
28	MP2B	X	81.379	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.024	5
31	MP2C	X	81.379	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.024	.5
34	MP2C	X	81.379	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.024	5
37	M35	X	83.509	1
38	M35	Z	0	1
39	M35	Mx	0	1
40	M37	X	83.509	1
41	M37	Z	0	1
42	M37	Mx	0	1
43	MP1A	X	138.566	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	0	.5
45	MP1A	Mx	-.069	.5
46	MP1A	X	138.566	5
47	MP1A	Z	0	5
48	MP1A	Mx	-.069	5
49	MP1C	X	86.794	.5
50	MP1C	Z	0	.5
51	MP1C	Mx	.022	.5
52	MP1C	X	86.794	5
53	MP1C	Z	0	5
54	MP1C	Mx	.022	5
55	MP4A	X	138.566	.5
56	MP4A	Z	0	.5
57	MP4A	Mx	-.069	.5
58	MP4A	X	138.566	5
59	MP4A	Z	0	5
60	MP4A	Mx	-.069	5
61	MP4C	X	86.794	.5
62	MP4C	Z	0	.5
63	MP4C	Mx	.022	.5
64	MP4C	X	86.794	5
65	MP4C	Z	0	5
66	MP4C	Mx	.022	5
67	MP1B	X	152.244	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	.026	.5
70	MP1B	X	152.244	5
71	MP1B	Z	0	5
72	MP1B	Mx	.026	5
73	MP4B	X	152.244	.5
74	MP4B	Z	0	.5
75	MP4B	Mx	.026	.5
76	MP4B	X	152.244	5
77	MP4B	Z	0	5
78	MP4B	Mx	.026	5
79	MP3A	X	17.826	2.25
80	MP3A	Z	0	2.25
81	MP3A	Mx	-.015	2.25
82	MP3A	X	17.826	3.25
83	MP3A	Z	0	3.25
84	MP3A	Mx	-.015	3.25
85	MP3B	X	46.896	2.25
86	MP3B	Z	0	2.25
87	MP3B	Mx	.013	2.25
88	MP3B	X	46.896	3.25
89	MP3B	Z	0	3.25
90	MP3B	Mx	.013	3.25
91	MP3C	X	42.517	2.25
92	MP3C	Z	0	2.25
93	MP3C	Mx	.018	2.25
94	MP3C	X	42.517	3.25
95	MP3C	Z	0	3.25
96	MP3C	Mx	.018	3.25
97	MP2A	X	33.403	2
98	MP2A	Z	0	2
99	MP2A	Mx	.017	2
100	MP2B	X	47.868	2
101	MP2B	Z	0	2
102	MP2B	Mx	-.008	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	45.689	2
104	MP2C	Z	0	2
105	MP2C	Mx	-.011	2
106	MP1A	X	40.951	2
107	MP1A	Z	0	2
108	MP1A	Mx	.02	2
109	MP1B	X	57.826	2
110	MP1B	Z	0	2
111	MP1B	Mx	-.01	2
112	MP1C	X	55.284	2
113	MP1C	Z	0	2
114	MP1C	Mx	-.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	43.184	.5
2	MP2A	Z	24.932	.5
3	MP2A	Mx	-.034	.5
4	MP2A	X	43.184	5
5	MP2A	Z	24.932	5
6	MP2A	Mx	-.034	5
7	MP2B	X	74.219	.5
8	MP2B	Z	42.851	.5
9	MP2B	Mx	.035	.5
10	MP2B	X	74.219	5
11	MP2B	Z	42.851	5
12	MP2B	Mx	.035	5
13	MP2C	X	74.219	.5
14	MP2C	Z	42.851	.5
15	MP2C	Mx	.035	.5
16	MP2C	X	74.219	5
17	MP2C	Z	42.851	5
18	MP2C	Mx	.035	5
19	MP2A	X	43.184	.5
20	MP2A	Z	24.932	.5
21	MP2A	Mx	-.009	.5
22	MP2A	X	43.184	5
23	MP2A	Z	24.932	5
24	MP2A	Mx	-.009	5
25	MP2B	X	74.219	.5
26	MP2B	Z	42.851	.5
27	MP2B	Mx	-.05	.5
28	MP2B	X	74.219	5
29	MP2B	Z	42.851	5
30	MP2B	Mx	-.05	5
31	MP2C	X	74.219	.5
32	MP2C	Z	42.851	.5
33	MP2C	Mx	-.05	.5
34	MP2C	X	74.219	5
35	MP2C	Z	42.851	5
36	MP2C	Mx	-.05	5
37	M35	X	82.891	1
38	M35	Z	47.857	1
39	M35	Mx	0	1
40	M37	X	82.891	1
41	M37	Z	47.857	1
42	M37	Mx	0	1
43	MP1A	X	105.056	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	60.654	.5
45	MP1A	Mx	-.053	.5
46	MP1A	X	105.056	5
47	MP1A	Z	60.654	5
48	MP1A	Mx	-.053	5
49	MP1C	X	105.056	.5
50	MP1C	Z	60.654	.5
51	MP1C	Mx	.053	.5
52	MP1C	X	105.056	5
53	MP1C	Z	60.654	5
54	MP1C	Mx	.053	5
55	MP4A	X	105.056	.5
56	MP4A	Z	60.654	.5
57	MP4A	Mx	-.053	.5
58	MP4A	X	105.056	5
59	MP4A	Z	60.654	5
60	MP4A	Mx	-.053	5
61	MP4C	X	105.056	.5
62	MP4C	Z	60.654	.5
63	MP4C	Mx	.053	.5
64	MP4C	X	105.056	5
65	MP4C	Z	60.654	5
66	MP4C	Mx	.053	5
67	MP1B	X	133.085	.5
68	MP1B	Z	76.837	.5
69	MP1B	Mx	-.013	.5
70	MP1B	X	133.085	5
71	MP1B	Z	76.837	5
72	MP1B	Mx	-.013	5
73	MP4B	X	133.085	.5
74	MP4B	Z	76.837	.5
75	MP4B	Mx	-.013	.5
76	MP4B	X	133.085	5
77	MP4B	Z	76.837	5
78	MP4B	Mx	-.013	5
79	MP3A	X	22.565	2.25
80	MP3A	Z	13.028	2.25
81	MP3A	Mx	-.019	2.25
82	MP3A	X	22.565	3.25
83	MP3A	Z	13.028	3.25
84	MP3A	Mx	-.019	3.25
85	MP3B	X	43.089	2.25
86	MP3B	Z	24.877	2.25
87	MP3B	Mx	-.007	2.25
88	MP3B	X	43.089	3.25
89	MP3B	Z	24.877	3.25
90	MP3B	Mx	-.007	3.25
91	MP3C	X	22.565	2.25
92	MP3C	Z	13.028	2.25
93	MP3C	Mx	.019	2.25
94	MP3C	X	22.565	3.25
95	MP3C	Z	13.028	3.25
96	MP3C	Mx	.019	3.25
97	MP2A	X	32.475	2
98	MP2A	Z	18.749	2
99	MP2A	Mx	.016	2
100	MP2B	X	42.686	2
101	MP2B	Z	24.645	2
102	MP2B	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	32.475	2
104	MP2C	Z	18.749	2
105	MP2C	Mx	-.016	2
106	MP1A	X	39.602	2
107	MP1A	Z	22.865	2
108	MP1A	Mx	.02	2
109	MP1B	X	51.516	2
110	MP1B	Z	29.743	2
111	MP1B	Mx	.005	2
112	MP1C	X	39.602	2
113	MP1C	Z	22.865	2
114	MP1C	Mx	-.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	37.378	.5
2	MP2A	Z	64.741	.5
3	MP2A	Mx	-.051	.5
4	MP2A	X	37.378	5
5	MP2A	Z	64.741	5
6	MP2A	Mx	-.051	5
7	MP2B	X	33.316	.5
8	MP2B	Z	57.706	.5
9	MP2B	Mx	.004	.5
10	MP2B	X	33.316	5
11	MP2B	Z	57.706	5
12	MP2B	Mx	.004	5
13	MP2C	X	33.316	.5
14	MP2C	Z	57.706	.5
15	MP2C	Mx	.004	.5
16	MP2C	X	33.316	5
17	MP2C	Z	57.706	5
18	MP2C	Mx	.004	5
19	MP2A	X	37.378	.5
20	MP2A	Z	64.741	.5
21	MP2A	Mx	.014	.5
22	MP2A	X	37.378	5
23	MP2A	Z	64.741	5
24	MP2A	Mx	.014	5
25	MP2B	X	33.316	.5
26	MP2B	Z	57.706	.5
27	MP2B	Mx	-.047	.5
28	MP2B	X	33.316	5
29	MP2B	Z	57.706	5
30	MP2B	Mx	-.047	5
31	MP2C	X	33.316	.5
32	MP2C	Z	57.706	.5
33	MP2C	Mx	-.047	.5
34	MP2C	X	33.316	5
35	MP2C	Z	57.706	5
36	MP2C	Mx	-.047	5
37	M35	X	50.908	1
38	M35	Z	88.175	1
39	M35	Mx	0	1
40	M37	X	50.908	1
41	M37	Z	88.175	1
42	M37	Mx	0	1
43	MP1A	X	43.397	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	75.166	.5
45	MP1A	Mx	-.022	.5
46	MP1A	X	43.397	5
47	MP1A	Z	75.166	5
48	MP1A	Mx	-.022	5
49	MP1C	X	69.283	.5
50	MP1C	Z	120.001	.5
51	MP1C	Mx	.069	.5
52	MP1C	X	69.283	5
53	MP1C	Z	120.001	5
54	MP1C	Mx	.069	5
55	MP4A	X	43.397	.5
56	MP4A	Z	75.166	.5
57	MP4A	Mx	-.022	.5
58	MP4A	X	43.397	5
59	MP4A	Z	75.166	5
60	MP4A	Mx	-.022	5
61	MP4C	X	69.283	.5
62	MP4C	Z	120.001	.5
63	MP4C	Mx	.069	.5
64	MP4C	X	69.283	5
65	MP4C	Z	120.001	5
66	MP4C	Mx	.069	5
67	MP1B	X	73.683	.5
68	MP1B	Z	127.623	.5
69	MP1B	Mx	-.047	.5
70	MP1B	X	73.683	5
71	MP1B	Z	127.623	5
72	MP1B	Mx	-.047	5
73	MP4B	X	73.683	.5
74	MP4B	Z	127.623	.5
75	MP4B	Mx	-.047	.5
76	MP4B	X	73.683	5
77	MP4B	Z	127.623	5
78	MP4B	Mx	-.047	5
79	MP3A	X	21.259	2.25
80	MP3A	Z	36.821	2.25
81	MP3A	Mx	-.018	2.25
82	MP3A	X	21.259	3.25
83	MP3A	Z	36.821	3.25
84	MP3A	Mx	-.018	3.25
85	MP3B	X	18.573	2.25
86	MP3B	Z	32.169	2.25
87	MP3B	Mx	-.02	2.25
88	MP3B	X	18.573	3.25
89	MP3B	Z	32.169	3.25
90	MP3B	Mx	-.02	3.25
91	MP3C	X	8.913	2.25
92	MP3C	Z	15.438	2.25
93	MP3C	Mx	.015	2.25
94	MP3C	X	8.913	3.25
95	MP3C	Z	15.438	3.25
96	MP3C	Mx	.015	3.25
97	MP2A	X	22.844	2
98	MP2A	Z	39.568	2
99	MP2A	Mx	.011	2
100	MP2B	X	21.508	2
101	MP2B	Z	37.253	2
102	MP2B	Mx	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	16.702	2
104	MP2C	Z	28.928	2
105	MP2C	Mx	-.017	2
106	MP1A	X	27.642	2
107	MP1A	Z	47.878	2
108	MP1A	Mx	.014	2
109	MP1B	X	26.083	2
110	MP1B	Z	45.177	2
111	MP1B	Mx	.017	2
112	MP1C	X	20.476	2
113	MP1C	Z	35.465	2
114	MP1C	Mx	-.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	87.202	.5
3	MP2A	Mx	-.044	.5
4	MP2A	X	0	5
5	MP2A	Z	87.202	5
6	MP2A	Mx	-.044	5
7	MP2B	X	0	.5
8	MP2B	Z	43.242	.5
9	MP2B	Mx	-.013	.5
10	MP2B	X	0	5
11	MP2B	Z	43.242	5
12	MP2B	Mx	-.013	5
13	MP2C	X	0	.5
14	MP2C	Z	43.242	.5
15	MP2C	Mx	-.013	.5
16	MP2C	X	0	5
17	MP2C	Z	43.242	5
18	MP2C	Mx	-.013	5
19	MP2A	X	0	.5
20	MP2A	Z	87.202	.5
21	MP2A	Mx	.044	.5
22	MP2A	X	0	5
23	MP2A	Z	87.202	5
24	MP2A	Mx	.044	5
25	MP2B	X	0	.5
26	MP2B	Z	43.242	.5
27	MP2B	Mx	-.028	.5
28	MP2B	X	0	5
29	MP2B	Z	43.242	5
30	MP2B	Mx	-.028	5
31	MP2C	X	0	.5
32	MP2C	Z	43.242	.5
33	MP2C	Mx	-.028	.5
34	MP2C	X	0	5
35	MP2C	Z	43.242	5
36	MP2C	Mx	-.028	5
37	M35	X	0	1
38	M35	Z	95.714	1
39	M35	Mx	0	1
40	M37	X	0	1
41	M37	Z	95.714	1
42	M37	Mx	0	1
43	MP1A	X	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	69.537	.5
45	MP1A	Mx	0	.5
46	MP1A	X	0	5
47	MP1A	Z	69.537	5
48	MP1A	Mx	0	5
49	MP1C	X	0	.5
50	MP1C	Z	121.309	.5
51	MP1C	Mx	.053	.5
52	MP1C	X	0	5
53	MP1C	Z	121.309	5
54	MP1C	Mx	.053	5
55	MP4A	X	0	.5
56	MP4A	Z	69.537	.5
57	MP4A	Mx	0	.5
58	MP4A	X	0	5
59	MP4A	Z	69.537	5
60	MP4A	Mx	0	5
61	MP4C	X	0	.5
62	MP4C	Z	121.309	.5
63	MP4C	Mx	.053	.5
64	MP4C	X	0	5
65	MP4C	Z	121.309	5
66	MP4C	Mx	.053	5
67	MP1B	X	0	.5
68	MP1B	Z	139.631	.5
69	MP1B	Mx	-.066	.5
70	MP1B	X	0	5
71	MP1B	Z	139.631	5
72	MP1B	Mx	-.066	5
73	MP4B	X	0	.5
74	MP4B	Z	139.631	.5
75	MP4B	Mx	-.066	.5
76	MP4B	X	0	5
77	MP4B	Z	139.631	5
78	MP4B	Mx	-.066	5
79	MP3A	X	0	2.25
80	MP3A	Z	50.748	2.25
81	MP3A	Mx	0	2.25
82	MP3A	X	0	3.25
83	MP3A	Z	50.748	3.25
84	MP3A	Mx	0	3.25
85	MP3B	X	0	2.25
86	MP3B	Z	21.677	2.25
87	MP3B	Mx	-.017	2.25
88	MP3B	X	0	3.25
89	MP3B	Z	21.677	3.25
90	MP3B	Mx	-.017	3.25
91	MP3C	X	0	2.25
92	MP3C	Z	26.056	2.25
93	MP3C	Mx	.019	2.25
94	MP3C	X	0	3.25
95	MP3C	Z	26.056	3.25
96	MP3C	Mx	.019	3.25
97	MP2A	X	0	2
98	MP2A	Z	49.784	2
99	MP2A	Mx	0	2
100	MP2B	X	0	2
101	MP2B	Z	35.32	2
102	MP2B	Mx	.017	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	0	2
104	MP2C	Z	37.499	2
105	MP2C	Mx	-.016	2
106	MP1A	X	0	2
107	MP1A	Z	60.062	2
108	MP1A	Mx	0	2
109	MP1B	X	0	2
110	MP1B	Z	43.187	2
111	MP1B	Mx	.02	2
112	MP1C	X	0	2
113	MP1C	Z	45.729	2
114	MP1C	Mx	-.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-37.378	.5
2	MP2A	Z	64.741	.5
3	MP2A	Mx	-.014	.5
4	MP2A	X	-37.378	5
5	MP2A	Z	64.741	5
6	MP2A	Mx	-.014	5
7	MP2B	X	-19.46	.5
8	MP2B	Z	33.705	.5
9	MP2B	Mx	-.023	.5
10	MP2B	X	-19.46	5
11	MP2B	Z	33.705	5
12	MP2B	Mx	-.023	5
13	MP2C	X	-19.46	.5
14	MP2C	Z	33.705	.5
15	MP2C	Mx	-.023	.5
16	MP2C	X	-19.46	5
17	MP2C	Z	33.705	5
18	MP2C	Mx	-.023	5
19	MP2A	X	-37.378	.5
20	MP2A	Z	64.741	.5
21	MP2A	Mx	.051	.5
22	MP2A	X	-37.378	5
23	MP2A	Z	64.741	5
24	MP2A	Mx	.051	5
25	MP2B	X	-19.46	.5
26	MP2B	Z	33.705	.5
27	MP2B	Mx	-.016	.5
28	MP2B	X	-19.46	5
29	MP2B	Z	33.705	5
30	MP2B	Mx	-.016	5
31	MP2C	X	-19.46	.5
32	MP2C	Z	33.705	.5
33	MP2C	Mx	-.016	.5
34	MP2C	X	-19.46	5
35	MP2C	Z	33.705	5
36	MP2C	Mx	-.016	5
37	M35	X	-41.754	1
38	M35	Z	72.321	1
39	M35	Mx	0	1
40	M37	X	-41.754	1
41	M37	Z	72.321	1
42	M37	Mx	0	1
43	MP1A	X	-43.397	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	75.166	.5
45	MP1A	Mx	.022	.5
46	MP1A	X	-43.397	5
47	MP1A	Z	75.166	5
48	MP1A	Mx	.022	5
49	MP1C	X	-43.397	.5
50	MP1C	Z	75.166	.5
51	MP1C	Mx	.022	.5
52	MP1C	X	-43.397	5
53	MP1C	Z	75.166	5
54	MP1C	Mx	.022	5
55	MP4A	X	-43.397	.5
56	MP4A	Z	75.166	.5
57	MP4A	Mx	.022	.5
58	MP4A	X	-43.397	5
59	MP4A	Z	75.166	5
60	MP4A	Mx	.022	5
61	MP4C	X	-43.397	.5
62	MP4C	Z	75.166	.5
63	MP4C	Mx	.022	.5
64	MP4C	X	-43.397	5
65	MP4C	Z	75.166	5
66	MP4C	Mx	.022	5
67	MP1B	X	-69.101	.5
68	MP1B	Z	119.686	.5
69	MP1B	Mx	-.068	.5
70	MP1B	X	-69.101	5
71	MP1B	Z	119.686	5
72	MP1B	Mx	-.068	5
73	MP4B	X	-69.101	.5
74	MP4B	Z	119.686	.5
75	MP4B	Mx	-.068	.5
76	MP4B	X	-69.101	5
77	MP4B	Z	119.686	5
78	MP4B	Mx	-.068	5
79	MP3A	X	-21.259	2.25
80	MP3A	Z	36.821	2.25
81	MP3A	Mx	.018	2.25
82	MP3A	X	-21.259	3.25
83	MP3A	Z	36.821	3.25
84	MP3A	Mx	.018	3.25
85	MP3B	X	-9.409	2.25
86	MP3B	Z	16.297	2.25
87	MP3B	Mx	-.015	2.25
88	MP3B	X	-9.409	3.25
89	MP3B	Z	16.297	3.25
90	MP3B	Mx	-.015	3.25
91	MP3C	X	-21.259	2.25
92	MP3C	Z	36.821	2.25
93	MP3C	Mx	.018	2.25
94	MP3C	X	-21.259	3.25
95	MP3C	Z	36.821	3.25
96	MP3C	Mx	.018	3.25
97	MP2A	X	-22.844	2
98	MP2A	Z	39.568	2
99	MP2A	Mx	-.011	2
100	MP2B	X	-16.949	2
101	MP2B	Z	29.356	2
102	MP2B	Mx	.017	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-22.844	2
104	MP2C	Z	39.568	2
105	MP2C	Mx	-.011	2
106	MP1A	X	-27.642	2
107	MP1A	Z	47.878	2
108	MP1A	Mx	-.014	2
109	MP1B	X	-20.764	2
110	MP1B	Z	35.964	2
111	MP1B	Mx	.02	2
112	MP1C	X	-27.642	2
113	MP1C	Z	47.878	2
114	MP1C	Mx	-.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-43.184	.5
2	MP2A	Z	24.932	.5
3	MP2A	Mx	.009	.5
4	MP2A	X	-43.184	5
5	MP2A	Z	24.932	5
6	MP2A	Mx	.009	5
7	MP2B	X	-50.219	.5
8	MP2B	Z	28.994	.5
9	MP2B	Mx	-.041	.5
10	MP2B	X	-50.219	5
11	MP2B	Z	28.994	5
12	MP2B	Mx	-.041	5
13	MP2C	X	-50.219	.5
14	MP2C	Z	28.994	.5
15	MP2C	Mx	-.041	.5
16	MP2C	X	-50.219	5
17	MP2C	Z	28.994	5
18	MP2C	Mx	-.041	5
19	MP2A	X	-43.184	.5
20	MP2A	Z	24.932	.5
21	MP2A	Mx	.034	.5
22	MP2A	X	-43.184	5
23	MP2A	Z	24.932	5
24	MP2A	Mx	.034	5
25	MP2B	X	-50.219	.5
26	MP2B	Z	28.994	.5
27	MP2B	Mx	-.004	.5
28	MP2B	X	-50.219	5
29	MP2B	Z	28.994	5
30	MP2B	Mx	-.004	5
31	MP2C	X	-50.219	.5
32	MP2C	Z	28.994	.5
33	MP2C	Mx	-.004	.5
34	MP2C	X	-50.219	5
35	MP2C	Z	28.994	5
36	MP2C	Mx	-.004	5
37	M35	X	-67.036	1
38	M35	Z	38.703	1
39	M35	Mx	0	1
40	M37	X	-67.036	1
41	M37	Z	38.703	1
42	M37	Mx	0	1
43	MP1A	X	-105.056	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	60.654	.5
45	MP1A	Mx	.053	.5
46	MP1A	X	-105.056	5
47	MP1A	Z	60.654	5
48	MP1A	Mx	.053	5
49	MP1C	X	-60.221	.5
50	MP1C	Z	34.768	.5
51	MP1C	Mx	0	.5
52	MP1C	X	-60.221	5
53	MP1C	Z	34.768	5
54	MP1C	Mx	0	5
55	MP4A	X	-105.056	.5
56	MP4A	Z	60.654	.5
57	MP4A	Mx	.053	.5
58	MP4A	X	-105.056	5
59	MP4A	Z	60.654	5
60	MP4A	Mx	.053	5
61	MP4C	X	-60.221	.5
62	MP4C	Z	34.768	.5
63	MP4C	Mx	0	.5
64	MP4C	X	-60.221	5
65	MP4C	Z	34.768	5
66	MP4C	Mx	0	5
67	MP1B	X	-125.147	.5
68	MP1B	Z	72.254	.5
69	MP1B	Mx	-.055	.5
70	MP1B	X	-125.147	5
71	MP1B	Z	72.254	5
72	MP1B	Mx	-.055	5
73	MP4B	X	-125.147	.5
74	MP4B	Z	72.254	.5
75	MP4B	Mx	-.055	.5
76	MP4B	X	-125.147	5
77	MP4B	Z	72.254	5
78	MP4B	Mx	-.055	5
79	MP3A	X	-22.565	2.25
80	MP3A	Z	13.028	2.25
81	MP3A	Mx	.019	2.25
82	MP3A	X	-22.565	3.25
83	MP3A	Z	13.028	3.25
84	MP3A	Mx	.019	3.25
85	MP3B	X	-27.218	2.25
86	MP3B	Z	15.714	2.25
87	MP3B	Mx	-.02	2.25
88	MP3B	X	-27.218	3.25
89	MP3B	Z	15.714	3.25
90	MP3B	Mx	-.02	3.25
91	MP3C	X	-43.949	2.25
92	MP3C	Z	25.374	2.25
93	MP3C	Mx	0	2.25
94	MP3C	X	-43.949	3.25
95	MP3C	Z	25.374	3.25
96	MP3C	Mx	0	3.25
97	MP2A	X	-32.475	2
98	MP2A	Z	18.749	2
99	MP2A	Mx	-.016	2
100	MP2B	X	-34.79	2
101	MP2B	Z	20.086	2
102	MP2B	Mx	.015	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-43.114	2
104	MP2C	Z	24.892	2
105	MP2C	Mx	0	2
106	MP1A	X	-39.602	2
107	MP1A	Z	22.865	2
108	MP1A	Mx	-.02	2
109	MP1B	X	-42.303	2
110	MP1B	Z	24.424	2
111	MP1B	Mx	.019	2
112	MP1C	X	-52.015	2
113	MP1C	Z	30.031	2
114	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-37.418	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.019	.5
4	MP2A	X	-37.418	5
5	MP2A	Z	0	5
6	MP2A	Mx	.019	5
7	MP2B	X	-81.379	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.052	.5
10	MP2B	X	-81.379	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.052	5
13	MP2C	X	-81.379	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.052	.5
16	MP2C	X	-81.379	5
17	MP2C	Z	0	5
18	MP2C	Mx	-.052	5
19	MP2A	X	-37.418	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.019	.5
22	MP2A	X	-37.418	5
23	MP2A	Z	0	5
24	MP2A	Mx	.019	5
25	MP2B	X	-81.379	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.024	.5
28	MP2B	X	-81.379	5
29	MP2B	Z	0	5
30	MP2B	Mx	.024	5
31	MP2C	X	-81.379	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.024	.5
34	MP2C	X	-81.379	5
35	MP2C	Z	0	5
36	MP2C	Mx	.024	5
37	M35	X	-83.509	1
38	M35	Z	0	1
39	M35	Mx	0	1
40	M37	X	-83.509	1
41	M37	Z	0	1
42	M37	Mx	0	1
43	MP1A	X	-138.566	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	0	.5
45	MP1A	Mx	.069	.5
46	MP1A	X	-138.566	5
47	MP1A	Z	0	5
48	MP1A	Mx	.069	5
49	MP1C	X	-86.794	.5
50	MP1C	Z	0	.5
51	MP1C	Mx	-.022	.5
52	MP1C	X	-86.794	5
53	MP1C	Z	0	5
54	MP1C	Mx	-.022	5
55	MP4A	X	-138.566	.5
56	MP4A	Z	0	.5
57	MP4A	Mx	.069	.5
58	MP4A	X	-138.566	5
59	MP4A	Z	0	5
60	MP4A	Mx	.069	5
61	MP4C	X	-86.794	.5
62	MP4C	Z	0	.5
63	MP4C	Mx	-.022	.5
64	MP4C	X	-86.794	5
65	MP4C	Z	0	5
66	MP4C	Mx	-.022	5
67	MP1B	X	-152.244	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	-.026	.5
70	MP1B	X	-152.244	5
71	MP1B	Z	0	5
72	MP1B	Mx	-.026	5
73	MP4B	X	-152.244	.5
74	MP4B	Z	0	.5
75	MP4B	Mx	-.026	.5
76	MP4B	X	-152.244	5
77	MP4B	Z	0	5
78	MP4B	Mx	-.026	5
79	MP3A	X	-17.826	2.25
80	MP3A	Z	0	2.25
81	MP3A	Mx	.015	2.25
82	MP3A	X	-17.826	3.25
83	MP3A	Z	0	3.25
84	MP3A	Mx	.015	3.25
85	MP3B	X	-46.896	2.25
86	MP3B	Z	0	2.25
87	MP3B	Mx	-.013	2.25
88	MP3B	X	-46.896	3.25
89	MP3B	Z	0	3.25
90	MP3B	Mx	-.013	3.25
91	MP3C	X	-42.517	2.25
92	MP3C	Z	0	2.25
93	MP3C	Mx	-.018	2.25
94	MP3C	X	-42.517	3.25
95	MP3C	Z	0	3.25
96	MP3C	Mx	-.018	3.25
97	MP2A	X	-33.403	2
98	MP2A	Z	0	2
99	MP2A	Mx	-.017	2
100	MP2B	X	-47.868	2
101	MP2B	Z	0	2
102	MP2B	Mx	.008	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-45.689	2
104	MP2C	Z	0	2
105	MP2C	Mx	.011	2
106	MP1A	X	-40.951	2
107	MP1A	Z	0	2
108	MP1A	Mx	-.02	2
109	MP1B	X	-57.826	2
110	MP1B	Z	0	2
111	MP1B	Mx	.01	2
112	MP1C	X	-55.284	2
113	MP1C	Z	0	2
114	MP1C	Mx	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-43.184	.5
2	MP2A	Z	-24.932	.5
3	MP2A	Mx	.034	.5
4	MP2A	X	-43.184	5
5	MP2A	Z	-24.932	5
6	MP2A	Mx	.034	5
7	MP2B	X	-74.219	.5
8	MP2B	Z	-42.851	.5
9	MP2B	Mx	-.035	.5
10	MP2B	X	-74.219	5
11	MP2B	Z	-42.851	5
12	MP2B	Mx	-.035	5
13	MP2C	X	-74.219	.5
14	MP2C	Z	-42.851	.5
15	MP2C	Mx	-.035	.5
16	MP2C	X	-74.219	5
17	MP2C	Z	-42.851	5
18	MP2C	Mx	-.035	5
19	MP2A	X	-43.184	.5
20	MP2A	Z	-24.932	.5
21	MP2A	Mx	.009	.5
22	MP2A	X	-43.184	5
23	MP2A	Z	-24.932	5
24	MP2A	Mx	.009	5
25	MP2B	X	-74.219	.5
26	MP2B	Z	-42.851	.5
27	MP2B	Mx	.05	.5
28	MP2B	X	-74.219	5
29	MP2B	Z	-42.851	5
30	MP2B	Mx	.05	5
31	MP2C	X	-74.219	.5
32	MP2C	Z	-42.851	.5
33	MP2C	Mx	.05	.5
34	MP2C	X	-74.219	5
35	MP2C	Z	-42.851	5
36	MP2C	Mx	.05	5
37	M35	X	-82.891	1
38	M35	Z	-47.857	1
39	M35	Mx	0	1
40	M37	X	-82.891	1
41	M37	Z	-47.857	1
42	M37	Mx	0	1
43	MP1A	X	-105.056	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-60.654	.5
45	MP1A	Mx	.053	.5
46	MP1A	X	-105.056	5
47	MP1A	Z	-60.654	5
48	MP1A	Mx	.053	5
49	MP1C	X	-105.056	.5
50	MP1C	Z	-60.654	.5
51	MP1C	Mx	-.053	.5
52	MP1C	X	-105.056	5
53	MP1C	Z	-60.654	5
54	MP1C	Mx	-.053	5
55	MP4A	X	-105.056	.5
56	MP4A	Z	-60.654	.5
57	MP4A	Mx	.053	.5
58	MP4A	X	-105.056	5
59	MP4A	Z	-60.654	5
60	MP4A	Mx	.053	5
61	MP4C	X	-105.056	.5
62	MP4C	Z	-60.654	.5
63	MP4C	Mx	-.053	.5
64	MP4C	X	-105.056	5
65	MP4C	Z	-60.654	5
66	MP4C	Mx	-.053	5
67	MP1B	X	-133.085	.5
68	MP1B	Z	-76.837	.5
69	MP1B	Mx	.013	.5
70	MP1B	X	-133.085	5
71	MP1B	Z	-76.837	5
72	MP1B	Mx	.013	5
73	MP4B	X	-133.085	.5
74	MP4B	Z	-76.837	.5
75	MP4B	Mx	.013	.5
76	MP4B	X	-133.085	5
77	MP4B	Z	-76.837	5
78	MP4B	Mx	.013	5
79	MP3A	X	-22.565	2.25
80	MP3A	Z	-13.028	2.25
81	MP3A	Mx	.019	2.25
82	MP3A	X	-22.565	3.25
83	MP3A	Z	-13.028	3.25
84	MP3A	Mx	.019	3.25
85	MP3B	X	-43.089	2.25
86	MP3B	Z	-24.877	2.25
87	MP3B	Mx	.007	2.25
88	MP3B	X	-43.089	3.25
89	MP3B	Z	-24.877	3.25
90	MP3B	Mx	.007	3.25
91	MP3C	X	-22.565	2.25
92	MP3C	Z	-13.028	2.25
93	MP3C	Mx	-.019	2.25
94	MP3C	X	-22.565	3.25
95	MP3C	Z	-13.028	3.25
96	MP3C	Mx	-.019	3.25
97	MP2A	X	-32.475	2
98	MP2A	Z	-18.749	2
99	MP2A	Mx	-.016	2
100	MP2B	X	-42.686	2
101	MP2B	Z	-24.645	2
102	MP2B	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-32.475	2
104	MP2C	Z	-18.749	2
105	MP2C	Mx	.016	2
106	MP1A	X	-39.602	2
107	MP1A	Z	-22.865	2
108	MP1A	Mx	-.02	2
109	MP1B	X	-51.516	2
110	MP1B	Z	-29.743	2
111	MP1B	Mx	-.005	2
112	MP1C	X	-39.602	2
113	MP1C	Z	-22.865	2
114	MP1C	Mx	.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-37.378	.5
2	MP2A	Z	-64.741	.5
3	MP2A	Mx	.051	.5
4	MP2A	X	-37.378	5
5	MP2A	Z	-64.741	5
6	MP2A	Mx	.051	5
7	MP2B	X	-33.316	.5
8	MP2B	Z	-57.706	.5
9	MP2B	Mx	-.004	.5
10	MP2B	X	-33.316	5
11	MP2B	Z	-57.706	5
12	MP2B	Mx	-.004	5
13	MP2C	X	-33.316	.5
14	MP2C	Z	-57.706	.5
15	MP2C	Mx	-.004	.5
16	MP2C	X	-33.316	5
17	MP2C	Z	-57.706	5
18	MP2C	Mx	-.004	5
19	MP2A	X	-37.378	.5
20	MP2A	Z	-64.741	.5
21	MP2A	Mx	-.014	.5
22	MP2A	X	-37.378	5
23	MP2A	Z	-64.741	5
24	MP2A	Mx	-.014	5
25	MP2B	X	-33.316	.5
26	MP2B	Z	-57.706	.5
27	MP2B	Mx	.047	.5
28	MP2B	X	-33.316	5
29	MP2B	Z	-57.706	5
30	MP2B	Mx	.047	5
31	MP2C	X	-33.316	.5
32	MP2C	Z	-57.706	.5
33	MP2C	Mx	.047	.5
34	MP2C	X	-33.316	5
35	MP2C	Z	-57.706	5
36	MP2C	Mx	.047	5
37	M35	X	-50.908	1
38	M35	Z	-88.175	1
39	M35	Mx	0	1
40	M37	X	-50.908	1
41	M37	Z	-88.175	1
42	M37	Mx	0	1
43	MP1A	X	-43.397	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-75.166	.5
45	MP1A	Mx	.022	.5
46	MP1A	X	-43.397	5
47	MP1A	Z	-75.166	5
48	MP1A	Mx	.022	5
49	MP1C	X	-69.283	.5
50	MP1C	Z	-120.001	.5
51	MP1C	Mx	-.069	.5
52	MP1C	X	-69.283	5
53	MP1C	Z	-120.001	5
54	MP1C	Mx	-.069	5
55	MP4A	X	-43.397	.5
56	MP4A	Z	-75.166	.5
57	MP4A	Mx	.022	.5
58	MP4A	X	-43.397	5
59	MP4A	Z	-75.166	5
60	MP4A	Mx	.022	5
61	MP4C	X	-69.283	.5
62	MP4C	Z	-120.001	.5
63	MP4C	Mx	-.069	.5
64	MP4C	X	-69.283	5
65	MP4C	Z	-120.001	5
66	MP4C	Mx	-.069	5
67	MP1B	X	-73.683	.5
68	MP1B	Z	-127.623	.5
69	MP1B	Mx	.047	.5
70	MP1B	X	-73.683	5
71	MP1B	Z	-127.623	5
72	MP1B	Mx	.047	5
73	MP4B	X	-73.683	.5
74	MP4B	Z	-127.623	.5
75	MP4B	Mx	.047	.5
76	MP4B	X	-73.683	5
77	MP4B	Z	-127.623	5
78	MP4B	Mx	.047	5
79	MP3A	X	-21.259	2.25
80	MP3A	Z	-36.821	2.25
81	MP3A	Mx	.018	2.25
82	MP3A	X	-21.259	3.25
83	MP3A	Z	-36.821	3.25
84	MP3A	Mx	.018	3.25
85	MP3B	X	-18.573	2.25
86	MP3B	Z	-32.169	2.25
87	MP3B	Mx	.02	2.25
88	MP3B	X	-18.573	3.25
89	MP3B	Z	-32.169	3.25
90	MP3B	Mx	.02	3.25
91	MP3C	X	-8.913	2.25
92	MP3C	Z	-15.438	2.25
93	MP3C	Mx	-.015	2.25
94	MP3C	X	-8.913	3.25
95	MP3C	Z	-15.438	3.25
96	MP3C	Mx	-.015	3.25
97	MP2A	X	-22.844	2
98	MP2A	Z	-39.568	2
99	MP2A	Mx	-.011	2
100	MP2B	X	-21.508	2
101	MP2B	Z	-37.253	2
102	MP2B	Mx	-.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-16.702	2
104	MP2C	Z	-28.928	2
105	MP2C	Mx	.017	2
106	MP1A	X	-27.642	2
107	MP1A	Z	-47.878	2
108	MP1A	Mx	-.014	2
109	MP1B	X	-26.083	2
110	MP1B	Z	-45.177	2
111	MP1B	Mx	-.017	2
112	MP1C	X	-20.476	2
113	MP1C	Z	-35.465	2
114	MP1C	Mx	.02	2

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-26.04	.5
3	MP2A	Mx	.013	.5
4	MP2A	X	0	5
5	MP2A	Z	-26.04	5
6	MP2A	Mx	.013	5
7	MP2B	X	0	.5
8	MP2B	Z	-19.199	.5
9	MP2B	Mx	.006	.5
10	MP2B	X	0	5
11	MP2B	Z	-19.199	5
12	MP2B	Mx	.006	5
13	MP2C	X	0	.5
14	MP2C	Z	-19.199	.5
15	MP2C	Mx	.006	.5
16	MP2C	X	0	5
17	MP2C	Z	-19.199	5
18	MP2C	Mx	.006	5
19	MP2A	X	0	.5
20	MP2A	Z	-26.04	.5
21	MP2A	Mx	-.013	.5
22	MP2A	X	0	5
23	MP2A	Z	-26.04	5
24	MP2A	Mx	-.013	5
25	MP2B	X	0	.5
26	MP2B	Z	-19.199	.5
27	MP2B	Mx	.012	.5
28	MP2B	X	0	5
29	MP2B	Z	-19.199	5
30	MP2B	Mx	.012	5
31	MP2C	X	0	.5
32	MP2C	Z	-19.199	.5
33	MP2C	Mx	.012	.5
34	MP2C	X	0	5
35	MP2C	Z	-19.199	5
36	MP2C	Mx	.012	5
37	M35	X	0	1
38	M35	Z	-25.758	1
39	M35	Mx	0	1
40	M37	X	0	1
41	M37	Z	-25.758	1
42	M37	Mx	0	1
43	MP1A	X	0	.5

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-15.279	.5
45	MP1A	Mx	0	.5
46	MP1A	X	0	5
47	MP1A	Z	-15.279	5
48	MP1A	Mx	0	5
49	MP1C	X	0	.5
50	MP1C	Z	-24.543	.5
51	MP1C	Mx	-.011	.5
52	MP1C	X	0	5
53	MP1C	Z	-24.543	5
54	MP1C	Mx	-.011	5
55	MP4A	X	0	.5
56	MP4A	Z	-15.279	.5
57	MP4A	Mx	0	.5
58	MP4A	X	0	5
59	MP4A	Z	-15.279	5
60	MP4A	Mx	0	5
61	MP4C	X	0	.5
62	MP4C	Z	-24.543	.5
63	MP4C	Mx	-.011	.5
64	MP4C	X	0	5
65	MP4C	Z	-24.543	5
66	MP4C	Mx	-.011	5
67	MP1B	X	0	.5
68	MP1B	Z	-27.821	.5
69	MP1B	Mx	.013	.5
70	MP1B	X	0	5
71	MP1B	Z	-27.821	5
72	MP1B	Mx	.013	5
73	MP4B	X	0	.5
74	MP4B	Z	-27.821	.5
75	MP4B	Mx	.013	.5
76	MP4B	X	0	5
77	MP4B	Z	-27.821	5
78	MP4B	Mx	.013	5
79	MP3A	X	0	2.25
80	MP3A	Z	-12.832	2.25
81	MP3A	Mx	0	2.25
82	MP3A	X	0	3.25
83	MP3A	Z	-12.832	3.25
84	MP3A	Mx	0	3.25
85	MP3B	X	0	2.25
86	MP3B	Z	-6.496	2.25
87	MP3B	Mx	.005	2.25
88	MP3B	X	0	3.25
89	MP3B	Z	-6.496	3.25
90	MP3B	Mx	.005	3.25
91	MP3C	X	0	2.25
92	MP3C	Z	-7.45	2.25
93	MP3C	Mx	-.005	2.25
94	MP3C	X	0	3.25
95	MP3C	Z	-7.45	3.25
96	MP3C	Mx	-.005	3.25
97	MP2A	X	0	2
98	MP2A	Z	-13.543	2
99	MP2A	Mx	0	2
100	MP2B	X	0	2
101	MP2B	Z	-10.057	2
102	MP2B	Mx	-.005	2

Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	0	2
104	MP2C	Z	-10.582	2
105	MP2C	Mx	.005	2
106	MP1A	X	0	2
107	MP1A	Z	-13.543	2
108	MP1A	Mx	0	2
109	MP1B	X	0	2
110	MP1B	Z	-10.197	2
111	MP1B	Mx	-.005	2
112	MP1C	X	0	2
113	MP1C	Z	-10.701	2
114	MP1C	Mx	.005	2

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	12.052	.5
2	MP2A	Z	-20.874	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	12.052	5
5	MP2A	Z	-20.874	5
6	MP2A	Mx	.004	5
7	MP2B	X	9.263	.5
8	MP2B	Z	-16.044	.5
9	MP2B	Mx	.011	.5
10	MP2B	X	9.263	5
11	MP2B	Z	-16.044	5
12	MP2B	Mx	.011	5
13	MP2C	X	9.263	.5
14	MP2C	Z	-16.044	.5
15	MP2C	Mx	.011	.5
16	MP2C	X	9.263	5
17	MP2C	Z	-16.044	5
18	MP2C	Mx	.011	5
19	MP2A	X	12.052	.5
20	MP2A	Z	-20.874	.5
21	MP2A	Mx	-.016	.5
22	MP2A	X	12.052	5
23	MP2A	Z	-20.874	5
24	MP2A	Mx	-.016	5
25	MP2B	X	9.263	.5
26	MP2B	Z	-16.044	.5
27	MP2B	Mx	.008	.5
28	MP2B	X	9.263	5
29	MP2B	Z	-16.044	5
30	MP2B	Mx	.008	5
31	MP2C	X	9.263	.5
32	MP2C	Z	-16.044	.5
33	MP2C	Mx	.008	.5
34	MP2C	X	9.263	5
35	MP2C	Z	-16.044	5
36	MP2C	Mx	.008	5
37	M35	X	11.452	1
38	M35	Z	-19.836	1
39	M35	Mx	0	1
40	M37	X	11.452	1
41	M37	Z	-19.836	1
42	M37	Mx	0	1
43	MP1A	X	9.183	.5

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-15.906	.5
45	MP1A	Mx	-.005	.5
46	MP1A	X	9.183	5
47	MP1A	Z	-15.906	5
48	MP1A	Mx	-.005	5
49	MP1C	X	9.183	.5
50	MP1C	Z	-15.906	.5
51	MP1C	Mx	-.005	.5
52	MP1C	X	9.183	5
53	MP1C	Z	-15.906	5
54	MP1C	Mx	-.005	5
55	MP4A	X	9.183	.5
56	MP4A	Z	-15.906	.5
57	MP4A	Mx	-.005	.5
58	MP4A	X	9.183	5
59	MP4A	Z	-15.906	5
60	MP4A	Mx	-.005	5
61	MP4C	X	9.183	.5
62	MP4C	Z	-15.906	.5
63	MP4C	Mx	-.005	.5
64	MP4C	X	9.183	5
65	MP4C	Z	-15.906	5
66	MP4C	Mx	-.005	5
67	MP1B	X	13.782	.5
68	MP1B	Z	-23.871	.5
69	MP1B	Mx	.014	.5
70	MP1B	X	13.782	5
71	MP1B	Z	-23.871	5
72	MP1B	Mx	.014	5
73	MP4B	X	13.782	.5
74	MP4B	Z	-23.871	.5
75	MP4B	Mx	.014	.5
76	MP4B	X	13.782	5
77	MP4B	Z	-23.871	5
78	MP4B	Mx	.014	5
79	MP3A	X	5.519	2.25
80	MP3A	Z	-9.559	2.25
81	MP3A	Mx	-.005	2.25
82	MP3A	X	5.519	3.25
83	MP3A	Z	-9.559	3.25
84	MP3A	Mx	-.005	3.25
85	MP3B	X	2.936	2.25
86	MP3B	Z	-5.086	2.25
87	MP3B	Mx	.005	2.25
88	MP3B	X	2.936	3.25
89	MP3B	Z	-5.086	3.25
90	MP3B	Mx	.005	3.25
91	MP3C	X	5.519	2.25
92	MP3C	Z	-9.559	2.25
93	MP3C	Mx	-.005	2.25
94	MP3C	X	5.519	3.25
95	MP3C	Z	-9.559	3.25
96	MP3C	Mx	-.005	3.25
97	MP2A	X	6.278	2
98	MP2A	Z	-10.874	2
99	MP2A	Mx	.003	2
100	MP2B	X	4.857	2
101	MP2B	Z	-8.413	2
102	MP2B	Mx	-.005	2

Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	6.278	2
104	MP2C	Z	-10.874	2
105	MP2C	Mx	.003	2
106	MP1A	X	6.298	2
107	MP1A	Z	-10.908	2
108	MP1A	Mx	.003	2
109	MP1B	X	4.934	2
110	MP1B	Z	-8.546	2
111	MP1B	Mx	-.005	2
112	MP1C	X	6.298	2
113	MP1C	Z	-10.908	2
114	MP1C	Mx	.003	2

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.519	.5
2	MP2A	Z	-10.115	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	17.519	5
5	MP2A	Z	-10.115	5
6	MP2A	Mx	-.004	5
7	MP2B	X	18.614	.5
8	MP2B	Z	-10.747	.5
9	MP2B	Mx	.015	.5
10	MP2B	X	18.614	5
11	MP2B	Z	-10.747	5
12	MP2B	Mx	.015	5
13	MP2C	X	18.614	.5
14	MP2C	Z	-10.747	.5
15	MP2C	Mx	.015	.5
16	MP2C	X	18.614	5
17	MP2C	Z	-10.747	5
18	MP2C	Mx	.015	5
19	MP2A	X	17.519	.5
20	MP2A	Z	-10.115	.5
21	MP2A	Mx	-.014	.5
22	MP2A	X	17.519	5
23	MP2A	Z	-10.115	5
24	MP2A	Mx	-.014	5
25	MP2B	X	18.614	.5
26	MP2B	Z	-10.747	.5
27	MP2B	Mx	.001	.5
28	MP2B	X	18.614	5
29	MP2B	Z	-10.747	5
30	MP2B	Mx	.001	5
31	MP2C	X	18.614	.5
32	MP2C	Z	-10.747	.5
33	MP2C	Mx	.001	.5
34	MP2C	X	18.614	5
35	MP2C	Z	-10.747	5
36	MP2C	Mx	.001	5
37	M35	X	18.6	1
38	M35	Z	-10.739	1
39	M35	Mx	0	1
40	M37	X	18.6	1
41	M37	Z	-10.739	1
42	M37	Mx	0	1
43	MP1A	X	21.255	.5

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-12.271	.5
45	MP1A	Mx	-.011	.5
46	MP1A	X	21.255	5
47	MP1A	Z	-12.271	5
48	MP1A	Mx	-.011	5
49	MP1C	X	13.232	.5
50	MP1C	Z	-7.639	.5
51	MP1C	Mx	0	.5
52	MP1C	X	13.232	5
53	MP1C	Z	-7.639	5
54	MP1C	Mx	0	5
55	MP4A	X	21.255	.5
56	MP4A	Z	-12.271	.5
57	MP4A	Mx	-.011	.5
58	MP4A	X	21.255	5
59	MP4A	Z	-12.271	5
60	MP4A	Mx	-.011	5
61	MP4C	X	13.232	.5
62	MP4C	Z	-7.639	.5
63	MP4C	Mx	0	.5
64	MP4C	X	13.232	5
65	MP4C	Z	-7.639	5
66	MP4C	Mx	0	5
67	MP1B	X	24.856	.5
68	MP1B	Z	-14.35	.5
69	MP1B	Mx	.011	.5
70	MP1B	X	24.856	5
71	MP1B	Z	-14.35	5
72	MP1B	Mx	.011	5
73	MP4B	X	24.856	.5
74	MP4B	Z	-14.35	.5
75	MP4B	Mx	.011	.5
76	MP4B	X	24.856	5
77	MP4B	Z	-14.35	5
78	MP4B	Mx	.011	5
79	MP3A	X	6.452	2.25
80	MP3A	Z	-3.725	2.25
81	MP3A	Mx	-.005	2.25
82	MP3A	X	6.452	3.25
83	MP3A	Z	-3.725	3.25
84	MP3A	Mx	-.005	3.25
85	MP3B	X	7.466	2.25
86	MP3B	Z	-4.311	2.25
87	MP3B	Mx	.006	2.25
88	MP3B	X	7.466	3.25
89	MP3B	Z	-4.311	3.25
90	MP3B	Mx	.006	3.25
91	MP3C	X	11.113	2.25
92	MP3C	Z	-6.416	2.25
93	MP3C	Mx	0	2.25
94	MP3C	X	11.113	3.25
95	MP3C	Z	-6.416	3.25
96	MP3C	Mx	0	3.25
97	MP2A	X	9.164	2
98	MP2A	Z	-5.291	2
99	MP2A	Mx	.005	2
100	MP2B	X	9.722	2
101	MP2B	Z	-5.613	2
102	MP2B	Mx	-.004	2

Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	11.728	2
104	MP2C	Z	-6.771	2
105	MP2C	Mx	0	2
106	MP1A	X	9.267	2
107	MP1A	Z	-5.35	2
108	MP1A	Mx	.005	2
109	MP1B	X	9.803	2
110	MP1B	Z	-5.659	2
111	MP1B	Mx	-.004	2
112	MP1C	X	11.728	2
113	MP1C	Z	-6.771	2
114	MP1C	Mx	0	2

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	18.293	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.009	.5
4	MP2A	X	18.293	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.009	5
7	MP2B	X	25.134	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.016	.5
10	MP2B	X	25.134	5
11	MP2B	Z	0	5
12	MP2B	Mx	.016	5
13	MP2C	X	25.134	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.016	.5
16	MP2C	X	25.134	5
17	MP2C	Z	0	5
18	MP2C	Mx	.016	5
19	MP2A	X	18.293	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.009	.5
22	MP2A	X	18.293	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.009	5
25	MP2B	X	25.134	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.008	.5
28	MP2B	X	25.134	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.008	5
31	MP2C	X	25.134	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.008	.5
34	MP2C	X	25.134	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.008	5
37	M35	X	22.904	1
38	M35	Z	0	1
39	M35	Mx	0	1
40	M37	X	22.904	1
41	M37	Z	0	1
42	M37	Mx	0	1
43	MP1A	X	27.631	.5

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	0	.5
45	MP1A	Mx	-.014	.5
46	MP1A	X	27.631	5
47	MP1A	Z	0	5
48	MP1A	Mx	-.014	5
49	MP1C	X	18.367	.5
50	MP1C	Z	0	.5
51	MP1C	Mx	.005	.5
52	MP1C	X	18.367	5
53	MP1C	Z	0	5
54	MP1C	Mx	.005	5
55	MP4A	X	27.631	.5
56	MP4A	Z	0	.5
57	MP4A	Mx	-.014	.5
58	MP4A	X	27.631	5
59	MP4A	Z	0	5
60	MP4A	Mx	-.014	5
61	MP4C	X	18.367	.5
62	MP4C	Z	0	.5
63	MP4C	Mx	.005	.5
64	MP4C	X	18.367	5
65	MP4C	Z	0	5
66	MP4C	Mx	.005	5
67	MP1B	X	30.096	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	.005	.5
70	MP1B	X	30.096	5
71	MP1B	Z	0	5
72	MP1B	Mx	.005	5
73	MP4B	X	30.096	.5
74	MP4B	Z	0	.5
75	MP4B	Mx	.005	.5
76	MP4B	X	30.096	5
77	MP4B	Z	0	5
78	MP4B	Mx	.005	5
79	MP3A	X	5.657	2.25
80	MP3A	Z	0	2.25
81	MP3A	Mx	-.005	2.25
82	MP3A	X	5.657	3.25
83	MP3A	Z	0	3.25
84	MP3A	Mx	-.005	3.25
85	MP3B	X	11.993	2.25
86	MP3B	Z	0	2.25
87	MP3B	Mx	.003	2.25
88	MP3B	X	11.993	3.25
89	MP3B	Z	0	3.25
90	MP3B	Mx	.003	3.25
91	MP3C	X	11.038	2.25
92	MP3C	Z	0	2.25
93	MP3C	Mx	.005	2.25
94	MP3C	X	11.038	3.25
95	MP3C	Z	0	3.25
96	MP3C	Mx	.005	3.25
97	MP2A	X	9.595	2
98	MP2A	Z	0	2
99	MP2A	Mx	.005	2
100	MP2B	X	13.081	2
101	MP2B	Z	0	2
102	MP2B	Mx	-.002	2

Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	12.556	2
104	MP2C	Z	0	2
105	MP2C	Mx	-.003	2
106	MP1A	X	9.753	2
107	MP1A	Z	0	2
108	MP1A	Mx	.005	2
109	MP1B	X	13.099	2
110	MP1B	Z	0	2
111	MP1B	Mx	-.002	2
112	MP1C	X	12.595	2
113	MP1C	Z	0	2
114	MP1C	Mx	-.003	2

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	17.519	.5
2	MP2A	Z	10.115	.5
3	MP2A	Mx	-.014	.5
4	MP2A	X	17.519	5
5	MP2A	Z	10.115	5
6	MP2A	Mx	-.014	5
7	MP2B	X	22.349	.5
8	MP2B	Z	12.903	.5
9	MP2B	Mx	.01	.5
10	MP2B	X	22.349	5
11	MP2B	Z	12.903	5
12	MP2B	Mx	.01	5
13	MP2C	X	22.349	.5
14	MP2C	Z	12.903	.5
15	MP2C	Mx	.01	.5
16	MP2C	X	22.349	5
17	MP2C	Z	12.903	5
18	MP2C	Mx	.01	5
19	MP2A	X	17.519	.5
20	MP2A	Z	10.115	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	17.519	5
23	MP2A	Z	10.115	5
24	MP2A	Mx	-.004	5
25	MP2B	X	22.349	.5
26	MP2B	Z	12.903	.5
27	MP2B	Mx	-.015	.5
28	MP2B	X	22.349	5
29	MP2B	Z	12.903	5
30	MP2B	Mx	-.015	5
31	MP2C	X	22.349	.5
32	MP2C	Z	12.903	.5
33	MP2C	Mx	-.015	.5
34	MP2C	X	22.349	5
35	MP2C	Z	12.903	5
36	MP2C	Mx	-.015	5
37	M35	X	22.307	1
38	M35	Z	12.879	1
39	M35	Mx	0	1
40	M37	X	22.307	1
41	M37	Z	12.879	1
42	M37	Mx	0	1
43	MP1A	X	21.255	.5

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	12.271	.5
45	MP1A	Mx	-.011	.5
46	MP1A	X	21.255	5
47	MP1A	Z	12.271	5
48	MP1A	Mx	-.011	5
49	MP1C	X	21.255	.5
50	MP1C	Z	12.271	.5
51	MP1C	Mx	.011	.5
52	MP1C	X	21.255	5
53	MP1C	Z	12.271	5
54	MP1C	Mx	.011	5
55	MP4A	X	21.255	.5
56	MP4A	Z	12.271	.5
57	MP4A	Mx	-.011	.5
58	MP4A	X	21.255	5
59	MP4A	Z	12.271	5
60	MP4A	Mx	-.011	5
61	MP4C	X	21.255	.5
62	MP4C	Z	12.271	.5
63	MP4C	Mx	.011	.5
64	MP4C	X	21.255	5
65	MP4C	Z	12.271	5
66	MP4C	Mx	.011	5
67	MP1B	X	26.287	.5
68	MP1B	Z	15.177	.5
69	MP1B	Mx	-.003	.5
70	MP1B	X	26.287	5
71	MP1B	Z	15.177	5
72	MP1B	Mx	-.003	5
73	MP4B	X	26.287	.5
74	MP4B	Z	15.177	.5
75	MP4B	Mx	-.003	.5
76	MP4B	X	26.287	5
77	MP4B	Z	15.177	5
78	MP4B	Mx	-.003	5
79	MP3A	X	6.452	2.25
80	MP3A	Z	3.725	2.25
81	MP3A	Mx	-.005	2.25
82	MP3A	X	6.452	3.25
83	MP3A	Z	3.725	3.25
84	MP3A	Mx	-.005	3.25
85	MP3B	X	10.925	2.25
86	MP3B	Z	6.308	2.25
87	MP3B	Mx	-.002	2.25
88	MP3B	X	10.925	3.25
89	MP3B	Z	6.308	3.25
90	MP3B	Mx	-.002	3.25
91	MP3C	X	6.452	2.25
92	MP3C	Z	3.725	2.25
93	MP3C	Mx	.005	2.25
94	MP3C	X	6.452	3.25
95	MP3C	Z	3.725	3.25
96	MP3C	Mx	.005	3.25
97	MP2A	X	9.164	2
98	MP2A	Z	5.291	2
99	MP2A	Mx	.005	2
100	MP2B	X	11.625	2
101	MP2B	Z	6.712	2
102	MP2B	Mx	.001	2

Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	9.164	2
104	MP2C	Z	5.291	2
105	MP2C	Mx	-.005	2
106	MP1A	X	9.267	2
107	MP1A	Z	5.35	2
108	MP1A	Mx	.005	2
109	MP1B	X	11.629	2
110	MP1B	Z	6.714	2
111	MP1B	Mx	.001	2
112	MP1C	X	9.267	2
113	MP1C	Z	5.35	2
114	MP1C	Mx	-.005	2

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	12.052	.5
2	MP2A	Z	20.874	.5
3	MP2A	Mx	-.016	.5
4	MP2A	X	12.052	5
5	MP2A	Z	20.874	5
6	MP2A	Mx	-.016	5
7	MP2B	X	11.42	.5
8	MP2B	Z	19.779	.5
9	MP2B	Mx	.001	.5
10	MP2B	X	11.42	5
11	MP2B	Z	19.779	5
12	MP2B	Mx	.001	5
13	MP2C	X	11.42	.5
14	MP2C	Z	19.779	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	11.42	5
17	MP2C	Z	19.779	5
18	MP2C	Mx	.001	5
19	MP2A	X	12.052	.5
20	MP2A	Z	20.874	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	12.052	5
23	MP2A	Z	20.874	5
24	MP2A	Mx	.004	5
25	MP2B	X	11.42	.5
26	MP2B	Z	19.779	.5
27	MP2B	Mx	-.016	.5
28	MP2B	X	11.42	5
29	MP2B	Z	19.779	5
30	MP2B	Mx	-.016	5
31	MP2C	X	11.42	.5
32	MP2C	Z	19.779	.5
33	MP2C	Mx	-.016	.5
34	MP2C	X	11.42	5
35	MP2C	Z	19.779	5
36	MP2C	Mx	-.016	5
37	M35	X	13.592	1
38	M35	Z	23.542	1
39	M35	Mx	0	1
40	M37	X	13.592	1
41	M37	Z	23.542	1
42	M37	Mx	0	1
43	MP1A	X	9.183	.5

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	15.906	.5
45	MP1A	Mx	-.005	.5
46	MP1A	X	9.183	5
47	MP1A	Z	15.906	5
48	MP1A	Mx	-.005	5
49	MP1C	X	13.815	.5
50	MP1C	Z	23.929	.5
51	MP1C	Mx	.014	.5
52	MP1C	X	13.815	5
53	MP1C	Z	23.929	5
54	MP1C	Mx	.014	5
55	MP4A	X	9.183	.5
56	MP4A	Z	15.906	.5
57	MP4A	Mx	-.005	.5
58	MP4A	X	9.183	5
59	MP4A	Z	15.906	5
60	MP4A	Mx	-.005	5
61	MP4C	X	13.815	.5
62	MP4C	Z	23.929	.5
63	MP4C	Mx	.014	.5
64	MP4C	X	13.815	5
65	MP4C	Z	23.929	5
66	MP4C	Mx	.014	5
67	MP1B	X	14.608	.5
68	MP1B	Z	25.302	.5
69	MP1B	Mx	-.009	.5
70	MP1B	X	14.608	5
71	MP1B	Z	25.302	5
72	MP1B	Mx	-.009	5
73	MP4B	X	14.608	.5
74	MP4B	Z	25.302	.5
75	MP4B	Mx	-.009	.5
76	MP4B	X	14.608	5
77	MP4B	Z	25.302	5
78	MP4B	Mx	-.009	5
79	MP3A	X	5.519	2.25
80	MP3A	Z	9.559	2.25
81	MP3A	Mx	-.005	2.25
82	MP3A	X	5.519	3.25
83	MP3A	Z	9.559	3.25
84	MP3A	Mx	-.005	3.25
85	MP3B	X	4.934	2.25
86	MP3B	Z	8.545	2.25
87	MP3B	Mx	-.005	2.25
88	MP3B	X	4.934	3.25
89	MP3B	Z	8.545	3.25
90	MP3B	Mx	-.005	3.25
91	MP3C	X	2.828	2.25
92	MP3C	Z	4.899	2.25
93	MP3C	Mx	.005	2.25
94	MP3C	X	2.828	3.25
95	MP3C	Z	4.899	3.25
96	MP3C	Mx	.005	3.25
97	MP2A	X	6.278	2
98	MP2A	Z	10.874	2
99	MP2A	Mx	.003	2
100	MP2B	X	5.956	2
101	MP2B	Z	10.316	2
102	MP2B	Mx	.004	2

Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	4.798	2
104	MP2C	Z	8.31	2
105	MP2C	Mx	-.005	2
106	MP1A	X	6.298	2
107	MP1A	Z	10.908	2
108	MP1A	Mx	.003	2
109	MP1B	X	5.988	2
110	MP1B	Z	10.372	2
111	MP1B	Mx	.004	2
112	MP1C	X	4.877	2
113	MP1C	Z	8.447	2
114	MP1C	Mx	-.005	2

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	26.04	.5
3	MP2A	Mx	-.013	.5
4	MP2A	X	0	5
5	MP2A	Z	26.04	5
6	MP2A	Mx	-.013	5
7	MP2B	X	0	.5
8	MP2B	Z	19.199	.5
9	MP2B	Mx	-.006	.5
10	MP2B	X	0	5
11	MP2B	Z	19.199	5
12	MP2B	Mx	-.006	5
13	MP2C	X	0	.5
14	MP2C	Z	19.199	.5
15	MP2C	Mx	-.006	.5
16	MP2C	X	0	5
17	MP2C	Z	19.199	5
18	MP2C	Mx	-.006	5
19	MP2A	X	0	.5
20	MP2A	Z	26.04	.5
21	MP2A	Mx	.013	.5
22	MP2A	X	0	5
23	MP2A	Z	26.04	5
24	MP2A	Mx	.013	5
25	MP2B	X	0	.5
26	MP2B	Z	19.199	.5
27	MP2B	Mx	-.012	.5
28	MP2B	X	0	5
29	MP2B	Z	19.199	5
30	MP2B	Mx	-.012	5
31	MP2C	X	0	.5
32	MP2C	Z	19.199	.5
33	MP2C	Mx	-.012	.5
34	MP2C	X	0	5
35	MP2C	Z	19.199	5
36	MP2C	Mx	-.012	5
37	M35	X	0	1
38	M35	Z	25.758	1
39	M35	Mx	0	1
40	M37	X	0	1
41	M37	Z	25.758	1
42	M37	Mx	0	1
43	MP1A	X	0	.5

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	15.279	.5
45	MP1A	Mx	0	.5
46	MP1A	X	0	5
47	MP1A	Z	15.279	5
48	MP1A	Mx	0	5
49	MP1C	X	0	.5
50	MP1C	Z	24.543	.5
51	MP1C	Mx	.011	.5
52	MP1C	X	0	5
53	MP1C	Z	24.543	5
54	MP1C	Mx	.011	5
55	MP4A	X	0	.5
56	MP4A	Z	15.279	.5
57	MP4A	Mx	0	.5
58	MP4A	X	0	5
59	MP4A	Z	15.279	5
60	MP4A	Mx	0	5
61	MP4C	X	0	.5
62	MP4C	Z	24.543	.5
63	MP4C	Mx	.011	.5
64	MP4C	X	0	5
65	MP4C	Z	24.543	5
66	MP4C	Mx	.011	5
67	MP1B	X	0	.5
68	MP1B	Z	27.821	.5
69	MP1B	Mx	-.013	.5
70	MP1B	X	0	5
71	MP1B	Z	27.821	5
72	MP1B	Mx	-.013	5
73	MP4B	X	0	.5
74	MP4B	Z	27.821	.5
75	MP4B	Mx	-.013	.5
76	MP4B	X	0	5
77	MP4B	Z	27.821	5
78	MP4B	Mx	-.013	5
79	MP3A	X	0	2.25
80	MP3A	Z	12.832	2.25
81	MP3A	Mx	0	2.25
82	MP3A	X	0	3.25
83	MP3A	Z	12.832	3.25
84	MP3A	Mx	0	3.25
85	MP3B	X	0	2.25
86	MP3B	Z	6.496	2.25
87	MP3B	Mx	-.005	2.25
88	MP3B	X	0	3.25
89	MP3B	Z	6.496	3.25
90	MP3B	Mx	-.005	3.25
91	MP3C	X	0	2.25
92	MP3C	Z	7.45	2.25
93	MP3C	Mx	.005	2.25
94	MP3C	X	0	3.25
95	MP3C	Z	7.45	3.25
96	MP3C	Mx	.005	3.25
97	MP2A	X	0	2
98	MP2A	Z	13.543	2
99	MP2A	Mx	0	2
100	MP2B	X	0	2
101	MP2B	Z	10.057	2
102	MP2B	Mx	.005	2

Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	0	2
104	MP2C	Z	10.582	2
105	MP2C	Mx	-.005	2
106	MP1A	X	0	2
107	MP1A	Z	13.543	2
108	MP1A	Mx	0	2
109	MP1B	X	0	2
110	MP1B	Z	10.197	2
111	MP1B	Mx	.005	2
112	MP1C	X	0	2
113	MP1C	Z	10.701	2
114	MP1C	Mx	-.005	2

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-12.052	.5
2	MP2A	Z	20.874	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	-12.052	5
5	MP2A	Z	20.874	5
6	MP2A	Mx	-.004	5
7	MP2B	X	-9.263	.5
8	MP2B	Z	16.044	.5
9	MP2B	Mx	-.011	.5
10	MP2B	X	-9.263	5
11	MP2B	Z	16.044	5
12	MP2B	Mx	-.011	5
13	MP2C	X	-9.263	.5
14	MP2C	Z	16.044	.5
15	MP2C	Mx	-.011	.5
16	MP2C	X	-9.263	5
17	MP2C	Z	16.044	5
18	MP2C	Mx	-.011	5
19	MP2A	X	-12.052	.5
20	MP2A	Z	20.874	.5
21	MP2A	Mx	.016	.5
22	MP2A	X	-12.052	5
23	MP2A	Z	20.874	5
24	MP2A	Mx	.016	5
25	MP2B	X	-9.263	.5
26	MP2B	Z	16.044	.5
27	MP2B	Mx	-.008	.5
28	MP2B	X	-9.263	5
29	MP2B	Z	16.044	5
30	MP2B	Mx	-.008	5
31	MP2C	X	-9.263	.5
32	MP2C	Z	16.044	.5
33	MP2C	Mx	-.008	.5
34	MP2C	X	-9.263	5
35	MP2C	Z	16.044	5
36	MP2C	Mx	-.008	5
37	M35	X	-11.452	1
38	M35	Z	19.836	1
39	M35	Mx	0	1
40	M37	X	-11.452	1
41	M37	Z	19.836	1
42	M37	Mx	0	1
43	MP1A	X	-9.183	.5

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	15.906	.5
45	MP1A	Mx	.005	.5
46	MP1A	X	-9.183	5
47	MP1A	Z	15.906	5
48	MP1A	Mx	.005	5
49	MP1C	X	-9.183	.5
50	MP1C	Z	15.906	.5
51	MP1C	Mx	.005	.5
52	MP1C	X	-9.183	5
53	MP1C	Z	15.906	5
54	MP1C	Mx	.005	5
55	MP4A	X	-9.183	.5
56	MP4A	Z	15.906	.5
57	MP4A	Mx	.005	.5
58	MP4A	X	-9.183	5
59	MP4A	Z	15.906	5
60	MP4A	Mx	.005	5
61	MP4C	X	-9.183	.5
62	MP4C	Z	15.906	.5
63	MP4C	Mx	.005	.5
64	MP4C	X	-9.183	5
65	MP4C	Z	15.906	5
66	MP4C	Mx	.005	5
67	MP1B	X	-13.782	.5
68	MP1B	Z	23.871	.5
69	MP1B	Mx	-.014	.5
70	MP1B	X	-13.782	5
71	MP1B	Z	23.871	5
72	MP1B	Mx	-.014	5
73	MP4B	X	-13.782	.5
74	MP4B	Z	23.871	.5
75	MP4B	Mx	-.014	.5
76	MP4B	X	-13.782	5
77	MP4B	Z	23.871	5
78	MP4B	Mx	-.014	5
79	MP3A	X	-5.519	2.25
80	MP3A	Z	9.559	2.25
81	MP3A	Mx	.005	2.25
82	MP3A	X	-5.519	3.25
83	MP3A	Z	9.559	3.25
84	MP3A	Mx	.005	3.25
85	MP3B	X	-2.936	2.25
86	MP3B	Z	5.086	2.25
87	MP3B	Mx	-.005	2.25
88	MP3B	X	-2.936	3.25
89	MP3B	Z	5.086	3.25
90	MP3B	Mx	-.005	3.25
91	MP3C	X	-5.519	2.25
92	MP3C	Z	9.559	2.25
93	MP3C	Mx	.005	2.25
94	MP3C	X	-5.519	3.25
95	MP3C	Z	9.559	3.25
96	MP3C	Mx	.005	3.25
97	MP2A	X	-6.278	2
98	MP2A	Z	10.874	2
99	MP2A	Mx	-.003	2
100	MP2B	X	-4.857	2
101	MP2B	Z	8.413	2
102	MP2B	Mx	.005	2

Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-6.278	2
104	MP2C	Z	10.874	2
105	MP2C	Mx	-.003	2
106	MP1A	X	-6.298	2
107	MP1A	Z	10.908	2
108	MP1A	Mx	-.003	2
109	MP1B	X	-4.934	2
110	MP1B	Z	8.546	2
111	MP1B	Mx	.005	2
112	MP1C	X	-6.298	2
113	MP1C	Z	10.908	2
114	MP1C	Mx	-.003	2

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.519	.5
2	MP2A	Z	10.115	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	-17.519	5
5	MP2A	Z	10.115	5
6	MP2A	Mx	.004	5
7	MP2B	X	-18.614	.5
8	MP2B	Z	10.747	.5
9	MP2B	Mx	-.015	.5
10	MP2B	X	-18.614	5
11	MP2B	Z	10.747	5
12	MP2B	Mx	-.015	5
13	MP2C	X	-18.614	.5
14	MP2C	Z	10.747	.5
15	MP2C	Mx	-.015	.5
16	MP2C	X	-18.614	5
17	MP2C	Z	10.747	5
18	MP2C	Mx	-.015	5
19	MP2A	X	-17.519	.5
20	MP2A	Z	10.115	.5
21	MP2A	Mx	.014	.5
22	MP2A	X	-17.519	5
23	MP2A	Z	10.115	5
24	MP2A	Mx	.014	5
25	MP2B	X	-18.614	.5
26	MP2B	Z	10.747	.5
27	MP2B	Mx	-.001	.5
28	MP2B	X	-18.614	5
29	MP2B	Z	10.747	5
30	MP2B	Mx	-.001	5
31	MP2C	X	-18.614	.5
32	MP2C	Z	10.747	.5
33	MP2C	Mx	-.001	.5
34	MP2C	X	-18.614	5
35	MP2C	Z	10.747	5
36	MP2C	Mx	-.001	5
37	M35	X	-18.6	1
38	M35	Z	10.739	1
39	M35	Mx	0	1
40	M37	X	-18.6	1
41	M37	Z	10.739	1
42	M37	Mx	0	1
43	MP1A	X	-21.255	.5

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	12.271	.5
45	MP1A	Mx	.011	.5
46	MP1A	X	-21.255	5
47	MP1A	Z	12.271	5
48	MP1A	Mx	.011	5
49	MP1C	X	-13.232	.5
50	MP1C	Z	7.639	.5
51	MP1C	Mx	0	.5
52	MP1C	X	-13.232	5
53	MP1C	Z	7.639	5
54	MP1C	Mx	0	5
55	MP4A	X	-21.255	.5
56	MP4A	Z	12.271	.5
57	MP4A	Mx	.011	.5
58	MP4A	X	-21.255	5
59	MP4A	Z	12.271	5
60	MP4A	Mx	.011	5
61	MP4C	X	-13.232	.5
62	MP4C	Z	7.639	.5
63	MP4C	Mx	0	.5
64	MP4C	X	-13.232	5
65	MP4C	Z	7.639	5
66	MP4C	Mx	0	5
67	MP1B	X	-24.856	.5
68	MP1B	Z	14.35	.5
69	MP1B	Mx	-.011	.5
70	MP1B	X	-24.856	5
71	MP1B	Z	14.35	5
72	MP1B	Mx	-.011	5
73	MP4B	X	-24.856	.5
74	MP4B	Z	14.35	.5
75	MP4B	Mx	-.011	.5
76	MP4B	X	-24.856	5
77	MP4B	Z	14.35	5
78	MP4B	Mx	-.011	5
79	MP3A	X	-6.452	2.25
80	MP3A	Z	3.725	2.25
81	MP3A	Mx	.005	2.25
82	MP3A	X	-6.452	3.25
83	MP3A	Z	3.725	3.25
84	MP3A	Mx	.005	3.25
85	MP3B	X	-7.466	2.25
86	MP3B	Z	4.311	2.25
87	MP3B	Mx	-.006	2.25
88	MP3B	X	-7.466	3.25
89	MP3B	Z	4.311	3.25
90	MP3B	Mx	-.006	3.25
91	MP3C	X	-11.113	2.25
92	MP3C	Z	6.416	2.25
93	MP3C	Mx	0	2.25
94	MP3C	X	-11.113	3.25
95	MP3C	Z	6.416	3.25
96	MP3C	Mx	0	3.25
97	MP2A	X	-9.164	2
98	MP2A	Z	5.291	2
99	MP2A	Mx	-.005	2
100	MP2B	X	-9.722	2
101	MP2B	Z	5.613	2
102	MP2B	Mx	.004	2

Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-11.728	2
104	MP2C	Z	6.771	2
105	MP2C	Mx	0	2
106	MP1A	X	-9.267	2
107	MP1A	Z	5.35	2
108	MP1A	Mx	-.005	2
109	MP1B	X	-9.803	2
110	MP1B	Z	5.659	2
111	MP1B	Mx	.004	2
112	MP1C	X	-11.728	2
113	MP1C	Z	6.771	2
114	MP1C	Mx	0	2

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-18.293	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.009	.5
4	MP2A	X	-18.293	5
5	MP2A	Z	0	5
6	MP2A	Mx	.009	5
7	MP2B	X	-25.134	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.016	.5
10	MP2B	X	-25.134	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.016	5
13	MP2C	X	-25.134	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.016	.5
16	MP2C	X	-25.134	5
17	MP2C	Z	0	5
18	MP2C	Mx	-.016	5
19	MP2A	X	-18.293	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.009	.5
22	MP2A	X	-18.293	5
23	MP2A	Z	0	5
24	MP2A	Mx	.009	5
25	MP2B	X	-25.134	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.008	.5
28	MP2B	X	-25.134	5
29	MP2B	Z	0	5
30	MP2B	Mx	.008	5
31	MP2C	X	-25.134	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.008	.5
34	MP2C	X	-25.134	5
35	MP2C	Z	0	5
36	MP2C	Mx	.008	5
37	M35	X	-22.904	1
38	M35	Z	0	1
39	M35	Mx	0	1
40	M37	X	-22.904	1
41	M37	Z	0	1
42	M37	Mx	0	1
43	MP1A	X	-27.631	.5

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	0	.5
45	MP1A	Mx	.014	.5
46	MP1A	X	-27.631	5
47	MP1A	Z	0	5
48	MP1A	Mx	.014	5
49	MP1C	X	-18.367	.5
50	MP1C	Z	0	.5
51	MP1C	Mx	-.005	.5
52	MP1C	X	-18.367	5
53	MP1C	Z	0	5
54	MP1C	Mx	-.005	5
55	MP4A	X	-27.631	.5
56	MP4A	Z	0	.5
57	MP4A	Mx	.014	.5
58	MP4A	X	-27.631	5
59	MP4A	Z	0	5
60	MP4A	Mx	.014	5
61	MP4C	X	-18.367	.5
62	MP4C	Z	0	.5
63	MP4C	Mx	-.005	.5
64	MP4C	X	-18.367	5
65	MP4C	Z	0	5
66	MP4C	Mx	-.005	5
67	MP1B	X	-30.096	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	-.005	.5
70	MP1B	X	-30.096	5
71	MP1B	Z	0	5
72	MP1B	Mx	-.005	5
73	MP4B	X	-30.096	.5
74	MP4B	Z	0	.5
75	MP4B	Mx	-.005	.5
76	MP4B	X	-30.096	5
77	MP4B	Z	0	5
78	MP4B	Mx	-.005	5
79	MP3A	X	-5.657	2.25
80	MP3A	Z	0	2.25
81	MP3A	Mx	.005	2.25
82	MP3A	X	-5.657	3.25
83	MP3A	Z	0	3.25
84	MP3A	Mx	.005	3.25
85	MP3B	X	-11.993	2.25
86	MP3B	Z	0	2.25
87	MP3B	Mx	-.003	2.25
88	MP3B	X	-11.993	3.25
89	MP3B	Z	0	3.25
90	MP3B	Mx	-.003	3.25
91	MP3C	X	-11.038	2.25
92	MP3C	Z	0	2.25
93	MP3C	Mx	-.005	2.25
94	MP3C	X	-11.038	3.25
95	MP3C	Z	0	3.25
96	MP3C	Mx	-.005	3.25
97	MP2A	X	-9.595	2
98	MP2A	Z	0	2
99	MP2A	Mx	-.005	2
100	MP2B	X	-13.081	2
101	MP2B	Z	0	2
102	MP2B	Mx	.002	2

Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-12.556	2
104	MP2C	Z	0	2
105	MP2C	Mx	.003	2
106	MP1A	X	-9.753	2
107	MP1A	Z	0	2
108	MP1A	Mx	-.005	2
109	MP1B	X	-13.099	2
110	MP1B	Z	0	2
111	MP1B	Mx	.002	2
112	MP1C	X	-12.595	2
113	MP1C	Z	0	2
114	MP1C	Mx	.003	2

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-17.519	.5
2	MP2A	Z	-10.115	.5
3	MP2A	Mx	.014	.5
4	MP2A	X	-17.519	5
5	MP2A	Z	-10.115	5
6	MP2A	Mx	.014	5
7	MP2B	X	-22.349	.5
8	MP2B	Z	-12.903	.5
9	MP2B	Mx	-.01	.5
10	MP2B	X	-22.349	5
11	MP2B	Z	-12.903	5
12	MP2B	Mx	-.01	5
13	MP2C	X	-22.349	.5
14	MP2C	Z	-12.903	.5
15	MP2C	Mx	-.01	.5
16	MP2C	X	-22.349	5
17	MP2C	Z	-12.903	5
18	MP2C	Mx	-.01	5
19	MP2A	X	-17.519	.5
20	MP2A	Z	-10.115	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	-17.519	5
23	MP2A	Z	-10.115	5
24	MP2A	Mx	.004	5
25	MP2B	X	-22.349	.5
26	MP2B	Z	-12.903	.5
27	MP2B	Mx	.015	.5
28	MP2B	X	-22.349	5
29	MP2B	Z	-12.903	5
30	MP2B	Mx	.015	5
31	MP2C	X	-22.349	.5
32	MP2C	Z	-12.903	.5
33	MP2C	Mx	.015	.5
34	MP2C	X	-22.349	5
35	MP2C	Z	-12.903	5
36	MP2C	Mx	.015	5
37	M35	X	-22.307	1
38	M35	Z	-12.879	1
39	M35	Mx	0	1
40	M37	X	-22.307	1
41	M37	Z	-12.879	1
42	M37	Mx	0	1
43	MP1A	X	-21.255	.5

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-12.271	.5
45	MP1A	Mx	.011	.5
46	MP1A	X	-21.255	5
47	MP1A	Z	-12.271	5
48	MP1A	Mx	.011	5
49	MP1C	X	-21.255	.5
50	MP1C	Z	-12.271	.5
51	MP1C	Mx	-.011	.5
52	MP1C	X	-21.255	5
53	MP1C	Z	-12.271	5
54	MP1C	Mx	-.011	5
55	MP4A	X	-21.255	.5
56	MP4A	Z	-12.271	.5
57	MP4A	Mx	.011	.5
58	MP4A	X	-21.255	5
59	MP4A	Z	-12.271	5
60	MP4A	Mx	.011	5
61	MP4C	X	-21.255	.5
62	MP4C	Z	-12.271	.5
63	MP4C	Mx	-.011	.5
64	MP4C	X	-21.255	5
65	MP4C	Z	-12.271	5
66	MP4C	Mx	-.011	5
67	MP1B	X	-26.287	.5
68	MP1B	Z	-15.177	.5
69	MP1B	Mx	.003	.5
70	MP1B	X	-26.287	5
71	MP1B	Z	-15.177	5
72	MP1B	Mx	.003	5
73	MP4B	X	-26.287	.5
74	MP4B	Z	-15.177	.5
75	MP4B	Mx	.003	.5
76	MP4B	X	-26.287	5
77	MP4B	Z	-15.177	5
78	MP4B	Mx	.003	5
79	MP3A	X	-6.452	2.25
80	MP3A	Z	-3.725	2.25
81	MP3A	Mx	.005	2.25
82	MP3A	X	-6.452	3.25
83	MP3A	Z	-3.725	3.25
84	MP3A	Mx	.005	3.25
85	MP3B	X	-10.925	2.25
86	MP3B	Z	-6.308	2.25
87	MP3B	Mx	.002	2.25
88	MP3B	X	-10.925	3.25
89	MP3B	Z	-6.308	3.25
90	MP3B	Mx	.002	3.25
91	MP3C	X	-6.452	2.25
92	MP3C	Z	-3.725	2.25
93	MP3C	Mx	-.005	2.25
94	MP3C	X	-6.452	3.25
95	MP3C	Z	-3.725	3.25
96	MP3C	Mx	-.005	3.25
97	MP2A	X	-9.164	2
98	MP2A	Z	-5.291	2
99	MP2A	Mx	-.005	2
100	MP2B	X	-11.625	2
101	MP2B	Z	-6.712	2
102	MP2B	Mx	-.001	2

Member Point Loads (BLC 25 : Antenna Wi (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-9.164	2
104	MP2C	Z	-5.291	2
105	MP2C	Mx	.005	2
106	MP1A	X	-9.267	2
107	MP1A	Z	-5.35	2
108	MP1A	Mx	-.005	2
109	MP1B	X	-11.629	2
110	MP1B	Z	-6.714	2
111	MP1B	Mx	-.001	2
112	MP1C	X	-9.267	2
113	MP1C	Z	-5.35	2
114	MP1C	Mx	.005	2

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-12.052	.5
2	MP2A	Z	-20.874	.5
3	MP2A	Mx	.016	.5
4	MP2A	X	-12.052	5
5	MP2A	Z	-20.874	5
6	MP2A	Mx	.016	5
7	MP2B	X	-11.42	.5
8	MP2B	Z	-19.779	.5
9	MP2B	Mx	-.001	.5
10	MP2B	X	-11.42	5
11	MP2B	Z	-19.779	5
12	MP2B	Mx	-.001	5
13	MP2C	X	-11.42	.5
14	MP2C	Z	-19.779	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	-11.42	5
17	MP2C	Z	-19.779	5
18	MP2C	Mx	-.001	5
19	MP2A	X	-12.052	.5
20	MP2A	Z	-20.874	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	-12.052	5
23	MP2A	Z	-20.874	5
24	MP2A	Mx	-.004	5
25	MP2B	X	-11.42	.5
26	MP2B	Z	-19.779	.5
27	MP2B	Mx	.016	.5
28	MP2B	X	-11.42	5
29	MP2B	Z	-19.779	5
30	MP2B	Mx	.016	5
31	MP2C	X	-11.42	.5
32	MP2C	Z	-19.779	.5
33	MP2C	Mx	.016	.5
34	MP2C	X	-11.42	5
35	MP2C	Z	-19.779	5
36	MP2C	Mx	.016	5
37	M35	X	-13.592	1
38	M35	Z	-23.542	1
39	M35	Mx	0	1
40	M37	X	-13.592	1
41	M37	Z	-23.542	1
42	M37	Mx	0	1
43	MP1A	X	-9.183	.5

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-15.906	.5
45	MP1A	Mx	.005	.5
46	MP1A	X	-9.183	5
47	MP1A	Z	-15.906	5
48	MP1A	Mx	.005	5
49	MP1C	X	-13.815	.5
50	MP1C	Z	-23.929	.5
51	MP1C	Mx	-.014	.5
52	MP1C	X	-13.815	5
53	MP1C	Z	-23.929	5
54	MP1C	Mx	-.014	5
55	MP4A	X	-9.183	.5
56	MP4A	Z	-15.906	.5
57	MP4A	Mx	.005	.5
58	MP4A	X	-9.183	5
59	MP4A	Z	-15.906	5
60	MP4A	Mx	.005	5
61	MP4C	X	-13.815	.5
62	MP4C	Z	-23.929	.5
63	MP4C	Mx	-.014	.5
64	MP4C	X	-13.815	5
65	MP4C	Z	-23.929	5
66	MP4C	Mx	-.014	5
67	MP1B	X	-14.608	.5
68	MP1B	Z	-25.302	.5
69	MP1B	Mx	.009	.5
70	MP1B	X	-14.608	5
71	MP1B	Z	-25.302	5
72	MP1B	Mx	.009	5
73	MP4B	X	-14.608	.5
74	MP4B	Z	-25.302	.5
75	MP4B	Mx	.009	.5
76	MP4B	X	-14.608	5
77	MP4B	Z	-25.302	5
78	MP4B	Mx	.009	5
79	MP3A	X	-5.519	2.25
80	MP3A	Z	-9.559	2.25
81	MP3A	Mx	.005	2.25
82	MP3A	X	-5.519	3.25
83	MP3A	Z	-9.559	3.25
84	MP3A	Mx	.005	3.25
85	MP3B	X	-4.934	2.25
86	MP3B	Z	-8.545	2.25
87	MP3B	Mx	.005	2.25
88	MP3B	X	-4.934	3.25
89	MP3B	Z	-8.545	3.25
90	MP3B	Mx	.005	3.25
91	MP3C	X	-2.828	2.25
92	MP3C	Z	-4.899	2.25
93	MP3C	Mx	-.005	2.25
94	MP3C	X	-2.828	3.25
95	MP3C	Z	-4.899	3.25
96	MP3C	Mx	-.005	3.25
97	MP2A	X	-6.278	2
98	MP2A	Z	-10.874	2
99	MP2A	Mx	-.003	2
100	MP2B	X	-5.956	2
101	MP2B	Z	-10.316	2
102	MP2B	Mx	-.004	2

Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-4.798	2
104	MP2C	Z	-8.31	2
105	MP2C	Mx	.005	2
106	MP1A	X	-6.298	2
107	MP1A	Z	-10.908	2
108	MP1A	Mx	-.003	2
109	MP1B	X	-5.988	2
110	MP1B	Z	-10.372	2
111	MP1B	Mx	-.004	2
112	MP1C	X	-4.877	2
113	MP1C	Z	-8.447	2
114	MP1C	Mx	.005	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-5.45	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	0	5
5	MP2A	Z	-5.45	5
6	MP2A	Mx	.003	5
7	MP2B	X	0	.5
8	MP2B	Z	-2.703	.5
9	MP2B	Mx	.000808	.5
10	MP2B	X	0	5
11	MP2B	Z	-2.703	5
12	MP2B	Mx	.000808	5
13	MP2C	X	0	.5
14	MP2C	Z	-2.703	.5
15	MP2C	Mx	.000808	.5
16	MP2C	X	0	5
17	MP2C	Z	-2.703	5
18	MP2C	Mx	.000808	5
19	MP2A	X	0	.5
20	MP2A	Z	-5.45	.5
21	MP2A	Mx	-.003	.5
22	MP2A	X	0	5
23	MP2A	Z	-5.45	5
24	MP2A	Mx	-.003	5
25	MP2B	X	0	.5
26	MP2B	Z	-2.703	.5
27	MP2B	Mx	.002	.5
28	MP2B	X	0	5
29	MP2B	Z	-2.703	5
30	MP2B	Mx	.002	5
31	MP2C	X	0	.5
32	MP2C	Z	-2.703	.5
33	MP2C	Mx	.002	.5
34	MP2C	X	0	5
35	MP2C	Z	-2.703	5
36	MP2C	Mx	.002	5
37	M35	X	0	1
38	M35	Z	-5.982	1
39	M35	Mx	0	1
40	M37	X	0	1
41	M37	Z	-5.982	1
42	M37	Mx	0	1
43	MP1A	X	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-4.346	.5
45	MP1A	Mx	0	.5
46	MP1A	X	0	5
47	MP1A	Z	-4.346	5
48	MP1A	Mx	0	5
49	MP1C	X	0	.5
50	MP1C	Z	-7.582	.5
51	MP1C	Mx	-.003	.5
52	MP1C	X	0	5
53	MP1C	Z	-7.582	5
54	MP1C	Mx	-.003	5
55	MP4A	X	0	.5
56	MP4A	Z	-4.346	.5
57	MP4A	Mx	0	.5
58	MP4A	X	0	5
59	MP4A	Z	-4.346	5
60	MP4A	Mx	0	5
61	MP4C	X	0	.5
62	MP4C	Z	-7.582	.5
63	MP4C	Mx	-.003	.5
64	MP4C	X	0	5
65	MP4C	Z	-7.582	5
66	MP4C	Mx	-.003	5
67	MP1B	X	0	.5
68	MP1B	Z	-8.727	.5
69	MP1B	Mx	.004	.5
70	MP1B	X	0	5
71	MP1B	Z	-8.727	5
72	MP1B	Mx	.004	5
73	MP4B	X	0	.5
74	MP4B	Z	-8.727	.5
75	MP4B	Mx	.004	.5
76	MP4B	X	0	5
77	MP4B	Z	-8.727	5
78	MP4B	Mx	.004	5
79	MP3A	X	0	2.25
80	MP3A	Z	-3.172	2.25
81	MP3A	Mx	0	2.25
82	MP3A	X	0	3.25
83	MP3A	Z	-3.172	3.25
84	MP3A	Mx	0	3.25
85	MP3B	X	0	2.25
86	MP3B	Z	-1.355	2.25
87	MP3B	Mx	.001	2.25
88	MP3B	X	0	3.25
89	MP3B	Z	-1.355	3.25
90	MP3B	Mx	.001	3.25
91	MP3C	X	0	2.25
92	MP3C	Z	-1.629	2.25
93	MP3C	Mx	-.001	2.25
94	MP3C	X	0	3.25
95	MP3C	Z	-1.629	3.25
96	MP3C	Mx	-.001	3.25
97	MP2A	X	0	2
98	MP2A	Z	-3.111	2
99	MP2A	Mx	0	2
100	MP2B	X	0	2
101	MP2B	Z	-2.207	2
102	MP2B	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	0	2
104	MP2C	Z	-2.344	2
105	MP2C	Mx	.001	2
106	MP1A	X	0	2
107	MP1A	Z	-3.754	2
108	MP1A	Mx	0	2
109	MP1B	X	0	2
110	MP1B	Z	-2.699	2
111	MP1B	Mx	-.001	2
112	MP1C	X	0	2
113	MP1C	Z	-2.858	2
114	MP1C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.336	.5
2	MP2A	Z	-4.046	.5
3	MP2A	Mx	.000855	.5
4	MP2A	X	2.336	5
5	MP2A	Z	-4.046	5
6	MP2A	Mx	.000855	5
7	MP2B	X	1.216	.5
8	MP2B	Z	-2.107	.5
9	MP2B	Mx	.001	.5
10	MP2B	X	1.216	5
11	MP2B	Z	-2.107	5
12	MP2B	Mx	.001	5
13	MP2C	X	1.216	.5
14	MP2C	Z	-2.107	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	1.216	5
17	MP2C	Z	-2.107	5
18	MP2C	Mx	.001	5
19	MP2A	X	2.336	.5
20	MP2A	Z	-4.046	.5
21	MP2A	Mx	-.003	.5
22	MP2A	X	2.336	5
23	MP2A	Z	-4.046	5
24	MP2A	Mx	-.003	5
25	MP2B	X	1.216	.5
26	MP2B	Z	-2.107	.5
27	MP2B	Mx	.000987	.5
28	MP2B	X	1.216	5
29	MP2B	Z	-2.107	5
30	MP2B	Mx	.000987	5
31	MP2C	X	1.216	.5
32	MP2C	Z	-2.107	.5
33	MP2C	Mx	.000987	.5
34	MP2C	X	1.216	5
35	MP2C	Z	-2.107	5
36	MP2C	Mx	.000987	5
37	M35	X	2.61	1
38	M35	Z	-4.52	1
39	M35	Mx	0	1
40	M37	X	2.61	1
41	M37	Z	-4.52	1
42	M37	Mx	0	1
43	MP1A	X	2.712	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-4.698	.5
45	MP1A	Mx	-.001	.5
46	MP1A	X	2.712	5
47	MP1A	Z	-4.698	5
48	MP1A	Mx	-.001	5
49	MP1C	X	2.712	.5
50	MP1C	Z	-4.698	.5
51	MP1C	Mx	-.001	.5
52	MP1C	X	2.712	5
53	MP1C	Z	-4.698	5
54	MP1C	Mx	-.001	5
55	MP4A	X	2.712	.5
56	MP4A	Z	-4.698	.5
57	MP4A	Mx	-.001	.5
58	MP4A	X	2.712	5
59	MP4A	Z	-4.698	5
60	MP4A	Mx	-.001	5
61	MP4C	X	2.712	.5
62	MP4C	Z	-4.698	.5
63	MP4C	Mx	-.001	.5
64	MP4C	X	2.712	5
65	MP4C	Z	-4.698	5
66	MP4C	Mx	-.001	5
67	MP1B	X	4.319	.5
68	MP1B	Z	-7.48	.5
69	MP1B	Mx	.004	.5
70	MP1B	X	4.319	5
71	MP1B	Z	-7.48	5
72	MP1B	Mx	.004	5
73	MP4B	X	4.319	.5
74	MP4B	Z	-7.48	.5
75	MP4B	Mx	.004	.5
76	MP4B	X	4.319	5
77	MP4B	Z	-7.48	5
78	MP4B	Mx	.004	5
79	MP3A	X	1.329	2.25
80	MP3A	Z	-2.301	2.25
81	MP3A	Mx	-.001	2.25
82	MP3A	X	1.329	3.25
83	MP3A	Z	-2.301	3.25
84	MP3A	Mx	-.001	3.25
85	MP3B	X	.588	2.25
86	MP3B	Z	-1.019	2.25
87	MP3B	Mx	.000966	2.25
88	MP3B	X	.588	3.25
89	MP3B	Z	-1.019	3.25
90	MP3B	Mx	.000966	3.25
91	MP3C	X	1.329	2.25
92	MP3C	Z	-2.301	2.25
93	MP3C	Mx	-.001	2.25
94	MP3C	X	1.329	3.25
95	MP3C	Z	-2.301	3.25
96	MP3C	Mx	-.001	3.25
97	MP2A	X	1.428	2
98	MP2A	Z	-2.473	2
99	MP2A	Mx	.000714	2
100	MP2B	X	1.059	2
101	MP2B	Z	-1.835	2
102	MP2B	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	1.428	2
104	MP2C	Z	-2.473	2
105	MP2C	Mx	.000714	2
106	MP1A	X	1.728	2
107	MP1A	Z	-2.992	2
108	MP1A	Mx	.000864	2
109	MP1B	X	1.298	2
110	MP1B	Z	-2.248	2
111	MP1B	Mx	-.001	2
112	MP1C	X	1.728	2
113	MP1C	Z	-2.992	2
114	MP1C	Mx	.000864	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.699	.5
2	MP2A	Z	-1.558	.5
3	MP2A	Mx	-.00057	.5
4	MP2A	X	2.699	5
5	MP2A	Z	-1.558	5
6	MP2A	Mx	-.00057	5
7	MP2B	X	3.139	.5
8	MP2B	Z	-1.812	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	3.139	5
11	MP2B	Z	-1.812	5
12	MP2B	Mx	.003	5
13	MP2C	X	3.139	.5
14	MP2C	Z	-1.812	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	3.139	5
17	MP2C	Z	-1.812	5
18	MP2C	Mx	.003	5
19	MP2A	X	2.699	.5
20	MP2A	Z	-1.558	.5
21	MP2A	Mx	-.002	.5
22	MP2A	X	2.699	5
23	MP2A	Z	-1.558	5
24	MP2A	Mx	-.002	5
25	MP2B	X	3.139	.5
26	MP2B	Z	-1.812	.5
27	MP2B	Mx	.000223	.5
28	MP2B	X	3.139	5
29	MP2B	Z	-1.812	5
30	MP2B	Mx	.000223	5
31	MP2C	X	3.139	.5
32	MP2C	Z	-1.812	.5
33	MP2C	Mx	.000223	.5
34	MP2C	X	3.139	5
35	MP2C	Z	-1.812	5
36	MP2C	Mx	.000223	5
37	M35	X	4.19	1
38	M35	Z	-2.419	1
39	M35	Mx	0	1
40	M37	X	4.19	1
41	M37	Z	-2.419	1
42	M37	Mx	0	1
43	MP1A	X	6.566	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-3.791	.5
45	MP1A	Mx	-.003	.5
46	MP1A	X	6.566	5
47	MP1A	Z	-3.791	5
48	MP1A	Mx	-.003	5
49	MP1C	X	3.764	.5
50	MP1C	Z	-2.173	.5
51	MP1C	Mx	0	.5
52	MP1C	X	3.764	5
53	MP1C	Z	-2.173	5
54	MP1C	Mx	0	5
55	MP4A	X	6.566	.5
56	MP4A	Z	-3.791	.5
57	MP4A	Mx	-.003	.5
58	MP4A	X	6.566	5
59	MP4A	Z	-3.791	5
60	MP4A	Mx	-.003	5
61	MP4C	X	3.764	.5
62	MP4C	Z	-2.173	.5
63	MP4C	Mx	0	.5
64	MP4C	X	3.764	5
65	MP4C	Z	-2.173	5
66	MP4C	Mx	0	5
67	MP1B	X	7.822	.5
68	MP1B	Z	-4.516	.5
69	MP1B	Mx	.003	.5
70	MP1B	X	7.822	5
71	MP1B	Z	-4.516	5
72	MP1B	Mx	.003	5
73	MP4B	X	7.822	.5
74	MP4B	Z	-4.516	.5
75	MP4B	Mx	.003	.5
76	MP4B	X	7.822	5
77	MP4B	Z	-4.516	5
78	MP4B	Mx	.003	5
79	MP3A	X	1.41	2.25
80	MP3A	Z	-.814	2.25
81	MP3A	Mx	-.001	2.25
82	MP3A	X	1.41	3.25
83	MP3A	Z	-.814	3.25
84	MP3A	Mx	-.001	3.25
85	MP3B	X	1.701	2.25
86	MP3B	Z	-.982	2.25
87	MP3B	Mx	.001	2.25
88	MP3B	X	1.701	3.25
89	MP3B	Z	-.982	3.25
90	MP3B	Mx	.001	3.25
91	MP3C	X	2.747	2.25
92	MP3C	Z	-1.586	2.25
93	MP3C	Mx	0	2.25
94	MP3C	X	2.747	3.25
95	MP3C	Z	-1.586	3.25
96	MP3C	Mx	0	3.25
97	MP2A	X	2.03	2
98	MP2A	Z	-1.172	2
99	MP2A	Mx	.001	2
100	MP2B	X	2.174	2
101	MP2B	Z	-1.255	2
102	MP2B	Mx	-.000961	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	2.695	2
104	MP2C	Z	-1.556	2
105	MP2C	Mx	0	2
106	MP1A	X	2.475	2
107	MP1A	Z	-1.429	2
108	MP1A	Mx	.001	2
109	MP1B	X	2.644	2
110	MP1B	Z	-1.526	2
111	MP1B	Mx	-.001	2
112	MP1C	X	3.251	2
113	MP1C	Z	-1.877	2
114	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.339	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	2.339	5
5	MP2A	Z	0	5
6	MP2A	Mx	-.001	5
7	MP2B	X	5.086	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	5.086	5
11	MP2B	Z	0	5
12	MP2B	Mx	.003	5
13	MP2C	X	5.086	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.003	.5
16	MP2C	X	5.086	5
17	MP2C	Z	0	5
18	MP2C	Mx	.003	5
19	MP2A	X	2.339	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.001	.5
22	MP2A	X	2.339	5
23	MP2A	Z	0	5
24	MP2A	Mx	-.001	5
25	MP2B	X	5.086	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.002	.5
28	MP2B	X	5.086	5
29	MP2B	Z	0	5
30	MP2B	Mx	-.002	5
31	MP2C	X	5.086	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.002	.5
34	MP2C	X	5.086	5
35	MP2C	Z	0	5
36	MP2C	Mx	-.002	5
37	M35	X	5.219	1
38	M35	Z	0	1
39	M35	Mx	0	1
40	M37	X	5.219	1
41	M37	Z	0	1
42	M37	Mx	0	1
43	MP1A	X	8.66	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	0	.5
45	MP1A	Mx	-.004	.5
46	MP1A	X	8.66	5
47	MP1A	Z	0	5
48	MP1A	Mx	-.004	5
49	MP1C	X	5.425	.5
50	MP1C	Z	0	.5
51	MP1C	Mx	.001	.5
52	MP1C	X	5.425	5
53	MP1C	Z	0	5
54	MP1C	Mx	.001	5
55	MP4A	X	8.66	.5
56	MP4A	Z	0	.5
57	MP4A	Mx	-.004	.5
58	MP4A	X	8.66	5
59	MP4A	Z	0	5
60	MP4A	Mx	-.004	5
61	MP4C	X	5.425	.5
62	MP4C	Z	0	.5
63	MP4C	Mx	.001	.5
64	MP4C	X	5.425	5
65	MP4C	Z	0	5
66	MP4C	Mx	.001	5
67	MP1B	X	9.515	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	.002	.5
70	MP1B	X	9.515	5
71	MP1B	Z	0	5
72	MP1B	Mx	.002	5
73	MP4B	X	9.515	.5
74	MP4B	Z	0	.5
75	MP4B	Mx	.002	.5
76	MP4B	X	9.515	5
77	MP4B	Z	0	5
78	MP4B	Mx	.002	5
79	MP3A	X	1.114	2.25
80	MP3A	Z	0	2.25
81	MP3A	Mx	-.000928	2.25
82	MP3A	X	1.114	3.25
83	MP3A	Z	0	3.25
84	MP3A	Mx	-.000928	3.25
85	MP3B	X	2.931	2.25
86	MP3B	Z	0	2.25
87	MP3B	Mx	.000835	2.25
88	MP3B	X	2.931	3.25
89	MP3B	Z	0	3.25
90	MP3B	Mx	.000835	3.25
91	MP3C	X	2.657	2.25
92	MP3C	Z	0	2.25
93	MP3C	Mx	.001	2.25
94	MP3C	X	2.657	3.25
95	MP3C	Z	0	3.25
96	MP3C	Mx	.001	3.25
97	MP2A	X	2.088	2
98	MP2A	Z	0	2
99	MP2A	Mx	.001	2
100	MP2B	X	2.992	2
101	MP2B	Z	0	2
102	MP2B	Mx	-.000512	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	2.856	2
104	MP2C	Z	0	2
105	MP2C	Mx	-.000714	2
106	MP1A	X	2.559	2
107	MP1A	Z	0	2
108	MP1A	Mx	.001	2
109	MP1B	X	3.614	2
110	MP1B	Z	0	2
111	MP1B	Mx	-.000618	2
112	MP1C	X	3.455	2
113	MP1C	Z	0	2
114	MP1C	Mx	-.000864	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.699	.5
2	MP2A	Z	1.558	.5
3	MP2A	Mx	-.002	.5
4	MP2A	X	2.699	5
5	MP2A	Z	1.558	5
6	MP2A	Mx	-.002	5
7	MP2B	X	4.639	.5
8	MP2B	Z	2.678	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	4.639	5
11	MP2B	Z	2.678	5
12	MP2B	Mx	.002	5
13	MP2C	X	4.639	.5
14	MP2C	Z	2.678	.5
15	MP2C	Mx	.002	.5
16	MP2C	X	4.639	5
17	MP2C	Z	2.678	5
18	MP2C	Mx	.002	5
19	MP2A	X	2.699	.5
20	MP2A	Z	1.558	.5
21	MP2A	Mx	-.00057	.5
22	MP2A	X	2.699	5
23	MP2A	Z	1.558	5
24	MP2A	Mx	-.00057	5
25	MP2B	X	4.639	.5
26	MP2B	Z	2.678	.5
27	MP2B	Mx	-.003	.5
28	MP2B	X	4.639	5
29	MP2B	Z	2.678	5
30	MP2B	Mx	-.003	5
31	MP2C	X	4.639	.5
32	MP2C	Z	2.678	.5
33	MP2C	Mx	-.003	.5
34	MP2C	X	4.639	5
35	MP2C	Z	2.678	5
36	MP2C	Mx	-.003	5
37	M35	X	5.181	1
38	M35	Z	2.991	1
39	M35	Mx	0	1
40	M37	X	5.181	1
41	M37	Z	2.991	1
42	M37	Mx	0	1
43	MP1A	X	6.566	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	3.791	.5
45	MP1A	Mx	-.003	.5
46	MP1A	X	6.566	5
47	MP1A	Z	3.791	5
48	MP1A	Mx	-.003	5
49	MP1C	X	6.566	.5
50	MP1C	Z	3.791	.5
51	MP1C	Mx	.003	.5
52	MP1C	X	6.566	5
53	MP1C	Z	3.791	5
54	MP1C	Mx	.003	5
55	MP4A	X	6.566	.5
56	MP4A	Z	3.791	.5
57	MP4A	Mx	-.003	.5
58	MP4A	X	6.566	5
59	MP4A	Z	3.791	5
60	MP4A	Mx	-.003	5
61	MP4C	X	6.566	.5
62	MP4C	Z	3.791	.5
63	MP4C	Mx	.003	.5
64	MP4C	X	6.566	5
65	MP4C	Z	3.791	5
66	MP4C	Mx	.003	5
67	MP1B	X	8.318	.5
68	MP1B	Z	4.802	.5
69	MP1B	Mx	-.000834	.5
70	MP1B	X	8.318	5
71	MP1B	Z	4.802	5
72	MP1B	Mx	-.000834	5
73	MP4B	X	8.318	.5
74	MP4B	Z	4.802	.5
75	MP4B	Mx	-.000834	.5
76	MP4B	X	8.318	5
77	MP4B	Z	4.802	5
78	MP4B	Mx	-.000834	5
79	MP3A	X	1.41	2.25
80	MP3A	Z	.814	2.25
81	MP3A	Mx	-.001	2.25
82	MP3A	X	1.41	3.25
83	MP3A	Z	.814	3.25
84	MP3A	Mx	-.001	3.25
85	MP3B	X	2.693	2.25
86	MP3B	Z	1.555	2.25
87	MP3B	Mx	-.00045	2.25
88	MP3B	X	2.693	3.25
89	MP3B	Z	1.555	3.25
90	MP3B	Mx	-.00045	3.25
91	MP3C	X	1.41	2.25
92	MP3C	Z	.814	2.25
93	MP3C	Mx	.001	2.25
94	MP3C	X	1.41	3.25
95	MP3C	Z	.814	3.25
96	MP3C	Mx	.001	3.25
97	MP2A	X	2.03	2
98	MP2A	Z	1.172	2
99	MP2A	Mx	.001	2
100	MP2B	X	2.668	2
101	MP2B	Z	1.54	2
102	MP2B	Mx	.000267	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	2.03	2
104	MP2C	Z	1.172	2
105	MP2C	Mx	-.001	2
106	MP1A	X	2.475	2
107	MP1A	Z	1.429	2
108	MP1A	Mx	.001	2
109	MP1B	X	3.22	2
110	MP1B	Z	1.859	2
111	MP1B	Mx	.000323	2
112	MP1C	X	2.475	2
113	MP1C	Z	1.429	2
114	MP1C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.336	.5
2	MP2A	Z	4.046	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	2.336	5
5	MP2A	Z	4.046	5
6	MP2A	Mx	-.003	5
7	MP2B	X	2.082	.5
8	MP2B	Z	3.607	.5
9	MP2B	Mx	.000256	.5
10	MP2B	X	2.082	5
11	MP2B	Z	3.607	5
12	MP2B	Mx	.000256	5
13	MP2C	X	2.082	.5
14	MP2C	Z	3.607	.5
15	MP2C	Mx	.000256	.5
16	MP2C	X	2.082	5
17	MP2C	Z	3.607	5
18	MP2C	Mx	.000256	5
19	MP2A	X	2.336	.5
20	MP2A	Z	4.046	.5
21	MP2A	Mx	.000855	.5
22	MP2A	X	2.336	5
23	MP2A	Z	4.046	5
24	MP2A	Mx	.000855	5
25	MP2B	X	2.082	.5
26	MP2B	Z	3.607	.5
27	MP2B	Mx	-.003	.5
28	MP2B	X	2.082	5
29	MP2B	Z	3.607	5
30	MP2B	Mx	-.003	5
31	MP2C	X	2.082	.5
32	MP2C	Z	3.607	.5
33	MP2C	Mx	-.003	.5
34	MP2C	X	2.082	5
35	MP2C	Z	3.607	5
36	MP2C	Mx	-.003	5
37	M35	X	3.182	1
38	M35	Z	5.511	1
39	M35	Mx	0	1
40	M37	X	3.182	1
41	M37	Z	5.511	1
42	M37	Mx	0	1
43	MP1A	X	2.712	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	4.698	.5
45	MP1A	Mx	-.001	.5
46	MP1A	X	2.712	5
47	MP1A	Z	4.698	5
48	MP1A	Mx	-.001	5
49	MP1C	X	4.33	.5
50	MP1C	Z	7.5	.5
51	MP1C	Mx	.004	.5
52	MP1C	X	4.33	5
53	MP1C	Z	7.5	5
54	MP1C	Mx	.004	5
55	MP4A	X	2.712	.5
56	MP4A	Z	4.698	.5
57	MP4A	Mx	-.001	.5
58	MP4A	X	2.712	5
59	MP4A	Z	4.698	5
60	MP4A	Mx	-.001	5
61	MP4C	X	4.33	.5
62	MP4C	Z	7.5	.5
63	MP4C	Mx	.004	.5
64	MP4C	X	4.33	5
65	MP4C	Z	7.5	5
66	MP4C	Mx	.004	5
67	MP1B	X	4.605	.5
68	MP1B	Z	7.976	.5
69	MP1B	Mx	-.003	.5
70	MP1B	X	4.605	5
71	MP1B	Z	7.976	5
72	MP1B	Mx	-.003	5
73	MP4B	X	4.605	.5
74	MP4B	Z	7.976	.5
75	MP4B	Mx	-.003	.5
76	MP4B	X	4.605	5
77	MP4B	Z	7.976	5
78	MP4B	Mx	-.003	5
79	MP3A	X	1.329	2.25
80	MP3A	Z	2.301	2.25
81	MP3A	Mx	-.001	2.25
82	MP3A	X	1.329	3.25
83	MP3A	Z	2.301	3.25
84	MP3A	Mx	-.001	3.25
85	MP3B	X	1.161	2.25
86	MP3B	Z	2.011	2.25
87	MP3B	Mx	-.001	2.25
88	MP3B	X	1.161	3.25
89	MP3B	Z	2.011	3.25
90	MP3B	Mx	-.001	3.25
91	MP3C	X	.557	2.25
92	MP3C	Z	.965	2.25
93	MP3C	Mx	.000929	2.25
94	MP3C	X	.557	3.25
95	MP3C	Z	.965	3.25
96	MP3C	Mx	.000929	3.25
97	MP2A	X	1.428	2
98	MP2A	Z	2.473	2
99	MP2A	Mx	.000714	2
100	MP2B	X	1.344	2
101	MP2B	Z	2.328	2
102	MP2B	Mx	.000864	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	1.044	2
104	MP2C	Z	1.808	2
105	MP2C	Mx	-.001	2
106	MP1A	X	1.728	2
107	MP1A	Z	2.992	2
108	MP1A	Mx	.000864	2
109	MP1B	X	1.63	2
110	MP1B	Z	2.824	2
111	MP1B	Mx	.001	2
112	MP1C	X	1.28	2
113	MP1C	Z	2.217	2
114	MP1C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	5.45	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	0	5
5	MP2A	Z	5.45	5
6	MP2A	Mx	-.003	5
7	MP2B	X	0	.5
8	MP2B	Z	2.703	.5
9	MP2B	Mx	-.000808	.5
10	MP2B	X	0	5
11	MP2B	Z	2.703	5
12	MP2B	Mx	-.000808	5
13	MP2C	X	0	.5
14	MP2C	Z	2.703	.5
15	MP2C	Mx	-.000808	.5
16	MP2C	X	0	5
17	MP2C	Z	2.703	5
18	MP2C	Mx	-.000808	5
19	MP2A	X	0	.5
20	MP2A	Z	5.45	.5
21	MP2A	Mx	.003	.5
22	MP2A	X	0	5
23	MP2A	Z	5.45	5
24	MP2A	Mx	.003	5
25	MP2B	X	0	.5
26	MP2B	Z	2.703	.5
27	MP2B	Mx	-.002	.5
28	MP2B	X	0	5
29	MP2B	Z	2.703	5
30	MP2B	Mx	-.002	5
31	MP2C	X	0	.5
32	MP2C	Z	2.703	.5
33	MP2C	Mx	-.002	.5
34	MP2C	X	0	5
35	MP2C	Z	2.703	5
36	MP2C	Mx	-.002	5
37	M35	X	0	1
38	M35	Z	5.982	1
39	M35	Mx	0	1
40	M37	X	0	1
41	M37	Z	5.982	1
42	M37	Mx	0	1
43	MP1A	X	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	4.346	.5
45	MP1A	Mx	0	.5
46	MP1A	X	0	5
47	MP1A	Z	4.346	5
48	MP1A	Mx	0	5
49	MP1C	X	0	.5
50	MP1C	Z	7.582	.5
51	MP1C	Mx	.003	.5
52	MP1C	X	0	5
53	MP1C	Z	7.582	5
54	MP1C	Mx	.003	5
55	MP4A	X	0	.5
56	MP4A	Z	4.346	.5
57	MP4A	Mx	0	.5
58	MP4A	X	0	5
59	MP4A	Z	4.346	5
60	MP4A	Mx	0	5
61	MP4C	X	0	.5
62	MP4C	Z	7.582	.5
63	MP4C	Mx	.003	.5
64	MP4C	X	0	5
65	MP4C	Z	7.582	5
66	MP4C	Mx	.003	5
67	MP1B	X	0	.5
68	MP1B	Z	8.727	.5
69	MP1B	Mx	-.004	.5
70	MP1B	X	0	5
71	MP1B	Z	8.727	5
72	MP1B	Mx	-.004	5
73	MP4B	X	0	.5
74	MP4B	Z	8.727	.5
75	MP4B	Mx	-.004	.5
76	MP4B	X	0	5
77	MP4B	Z	8.727	5
78	MP4B	Mx	-.004	5
79	MP3A	X	0	2.25
80	MP3A	Z	3.172	2.25
81	MP3A	Mx	0	2.25
82	MP3A	X	0	3.25
83	MP3A	Z	3.172	3.25
84	MP3A	Mx	0	3.25
85	MP3B	X	0	2.25
86	MP3B	Z	1.355	2.25
87	MP3B	Mx	-.001	2.25
88	MP3B	X	0	3.25
89	MP3B	Z	1.355	3.25
90	MP3B	Mx	-.001	3.25
91	MP3C	X	0	2.25
92	MP3C	Z	1.629	2.25
93	MP3C	Mx	.001	2.25
94	MP3C	X	0	3.25
95	MP3C	Z	1.629	3.25
96	MP3C	Mx	.001	3.25
97	MP2A	X	0	2
98	MP2A	Z	3.111	2
99	MP2A	Mx	0	2
100	MP2B	X	0	2
101	MP2B	Z	2.207	2
102	MP2B	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	0	2
104	MP2C	Z	2.344	2
105	MP2C	Mx	-.001	2
106	MP1A	X	0	2
107	MP1A	Z	3.754	2
108	MP1A	Mx	0	2
109	MP1B	X	0	2
110	MP1B	Z	2.699	2
111	MP1B	Mx	.001	2
112	MP1C	X	0	2
113	MP1C	Z	2.858	2
114	MP1C	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.336	.5
2	MP2A	Z	4.046	.5
3	MP2A	Mx	-.000855	.5
4	MP2A	X	-2.336	5
5	MP2A	Z	4.046	5
6	MP2A	Mx	-.000855	5
7	MP2B	X	-1.216	.5
8	MP2B	Z	2.107	.5
9	MP2B	Mx	-.001	.5
10	MP2B	X	-1.216	5
11	MP2B	Z	2.107	5
12	MP2B	Mx	-.001	5
13	MP2C	X	-1.216	.5
14	MP2C	Z	2.107	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	-1.216	5
17	MP2C	Z	2.107	5
18	MP2C	Mx	-.001	5
19	MP2A	X	-2.336	.5
20	MP2A	Z	4.046	.5
21	MP2A	Mx	.003	.5
22	MP2A	X	-2.336	5
23	MP2A	Z	4.046	5
24	MP2A	Mx	.003	5
25	MP2B	X	-1.216	.5
26	MP2B	Z	2.107	.5
27	MP2B	Mx	-.000987	.5
28	MP2B	X	-1.216	5
29	MP2B	Z	2.107	5
30	MP2B	Mx	-.000987	5
31	MP2C	X	-1.216	.5
32	MP2C	Z	2.107	.5
33	MP2C	Mx	-.000987	.5
34	MP2C	X	-1.216	5
35	MP2C	Z	2.107	5
36	MP2C	Mx	-.000987	5
37	M35	X	-2.61	1
38	M35	Z	4.52	1
39	M35	Mx	0	1
40	M37	X	-2.61	1
41	M37	Z	4.52	1
42	M37	Mx	0	1
43	MP1A	X	-2.712	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	4.698	.5
45	MP1A	Mx	.001	.5
46	MP1A	X	-2.712	5
47	MP1A	Z	4.698	5
48	MP1A	Mx	.001	5
49	MP1C	X	-2.712	.5
50	MP1C	Z	4.698	.5
51	MP1C	Mx	.001	.5
52	MP1C	X	-2.712	5
53	MP1C	Z	4.698	5
54	MP1C	Mx	.001	5
55	MP4A	X	-2.712	.5
56	MP4A	Z	4.698	.5
57	MP4A	Mx	.001	.5
58	MP4A	X	-2.712	5
59	MP4A	Z	4.698	5
60	MP4A	Mx	.001	5
61	MP4C	X	-2.712	.5
62	MP4C	Z	4.698	.5
63	MP4C	Mx	.001	.5
64	MP4C	X	-2.712	5
65	MP4C	Z	4.698	5
66	MP4C	Mx	.001	5
67	MP1B	X	-4.319	.5
68	MP1B	Z	7.48	.5
69	MP1B	Mx	-.004	.5
70	MP1B	X	-4.319	5
71	MP1B	Z	7.48	5
72	MP1B	Mx	-.004	5
73	MP4B	X	-4.319	.5
74	MP4B	Z	7.48	.5
75	MP4B	Mx	-.004	.5
76	MP4B	X	-4.319	5
77	MP4B	Z	7.48	5
78	MP4B	Mx	-.004	5
79	MP3A	X	-1.329	2.25
80	MP3A	Z	2.301	2.25
81	MP3A	Mx	.001	2.25
82	MP3A	X	-1.329	3.25
83	MP3A	Z	2.301	3.25
84	MP3A	Mx	.001	3.25
85	MP3B	X	-.588	2.25
86	MP3B	Z	1.019	2.25
87	MP3B	Mx	-.000966	2.25
88	MP3B	X	-.588	3.25
89	MP3B	Z	1.019	3.25
90	MP3B	Mx	-.000966	3.25
91	MP3C	X	-1.329	2.25
92	MP3C	Z	2.301	2.25
93	MP3C	Mx	.001	2.25
94	MP3C	X	-1.329	3.25
95	MP3C	Z	2.301	3.25
96	MP3C	Mx	.001	3.25
97	MP2A	X	-1.428	2
98	MP2A	Z	2.473	2
99	MP2A	Mx	-.000714	2
100	MP2B	X	-1.059	2
101	MP2B	Z	1.835	2
102	MP2B	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-1.428	2
104	MP2C	Z	2.473	2
105	MP2C	Mx	-.000714	2
106	MP1A	X	-1.728	2
107	MP1A	Z	2.992	2
108	MP1A	Mx	-.000864	2
109	MP1B	X	-1.298	2
110	MP1B	Z	2.248	2
111	MP1B	Mx	.001	2
112	MP1C	X	-1.728	2
113	MP1C	Z	2.992	2
114	MP1C	Mx	-.000864	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.699	.5
2	MP2A	Z	1.558	.5
3	MP2A	Mx	.00057	.5
4	MP2A	X	-2.699	5
5	MP2A	Z	1.558	5
6	MP2A	Mx	.00057	5
7	MP2B	X	-3.139	.5
8	MP2B	Z	1.812	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	-3.139	5
11	MP2B	Z	1.812	5
12	MP2B	Mx	-.003	5
13	MP2C	X	-3.139	.5
14	MP2C	Z	1.812	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	-3.139	5
17	MP2C	Z	1.812	5
18	MP2C	Mx	-.003	5
19	MP2A	X	-2.699	.5
20	MP2A	Z	1.558	.5
21	MP2A	Mx	.002	.5
22	MP2A	X	-2.699	5
23	MP2A	Z	1.558	5
24	MP2A	Mx	.002	5
25	MP2B	X	-3.139	.5
26	MP2B	Z	1.812	.5
27	MP2B	Mx	-.000223	.5
28	MP2B	X	-3.139	5
29	MP2B	Z	1.812	5
30	MP2B	Mx	-.000223	5
31	MP2C	X	-3.139	.5
32	MP2C	Z	1.812	.5
33	MP2C	Mx	-.000223	.5
34	MP2C	X	-3.139	5
35	MP2C	Z	1.812	5
36	MP2C	Mx	-.000223	5
37	M35	X	-4.19	1
38	M35	Z	2.419	1
39	M35	Mx	0	1
40	M37	X	-4.19	1
41	M37	Z	2.419	1
42	M37	Mx	0	1
43	MP1A	X	-6.566	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	3.791	.5
45	MP1A	Mx	.003	.5
46	MP1A	X	-6.566	5
47	MP1A	Z	3.791	5
48	MP1A	Mx	.003	5
49	MP1C	X	-3.764	.5
50	MP1C	Z	2.173	.5
51	MP1C	Mx	0	.5
52	MP1C	X	-3.764	5
53	MP1C	Z	2.173	5
54	MP1C	Mx	0	5
55	MP4A	X	-6.566	.5
56	MP4A	Z	3.791	.5
57	MP4A	Mx	.003	.5
58	MP4A	X	-6.566	5
59	MP4A	Z	3.791	5
60	MP4A	Mx	.003	5
61	MP4C	X	-3.764	.5
62	MP4C	Z	2.173	.5
63	MP4C	Mx	0	.5
64	MP4C	X	-3.764	5
65	MP4C	Z	2.173	5
66	MP4C	Mx	0	5
67	MP1B	X	-7.822	.5
68	MP1B	Z	4.516	.5
69	MP1B	Mx	-.003	.5
70	MP1B	X	-7.822	5
71	MP1B	Z	4.516	5
72	MP1B	Mx	-.003	5
73	MP4B	X	-7.822	.5
74	MP4B	Z	4.516	.5
75	MP4B	Mx	-.003	.5
76	MP4B	X	-7.822	5
77	MP4B	Z	4.516	5
78	MP4B	Mx	-.003	5
79	MP3A	X	-1.41	2.25
80	MP3A	Z	.814	2.25
81	MP3A	Mx	.001	2.25
82	MP3A	X	-1.41	3.25
83	MP3A	Z	.814	3.25
84	MP3A	Mx	.001	3.25
85	MP3B	X	-1.701	2.25
86	MP3B	Z	.982	2.25
87	MP3B	Mx	-.001	2.25
88	MP3B	X	-1.701	3.25
89	MP3B	Z	.982	3.25
90	MP3B	Mx	-.001	3.25
91	MP3C	X	-2.747	2.25
92	MP3C	Z	1.586	2.25
93	MP3C	Mx	0	2.25
94	MP3C	X	-2.747	3.25
95	MP3C	Z	1.586	3.25
96	MP3C	Mx	0	3.25
97	MP2A	X	-2.03	2
98	MP2A	Z	1.172	2
99	MP2A	Mx	-.001	2
100	MP2B	X	-2.174	2
101	MP2B	Z	1.255	2
102	MP2B	Mx	.000961	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-2.695	2
104	MP2C	Z	1.556	2
105	MP2C	Mx	0	2
106	MP1A	X	-2.475	2
107	MP1A	Z	1.429	2
108	MP1A	Mx	-.001	2
109	MP1B	X	-2.644	2
110	MP1B	Z	1.526	2
111	MP1B	Mx	.001	2
112	MP1C	X	-3.251	2
113	MP1C	Z	1.877	2
114	MP1C	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.339	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	-2.339	5
5	MP2A	Z	0	5
6	MP2A	Mx	.001	5
7	MP2B	X	-5.086	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	-5.086	5
11	MP2B	Z	0	5
12	MP2B	Mx	-.003	5
13	MP2C	X	-5.086	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.003	.5
16	MP2C	X	-5.086	5
17	MP2C	Z	0	5
18	MP2C	Mx	-.003	5
19	MP2A	X	-2.339	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.001	.5
22	MP2A	X	-2.339	5
23	MP2A	Z	0	5
24	MP2A	Mx	.001	5
25	MP2B	X	-5.086	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.002	.5
28	MP2B	X	-5.086	5
29	MP2B	Z	0	5
30	MP2B	Mx	.002	5
31	MP2C	X	-5.086	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.002	.5
34	MP2C	X	-5.086	5
35	MP2C	Z	0	5
36	MP2C	Mx	.002	5
37	M35	X	-5.219	1
38	M35	Z	0	1
39	M35	Mx	0	1
40	M37	X	-5.219	1
41	M37	Z	0	1
42	M37	Mx	0	1
43	MP1A	X	-8.66	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	0	.5
45	MP1A	Mx	.004	.5
46	MP1A	X	-8.66	5
47	MP1A	Z	0	5
48	MP1A	Mx	.004	5
49	MP1C	X	-5.425	.5
50	MP1C	Z	0	.5
51	MP1C	Mx	-.001	.5
52	MP1C	X	-5.425	5
53	MP1C	Z	0	5
54	MP1C	Mx	-.001	5
55	MP4A	X	-8.66	.5
56	MP4A	Z	0	.5
57	MP4A	Mx	.004	.5
58	MP4A	X	-8.66	5
59	MP4A	Z	0	5
60	MP4A	Mx	.004	5
61	MP4C	X	-5.425	.5
62	MP4C	Z	0	.5
63	MP4C	Mx	-.001	.5
64	MP4C	X	-5.425	5
65	MP4C	Z	0	5
66	MP4C	Mx	-.001	5
67	MP1B	X	-9.515	.5
68	MP1B	Z	0	.5
69	MP1B	Mx	-.002	.5
70	MP1B	X	-9.515	5
71	MP1B	Z	0	5
72	MP1B	Mx	-.002	5
73	MP4B	X	-9.515	.5
74	MP4B	Z	0	.5
75	MP4B	Mx	-.002	.5
76	MP4B	X	-9.515	5
77	MP4B	Z	0	5
78	MP4B	Mx	-.002	5
79	MP3A	X	-1.114	2.25
80	MP3A	Z	0	2.25
81	MP3A	Mx	.000928	2.25
82	MP3A	X	-1.114	3.25
83	MP3A	Z	0	3.25
84	MP3A	Mx	.000928	3.25
85	MP3B	X	-2.931	2.25
86	MP3B	Z	0	2.25
87	MP3B	Mx	-.000835	2.25
88	MP3B	X	-2.931	3.25
89	MP3B	Z	0	3.25
90	MP3B	Mx	-.000835	3.25
91	MP3C	X	-2.657	2.25
92	MP3C	Z	0	2.25
93	MP3C	Mx	-.001	2.25
94	MP3C	X	-2.657	3.25
95	MP3C	Z	0	3.25
96	MP3C	Mx	-.001	3.25
97	MP2A	X	-2.088	2
98	MP2A	Z	0	2
99	MP2A	Mx	-.001	2
100	MP2B	X	-2.992	2
101	MP2B	Z	0	2
102	MP2B	Mx	.000512	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-2.856	2
104	MP2C	Z	0	2
105	MP2C	Mx	.000714	2
106	MP1A	X	-2.559	2
107	MP1A	Z	0	2
108	MP1A	Mx	-.001	2
109	MP1B	X	-3.614	2
110	MP1B	Z	0	2
111	MP1B	Mx	.000618	2
112	MP1C	X	-3.455	2
113	MP1C	Z	0	2
114	MP1C	Mx	.000864	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.699	.5
2	MP2A	Z	-1.558	.5
3	MP2A	Mx	.002	.5
4	MP2A	X	-2.699	5
5	MP2A	Z	-1.558	5
6	MP2A	Mx	.002	5
7	MP2B	X	-4.639	.5
8	MP2B	Z	-2.678	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	-4.639	5
11	MP2B	Z	-2.678	5
12	MP2B	Mx	-.002	5
13	MP2C	X	-4.639	.5
14	MP2C	Z	-2.678	.5
15	MP2C	Mx	-.002	.5
16	MP2C	X	-4.639	5
17	MP2C	Z	-2.678	5
18	MP2C	Mx	-.002	5
19	MP2A	X	-2.699	.5
20	MP2A	Z	-1.558	.5
21	MP2A	Mx	.00057	.5
22	MP2A	X	-2.699	5
23	MP2A	Z	-1.558	5
24	MP2A	Mx	.00057	5
25	MP2B	X	-4.639	.5
26	MP2B	Z	-2.678	.5
27	MP2B	Mx	.003	.5
28	MP2B	X	-4.639	5
29	MP2B	Z	-2.678	5
30	MP2B	Mx	.003	5
31	MP2C	X	-4.639	.5
32	MP2C	Z	-2.678	.5
33	MP2C	Mx	.003	.5
34	MP2C	X	-4.639	5
35	MP2C	Z	-2.678	5
36	MP2C	Mx	.003	5
37	M35	X	-5.181	1
38	M35	Z	-2.991	1
39	M35	Mx	0	1
40	M37	X	-5.181	1
41	M37	Z	-2.991	1
42	M37	Mx	0	1
43	MP1A	X	-6.566	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-3.791	.5
45	MP1A	Mx	.003	.5
46	MP1A	X	-6.566	5
47	MP1A	Z	-3.791	5
48	MP1A	Mx	.003	5
49	MP1C	X	-6.566	.5
50	MP1C	Z	-3.791	.5
51	MP1C	Mx	-.003	.5
52	MP1C	X	-6.566	5
53	MP1C	Z	-3.791	5
54	MP1C	Mx	-.003	5
55	MP4A	X	-6.566	.5
56	MP4A	Z	-3.791	.5
57	MP4A	Mx	.003	.5
58	MP4A	X	-6.566	5
59	MP4A	Z	-3.791	5
60	MP4A	Mx	.003	5
61	MP4C	X	-6.566	.5
62	MP4C	Z	-3.791	.5
63	MP4C	Mx	-.003	.5
64	MP4C	X	-6.566	5
65	MP4C	Z	-3.791	5
66	MP4C	Mx	-.003	5
67	MP1B	X	-8.318	.5
68	MP1B	Z	-4.802	.5
69	MP1B	Mx	.000834	.5
70	MP1B	X	-8.318	5
71	MP1B	Z	-4.802	5
72	MP1B	Mx	.000834	5
73	MP4B	X	-8.318	.5
74	MP4B	Z	-4.802	.5
75	MP4B	Mx	.000834	.5
76	MP4B	X	-8.318	5
77	MP4B	Z	-4.802	5
78	MP4B	Mx	.000834	5
79	MP3A	X	-1.41	2.25
80	MP3A	Z	-.814	2.25
81	MP3A	Mx	.001	2.25
82	MP3A	X	-1.41	3.25
83	MP3A	Z	-.814	3.25
84	MP3A	Mx	.001	3.25
85	MP3B	X	-2.693	2.25
86	MP3B	Z	-1.555	2.25
87	MP3B	Mx	.00045	2.25
88	MP3B	X	-2.693	3.25
89	MP3B	Z	-1.555	3.25
90	MP3B	Mx	.00045	3.25
91	MP3C	X	-1.41	2.25
92	MP3C	Z	-.814	2.25
93	MP3C	Mx	-.001	2.25
94	MP3C	X	-1.41	3.25
95	MP3C	Z	-.814	3.25
96	MP3C	Mx	-.001	3.25
97	MP2A	X	-2.03	2
98	MP2A	Z	-1.172	2
99	MP2A	Mx	-.001	2
100	MP2B	X	-2.668	2
101	MP2B	Z	-1.54	2
102	MP2B	Mx	-.000267	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-2.03	2
104	MP2C	Z	-1.172	2
105	MP2C	Mx	.001	2
106	MP1A	X	-2.475	2
107	MP1A	Z	-1.429	2
108	MP1A	Mx	-.001	2
109	MP1B	X	-3.22	2
110	MP1B	Z	-1.859	2
111	MP1B	Mx	-.000323	2
112	MP1C	X	-2.475	2
113	MP1C	Z	-1.429	2
114	MP1C	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.336	.5
2	MP2A	Z	-4.046	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	-2.336	5
5	MP2A	Z	-4.046	5
6	MP2A	Mx	.003	5
7	MP2B	X	-2.082	.5
8	MP2B	Z	-3.607	.5
9	MP2B	Mx	-.000256	.5
10	MP2B	X	-2.082	5
11	MP2B	Z	-3.607	5
12	MP2B	Mx	-.000256	5
13	MP2C	X	-2.082	.5
14	MP2C	Z	-3.607	.5
15	MP2C	Mx	-.000256	.5
16	MP2C	X	-2.082	5
17	MP2C	Z	-3.607	5
18	MP2C	Mx	-.000256	5
19	MP2A	X	-2.336	.5
20	MP2A	Z	-4.046	.5
21	MP2A	Mx	-.000855	.5
22	MP2A	X	-2.336	5
23	MP2A	Z	-4.046	5
24	MP2A	Mx	-.000855	5
25	MP2B	X	-2.082	.5
26	MP2B	Z	-3.607	.5
27	MP2B	Mx	.003	.5
28	MP2B	X	-2.082	5
29	MP2B	Z	-3.607	5
30	MP2B	Mx	.003	5
31	MP2C	X	-2.082	.5
32	MP2C	Z	-3.607	.5
33	MP2C	Mx	.003	.5
34	MP2C	X	-2.082	5
35	MP2C	Z	-3.607	5
36	MP2C	Mx	.003	5
37	M35	X	-3.182	1
38	M35	Z	-5.511	1
39	M35	Mx	0	1
40	M37	X	-3.182	1
41	M37	Z	-5.511	1
42	M37	Mx	0	1
43	MP1A	X	-2.712	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1A	Z	-4.698	.5
45	MP1A	Mx	.001	.5
46	MP1A	X	-2.712	5
47	MP1A	Z	-4.698	5
48	MP1A	Mx	.001	5
49	MP1C	X	-4.33	.5
50	MP1C	Z	-7.5	.5
51	MP1C	Mx	-.004	.5
52	MP1C	X	-4.33	5
53	MP1C	Z	-7.5	5
54	MP1C	Mx	-.004	5
55	MP4A	X	-2.712	.5
56	MP4A	Z	-4.698	.5
57	MP4A	Mx	.001	.5
58	MP4A	X	-2.712	5
59	MP4A	Z	-4.698	5
60	MP4A	Mx	.001	5
61	MP4C	X	-4.33	.5
62	MP4C	Z	-7.5	.5
63	MP4C	Mx	-.004	.5
64	MP4C	X	-4.33	5
65	MP4C	Z	-7.5	5
66	MP4C	Mx	-.004	5
67	MP1B	X	-4.605	.5
68	MP1B	Z	-7.976	.5
69	MP1B	Mx	.003	.5
70	MP1B	X	-4.605	5
71	MP1B	Z	-7.976	5
72	MP1B	Mx	.003	5
73	MP4B	X	-4.605	.5
74	MP4B	Z	-7.976	.5
75	MP4B	Mx	.003	.5
76	MP4B	X	-4.605	5
77	MP4B	Z	-7.976	5
78	MP4B	Mx	.003	5
79	MP3A	X	-1.329	2.25
80	MP3A	Z	-2.301	2.25
81	MP3A	Mx	.001	2.25
82	MP3A	X	-1.329	3.25
83	MP3A	Z	-2.301	3.25
84	MP3A	Mx	.001	3.25
85	MP3B	X	-1.161	2.25
86	MP3B	Z	-2.011	2.25
87	MP3B	Mx	.001	2.25
88	MP3B	X	-1.161	3.25
89	MP3B	Z	-2.011	3.25
90	MP3B	Mx	.001	3.25
91	MP3C	X	-.557	2.25
92	MP3C	Z	-.965	2.25
93	MP3C	Mx	-.000929	2.25
94	MP3C	X	-.557	3.25
95	MP3C	Z	-.965	3.25
96	MP3C	Mx	-.000929	3.25
97	MP2A	X	-1.428	2
98	MP2A	Z	-2.473	2
99	MP2A	Mx	-.000714	2
100	MP2B	X	-1.344	2
101	MP2B	Z	-2.328	2
102	MP2B	Mx	-.000864	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2C	X	-1.044	2
104	MP2C	Z	-1.808	2
105	MP2C	Mx	.001	2
106	MP1A	X	-1.728	2
107	MP1A	Z	-2.992	2
108	MP1A	Mx	-.000864	2
109	MP1B	X	-1.63	2
110	MP1B	Z	-2.824	2
111	MP1B	Mx	-.001	2
112	MP1C	X	-1.28	2
113	MP1C	Z	-2.217	2
114	MP1C	Mx	.001	2

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M12	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M13	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	0

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-.881	.5
2	MP2A	My	-.00044	.5
3	MP2A	Mz	-.00044	.5
4	MP2A	Y	-.881	5
5	MP2A	My	-.00044	5
6	MP2A	Mz	-.00044	5
7	MP2B	Y	-.881	.5
8	MP2B	My	.000565	.5
9	MP2B	Mz	-.000263	.5
10	MP2B	Y	-.881	5
11	MP2B	My	.000565	5
12	MP2B	Mz	-.000263	5
13	MP2C	Y	-.881	.5
14	MP2C	My	.000565	.5
15	MP2C	Mz	-.000263	.5
16	MP2C	Y	-.881	5
17	MP2C	My	.000565	5
18	MP2C	Mz	-.000263	5
19	MP2A	Y	-.881	.5
20	MP2A	My	-.00044	.5
21	MP2A	Mz	.00044	.5
22	MP2A	Y	-.881	5
23	MP2A	My	-.00044	5
24	MP2A	Mz	.00044	5
25	MP2B	Y	-.881	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2B	My	-.000263	.5
27	MP2B	Mz	-.000565	.5
28	MP2B	Y	-.881	5
29	MP2B	My	-.000263	5
30	MP2B	Mz	-.000565	5
31	MP2C	Y	-.881	.5
32	MP2C	My	-.000263	.5
33	MP2C	Mz	-.000565	.5
34	MP2C	Y	-.881	5
35	MP2C	My	-.000263	5
36	MP2C	Mz	-.000565	5
37	M35	Y	-1.29	1
38	M35	My	0	1
39	M35	Mz	0	1
40	M37	Y	-1.29	1
41	M37	My	0	1
42	M37	Mz	0	1
43	MP1A	Y	-.423	.5
44	MP1A	My	-.000212	.5
45	MP1A	Mz	0	.5
46	MP1A	Y	-.423	5
47	MP1A	My	-.000212	5
48	MP1A	Mz	0	5
49	MP1C	Y	-.423	.5
50	MP1C	My	.000106	.5
51	MP1C	Mz	.000183	.5
52	MP1C	Y	-.423	5
53	MP1C	My	.000106	5
54	MP1C	Mz	.000183	5
55	MP4A	Y	-.423	.5
56	MP4A	My	-.000212	.5
57	MP4A	Mz	0	.5
58	MP4A	Y	-.423	5
59	MP4A	My	-.000212	5
60	MP4A	Mz	0	5
61	MP4C	Y	-.423	.5
62	MP4C	My	.000106	.5
63	MP4C	Mz	.000183	.5
64	MP4C	Y	-.423	5
65	MP4C	My	.000106	5
66	MP4C	Mz	.000183	5
67	MP1B	Y	-.544	.5
68	MP1B	My	9.3e-5	.5
69	MP1B	Mz	-.000256	.5
70	MP1B	Y	-.544	5
71	MP1B	My	9.3e-5	5
72	MP1B	Mz	-.000256	5
73	MP4B	Y	-.544	.5
74	MP4B	My	9.3e-5	.5
75	MP4B	Mz	-.000256	.5
76	MP4B	Y	-.544	5
77	MP4B	My	9.3e-5	5
78	MP4B	Mz	-.000256	5
79	MP3A	Y	-1.155	2.25
80	MP3A	My	-.000963	2.25
81	MP3A	Mz	0	2.25
82	MP3A	Y	-1.155	3.25
83	MP3A	My	-.000963	3.25
84	MP3A	Mz	0	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP3B	Y	-1.155	2.25
86	MP3B	My	.000329	2.25
87	MP3B	Mz	-.000905	2.25
88	MP3B	Y	-1.155	3.25
89	MP3B	My	.000329	3.25
90	MP3B	Mz	-.000905	3.25
91	MP3C	Y	-1.155	2.25
92	MP3C	My	.000481	2.25
93	MP3C	Mz	.000834	2.25
94	MP3C	Y	-1.155	3.25
95	MP3C	My	.000481	3.25
96	MP3C	Mz	.000834	3.25
97	MP2A	Y	-3.012	2
98	MP2A	My	.002	2
99	MP2A	Mz	0	2
100	MP2B	Y	-3.012	2
101	MP2B	My	-.000515	2
102	MP2B	Mz	.001	2
103	MP2C	Y	-3.012	2
104	MP2C	My	-.000753	2
105	MP2C	Mz	-.001	2
106	MP1A	Y	-3.189	2
107	MP1A	My	.002	2
108	MP1A	Mz	0	2
109	MP1B	Y	-3.189	2
110	MP1B	My	-.000545	2
111	MP1B	Mz	.001	2
112	MP1C	Y	-3.189	2
113	MP1C	My	-.000797	2
114	MP1C	Mz	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Z	-2.202	.5
2	MP2A	Mx	.001	.5
3	MP2A	Z	-2.202	5
4	MP2A	Mx	.001	5
5	MP2B	Z	-2.202	.5
6	MP2B	Mx	.000658	.5
7	MP2B	Z	-2.202	5
8	MP2B	Mx	.000658	5
9	MP2C	Z	-2.202	.5
10	MP2C	Mx	.000658	.5
11	MP2C	Z	-2.202	5
12	MP2C	Mx	.000658	5
13	MP2A	Z	-2.202	.5
14	MP2A	Mx	-.001	.5
15	MP2A	Z	-2.202	5
16	MP2A	Mx	-.001	5
17	MP2B	Z	-2.202	.5
18	MP2B	Mx	.001	.5
19	MP2B	Z	-2.202	5
20	MP2B	Mx	.001	5
21	MP2C	Z	-2.202	.5
22	MP2C	Mx	.001	.5
23	MP2C	Z	-2.202	5
24	MP2C	Mx	.001	5
25	M35	Z	-3.226	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	M35	Mx	0	1
27	M37	Z	-3.226	1
28	M37	Mx	0	1
29	MP1A	Z	-1.058	.5
30	MP1A	Mx	0	.5
31	MP1A	Z	-1.058	5
32	MP1A	Mx	0	5
33	MP1C	Z	-1.058	.5
34	MP1C	Mx	-.000458	.5
35	MP1C	Z	-1.058	5
36	MP1C	Mx	-.000458	5
37	MP4A	Z	-1.058	.5
38	MP4A	Mx	0	.5
39	MP4A	Z	-1.058	5
40	MP4A	Mx	0	5
41	MP4C	Z	-1.058	.5
42	MP4C	Mx	-.000458	.5
43	MP4C	Z	-1.058	5
44	MP4C	Mx	-.000458	5
45	MP1B	Z	-1.361	.5
46	MP1B	Mx	.000639	.5
47	MP1B	Z	-1.361	5
48	MP1B	Mx	.000639	5
49	MP4B	Z	-1.361	.5
50	MP4B	Mx	.000639	.5
51	MP4B	Z	-1.361	5
52	MP4B	Mx	.000639	5
53	MP3A	Z	-2.888	2.25
54	MP3A	Mx	0	2.25
55	MP3A	Z	-2.888	3.25
56	MP3A	Mx	0	3.25
57	MP3B	Z	-2.888	2.25
58	MP3B	Mx	.002	2.25
59	MP3B	Z	-2.888	3.25
60	MP3B	Mx	.002	3.25
61	MP3C	Z	-2.888	2.25
62	MP3C	Mx	-.002	2.25
63	MP3C	Z	-2.888	3.25
64	MP3C	Mx	-.002	3.25
65	MP2A	Z	-7.53	2
66	MP2A	Mx	0	2
67	MP2B	Z	-7.53	2
68	MP2B	Mx	-.004	2
69	MP2C	Z	-7.53	2
70	MP2C	Mx	.003	2
71	MP1A	Z	-7.973	2
72	MP1A	Mx	0	2
73	MP1B	Z	-7.973	2
74	MP1B	Mx	-.004	2
75	MP1C	Z	-7.973	2
76	MP1C	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.202	.5
2	MP2A	Mx	-.001	.5
3	MP2A	X	2.202	5
4	MP2A	Mx	-.001	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2B	X	2.202	.5
6	MP2B	Mx	.001	.5
7	MP2B	X	2.202	5
8	MP2B	Mx	.001	5
9	MP2C	X	2.202	.5
10	MP2C	Mx	.001	.5
11	MP2C	X	2.202	5
12	MP2C	Mx	.001	5
13	MP2A	X	2.202	.5
14	MP2A	Mx	-.001	.5
15	MP2A	X	2.202	5
16	MP2A	Mx	-.001	5
17	MP2B	X	2.202	.5
18	MP2B	Mx	-.000658	.5
19	MP2B	X	2.202	5
20	MP2B	Mx	-.000658	5
21	MP2C	X	2.202	.5
22	MP2C	Mx	-.000658	.5
23	MP2C	X	2.202	5
24	MP2C	Mx	-.000658	5
25	M35	X	3.226	1
26	M35	Mx	0	1
27	M37	X	3.226	1
28	M37	Mx	0	1
29	MP1A	X	1.058	.5
30	MP1A	Mx	-.000529	.5
31	MP1A	X	1.058	5
32	MP1A	Mx	-.000529	5
33	MP1C	X	1.058	.5
34	MP1C	Mx	.000265	.5
35	MP1C	X	1.058	5
36	MP1C	Mx	.000265	5
37	MP4A	X	1.058	.5
38	MP4A	Mx	-.000529	.5
39	MP4A	X	1.058	5
40	MP4A	Mx	-.000529	5
41	MP4C	X	1.058	.5
42	MP4C	Mx	.000265	.5
43	MP4C	X	1.058	5
44	MP4C	Mx	.000265	5
45	MP1B	X	1.361	.5
46	MP1B	Mx	.000233	.5
47	MP1B	X	1.361	5
48	MP1B	Mx	.000233	5
49	MP4B	X	1.361	.5
50	MP4B	Mx	.000233	.5
51	MP4B	X	1.361	5
52	MP4B	Mx	.000233	5
53	MP3A	X	2.888	2.25
54	MP3A	Mx	-.002	2.25
55	MP3A	X	2.888	3.25
56	MP3A	Mx	-.002	3.25
57	MP3B	X	2.888	2.25
58	MP3B	Mx	.000823	2.25
59	MP3B	X	2.888	3.25
60	MP3B	Mx	.000823	3.25
61	MP3C	X	2.888	2.25
62	MP3C	Mx	.001	2.25
63	MP3C	X	2.888	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP3C	Mx	.001	3.25
65	MP2A	X	7.53	2
66	MP2A	Mx	.004	2
67	MP2B	X	7.53	2
68	MP2B	Mx	-.001	2
69	MP2C	X	7.53	2
70	MP2C	Mx	-.002	2
71	MP1A	X	7.973	2
72	MP1A	Mx	.004	2
73	MP1B	X	7.973	2
74	MP1B	Mx	-.001	2
75	MP1C	X	7.973	2
76	MP1C	Mx	-.002	2

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-15.33	-15.33	0	%100
2	M2	Y	-15.33	-15.33	0	%100
3	M3	Y	-15.33	-15.33	0	%100
4	M7	Y	-15.33	-15.33	0	%100
5	MP4A	Y	-8.496	-8.496	0	%100
6	MP3A	Y	-8.496	-8.496	0	%100
7	MP2A	Y	-8.496	-8.496	0	%100
8	MP1A	Y	-8.496	-8.496	0	%100
9	MP4C	Y	-8.496	-8.496	0	%100
10	MP3C	Y	-8.496	-8.496	0	%100
11	MP2C	Y	-8.496	-8.496	0	%100
12	MP1C	Y	-8.496	-8.496	0	%100
13	MP4B	Y	-8.496	-8.496	0	%100
14	MP3B	Y	-8.496	-8.496	0	%100
15	MP2B	Y	-8.496	-8.496	0	%100
16	MP1B	Y	-8.496	-8.496	0	%100
17	M35	Y	-8.496	-8.496	0	%100
18	M37	Y	-8.496	-8.496	0	%100
19	M36A	Y	-15.33	-15.33	0	%100
20	M37A	Y	-15.33	-15.33	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-13.383	-13.383	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.346	-3.346	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-3.346	-3.346	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-7.628	-7.628	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-7.628	-7.628	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	-7.628	-7.628	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-7.628	-7.628	0	%100
17	MP4C	X	0	0	0	%100
18	MP4C	Z	-7.628	-7.628	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
19	MP3C	X	0	0	0	%100
20	MP3C	Z	-7.628	-7.628	0	%100
21	MP2C	X	0	0	0	%100
22	MP2C	Z	-7.628	-7.628	0	%100
23	MP1C	X	0	0	0	%100
24	MP1C	Z	-7.628	-7.628	0	%100
25	MP4B	X	0	0	0	%100
26	MP4B	Z	-7.628	-7.628	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	-7.628	-7.628	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	-7.628	-7.628	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	-7.628	-7.628	0	%100
33	M35	X	0	0	0	%100
34	M35	Z	-6.595	-6.595	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	-6.595	-6.595	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	-9.689	-9.689	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	-9.689	-9.689	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	5.019	5.019	0	%100
2	M1	Z	-8.692	-8.692	0	%100
3	M2	X	5.019	5.019	0	%100
4	M2	Z	-8.692	-8.692	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	1.615	1.615	0	%100
8	M7	Z	-2.797	-2.797	0	%100
9	MP4A	X	3.814	3.814	0	%100
10	MP4A	Z	-6.606	-6.606	0	%100
11	MP3A	X	3.814	3.814	0	%100
12	MP3A	Z	-6.606	-6.606	0	%100
13	MP2A	X	3.814	3.814	0	%100
14	MP2A	Z	-6.606	-6.606	0	%100
15	MP1A	X	3.814	3.814	0	%100
16	MP1A	Z	-6.606	-6.606	0	%100
17	MP4C	X	3.814	3.814	0	%100
18	MP4C	Z	-6.606	-6.606	0	%100
19	MP3C	X	3.814	3.814	0	%100
20	MP3C	Z	-6.606	-6.606	0	%100
21	MP2C	X	3.814	3.814	0	%100
22	MP2C	Z	-6.606	-6.606	0	%100
23	MP1C	X	3.814	3.814	0	%100
24	MP1C	Z	-6.606	-6.606	0	%100
25	MP4B	X	3.814	3.814	0	%100
26	MP4B	Z	-6.606	-6.606	0	%100
27	MP3B	X	3.814	3.814	0	%100
28	MP3B	Z	-6.606	-6.606	0	%100
29	MP2B	X	3.814	3.814	0	%100
30	MP2B	Z	-6.606	-6.606	0	%100
31	MP1B	X	3.814	3.814	0	%100
32	MP1B	Z	-6.606	-6.606	0	%100
33	M35	X	3.297	3.297	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
34	M35	Z	-5.711	-5.711	0	%100
35	M37	X	3.297	3.297	0	%100
36	M37	Z	-5.711	-5.711	0	%100
37	M36A	X	1.615	1.615	0	%100
38	M36A	Z	-2.797	-2.797	0	%100
39	M37A	X	6.459	6.459	0	%100
40	M37A	Z	-11.188	-11.188	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.897	2.897	0	%100
2	M1	Z	-1.673	-1.673	0	%100
3	M2	X	11.59	11.59	0	%100
4	M2	Z	-6.691	-6.691	0	%100
5	M3	X	2.897	2.897	0	%100
6	M3	Z	-1.673	-1.673	0	%100
7	M7	X	8.391	8.391	0	%100
8	M7	Z	-4.845	-4.845	0	%100
9	MP4A	X	6.606	6.606	0	%100
10	MP4A	Z	-3.814	-3.814	0	%100
11	MP3A	X	6.606	6.606	0	%100
12	MP3A	Z	-3.814	-3.814	0	%100
13	MP2A	X	6.606	6.606	0	%100
14	MP2A	Z	-3.814	-3.814	0	%100
15	MP1A	X	6.606	6.606	0	%100
16	MP1A	Z	-3.814	-3.814	0	%100
17	MP4C	X	6.606	6.606	0	%100
18	MP4C	Z	-3.814	-3.814	0	%100
19	MP3C	X	6.606	6.606	0	%100
20	MP3C	Z	-3.814	-3.814	0	%100
21	MP2C	X	6.606	6.606	0	%100
22	MP2C	Z	-3.814	-3.814	0	%100
23	MP1C	X	6.606	6.606	0	%100
24	MP1C	Z	-3.814	-3.814	0	%100
25	MP4B	X	6.606	6.606	0	%100
26	MP4B	Z	-3.814	-3.814	0	%100
27	MP3B	X	6.606	6.606	0	%100
28	MP3B	Z	-3.814	-3.814	0	%100
29	MP2B	X	6.606	6.606	0	%100
30	MP2B	Z	-3.814	-3.814	0	%100
31	MP1B	X	6.606	6.606	0	%100
32	MP1B	Z	-3.814	-3.814	0	%100
33	M35	X	5.711	5.711	0	%100
34	M35	Z	-3.297	-3.297	0	%100
35	M37	X	5.711	5.711	0	%100
36	M37	Z	-3.297	-3.297	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	8.391	8.391	0	%100
40	M37A	Z	-4.845	-4.845	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	10.037	10.037	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	10.037	10.037	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
6	M3	Z	0	0	0	%100
7	M7	X	12.919	12.919	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	7.628	7.628	0	%100
10	MP4A	Z	0	0	0	%100
11	MP3A	X	7.628	7.628	0	%100
12	MP3A	Z	0	0	0	%100
13	MP2A	X	7.628	7.628	0	%100
14	MP2A	Z	0	0	0	%100
15	MP1A	X	7.628	7.628	0	%100
16	MP1A	Z	0	0	0	%100
17	MP4C	X	7.628	7.628	0	%100
18	MP4C	Z	0	0	0	%100
19	MP3C	X	7.628	7.628	0	%100
20	MP3C	Z	0	0	0	%100
21	MP2C	X	7.628	7.628	0	%100
22	MP2C	Z	0	0	0	%100
23	MP1C	X	7.628	7.628	0	%100
24	MP1C	Z	0	0	0	%100
25	MP4B	X	7.628	7.628	0	%100
26	MP4B	Z	0	0	0	%100
27	MP3B	X	7.628	7.628	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	7.628	7.628	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	7.628	7.628	0	%100
32	MP1B	Z	0	0	0	%100
33	M35	X	6.595	6.595	0	%100
34	M35	Z	0	0	0	%100
35	M37	X	6.595	6.595	0	%100
36	M37	Z	0	0	0	%100
37	M36A	X	3.23	3.23	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	3.23	3.23	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.897	2.897	0	%100
2	M1	Z	1.673	1.673	0	%100
3	M2	X	2.897	2.897	0	%100
4	M2	Z	1.673	1.673	0	%100
5	M3	X	11.59	11.59	0	%100
6	M3	Z	6.691	6.691	0	%100
7	M7	X	8.391	8.391	0	%100
8	M7	Z	4.845	4.845	0	%100
9	MP4A	X	6.606	6.606	0	%100
10	MP4A	Z	3.814	3.814	0	%100
11	MP3A	X	6.606	6.606	0	%100
12	MP3A	Z	3.814	3.814	0	%100
13	MP2A	X	6.606	6.606	0	%100
14	MP2A	Z	3.814	3.814	0	%100
15	MP1A	X	6.606	6.606	0	%100
16	MP1A	Z	3.814	3.814	0	%100
17	MP4C	X	6.606	6.606	0	%100
18	MP4C	Z	3.814	3.814	0	%100
19	MP3C	X	6.606	6.606	0	%100
20	MP3C	Z	3.814	3.814	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
21	MP2C	X	6.606	6.606	0	%100
22	MP2C	Z	3.814	3.814	0	%100
23	MP1C	X	6.606	6.606	0	%100
24	MP1C	Z	3.814	3.814	0	%100
25	MP4B	X	6.606	6.606	0	%100
26	MP4B	Z	3.814	3.814	0	%100
27	MP3B	X	6.606	6.606	0	%100
28	MP3B	Z	3.814	3.814	0	%100
29	MP2B	X	6.606	6.606	0	%100
30	MP2B	Z	3.814	3.814	0	%100
31	MP1B	X	6.606	6.606	0	%100
32	MP1B	Z	3.814	3.814	0	%100
33	M35	X	5.711	5.711	0	%100
34	M35	Z	3.297	3.297	0	%100
35	M37	X	5.711	5.711	0	%100
36	M37	Z	3.297	3.297	0	%100
37	M36A	X	8.391	8.391	0	%100
38	M36A	Z	4.845	4.845	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	5.019	5.019	0	%100
2	M1	Z	8.692	8.692	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	5.019	5.019	0	%100
6	M3	Z	8.692	8.692	0	%100
7	M7	X	1.615	1.615	0	%100
8	M7	Z	2.797	2.797	0	%100
9	MP4A	X	3.814	3.814	0	%100
10	MP4A	Z	6.606	6.606	0	%100
11	MP3A	X	3.814	3.814	0	%100
12	MP3A	Z	6.606	6.606	0	%100
13	MP2A	X	3.814	3.814	0	%100
14	MP2A	Z	6.606	6.606	0	%100
15	MP1A	X	3.814	3.814	0	%100
16	MP1A	Z	6.606	6.606	0	%100
17	MP4C	X	3.814	3.814	0	%100
18	MP4C	Z	6.606	6.606	0	%100
19	MP3C	X	3.814	3.814	0	%100
20	MP3C	Z	6.606	6.606	0	%100
21	MP2C	X	3.814	3.814	0	%100
22	MP2C	Z	6.606	6.606	0	%100
23	MP1C	X	3.814	3.814	0	%100
24	MP1C	Z	6.606	6.606	0	%100
25	MP4B	X	3.814	3.814	0	%100
26	MP4B	Z	6.606	6.606	0	%100
27	MP3B	X	3.814	3.814	0	%100
28	MP3B	Z	6.606	6.606	0	%100
29	MP2B	X	3.814	3.814	0	%100
30	MP2B	Z	6.606	6.606	0	%100
31	MP1B	X	3.814	3.814	0	%100
32	MP1B	Z	6.606	6.606	0	%100
33	M35	X	3.297	3.297	0	%100
34	M35	Z	5.711	5.711	0	%100
35	M37	X	3.297	3.297	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
36	M37	Z	5.711	5.711	0	%100
37	M36A	X	6.459	6.459	0	%100
38	M36A	Z	11.188	11.188	0	%100
39	M37A	X	1.615	1.615	0	%100
40	M37A	Z	2.797	2.797	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	13.383	13.383	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.346	3.346	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	3.346	3.346	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	7.628	7.628	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	7.628	7.628	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	7.628	7.628	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	7.628	7.628	0	%100
17	MP4C	X	0	0	0	%100
18	MP4C	Z	7.628	7.628	0	%100
19	MP3C	X	0	0	0	%100
20	MP3C	Z	7.628	7.628	0	%100
21	MP2C	X	0	0	0	%100
22	MP2C	Z	7.628	7.628	0	%100
23	MP1C	X	0	0	0	%100
24	MP1C	Z	7.628	7.628	0	%100
25	MP4B	X	0	0	0	%100
26	MP4B	Z	7.628	7.628	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	7.628	7.628	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	7.628	7.628	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	7.628	7.628	0	%100
33	M35	X	0	0	0	%100
34	M35	Z	6.595	6.595	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	6.595	6.595	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	9.689	9.689	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	9.689	9.689	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-5.019	-5.019	0	%100
2	M1	Z	8.692	8.692	0	%100
3	M2	X	-5.019	-5.019	0	%100
4	M2	Z	8.692	8.692	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-1.615	-1.615	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
8	M7	Z	2.797	2.797	0	%100
9	MP4A	X	-3.814	-3.814	0	%100
10	MP4A	Z	6.606	6.606	0	%100
11	MP3A	X	-3.814	-3.814	0	%100
12	MP3A	Z	6.606	6.606	0	%100
13	MP2A	X	-3.814	-3.814	0	%100
14	MP2A	Z	6.606	6.606	0	%100
15	MP1A	X	-3.814	-3.814	0	%100
16	MP1A	Z	6.606	6.606	0	%100
17	MP4C	X	-3.814	-3.814	0	%100
18	MP4C	Z	6.606	6.606	0	%100
19	MP3C	X	-3.814	-3.814	0	%100
20	MP3C	Z	6.606	6.606	0	%100
21	MP2C	X	-3.814	-3.814	0	%100
22	MP2C	Z	6.606	6.606	0	%100
23	MP1C	X	-3.814	-3.814	0	%100
24	MP1C	Z	6.606	6.606	0	%100
25	MP4B	X	-3.814	-3.814	0	%100
26	MP4B	Z	6.606	6.606	0	%100
27	MP3B	X	-3.814	-3.814	0	%100
28	MP3B	Z	6.606	6.606	0	%100
29	MP2B	X	-3.814	-3.814	0	%100
30	MP2B	Z	6.606	6.606	0	%100
31	MP1B	X	-3.814	-3.814	0	%100
32	MP1B	Z	6.606	6.606	0	%100
33	M35	X	-3.297	-3.297	0	%100
34	M35	Z	5.711	5.711	0	%100
35	M37	X	-3.297	-3.297	0	%100
36	M37	Z	5.711	5.711	0	%100
37	M36A	X	-1.615	-1.615	0	%100
38	M36A	Z	2.797	2.797	0	%100
39	M37A	X	-6.459	-6.459	0	%100
40	M37A	Z	11.188	11.188	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.897	-2.897	0	%100
2	M1	Z	1.673	1.673	0	%100
3	M2	X	-11.59	-11.59	0	%100
4	M2	Z	6.691	6.691	0	%100
5	M3	X	-2.897	-2.897	0	%100
6	M3	Z	1.673	1.673	0	%100
7	M7	X	-8.391	-8.391	0	%100
8	M7	Z	4.845	4.845	0	%100
9	MP4A	X	-6.606	-6.606	0	%100
10	MP4A	Z	3.814	3.814	0	%100
11	MP3A	X	-6.606	-6.606	0	%100
12	MP3A	Z	3.814	3.814	0	%100
13	MP2A	X	-6.606	-6.606	0	%100
14	MP2A	Z	3.814	3.814	0	%100
15	MP1A	X	-6.606	-6.606	0	%100
16	MP1A	Z	3.814	3.814	0	%100
17	MP4C	X	-6.606	-6.606	0	%100
18	MP4C	Z	3.814	3.814	0	%100
19	MP3C	X	-6.606	-6.606	0	%100
20	MP3C	Z	3.814	3.814	0	%100
21	MP2C	X	-6.606	-6.606	0	%100
22	MP2C	Z	3.814	3.814	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
23	MP1C	X	-6.606	-6.606	0	%100
24	MP1C	Z	3.814	3.814	0	%100
25	MP4B	X	-6.606	-6.606	0	%100
26	MP4B	Z	3.814	3.814	0	%100
27	MP3B	X	-6.606	-6.606	0	%100
28	MP3B	Z	3.814	3.814	0	%100
29	MP2B	X	-6.606	-6.606	0	%100
30	MP2B	Z	3.814	3.814	0	%100
31	MP1B	X	-6.606	-6.606	0	%100
32	MP1B	Z	3.814	3.814	0	%100
33	M35	X	-5.711	-5.711	0	%100
34	M35	Z	3.297	3.297	0	%100
35	M37	X	-5.711	-5.711	0	%100
36	M37	Z	3.297	3.297	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	-8.391	-8.391	0	%100
40	M37A	Z	4.845	4.845	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-10.037	-10.037	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-10.037	-10.037	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-12.919	-12.919	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	-7.628	-7.628	0	%100
10	MP4A	Z	0	0	0	%100
11	MP3A	X	-7.628	-7.628	0	%100
12	MP3A	Z	0	0	0	%100
13	MP2A	X	-7.628	-7.628	0	%100
14	MP2A	Z	0	0	0	%100
15	MP1A	X	-7.628	-7.628	0	%100
16	MP1A	Z	0	0	0	%100
17	MP4C	X	-7.628	-7.628	0	%100
18	MP4C	Z	0	0	0	%100
19	MP3C	X	-7.628	-7.628	0	%100
20	MP3C	Z	0	0	0	%100
21	MP2C	X	-7.628	-7.628	0	%100
22	MP2C	Z	0	0	0	%100
23	MP1C	X	-7.628	-7.628	0	%100
24	MP1C	Z	0	0	0	%100
25	MP4B	X	-7.628	-7.628	0	%100
26	MP4B	Z	0	0	0	%100
27	MP3B	X	-7.628	-7.628	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	-7.628	-7.628	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	-7.628	-7.628	0	%100
32	MP1B	Z	0	0	0	%100
33	M35	X	-6.595	-6.595	0	%100
34	M35	Z	0	0	0	%100
35	M37	X	-6.595	-6.595	0	%100
36	M37	Z	0	0	0	%100
37	M36A	X	-3.23	-3.23	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
38	M36A	Z	0	0	0	%100
39	M37A	X	-3.23	-3.23	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.897	-2.897	0	%100
2	M1	Z	-1.673	-1.673	0	%100
3	M2	X	-2.897	-2.897	0	%100
4	M2	Z	-1.673	-1.673	0	%100
5	M3	X	-11.59	-11.59	0	%100
6	M3	Z	-6.691	-6.691	0	%100
7	M7	X	-8.391	-8.391	0	%100
8	M7	Z	-4.845	-4.845	0	%100
9	MP4A	X	-6.606	-6.606	0	%100
10	MP4A	Z	-3.814	-3.814	0	%100
11	MP3A	X	-6.606	-6.606	0	%100
12	MP3A	Z	-3.814	-3.814	0	%100
13	MP2A	X	-6.606	-6.606	0	%100
14	MP2A	Z	-3.814	-3.814	0	%100
15	MP1A	X	-6.606	-6.606	0	%100
16	MP1A	Z	-3.814	-3.814	0	%100
17	MP4C	X	-6.606	-6.606	0	%100
18	MP4C	Z	-3.814	-3.814	0	%100
19	MP3C	X	-6.606	-6.606	0	%100
20	MP3C	Z	-3.814	-3.814	0	%100
21	MP2C	X	-6.606	-6.606	0	%100
22	MP2C	Z	-3.814	-3.814	0	%100
23	MP1C	X	-6.606	-6.606	0	%100
24	MP1C	Z	-3.814	-3.814	0	%100
25	MP4B	X	-6.606	-6.606	0	%100
26	MP4B	Z	-3.814	-3.814	0	%100
27	MP3B	X	-6.606	-6.606	0	%100
28	MP3B	Z	-3.814	-3.814	0	%100
29	MP2B	X	-6.606	-6.606	0	%100
30	MP2B	Z	-3.814	-3.814	0	%100
31	MP1B	X	-6.606	-6.606	0	%100
32	MP1B	Z	-3.814	-3.814	0	%100
33	M35	X	-5.711	-5.711	0	%100
34	M35	Z	-3.297	-3.297	0	%100
35	M37	X	-5.711	-5.711	0	%100
36	M37	Z	-3.297	-3.297	0	%100
37	M36A	X	-8.391	-8.391	0	%100
38	M36A	Z	-4.845	-4.845	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-5.019	-5.019	0	%100
2	M1	Z	-8.692	-8.692	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-5.019	-5.019	0	%100
6	M3	Z	-8.692	-8.692	0	%100
7	M7	X	-1.615	-1.615	0	%100
8	M7	Z	-2.797	-2.797	0	%100
9	MP4A	X	-3.814	-3.814	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
10	MP4A	Z	-6.606	-6.606	0	%100
11	MP3A	X	-3.814	-3.814	0	%100
12	MP3A	Z	-6.606	-6.606	0	%100
13	MP2A	X	-3.814	-3.814	0	%100
14	MP2A	Z	-6.606	-6.606	0	%100
15	MP1A	X	-3.814	-3.814	0	%100
16	MP1A	Z	-6.606	-6.606	0	%100
17	MP4C	X	-3.814	-3.814	0	%100
18	MP4C	Z	-6.606	-6.606	0	%100
19	MP3C	X	-3.814	-3.814	0	%100
20	MP3C	Z	-6.606	-6.606	0	%100
21	MP2C	X	-3.814	-3.814	0	%100
22	MP2C	Z	-6.606	-6.606	0	%100
23	MP1C	X	-3.814	-3.814	0	%100
24	MP1C	Z	-6.606	-6.606	0	%100
25	MP4B	X	-3.814	-3.814	0	%100
26	MP4B	Z	-6.606	-6.606	0	%100
27	MP3B	X	-3.814	-3.814	0	%100
28	MP3B	Z	-6.606	-6.606	0	%100
29	MP2B	X	-3.814	-3.814	0	%100
30	MP2B	Z	-6.606	-6.606	0	%100
31	MP1B	X	-3.814	-3.814	0	%100
32	MP1B	Z	-6.606	-6.606	0	%100
33	M35	X	-3.297	-3.297	0	%100
34	M35	Z	-5.711	-5.711	0	%100
35	M37	X	-3.297	-3.297	0	%100
36	M37	Z	-5.711	-5.711	0	%100
37	M36A	X	-6.459	-6.459	0	%100
38	M36A	Z	-11.188	-11.188	0	%100
39	M37A	X	-1.615	-1.615	0	%100
40	M37A	Z	-2.797	-2.797	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-4.224	-4.224	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.056	-1.056	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-1.056	-1.056	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-3.225	-3.225	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-3.225	-3.225	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	-3.225	-3.225	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-3.225	-3.225	0	%100
17	MP4C	X	0	0	0	%100
18	MP4C	Z	-3.225	-3.225	0	%100
19	MP3C	X	0	0	0	%100
20	MP3C	Z	-3.225	-3.225	0	%100
21	MP2C	X	0	0	0	%100
22	MP2C	Z	-3.225	-3.225	0	%100
23	MP1C	X	0	0	0	%100
24	MP1C	Z	-3.225	-3.225	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
25	MP4B	X	0	0	0	%100
26	MP4B	Z	-3.225	-3.225	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	-3.225	-3.225	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	-3.225	-3.225	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	-3.225	-3.225	0	%100
33	M35	X	0	0	0	%100
34	M35	Z	-2.6	-2.6	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	-2.6	-2.6	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	-3.108	-3.108	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	-3.108	-3.108	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.584	1.584	0	%100
2	M1	Z	-2.744	-2.744	0	%100
3	M2	X	1.584	1.584	0	%100
4	M2	Z	-2.744	-2.744	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	.518	.518	0	%100
8	M7	Z	-.897	-.897	0	%100
9	MP4A	X	1.613	1.613	0	%100
10	MP4A	Z	-2.793	-2.793	0	%100
11	MP3A	X	1.613	1.613	0	%100
12	MP3A	Z	-2.793	-2.793	0	%100
13	MP2A	X	1.613	1.613	0	%100
14	MP2A	Z	-2.793	-2.793	0	%100
15	MP1A	X	1.613	1.613	0	%100
16	MP1A	Z	-2.793	-2.793	0	%100
17	MP4C	X	1.613	1.613	0	%100
18	MP4C	Z	-2.793	-2.793	0	%100
19	MP3C	X	1.613	1.613	0	%100
20	MP3C	Z	-2.793	-2.793	0	%100
21	MP2C	X	1.613	1.613	0	%100
22	MP2C	Z	-2.793	-2.793	0	%100
23	MP1C	X	1.613	1.613	0	%100
24	MP1C	Z	-2.793	-2.793	0	%100
25	MP4B	X	1.613	1.613	0	%100
26	MP4B	Z	-2.793	-2.793	0	%100
27	MP3B	X	1.613	1.613	0	%100
28	MP3B	Z	-2.793	-2.793	0	%100
29	MP2B	X	1.613	1.613	0	%100
30	MP2B	Z	-2.793	-2.793	0	%100
31	MP1B	X	1.613	1.613	0	%100
32	MP1B	Z	-2.793	-2.793	0	%100
33	M35	X	1.3	1.3	0	%100
34	M35	Z	-2.251	-2.251	0	%100
35	M37	X	1.3	1.3	0	%100
36	M37	Z	-2.251	-2.251	0	%100
37	M36A	X	.518	.518	0	%100
38	M36A	Z	-.897	-.897	0	%100
39	M37A	X	2.072	2.072	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
40	M37A	Z	-3.589	-3.589	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.915	.915	0	%100
2	M1	Z	-.528	-.528	0	%100
3	M2	X	3.658	3.658	0	%100
4	M2	Z	-2.112	-2.112	0	%100
5	M3	X	.915	.915	0	%100
6	M3	Z	-.528	-.528	0	%100
7	M7	X	2.692	2.692	0	%100
8	M7	Z	-1.554	-1.554	0	%100
9	MP4A	X	2.793	2.793	0	%100
10	MP4A	Z	-1.613	-1.613	0	%100
11	MP3A	X	2.793	2.793	0	%100
12	MP3A	Z	-1.613	-1.613	0	%100
13	MP2A	X	2.793	2.793	0	%100
14	MP2A	Z	-1.613	-1.613	0	%100
15	MP1A	X	2.793	2.793	0	%100
16	MP1A	Z	-1.613	-1.613	0	%100
17	MP4C	X	2.793	2.793	0	%100
18	MP4C	Z	-1.613	-1.613	0	%100
19	MP3C	X	2.793	2.793	0	%100
20	MP3C	Z	-1.613	-1.613	0	%100
21	MP2C	X	2.793	2.793	0	%100
22	MP2C	Z	-1.613	-1.613	0	%100
23	MP1C	X	2.793	2.793	0	%100
24	MP1C	Z	-1.613	-1.613	0	%100
25	MP4B	X	2.793	2.793	0	%100
26	MP4B	Z	-1.613	-1.613	0	%100
27	MP3B	X	2.793	2.793	0	%100
28	MP3B	Z	-1.613	-1.613	0	%100
29	MP2B	X	2.793	2.793	0	%100
30	MP2B	Z	-1.613	-1.613	0	%100
31	MP1B	X	2.793	2.793	0	%100
32	MP1B	Z	-1.613	-1.613	0	%100
33	M35	X	2.251	2.251	0	%100
34	M35	Z	-1.3	-1.3	0	%100
35	M37	X	2.251	2.251	0	%100
36	M37	Z	-1.3	-1.3	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	2.692	2.692	0	%100
40	M37A	Z	-1.554	-1.554	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.168	3.168	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	3.168	3.168	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	4.144	4.144	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	3.225	3.225	0	%100
10	MP4A	Z	0	0	0	%100
11	MP3A	X	3.225	3.225	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
12	MP3A	Z	0	0	0	%100
13	MP2A	X	3.225	3.225	0	%100
14	MP2A	Z	0	0	0	%100
15	MP1A	X	3.225	3.225	0	%100
16	MP1A	Z	0	0	0	%100
17	MP4C	X	3.225	3.225	0	%100
18	MP4C	Z	0	0	0	%100
19	MP3C	X	3.225	3.225	0	%100
20	MP3C	Z	0	0	0	%100
21	MP2C	X	3.225	3.225	0	%100
22	MP2C	Z	0	0	0	%100
23	MP1C	X	3.225	3.225	0	%100
24	MP1C	Z	0	0	0	%100
25	MP4B	X	3.225	3.225	0	%100
26	MP4B	Z	0	0	0	%100
27	MP3B	X	3.225	3.225	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	3.225	3.225	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	3.225	3.225	0	%100
32	MP1B	Z	0	0	0	%100
33	M35	X	2.6	2.6	0	%100
34	M35	Z	0	0	0	%100
35	M37	X	2.6	2.6	0	%100
36	M37	Z	0	0	0	%100
37	M36A	X	1.036	1.036	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	1.036	1.036	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.915	.915	0	%100
2	M1	Z	.528	.528	0	%100
3	M2	X	.915	.915	0	%100
4	M2	Z	.528	.528	0	%100
5	M3	X	3.658	3.658	0	%100
6	M3	Z	2.112	2.112	0	%100
7	M7	X	2.692	2.692	0	%100
8	M7	Z	1.554	1.554	0	%100
9	MP4A	X	2.793	2.793	0	%100
10	MP4A	Z	1.613	1.613	0	%100
11	MP3A	X	2.793	2.793	0	%100
12	MP3A	Z	1.613	1.613	0	%100
13	MP2A	X	2.793	2.793	0	%100
14	MP2A	Z	1.613	1.613	0	%100
15	MP1A	X	2.793	2.793	0	%100
16	MP1A	Z	1.613	1.613	0	%100
17	MP4C	X	2.793	2.793	0	%100
18	MP4C	Z	1.613	1.613	0	%100
19	MP3C	X	2.793	2.793	0	%100
20	MP3C	Z	1.613	1.613	0	%100
21	MP2C	X	2.793	2.793	0	%100
22	MP2C	Z	1.613	1.613	0	%100
23	MP1C	X	2.793	2.793	0	%100
24	MP1C	Z	1.613	1.613	0	%100
25	MP4B	X	2.793	2.793	0	%100
26	MP4B	Z	1.613	1.613	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
27	MP3B	X	2.793	2.793	0	%100
28	MP3B	Z	1.613	1.613	0	%100
29	MP2B	X	2.793	2.793	0	%100
30	MP2B	Z	1.613	1.613	0	%100
31	MP1B	X	2.793	2.793	0	%100
32	MP1B	Z	1.613	1.613	0	%100
33	M35	X	2.251	2.251	0	%100
34	M35	Z	1.3	1.3	0	%100
35	M37	X	2.251	2.251	0	%100
36	M37	Z	1.3	1.3	0	%100
37	M36A	X	2.692	2.692	0	%100
38	M36A	Z	1.554	1.554	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.584	1.584	0	%100
2	M1	Z	2.744	2.744	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	1.584	1.584	0	%100
6	M3	Z	2.744	2.744	0	%100
7	M7	X	.518	.518	0	%100
8	M7	Z	.897	.897	0	%100
9	MP4A	X	1.613	1.613	0	%100
10	MP4A	Z	2.793	2.793	0	%100
11	MP3A	X	1.613	1.613	0	%100
12	MP3A	Z	2.793	2.793	0	%100
13	MP2A	X	1.613	1.613	0	%100
14	MP2A	Z	2.793	2.793	0	%100
15	MP1A	X	1.613	1.613	0	%100
16	MP1A	Z	2.793	2.793	0	%100
17	MP4C	X	1.613	1.613	0	%100
18	MP4C	Z	2.793	2.793	0	%100
19	MP3C	X	1.613	1.613	0	%100
20	MP3C	Z	2.793	2.793	0	%100
21	MP2C	X	1.613	1.613	0	%100
22	MP2C	Z	2.793	2.793	0	%100
23	MP1C	X	1.613	1.613	0	%100
24	MP1C	Z	2.793	2.793	0	%100
25	MP4B	X	1.613	1.613	0	%100
26	MP4B	Z	2.793	2.793	0	%100
27	MP3B	X	1.613	1.613	0	%100
28	MP3B	Z	2.793	2.793	0	%100
29	MP2B	X	1.613	1.613	0	%100
30	MP2B	Z	2.793	2.793	0	%100
31	MP1B	X	1.613	1.613	0	%100
32	MP1B	Z	2.793	2.793	0	%100
33	M35	X	1.3	1.3	0	%100
34	M35	Z	2.251	2.251	0	%100
35	M37	X	1.3	1.3	0	%100
36	M37	Z	2.251	2.251	0	%100
37	M36A	X	2.072	2.072	0	%100
38	M36A	Z	3.589	3.589	0	%100
39	M37A	X	.518	.518	0	%100
40	M37A	Z	.897	.897	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	4.224	4.224	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.056	1.056	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	1.056	1.056	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	3.225	3.225	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	3.225	3.225	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	3.225	3.225	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	3.225	3.225	0	%100
17	MP4C	X	0	0	0	%100
18	MP4C	Z	3.225	3.225	0	%100
19	MP3C	X	0	0	0	%100
20	MP3C	Z	3.225	3.225	0	%100
21	MP2C	X	0	0	0	%100
22	MP2C	Z	3.225	3.225	0	%100
23	MP1C	X	0	0	0	%100
24	MP1C	Z	3.225	3.225	0	%100
25	MP4B	X	0	0	0	%100
26	MP4B	Z	3.225	3.225	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	3.225	3.225	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	3.225	3.225	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	3.225	3.225	0	%100
33	M35	X	0	0	0	%100
34	M35	Z	2.6	2.6	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	2.6	2.6	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	3.108	3.108	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	3.108	3.108	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.584	-1.584	0	%100
2	M1	Z	2.744	2.744	0	%100
3	M2	X	-1.584	-1.584	0	%100
4	M2	Z	2.744	2.744	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-.518	-.518	0	%100
8	M7	Z	.897	.897	0	%100
9	MP4A	X	-1.613	-1.613	0	%100
10	MP4A	Z	2.793	2.793	0	%100
11	MP3A	X	-1.613	-1.613	0	%100
12	MP3A	Z	2.793	2.793	0	%100
13	MP2A	X	-1.613	-1.613	0	%100
14	MP2A	Z	2.793	2.793	0	%100
15	MP1A	X	-1.613	-1.613	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
16	MP1A	Z	2.793	2.793	0	%100
17	MP4C	X	-1.613	-1.613	0	%100
18	MP4C	Z	2.793	2.793	0	%100
19	MP3C	X	-1.613	-1.613	0	%100
20	MP3C	Z	2.793	2.793	0	%100
21	MP2C	X	-1.613	-1.613	0	%100
22	MP2C	Z	2.793	2.793	0	%100
23	MP1C	X	-1.613	-1.613	0	%100
24	MP1C	Z	2.793	2.793	0	%100
25	MP4B	X	-1.613	-1.613	0	%100
26	MP4B	Z	2.793	2.793	0	%100
27	MP3B	X	-1.613	-1.613	0	%100
28	MP3B	Z	2.793	2.793	0	%100
29	MP2B	X	-1.613	-1.613	0	%100
30	MP2B	Z	2.793	2.793	0	%100
31	MP1B	X	-1.613	-1.613	0	%100
32	MP1B	Z	2.793	2.793	0	%100
33	M35	X	-1.3	-1.3	0	%100
34	M35	Z	2.251	2.251	0	%100
35	M37	X	-1.3	-1.3	0	%100
36	M37	Z	2.251	2.251	0	%100
37	M36A	X	-.518	-.518	0	%100
38	M36A	Z	.897	.897	0	%100
39	M37A	X	-2.072	-2.072	0	%100
40	M37A	Z	3.589	3.589	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.915	-.915	0	%100
2	M1	Z	.528	.528	0	%100
3	M2	X	-3.658	-3.658	0	%100
4	M2	Z	2.112	2.112	0	%100
5	M3	X	-.915	-.915	0	%100
6	M3	Z	.528	.528	0	%100
7	M7	X	-2.692	-2.692	0	%100
8	M7	Z	1.554	1.554	0	%100
9	MP4A	X	-2.793	-2.793	0	%100
10	MP4A	Z	1.613	1.613	0	%100
11	MP3A	X	-2.793	-2.793	0	%100
12	MP3A	Z	1.613	1.613	0	%100
13	MP2A	X	-2.793	-2.793	0	%100
14	MP2A	Z	1.613	1.613	0	%100
15	MP1A	X	-2.793	-2.793	0	%100
16	MP1A	Z	1.613	1.613	0	%100
17	MP4C	X	-2.793	-2.793	0	%100
18	MP4C	Z	1.613	1.613	0	%100
19	MP3C	X	-2.793	-2.793	0	%100
20	MP3C	Z	1.613	1.613	0	%100
21	MP2C	X	-2.793	-2.793	0	%100
22	MP2C	Z	1.613	1.613	0	%100
23	MP1C	X	-2.793	-2.793	0	%100
24	MP1C	Z	1.613	1.613	0	%100
25	MP4B	X	-2.793	-2.793	0	%100
26	MP4B	Z	1.613	1.613	0	%100
27	MP3B	X	-2.793	-2.793	0	%100
28	MP3B	Z	1.613	1.613	0	%100
29	MP2B	X	-2.793	-2.793	0	%100
30	MP2B	Z	1.613	1.613	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
31	MP1B	X	-2.793	-2.793	0	%100
32	MP1B	Z	1.613	1.613	0	%100
33	M35	X	-2.251	-2.251	0	%100
34	M35	Z	1.3	1.3	0	%100
35	M37	X	-2.251	-2.251	0	%100
36	M37	Z	1.3	1.3	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	-2.692	-2.692	0	%100
40	M37A	Z	1.554	1.554	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.168	-3.168	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-3.168	-3.168	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-4.144	-4.144	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	-3.225	-3.225	0	%100
10	MP4A	Z	0	0	0	%100
11	MP3A	X	-3.225	-3.225	0	%100
12	MP3A	Z	0	0	0	%100
13	MP2A	X	-3.225	-3.225	0	%100
14	MP2A	Z	0	0	0	%100
15	MP1A	X	-3.225	-3.225	0	%100
16	MP1A	Z	0	0	0	%100
17	MP4C	X	-3.225	-3.225	0	%100
18	MP4C	Z	0	0	0	%100
19	MP3C	X	-3.225	-3.225	0	%100
20	MP3C	Z	0	0	0	%100
21	MP2C	X	-3.225	-3.225	0	%100
22	MP2C	Z	0	0	0	%100
23	MP1C	X	-3.225	-3.225	0	%100
24	MP1C	Z	0	0	0	%100
25	MP4B	X	-3.225	-3.225	0	%100
26	MP4B	Z	0	0	0	%100
27	MP3B	X	-3.225	-3.225	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	-3.225	-3.225	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	-3.225	-3.225	0	%100
32	MP1B	Z	0	0	0	%100
33	M35	X	-2.6	-2.6	0	%100
34	M35	Z	0	0	0	%100
35	M37	X	-2.6	-2.6	0	%100
36	M37	Z	0	0	0	%100
37	M36A	X	-1.036	-1.036	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	-1.036	-1.036	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.915	-.915	0	%100
2	M1	Z	-.528	-.528	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	-.915	-.915	0	%100
4	M2	Z	-.528	-.528	0	%100
5	M3	X	-3.658	-3.658	0	%100
6	M3	Z	-2.112	-2.112	0	%100
7	M7	X	-2.692	-2.692	0	%100
8	M7	Z	-1.554	-1.554	0	%100
9	MP4A	X	-2.793	-2.793	0	%100
10	MP4A	Z	-1.613	-1.613	0	%100
11	MP3A	X	-2.793	-2.793	0	%100
12	MP3A	Z	-1.613	-1.613	0	%100
13	MP2A	X	-2.793	-2.793	0	%100
14	MP2A	Z	-1.613	-1.613	0	%100
15	MP1A	X	-2.793	-2.793	0	%100
16	MP1A	Z	-1.613	-1.613	0	%100
17	MP4C	X	-2.793	-2.793	0	%100
18	MP4C	Z	-1.613	-1.613	0	%100
19	MP3C	X	-2.793	-2.793	0	%100
20	MP3C	Z	-1.613	-1.613	0	%100
21	MP2C	X	-2.793	-2.793	0	%100
22	MP2C	Z	-1.613	-1.613	0	%100
23	MP1C	X	-2.793	-2.793	0	%100
24	MP1C	Z	-1.613	-1.613	0	%100
25	MP4B	X	-2.793	-2.793	0	%100
26	MP4B	Z	-1.613	-1.613	0	%100
27	MP3B	X	-2.793	-2.793	0	%100
28	MP3B	Z	-1.613	-1.613	0	%100
29	MP2B	X	-2.793	-2.793	0	%100
30	MP2B	Z	-1.613	-1.613	0	%100
31	MP1B	X	-2.793	-2.793	0	%100
32	MP1B	Z	-1.613	-1.613	0	%100
33	M35	X	-2.251	-2.251	0	%100
34	M35	Z	-1.3	-1.3	0	%100
35	M37	X	-2.251	-2.251	0	%100
36	M37	Z	-1.3	-1.3	0	%100
37	M36A	X	-2.692	-2.692	0	%100
38	M36A	Z	-1.554	-1.554	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.584	-1.584	0	%100
2	M1	Z	-2.744	-2.744	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-1.584	-1.584	0	%100
6	M3	Z	-2.744	-2.744	0	%100
7	M7	X	-.518	-.518	0	%100
8	M7	Z	-.897	-.897	0	%100
9	MP4A	X	-1.613	-1.613	0	%100
10	MP4A	Z	-2.793	-2.793	0	%100
11	MP3A	X	-1.613	-1.613	0	%100
12	MP3A	Z	-2.793	-2.793	0	%100
13	MP2A	X	-1.613	-1.613	0	%100
14	MP2A	Z	-2.793	-2.793	0	%100
15	MP1A	X	-1.613	-1.613	0	%100
16	MP1A	Z	-2.793	-2.793	0	%100
17	MP4C	X	-1.613	-1.613	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
18	MP4C	Z	-2.793	-2.793	0	%100
19	MP3C	X	-1.613	-1.613	0	%100
20	MP3C	Z	-2.793	-2.793	0	%100
21	MP2C	X	-1.613	-1.613	0	%100
22	MP2C	Z	-2.793	-2.793	0	%100
23	MP1C	X	-1.613	-1.613	0	%100
24	MP1C	Z	-2.793	-2.793	0	%100
25	MP4B	X	-1.613	-1.613	0	%100
26	MP4B	Z	-2.793	-2.793	0	%100
27	MP3B	X	-1.613	-1.613	0	%100
28	MP3B	Z	-2.793	-2.793	0	%100
29	MP2B	X	-1.613	-1.613	0	%100
30	MP2B	Z	-2.793	-2.793	0	%100
31	MP1B	X	-1.613	-1.613	0	%100
32	MP1B	Z	-2.793	-2.793	0	%100
33	M35	X	-1.3	-1.3	0	%100
34	M35	Z	-2.251	-2.251	0	%100
35	M37	X	-1.3	-1.3	0	%100
36	M37	Z	-2.251	-2.251	0	%100
37	M36A	X	-2.072	-2.072	0	%100
38	M36A	Z	-3.589	-3.589	0	%100
39	M37A	X	-.518	-.518	0	%100
40	M37A	Z	-.897	-.897	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.836	-.836	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.209	-.209	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.209	-.209	0	%100
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-.477	-.477	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-.477	-.477	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	-.477	-.477	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-.477	-.477	0	%100
17	MP4C	X	0	0	0	%100
18	MP4C	Z	-.477	-.477	0	%100
19	MP3C	X	0	0	0	%100
20	MP3C	Z	-.477	-.477	0	%100
21	MP2C	X	0	0	0	%100
22	MP2C	Z	-.477	-.477	0	%100
23	MP1C	X	0	0	0	%100
24	MP1C	Z	-.477	-.477	0	%100
25	MP4B	X	0	0	0	%100
26	MP4B	Z	-.477	-.477	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	-.477	-.477	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	-.477	-.477	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	-.477	-.477	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
33	M35	X	0	0	0	%100
34	M35	Z	-.412	-.412	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	-.412	-.412	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	-.606	-.606	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	-.606	-.606	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.314	.314	0	%100
2	M1	Z	-.543	-.543	0	%100
3	M2	X	.314	.314	0	%100
4	M2	Z	-.543	-.543	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	.101	.101	0	%100
8	M7	Z	-.175	-.175	0	%100
9	MP4A	X	.238	.238	0	%100
10	MP4A	Z	-.413	-.413	0	%100
11	MP3A	X	.238	.238	0	%100
12	MP3A	Z	-.413	-.413	0	%100
13	MP2A	X	.238	.238	0	%100
14	MP2A	Z	-.413	-.413	0	%100
15	MP1A	X	.238	.238	0	%100
16	MP1A	Z	-.413	-.413	0	%100
17	MP4C	X	.238	.238	0	%100
18	MP4C	Z	-.413	-.413	0	%100
19	MP3C	X	.238	.238	0	%100
20	MP3C	Z	-.413	-.413	0	%100
21	MP2C	X	.238	.238	0	%100
22	MP2C	Z	-.413	-.413	0	%100
23	MP1C	X	.238	.238	0	%100
24	MP1C	Z	-.413	-.413	0	%100
25	MP4B	X	.238	.238	0	%100
26	MP4B	Z	-.413	-.413	0	%100
27	MP3B	X	.238	.238	0	%100
28	MP3B	Z	-.413	-.413	0	%100
29	MP2B	X	.238	.238	0	%100
30	MP2B	Z	-.413	-.413	0	%100
31	MP1B	X	.238	.238	0	%100
32	MP1B	Z	-.413	-.413	0	%100
33	M35	X	.206	.206	0	%100
34	M35	Z	-.357	-.357	0	%100
35	M37	X	.206	.206	0	%100
36	M37	Z	-.357	-.357	0	%100
37	M36A	X	.101	.101	0	%100
38	M36A	Z	-.175	-.175	0	%100
39	M37A	X	.404	.404	0	%100
40	M37A	Z	-.699	-.699	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.181	.181	0	%100
2	M1	Z	-.105	-.105	0	%100
3	M2	X	.724	.724	0	%100
4	M2	Z	-.418	-.418	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
5	M3	X	.181	.181	0	%100
6	M3	Z	-.105	-.105	0	%100
7	M7	X	.524	.524	0	%100
8	M7	Z	-.303	-.303	0	%100
9	MP4A	X	.413	.413	0	%100
10	MP4A	Z	-.238	-.238	0	%100
11	MP3A	X	.413	.413	0	%100
12	MP3A	Z	-.238	-.238	0	%100
13	MP2A	X	.413	.413	0	%100
14	MP2A	Z	-.238	-.238	0	%100
15	MP1A	X	.413	.413	0	%100
16	MP1A	Z	-.238	-.238	0	%100
17	MP4C	X	.413	.413	0	%100
18	MP4C	Z	-.238	-.238	0	%100
19	MP3C	X	.413	.413	0	%100
20	MP3C	Z	-.238	-.238	0	%100
21	MP2C	X	.413	.413	0	%100
22	MP2C	Z	-.238	-.238	0	%100
23	MP1C	X	.413	.413	0	%100
24	MP1C	Z	-.238	-.238	0	%100
25	MP4B	X	.413	.413	0	%100
26	MP4B	Z	-.238	-.238	0	%100
27	MP3B	X	.413	.413	0	%100
28	MP3B	Z	-.238	-.238	0	%100
29	MP2B	X	.413	.413	0	%100
30	MP2B	Z	-.238	-.238	0	%100
31	MP1B	X	.413	.413	0	%100
32	MP1B	Z	-.238	-.238	0	%100
33	M35	X	.357	.357	0	%100
34	M35	Z	-.206	-.206	0	%100
35	M37	X	.357	.357	0	%100
36	M37	Z	-.206	-.206	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	.524	.524	0	%100
40	M37A	Z	-.303	-.303	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.627	.627	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.627	.627	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	.807	.807	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	.477	.477	0	%100
10	MP4A	Z	0	0	0	%100
11	MP3A	X	.477	.477	0	%100
12	MP3A	Z	0	0	0	%100
13	MP2A	X	.477	.477	0	%100
14	MP2A	Z	0	0	0	%100
15	MP1A	X	.477	.477	0	%100
16	MP1A	Z	0	0	0	%100
17	MP4C	X	.477	.477	0	%100
18	MP4C	Z	0	0	0	%100
19	MP3C	X	.477	.477	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
20	MP3C	Z	0	0	0	%100
21	MP2C	X	.477	.477	0	%100
22	MP2C	Z	0	0	0	%100
23	MP1C	X	.477	.477	0	%100
24	MP1C	Z	0	0	0	%100
25	MP4B	X	.477	.477	0	%100
26	MP4B	Z	0	0	0	%100
27	MP3B	X	.477	.477	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	.477	.477	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	.477	.477	0	%100
32	MP1B	Z	0	0	0	%100
33	M35	X	.412	.412	0	%100
34	M35	Z	0	0	0	%100
35	M37	X	.412	.412	0	%100
36	M37	Z	0	0	0	%100
37	M36A	X	.202	.202	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	.202	.202	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.181	.181	0	%100
2	M1	Z	.105	.105	0	%100
3	M2	X	.181	.181	0	%100
4	M2	Z	.105	.105	0	%100
5	M3	X	.724	.724	0	%100
6	M3	Z	.418	.418	0	%100
7	M7	X	.524	.524	0	%100
8	M7	Z	.303	.303	0	%100
9	MP4A	X	.413	.413	0	%100
10	MP4A	Z	.238	.238	0	%100
11	MP3A	X	.413	.413	0	%100
12	MP3A	Z	.238	.238	0	%100
13	MP2A	X	.413	.413	0	%100
14	MP2A	Z	.238	.238	0	%100
15	MP1A	X	.413	.413	0	%100
16	MP1A	Z	.238	.238	0	%100
17	MP4C	X	.413	.413	0	%100
18	MP4C	Z	.238	.238	0	%100
19	MP3C	X	.413	.413	0	%100
20	MP3C	Z	.238	.238	0	%100
21	MP2C	X	.413	.413	0	%100
22	MP2C	Z	.238	.238	0	%100
23	MP1C	X	.413	.413	0	%100
24	MP1C	Z	.238	.238	0	%100
25	MP4B	X	.413	.413	0	%100
26	MP4B	Z	.238	.238	0	%100
27	MP3B	X	.413	.413	0	%100
28	MP3B	Z	.238	.238	0	%100
29	MP2B	X	.413	.413	0	%100
30	MP2B	Z	.238	.238	0	%100
31	MP1B	X	.413	.413	0	%100
32	MP1B	Z	.238	.238	0	%100
33	M35	X	.357	.357	0	%100
34	M35	Z	.206	.206	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
35	M37	X	.357	.357	0	%100
36	M37	Z	.206	.206	0	%100
37	M36A	X	.524	.524	0	%100
38	M36A	Z	.303	.303	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.314	.314	0	%100
2	M1	Z	.543	.543	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.314	.314	0	%100
6	M3	Z	.543	.543	0	%100
7	M7	X	.101	.101	0	%100
8	M7	Z	.175	.175	0	%100
9	MP4A	X	.238	.238	0	%100
10	MP4A	Z	.413	.413	0	%100
11	MP3A	X	.238	.238	0	%100
12	MP3A	Z	.413	.413	0	%100
13	MP2A	X	.238	.238	0	%100
14	MP2A	Z	.413	.413	0	%100
15	MP1A	X	.238	.238	0	%100
16	MP1A	Z	.413	.413	0	%100
17	MP4C	X	.238	.238	0	%100
18	MP4C	Z	.413	.413	0	%100
19	MP3C	X	.238	.238	0	%100
20	MP3C	Z	.413	.413	0	%100
21	MP2C	X	.238	.238	0	%100
22	MP2C	Z	.413	.413	0	%100
23	MP1C	X	.238	.238	0	%100
24	MP1C	Z	.413	.413	0	%100
25	MP4B	X	.238	.238	0	%100
26	MP4B	Z	.413	.413	0	%100
27	MP3B	X	.238	.238	0	%100
28	MP3B	Z	.413	.413	0	%100
29	MP2B	X	.238	.238	0	%100
30	MP2B	Z	.413	.413	0	%100
31	MP1B	X	.238	.238	0	%100
32	MP1B	Z	.413	.413	0	%100
33	M35	X	.206	.206	0	%100
34	M35	Z	.357	.357	0	%100
35	M37	X	.206	.206	0	%100
36	M37	Z	.357	.357	0	%100
37	M36A	X	.404	.404	0	%100
38	M36A	Z	.699	.699	0	%100
39	M37A	X	.101	.101	0	%100
40	M37A	Z	.175	.175	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.836	.836	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.209	.209	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	.209	.209	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
7	M7	X	0	0	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.477	.477	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	.477	.477	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	.477	.477	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	.477	.477	0	%100
17	MP4C	X	0	0	0	%100
18	MP4C	Z	.477	.477	0	%100
19	MP3C	X	0	0	0	%100
20	MP3C	Z	.477	.477	0	%100
21	MP2C	X	0	0	0	%100
22	MP2C	Z	.477	.477	0	%100
23	MP1C	X	0	0	0	%100
24	MP1C	Z	.477	.477	0	%100
25	MP4B	X	0	0	0	%100
26	MP4B	Z	.477	.477	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	.477	.477	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	.477	.477	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	.477	.477	0	%100
33	M35	X	0	0	0	%100
34	M35	Z	.412	.412	0	%100
35	M37	X	0	0	0	%100
36	M37	Z	.412	.412	0	%100
37	M36A	X	0	0	0	%100
38	M36A	Z	.606	.606	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	.606	.606	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.314	-.314	0	%100
2	M1	Z	.543	.543	0	%100
3	M2	X	-.314	-.314	0	%100
4	M2	Z	.543	.543	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-.101	-.101	0	%100
8	M7	Z	.175	.175	0	%100
9	MP4A	X	-.238	-.238	0	%100
10	MP4A	Z	.413	.413	0	%100
11	MP3A	X	-.238	-.238	0	%100
12	MP3A	Z	.413	.413	0	%100
13	MP2A	X	-.238	-.238	0	%100
14	MP2A	Z	.413	.413	0	%100
15	MP1A	X	-.238	-.238	0	%100
16	MP1A	Z	.413	.413	0	%100
17	MP4C	X	-.238	-.238	0	%100
18	MP4C	Z	.413	.413	0	%100
19	MP3C	X	-.238	-.238	0	%100
20	MP3C	Z	.413	.413	0	%100
21	MP2C	X	-.238	-.238	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
22	MP2C	Z	.413	.413	0	%100
23	MP1C	X	-.238	-.238	0	%100
24	MP1C	Z	.413	.413	0	%100
25	MP4B	X	-.238	-.238	0	%100
26	MP4B	Z	.413	.413	0	%100
27	MP3B	X	-.238	-.238	0	%100
28	MP3B	Z	.413	.413	0	%100
29	MP2B	X	-.238	-.238	0	%100
30	MP2B	Z	.413	.413	0	%100
31	MP1B	X	-.238	-.238	0	%100
32	MP1B	Z	.413	.413	0	%100
33	M35	X	-.206	-.206	0	%100
34	M35	Z	.357	.357	0	%100
35	M37	X	-.206	-.206	0	%100
36	M37	Z	.357	.357	0	%100
37	M36A	X	-.101	-.101	0	%100
38	M36A	Z	.175	.175	0	%100
39	M37A	X	-.404	-.404	0	%100
40	M37A	Z	.699	.699	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.181	-.181	0	%100
2	M1	Z	.105	.105	0	%100
3	M2	X	-.724	-.724	0	%100
4	M2	Z	.418	.418	0	%100
5	M3	X	-.181	-.181	0	%100
6	M3	Z	.105	.105	0	%100
7	M7	X	-.524	-.524	0	%100
8	M7	Z	.303	.303	0	%100
9	MP4A	X	-.413	-.413	0	%100
10	MP4A	Z	.238	.238	0	%100
11	MP3A	X	-.413	-.413	0	%100
12	MP3A	Z	.238	.238	0	%100
13	MP2A	X	-.413	-.413	0	%100
14	MP2A	Z	.238	.238	0	%100
15	MP1A	X	-.413	-.413	0	%100
16	MP1A	Z	.238	.238	0	%100
17	MP4C	X	-.413	-.413	0	%100
18	MP4C	Z	.238	.238	0	%100
19	MP3C	X	-.413	-.413	0	%100
20	MP3C	Z	.238	.238	0	%100
21	MP2C	X	-.413	-.413	0	%100
22	MP2C	Z	.238	.238	0	%100
23	MP1C	X	-.413	-.413	0	%100
24	MP1C	Z	.238	.238	0	%100
25	MP4B	X	-.413	-.413	0	%100
26	MP4B	Z	.238	.238	0	%100
27	MP3B	X	-.413	-.413	0	%100
28	MP3B	Z	.238	.238	0	%100
29	MP2B	X	-.413	-.413	0	%100
30	MP2B	Z	.238	.238	0	%100
31	MP1B	X	-.413	-.413	0	%100
32	MP1B	Z	.238	.238	0	%100
33	M35	X	-.357	-.357	0	%100
34	M35	Z	.206	.206	0	%100
35	M37	X	-.357	-.357	0	%100
36	M37	Z	.206	.206	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
37	M36A	X	0	0	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	-.524	-.524	0	%100
40	M37A	Z	.303	.303	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.627	-.627	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.627	-.627	0	%100
6	M3	Z	0	0	0	%100
7	M7	X	-.807	-.807	0	%100
8	M7	Z	0	0	0	%100
9	MP4A	X	-.477	-.477	0	%100
10	MP4A	Z	0	0	0	%100
11	MP3A	X	-.477	-.477	0	%100
12	MP3A	Z	0	0	0	%100
13	MP2A	X	-.477	-.477	0	%100
14	MP2A	Z	0	0	0	%100
15	MP1A	X	-.477	-.477	0	%100
16	MP1A	Z	0	0	0	%100
17	MP4C	X	-.477	-.477	0	%100
18	MP4C	Z	0	0	0	%100
19	MP3C	X	-.477	-.477	0	%100
20	MP3C	Z	0	0	0	%100
21	MP2C	X	-.477	-.477	0	%100
22	MP2C	Z	0	0	0	%100
23	MP1C	X	-.477	-.477	0	%100
24	MP1C	Z	0	0	0	%100
25	MP4B	X	-.477	-.477	0	%100
26	MP4B	Z	0	0	0	%100
27	MP3B	X	-.477	-.477	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	-.477	-.477	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	-.477	-.477	0	%100
32	MP1B	Z	0	0	0	%100
33	M35	X	-.412	-.412	0	%100
34	M35	Z	0	0	0	%100
35	M37	X	-.412	-.412	0	%100
36	M37	Z	0	0	0	%100
37	M36A	X	-.202	-.202	0	%100
38	M36A	Z	0	0	0	%100
39	M37A	X	-.202	-.202	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.181	-.181	0	%100
2	M1	Z	-.105	-.105	0	%100
3	M2	X	-.181	-.181	0	%100
4	M2	Z	-.105	-.105	0	%100
5	M3	X	-.724	-.724	0	%100
6	M3	Z	-.418	-.418	0	%100
7	M7	X	-.524	-.524	0	%100
8	M7	Z	-.303	-.303	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
9	MP4A	X	-.413	-.413	0	%100
10	MP4A	Z	-.238	-.238	0	%100
11	MP3A	X	-.413	-.413	0	%100
12	MP3A	Z	-.238	-.238	0	%100
13	MP2A	X	-.413	-.413	0	%100
14	MP2A	Z	-.238	-.238	0	%100
15	MP1A	X	-.413	-.413	0	%100
16	MP1A	Z	-.238	-.238	0	%100
17	MP4C	X	-.413	-.413	0	%100
18	MP4C	Z	-.238	-.238	0	%100
19	MP3C	X	-.413	-.413	0	%100
20	MP3C	Z	-.238	-.238	0	%100
21	MP2C	X	-.413	-.413	0	%100
22	MP2C	Z	-.238	-.238	0	%100
23	MP1C	X	-.413	-.413	0	%100
24	MP1C	Z	-.238	-.238	0	%100
25	MP4B	X	-.413	-.413	0	%100
26	MP4B	Z	-.238	-.238	0	%100
27	MP3B	X	-.413	-.413	0	%100
28	MP3B	Z	-.238	-.238	0	%100
29	MP2B	X	-.413	-.413	0	%100
30	MP2B	Z	-.238	-.238	0	%100
31	MP1B	X	-.413	-.413	0	%100
32	MP1B	Z	-.238	-.238	0	%100
33	M35	X	-.357	-.357	0	%100
34	M35	Z	-.206	-.206	0	%100
35	M37	X	-.357	-.357	0	%100
36	M37	Z	-.206	-.206	0	%100
37	M36A	X	-.524	-.524	0	%100
38	M36A	Z	-.303	-.303	0	%100
39	M37A	X	0	0	0	%100
40	M37A	Z	0	0	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.314	-.314	0	%100
2	M1	Z	-.543	-.543	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.314	-.314	0	%100
6	M3	Z	-.543	-.543	0	%100
7	M7	X	-.101	-.101	0	%100
8	M7	Z	-.175	-.175	0	%100
9	MP4A	X	-.238	-.238	0	%100
10	MP4A	Z	-.413	-.413	0	%100
11	MP3A	X	-.238	-.238	0	%100
12	MP3A	Z	-.413	-.413	0	%100
13	MP2A	X	-.238	-.238	0	%100
14	MP2A	Z	-.413	-.413	0	%100
15	MP1A	X	-.238	-.238	0	%100
16	MP1A	Z	-.413	-.413	0	%100
17	MP4C	X	-.238	-.238	0	%100
18	MP4C	Z	-.413	-.413	0	%100
19	MP3C	X	-.238	-.238	0	%100
20	MP3C	Z	-.413	-.413	0	%100
21	MP2C	X	-.238	-.238	0	%100
22	MP2C	Z	-.413	-.413	0	%100
23	MP1C	X	-.238	-.238	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
24	MP1C	Z	-.413	-.413	0	%100
25	MP4B	X	-.238	-.238	0	%100
26	MP4B	Z	-.413	-.413	0	%100
27	MP3B	X	-.238	-.238	0	%100
28	MP3B	Z	-.413	-.413	0	%100
29	MP2B	X	-.238	-.238	0	%100
30	MP2B	Z	-.413	-.413	0	%100
31	MP1B	X	-.238	-.238	0	%100
32	MP1B	Z	-.413	-.413	0	%100
33	M35	X	-.206	-.206	0	%100
34	M35	Z	-.357	-.357	0	%100
35	M37	X	-.206	-.206	0	%100
36	M37	Z	-.357	-.357	0	%100
37	M36A	X	-.404	-.404	0	%100
38	M36A	Z	-.699	-.699	0	%100
39	M37A	X	-.101	-.101	0	%100
40	M37A	Z	-.175	-.175	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M7	Y	-61.819	-20.457	3.795	4.807
2	M7	Y	-20.457	-21.838	4.807	5.82
3	M7	Y	-21.838	-65.961	5.82	6.832
4	M36A	Y	-49.118	-20.457	3.795	6.832
5	M37A	Y	-30.875	-10.216	3.795	4.807
6	M37A	Y	-10.216	-10.913	4.807	5.82
7	M37A	Y	-10.913	-32.965	5.82	6.832
8	M37A	Y	-24.545	-10.229	3.795	6.832

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M7	Y	-109.839	-36.347	3.795	4.807
2	M7	Y	-36.347	-38.812	4.807	5.82
3	M7	Y	-38.812	-117.236	5.82	6.832
4	M36A	Y	-87.413	-36.325	3.795	6.832
5	M37A	Y	-54.889	-18.163	3.795	4.807
6	M37A	Y	-18.163	-19.401	4.807	5.82
7	M37A	Y	-19.401	-58.605	5.82	6.832
8	M37A	Y	-43.635	-18.184	3.795	6.832

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M3	Y	-.02	-.201	1.308	3.402
2	M3	Y	-.201	-.292	3.402	5.495
3	M3	Y	-.292	-.292	5.495	7.588
4	M3	Y	-.292	-.202	7.588	9.682
5	M3	Y	-.202	-.02	9.682	11.775
6	M7	Y	-.334	-.334	2.846	3.981
7	M36A	Y	-.334	-.334	2.846	3.981
8	M1	Y	-.02	-.202	1.308	3.402
9	M1	Y	-.202	-.292	3.402	5.495
10	M1	Y	-.292	-.291	5.495	7.588
11	M1	Y	-.291	-.201	7.588	9.682
12	M1	Y	-.201	-.02	9.682	11.775
13	M37A	Y	-.334	-.334	2.848	3.981
14	M2	Y	-.02	-.202	1.308	3.402
15	M2	Y	-.202	-.292	3.402	5.495

Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
16	M2	Y	-.292	-.292	5.495	7.588
17	M2	Y	-.292	-.201	7.588	9.682
18	M2	Y	-.201	-.02	9.682	11.775

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M3	Z	-.051	-.502	1.308	3.402
2	M3	Z	-.502	-.728	3.402	5.495
3	M3	Z	-.728	-.729	5.495	7.588
4	M3	Z	-.729	-.503	7.588	9.682
5	M3	Z	-.503	-.05	9.682	11.775
6	M7	Z	-.832	-.832	2.846	3.981
7	M36A	Z	-.832	-.832	2.846	3.981
8	M1	Z	-.051	-.503	1.308	3.402
9	M1	Z	-.503	-.728	3.402	5.495
10	M1	Z	-.728	-.727	5.495	7.588
11	M1	Z	-.727	-.502	7.588	9.682
12	M1	Z	-.502	-.051	9.682	11.775
13	M37A	Z	-.832	-.832	2.848	3.981
14	M2	Z	-.05	-.503	1.308	3.402
15	M2	Z	-.503	-.729	3.402	5.495
16	M2	Z	-.729	-.728	5.495	7.588
17	M2	Z	-.728	-.502	7.588	9.682
18	M2	Z	-.502	-.051	9.682	11.775

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M3	X	.051	.502	1.308	3.402
2	M3	X	.502	.728	3.402	5.495
3	M3	X	.728	.729	5.495	7.588
4	M3	X	.729	.503	7.588	9.682
5	M3	X	.503	.05	9.682	11.775
6	M7	X	.832	.832	2.846	3.981
7	M36A	X	.832	.832	2.846	3.981
8	M1	X	.051	.503	1.308	3.402
9	M1	X	.503	.728	3.402	5.495
10	M1	X	.728	.727	5.495	7.588
11	M1	X	.727	.502	7.588	9.682
12	M1	X	.502	.051	9.682	11.775
13	M37A	X	.832	.832	2.848	3.981
14	M2	X	.05	.503	1.308	3.402
15	M2	X	.503	.729	3.402	5.495
16	M2	X	.729	.728	5.495	7.588
17	M2	X	.728	.502	7.588	9.682
18	M2	X	.502	.051	9.682	11.775

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N77	N85	N86	N76A	Y	B-C	-.009
2	N80A	N77	N78	N79A	Y	B-C	-.009
3	N78	N83	N82	N76A	Y	B-C	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N85	N77	N76A	N86	Y	B-C	-.016
2	N80A	N77	N78	N79A	Y	B-C	-.016

Member Area Loads (BLC 40 : Structure Di) (Continued)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
3	N78	N83	N82	N76A	Y	B-C	-.016

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N77	N85	N86	N76A	Y	Two Way	-.00021
2	N80A	N77	N78	N79A	Y	Two Way	-.00021
3	N78	N83	N82	N76A	Y	Two Way	-.00021

Member Area Loads (BLC 85 : Structure Eh (0 Deg))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N77	N85	N86	N76A	Z	Two Way	-.000524
2	N80A	N77	N78	N79A	Z	Two Way	-.000524
3	N78	N83	N82	N76A	Z	Two Way	-.000524

Member Area Loads (BLC 86 : Structure Eh (90 Deg))

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N77	N85	N86	N76A	X	Two Way	.000524
2	N80A	N77	N78	N79A	X	Two Way	.000524
3	N78	N83	N82	N76A	X	Two Way	.000524

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N12	max	637.909	10	3324.048	13	3346.238	1	12.446	13	1.593	4	.913	4
2		min	-638.667	4	759.616	70	-3351.84	7	2.13	7	-1.593	10	-1.417	10
3	N76B	max	1810.524	11	2264.337	20	793.997	4	-.347	12	.986	12	-1.366	4
4		min	-1813.363	5	526.913	65	-794.847	10	-3.55	18	-.993	6	-9.707	22
5	N79	max	2074.686	9	3426.16	18	1108.052	11	-1.141	1	1.375	7	9.204	17
6		min	-2068.646	3	838.747	75	-1111.775	5	-7.344	19	-1.381	1	1.035	11
7	Totals:	max	4207.609	10	8827.743	15	3910.596	1						
8		min	-4207.609	4	2160.308	73	-3910.596	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M1	HSS4X4X4	.500	13.083	19	.123	13.083	z	7	68157.102	139518	16.181	16.181	2...	H1-1b
2	M2	HSS4X4X4	.297	13.083	13	.105	13.083	z	9	68157.102	139518	16.181	16.181	1...	H1-1b
3	M3	HSS4X4X4	.251	13.083	17	.121	0	y	23	68157.102	139518	16.181	16.181	2...	H1-1b
4	M7	HSS4X4X4	.784	0	13	.163	0	y	22	109623.94	139518	16.181	16.181	2...	H1-1b
5	MP4A	PIPE_2.0	.316	4.25	10	.059	4.25		10	13511.278	32130	1.872	1.872	1...	H1-1b
6	MP3A	PIPE_2.0	.154	4.25	7	.034	4.25		8	13511.278	32130	1.872	1.872	1...	H1-1b
7	MP2A	PIPE_2.0	.464	4.25	1	.041	4.339		8	13511.278	32130	1.872	1.872	1...	H1-1b
8	MP1A	PIPE_2.0	.371	4.25	10	.059	4.339		10	13511.278	32130	1.872	1.872	1...	H1-1b
9	MP4C	PIPE_2.0	.316	4.25	6	.059	4.25		6	13511.278	32130	1.872	1.872	1...	H1-1b
10	MP3C	PIPE_2.0	.153	4.25	3	.034	4.25		8	13511.278	32130	1.872	1.872	1...	H1-1b
11	MP2C	PIPE_2.0	.461	4.25	10	.057	4.25		12	13511.278	32130	1.872	1.872	1...	H1-1b
12	MP1C	PIPE_2.0	.371	4.25	12	.059	4.339		12	13511.278	32130	1.872	1.872	1...	H1-1b
13	MP4B	PIPE_2.0	.351	4.25	11	.059	4.25		2	13511.278	32130	1.872	1.872	1...	H1-1b
14	MP3B	PIPE_2.0	.151	4.25	11	.035	4.25		12	13511.278	32130	1.872	1.872	1...	H1-1b
15	MP2B	PIPE_2.0	.458	4.25	5	.043	4.339		12	13511.278	32130	1.872	1.872	1...	H1-1b
16	MP1B	PIPE_2.0	.444	4.25	5	.059	4.339		8	13511.278	32130	1.872	1.872	1...	H1-1b
17	M35	PIPE_2.0	.125	2.99	12	.013	2.99		12	27741.09	32130	1.872	1.872	1...	H1-1b
18	M37	PIPE_2.0	.125	2.99	6	.013	2.99		6	27741.09	32130	1.872	1.872	1...	H1-1b
19	M36A	HSS4X4X4	.630	0	19	.205	0	y	23	109623.94	139518	16.181	16.181	2...	H1-1b
20	M37A	HSS4X4X4	.728	0	18	.237	0	y	20	109623.94	139518	16.181	16.181	2...	H1-1b

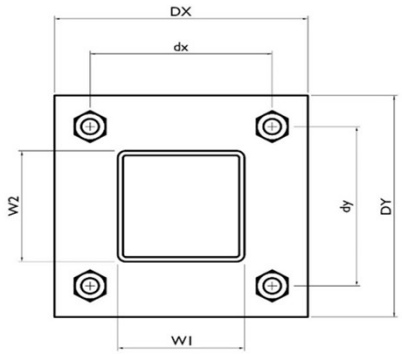
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	1/8/2024
Site Name:	COLLINSVILLE CT		
MDG #:	5000382696		
Fuze ID #:	16271924	Page:	1

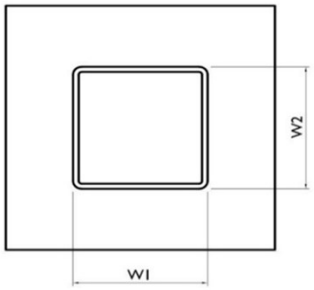
Version 2.00

I. Mount-to-Tower Connection Check

Custom Orientation Required	No
Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	3
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	8
Bolt Type:	A325N
Bolt Diameter (in):	0.75
Required Tensile Strength / bolt (kips):	3.1
Required Shear Strength / bolt (kips):	8.6
Tensile Capacity / bolt (kips):	29.8
Shear Capacity / bolt (kips):	17.9
Bolt Overall Utilization:	**48.0%**



Tower Connection Baseplate Checks	Yes
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	6
Plate Height, D_y (in):	10
W1(in):	4
W2 (in):	4
Member Thickness (in):	0.25
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):	0.75
Length of Yield Line, L_y (in):	4.90
Bolt Eccentricity, e (in):	1.86
M_u (kip-in):	18.72
Phi*M_n (kip-in):	22.32
Plate Bending Utilization:	**83.9%**



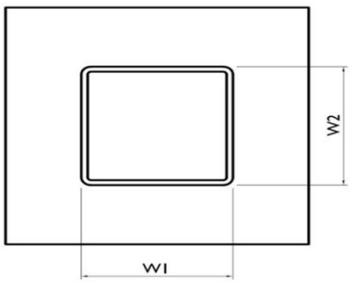
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	1/8/2024
Site Name:	COLLINSVILLE CT		
PSLC #:	5000382696		
Fuze ID #:	16271924	Page:	2

Version 2.00

Tower Connection Weld Checks

	Yes
Weld Shape:	Rectangle
Weld Stiffener Configuration:	None
Weld Size (1/16 in):	4
W1 (in):	4
W2 (in):	4
Weld Total Length (in):	16.00
Z_x (in^3/in):	21.33
Z_y (in^3/in):	21.33
J_p (in^4/in):	85.33
c_x (in)	2.25
c_y (in)	2.25
Required combined strength (kip/in):	4.80
Weld Capacity (kip/in):	5.57
Weld Utilization:	**86.2%**



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	120 ft Monopole
ATC Asset Name	:	CT Collinsville CAC 802816 CT
ATC Asset Number	:	411259
Engineering Number	:	14686555_C3_03
Proposed Carrier	:	VERIZON WIRELESS
Carrier Site Name	:	COLLINSVILLE CT
Carrier Site Number	:	5000382696
Site Location	:	650 Albany Turnpike Collinsville, CT 06019-3522 41.8506° N, 72.9487° W
County	:	Hartford
Date	:	February 15, 2024
Max Usage	:	54%
Analysis Result	:	Pass

Created By:

Sarah Kramer
Structural Engineer I

Sarah D. Kramer

COA: PEC.0001553

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 120 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	EEI Project #11936 Rev 3, dated January 29, 2004
Foundation:	EEI Project #11936, dated September 10, 2003
Geotechnical:	CHA Project #11869.1006.1502, dated November 20, 2002

Analysis

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

Basic Wind Speed:	115 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.50" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Feature:	Flat
Spectral Response:	Ss = 0.17, S_1 = 0.05
Site Class:	D - Stiff Soil - Default

Conclusion

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

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact **Engineering@americantower.com** Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

Structure Usages

Structural Component	Usage	Control	Result
Pole Shaft	46.0%	1.2D + 1.0W	Pass
Serviceability Usage	24.1%	1.0D + 1.0W	Pass
Base Plate @ 0.0 ft	37.3%	Rods	Pass
Mat & Pier	54.2%	Moment [Soil]	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	2,174.1	47.3	22.6

Reactions shown reflect the results from the Load Case with maximum Moment

Structure base reactions were analyzed using available geotechnical and foundation information.

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
121.0	1	Low Profile Platform	(6) 1 5/8" Coax (2) 1 5/8" Hybriflex
	1	Unused Reserve (15665.9400 sqin)	
	2	Antel LPA-80063/6CF	
	2	RFS DB-B1-6C-12AB-0Z	
	3	Samsung B2/B66A RRH ORAN (RF 4439d-25A)	
	3	Samsung MT6413-77A	
	3	Samsung RF4461d-13A	
	4	Antel LPA-80080/6CF ___	
	6	Commscope NHH-65B-R2B	

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
112.0	3	Ericsson Air 6449 B77D	-	AT&T MOBILITY
110.0	1	CCI DMP65R-BU6DA	(3) 0.41" (10.3mm) Fiber (2) 0.82" (20.8mm) 8 AWG 6 (4) 0.92" (23.4mm) Cable (3) 2" conduit	AT&T MOBILITY
	1	CCI TPA-65R-BU6DA-K		
	1	Platform with Handrails		
	1	Raycap DC6-48-60-18-8F		
	2	CCI DMP65R-BU8D		
	2	CCI TPA65R-BU8D		
	2	Raycap DC9-48-60-24-8C-EV		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14		
	3	Ericsson RRUS 8843 B2, B66A		
108.0	3	Ericsson AIR 6419 B77G	-	AT&T MOBILITY
100.0	1	Platform with Handrails	(3) 1 5/8" (1.63"-41.3mm) Fiber (12) 1 5/8" Coax	T-MOBILE
	3	Ericsson KRY 112 144/1		
	3	Ericsson KRY 112 489/2		
	3	Ericsson Radio 4449 B12,B71		
	3	RFS APX16DWV-16DWV-S-E-ACU		
	3	RFS APXVAARR24_43-U-NA20		
92.0	1	Commscope RDIDC-9181-PF-48	(1) 1.60" (40.6mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B604		
	3	Fujitsu TA08025-B605		
	3	JMA Wireless MX08FRO665-21		
89.0	1	Platform with Handrails	-	DISH WIRELESS L.L.C.

(If table breaks across pages, please see previous page for data in merged cells)

Standard Conditions

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

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

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

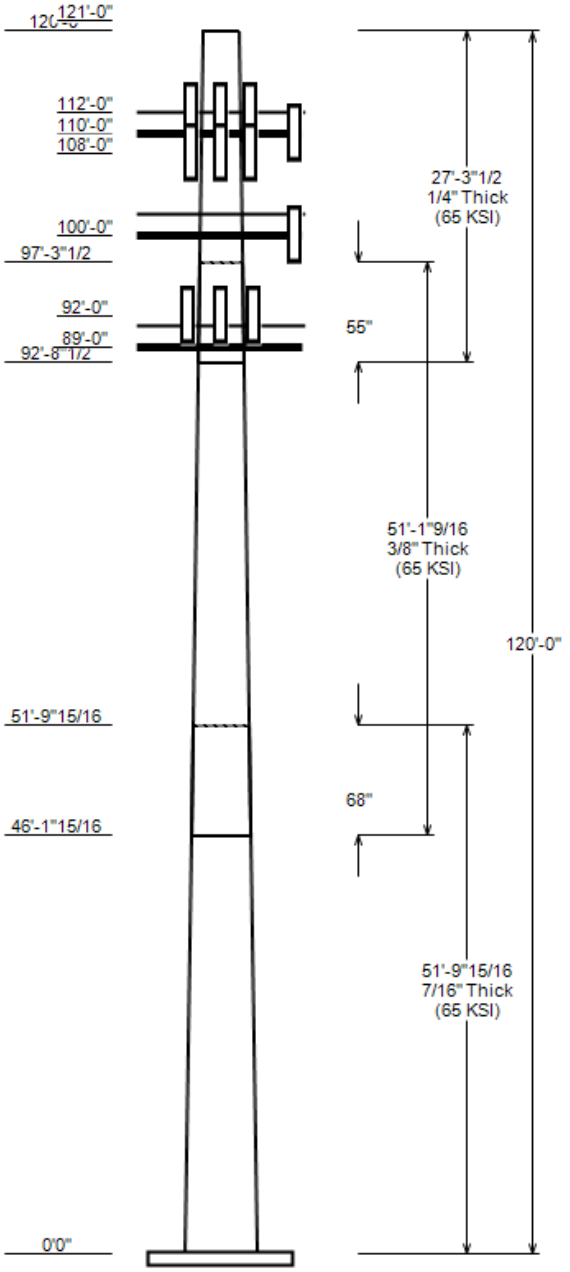
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with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

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

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

ANALYSIS PARAMETERS

Nominal Wind:	115 mph	**Ice Wind:**	50 mph w/ 1.5" ice	**Service Wind:**	60 mph
Risk Category:	II	**Exposure:**	B	**S_s:** 0.174	**S_1:** 0.054
Topo Category:	1	**Topo Factor:**	Method 1	**Topo Feature:**	
Structure Height:	120 ft	**Base Elevation:**	0.00 ft	**Structure Type:**	Taper
Base Diameter:	49 in	**Base Rotation:**	0°	**Taper:**	0.1950 (in/ft)



POLE SECTION PROPERTIES

Section	Length (ft)	Flat Diameter (in) Top	Flat Diameter (in) Bottom	Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
1	51.830	38.92	49.00	0.438		0.000	18 Sides	65
2	51.130	30.82	40.77	0.375	Slip Joint	68.000	18 Sides	65
3	27.290	26.90	32.21	0.250	Slip Joint	55.000	18 Sides	65

DISCRETE APPURTENANCE

Elev (ft)	Description
121.0	(3) Samsung B2/B66A RRH ORAN (RF 4
121.0	(3) Samsung RF4461d-13A
121.0	(2) RFS DB-B1-6C-12AB-0Z
121.0	(3) Samsung MT6413-77A
121.0	(6) Commscope NHH-65B-R2B
121.0	(4) Antel LPA-80080/6CF ___
121.0	(2) Antel LPA-80063/6CF
121.0	(1) Generic Flat Low Profile Platf
121.0	(1) Unused Reserve (15665.94 sqin)
121.0	(1) Unused Reserve (15665.9400 sqi
112.0	(3) Ericsson Air 6449 B77D
110.0	(1) Raycap DC6-48-60-18-8F
110.0	(3) Ericsson RRUS 8843 B2, B66A
110.0	(3) Ericsson RRUS 4449 B5, B12
110.0	(3) Ericsson RRUS 4478 B14
110.0	(2) Raycap DC9-48-60-24-8C-EV
110.0	(1) CCI DMP65R-BU6DA
110.0	(1) CCI TPA-65R-BU6DA-K
110.0	(2) CCI DMP65R-BU8D
110.0	(2) CCI TPA65R-BU8D
110.0	(1) Generic Round Platform with Ha
108.0	(3) Ericsson AIR 6419 B77G
100.0	(3) Ericsson KRY 112 144/1
100.0	(3) Ericsson KRY 112 489/2
100.0	(3) Ericsson Radio 4449 B12,B71
100.0	(3) RFS APX16DWV-16DWV-S-E-ACU
100.0	(3) RFS APXVAARR24_43-U-NA20
100.0	(1) Generic Round Platform with Ha
92.0	(1) Commscope RDIDC-9181-PF-48
92.0	(3) Fujitsu TA08025-B605
92.0	(3) Fujitsu TA08025-B604
92.0	(3) JMA Wireless MX08FRO665-21
89.0	(1) Generic Flat Platform with Han

LINEAR APPURTENANCE

Elev To (ft)	Description
121.0	(2) 1 5/8" Hybriflex
121.0	(6) 1 5/8" Coax
110.0	(3) 2" conduit
110.0	(4) 0.92" (23.4mm) Cable
110.0	(2) 0.82" (20.8mm) 8 AWG 6
110.0	(3) 0.41" (10.3mm) Fiber
100.0	(12) 1 5/8" Coax
100.0	(3) 1 5/8" (1.63"-41.3mm) Fiber
92.0	(1) 1.60" (40.6mm) Hybrid

GLOBAL BASE REACTIONS

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	2174.14	47.27	22.65
0.9D + 1.0W	2153.08	35.44	22.63
1.2D + 1.0Di + 1.0Wi	644.20	70.06	6.70
1.2D + 1.0Ev + 1.0Eh	119.25	47.11	1.18
0.9D - 1.0Ev + 1.0Eh	117.88	32.86	1.18
1.0D + 1.0W	526.25	39.41	5.51

ANALYSIS PARAMETERS

Location:	Hartford County,CT	**Height:**	120 ft
Type and Shape:	Taper, 18 Sides	**Base Diameter:**	49.00 in
Manufacturer:	EEI	**Top Diameter:**	26.90 in
K_d (non-service):	0.95	**Taper:**	0.1950 in/ft
K_e:	0.98	**Rotation:**	0.000º

ICE & WIND PARAMETERS

Risk Category:	II	**Design Wind Speed:**	115 mph
Exposure Category:	B	**Design Wind Speed w/ Ice:**	50 mph
Topo Factor Procedure:	Method 1	**Design Ice Thickness:**	1.50 in
Topographic Category:	1	**Service Wind Speed:**	60 mph
Crest Height:	0 ft	**HMSL:**	492.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil		**Period Based on Rayleigh Method (sec):**		1.94
T_L (sec):	6	**P:**	1	**C_s:**	0.030
S_s:	0.174	**S_1:**	0.054	**C_s Max:**	0.030
F_a:	1.600	**F_v:**	2.400	**C_s Min:**	0.030
S_{ds}:	0.186	**S_{d1}:**	0.086		

LOAD CASES

1.2D + 1.0W	115 mph Wind with No Ice
0.9D + 1.0W	115 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph Wind with 1.5" Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

							Bottom						Top						
Section	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Dia (in)	Elev (ft)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	51.83	0.4375	65		0.00	10,658	49.00	0.000	67.43	20,092.1	18.34	112.00	38.92	51.83	53.43	9,993.9	14.27	88.95	0.1946
2-18	51.13	0.3750	65	Slip	68.00	7,334	40.77	46.160	48.08	9,910.0	17.76	108.71	30.82	97.29	36.23	4,242.8	13.08	82.18	0.1946
3-18	27.29	0.2500	65	Slip	55.00	2,159	32.21	92.710	25.36	3,272.7	21.31	128.84	26.90	120.00	21.15	1,897.5	17.56	107.60	0.1946
			Total Shaft Weight			**20,151**													

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
121.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2666.95	44.770	1.00
121.00	RFS DB-B1-6C-12AB-0Z	2	0.80	0.000	21.40	2.512	0.67	99.45	3.530	0.67
121.00	Antel LPA-80080/6CF ___	4	0.80	0.000	21.00	8.628	0.62	210.34	5.479	0.62
121.00	Commscope NHH-65B-R2B	6	0.80	0.000	43.70	8.079	0.69	214.20	10.803	0.69
121.00	Samsung MT6413-77A	3	0.80	0.000	57.30	3.805	0.61	140.33	5.104	0.61
121.00	Unused Reserve (15665.9400 sqi	1	0.80	0.000	1423.70	108.791	0.90	2393.59	182.904	0.90
121.00	Antel LPA-80063/6CF	2	0.80	0.000	27.00	9.593	0.82	307.12	10.918	0.82
121.00	Samsung RF4461d-13A	3	0.80	0.000	79.10	1.875	0.50	142.15	2.758	0.50
121.00	Samsung B2/B66A RRH ORAN (RF 4	3	0.80	0.000	74.70	1.875	0.50	137.19	2.755	0.50
112.00	Ericsson Air 6449 B77D	3	0.75	0.000	81.60	4.028	0.65	181.59	5.365	0.65
110.00	Ericsson RRUS 4478 B14	3	0.75	0.000	59.40	2.021	0.67	118.96	2.937	0.67
110.00	Raycap DC9-48-60-24-8C-EV	2	0.75	0.000	16.00	4.788	0.75	141.30	6.216	0.75
110.00	CCI TPA-65R-BU6DA-K	1	0.75	0.000	69.00	12.709	1.00	319.02	15.416	1.00
110.00	CCI DMP65R-BU6DA	1	0.75	0.000	79.40	12.709	1.00	329.42	15.416	1.00
110.00	CCI TPA65R-BU8D	2	0.75	0.000	82.50	18.089	0.72	417.14	21.673	0.72
110.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	4072.05	50.925	1.00
110.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	133.55	2.874	0.50
110.00	CCI DMP65R-BU8D	2	0.75	0.000	95.70	17.871	0.72	425.58	21.448	0.72
110.00	Ericsson RRUS 8843 B2, B66A	3	0.75	0.000	72.00	1.639	0.50	131.49	2.459	0.50
110.00	Raycap DC6-48-60-18-8F	1	0.75	0.000	20.00	1.260	0.50	71.10	1.899	0.50
108.00	Ericsson AIR 6419 B77G	3	0.75	0.000	66.10	3.797	0.65	160.05	5.073	0.65
100.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	4056.44	50.689	1.00
100.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	505.14	23.807	0.63
100.00	RFS APX16DWV-16DWV-S-E-ACU	3	0.75	0.000	39.60	6.077	0.60	118.41	8.054	0.60
100.00	Ericsson Radio 4449 B12,B71	3	0.75	0.000	74.00	1.639	0.50	127.80	2.450	0.50
100.00	Ericsson KRY 112 144/1	3	0.75	0.000	11.00	0.351	0.50	21.34	0.741	0.50
100.00	Ericsson KRY 112 489/2	3	0.75	0.000	15.40	0.559	0.50	32.37	1.063	0.50
92.00	Commscope RDIDC-9181-PF-48	1	0.75	0.000	21.90	1.867	1.00	76.14	2.725	1.00
92.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	134.72	2.839	0.50
92.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	119.49	2.839	0.50
92.00	JMA Wireless MX08FRO665-21	3	0.75	0.000	64.50	12.489	0.64	309.50	15.168	0.64
89.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	4185.75	62.301	1.00
Totals	**Row Count: 32**	**77**			**14,917.90**			**30,620.44**		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg): 90.00

Elev From (ft)	Elev To (ft)	Qty	Description	Diameter (in)	Weight (lb/ft)	Flat	Max/ Row	Distance Between Rows(in)	Distance Between Cols(in)	Azimuth (deg)	Distance From Face (in)	Exposed To Wind	Carrier
0.00	121.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	121.00	2	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	110.00	4	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	110.00	3	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	110.00	3	0.41" (10.3mm) Fiber	0.41	0.09	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	110.00	2	0.82" (20.8mm) 8 AWG	0.82	0.62	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	12	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	T-MOBILE
0.00	100.00	3	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0	0	0	0	N	T-MOBILE
0.00	92.00	1	1.60" (40.6mm) Hybrid	1.6	2.34	N	1	1.3	1.3	90	1.3	Y	DISH WIRELESS L.L.C.

SEGMENT PROPERTIES

Seg Top Elev (ft)	Description (Max Length: 5 ft)	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)
0.00		0.4375	49.000	67.433	20,092.10	18.34	112.00	79.8	807.6	0.0	0.0
5.00		0.4375	48.027	66.082	18,908.50	17.95	109.78	80.3	775.4	0.0	1,135.8
10.00		0.4375	47.054	64.731	17,772.40	17.55	107.55	80.8	743.9	0.0	1,112.8
15.00		0.4375	46.081	63.380	16,682.70	17.16	105.33	81.2	713.1	0.0	1,089.8
20.00		0.4375	45.108	62.029	15,638.50	16.77	103.10	81.7	682.8	0.0	1,066.8
25.00		0.4375	44.135	60.678	14,638.80	16.38	100.88	82.1	653.3	0.0	1,043.9
30.00		0.4375	43.163	59.327	13,682.60	15.99	98.66	82.6	624.4	0.0	1,020.9
35.00		0.4375	42.190	57.976	12,769.00	15.59	96.43	82.6	596.1	0.0	997.9
40.00		0.4375	41.217	56.625	11,897.00	15.20	94.21	82.6	568.5	0.0	974.9
45.00		0.4375	40.244	55.274	11,065.60	14.81	91.99	82.6	541.6	0.0	951.9
46.16	Bot - Section 2	0.4375	40.017	54.960	10,877.90	14.72	91.47	82.6	535.4	0.0	218.2
50.00		0.4375	39.271	53.923	10,273.90	14.42	89.76	82.6	515.3	0.0	1,332.6
51.83	Top - Section 1	0.3750	39.665	46.763	9,120.40	17.24	105.77	81.1	452.9	0.0	626.8
55.00		0.3750	39.048	46.029	8,697.50	16.95	104.13	81.5	438.7	0.0	500.5
60.00		0.3750	38.075	44.871	8,057.50	16.49	101.53	82	416.8	0.0	773.3
65.00		0.3750	37.102	43.713	7,449.60	16.03	98.94	82.5	395.5	0.0	753.6
70.00		0.3750	36.129	42.555	6,873.10	15.58	96.34	82.6	374.7	0.0	733.9
75.00		0.3750	35.156	41.397	6,327.20	15.12	93.75	82.6	354.5	0.0	714.2
80.00		0.3750	34.183	40.239	5,810.90	14.66	91.16	82.6	334.8	0.0	694.5
85.00		0.3750	33.210	39.081	5,323.60	14.21	88.56	82.6	315.7	0.0	674.8
89.00		0.3750	32.432	38.155	4,953.90	13.84	86.49	82.6	300.9	0.0	525.6
90.00		0.3750	32.238	37.923	4,864.20	13.75	85.97	82.6	297.2	0.0	129.4
92.00		0.3750	31.848	37.460	4,688.20	13.56	84.93	82.6	289.9	0.0	256.5
92.71	Bot - Section 3	0.3750	31.710	37.295	4,626.70	13.50	84.56	82.6	287.4	0.0	90.3
95.00		0.3750	31.265	36.765	4,432.10	13.29	83.37	82.6	279.2	0.0	484.8
97.29	Top - Section 2	0.2500	31.318	24.652	3,006.30	20.68	125.27	77.1	189.1	0.0	478.6
100.00		0.2500	30.792	24.234	2,856.00	20.31	123.17	77.5	182.7	0.0	225.1
105.00		0.2500	29.819	23.462	2,591.70	19.62	119.28	78.3	171.2	0.0	405.7
108.00		0.2500	29.235	22.999	2,441.20	19.21	116.94	78.8	164.5	0.0	237.1
110.00		0.2500	28.846	22.690	2,344.20	18.93	115.38	79.1	160.1	0.0	155.5
112.00		0.2500	28.457	22.381	2,249.80	18.66	113.83	79.5	155.7	0.0	153.4
115.00		0.2500	27.873	21.918	2,113.00	18.25	111.49	79.9	149.3	0.0	226.1
120.00		0.2500	26.900	21.146	1,897.50	17.56	107.60	80.7	138.9	0.0	366.3
										Total:	**20,151.5**

CALCULATED FORCES

Load Case: 1.2D + 1.0W — 115 mph Wind with No Ice — 20 Iterations

Gust Response Factor: 1.10
Dead load Factor: 1.20
Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-47.27	-22.65	0.00	-2,174.1	0.00	2,174.14	4,844.94	1,183.44	5,191.11	4,835.57	0	0	0.460
5.00	-45.60	-22.40	0.00	-2,060.9	0.00	2,060.92	4,775.31	1,159.73	4,985.22	4,669.74	0.08	-0.15	0.451
10.00	-43.97	-22.16	0.00	-1,948.9	0.00	1,948.91	4,704.55	1,136.02	4,783.50	4,505.63	0.32	-0.3	0.442
15.00	-42.36	-21.91	0.00	-1,838.1	0.00	1,838.11	4,632.67	1,112.31	4,585.94	4,343.33	0.72	-0.45	0.433
20.00	-40.78	-21.67	0.00	-1,728.5	0.00	1,728.54	4,559.67	1,088.61	4,392.55	4,182.90	1.27	-0.6	0.423
25.00	-39.24	-21.43	0.00	-1,620.2	0.00	1,620.20	4,485.55	1,064.90	4,203.32	4,024.42	1.99	-0.76	0.412
30.00	-37.72	-21.18	0.00	-1,513.1	0.00	1,513.07	4,407.69	1,041.19	4,018.26	3,865.64	2.86	-0.91	0.400
35.00	-36.23	-20.92	0.00	-1,407.2	0.00	1,407.20	4,307.32	1,017.48	3,837.37	3,690.72	3.89	-1.06	0.390
40.00	-34.77	-20.64	0.00	-1,302.6	0.00	1,302.62	4,206.95	993.77	3,660.64	3,519.85	5.09	-1.21	0.379
45.00	-33.35	-20.46	0.00	-1,199.4	0.00	1,199.41	4,106.58	970.06	3,488.08	3,353.03	6.44	-1.36	0.366
46.16	-33.01	-20.32	0.00	-1,175.6	0.00	1,175.62	4,083.23	964.54	3,448.53	3,314.80	6.77	-1.4	0.363
50.00	-31.20	-20.12	0.00	-1,097.7	0.00	1,097.66	4,006.21	946.35	3,319.69	3,190.26	7.94	-1.51	0.352
51.83	-30.34	-19.96	0.00	-1,060.8	0.00	1,060.84	3,414.21	820.69	2,912.57	2,755.48	8.53	-1.57	0.394
55.00	-29.55	-19.72	0.00	-997.6	0.00	997.55	3,374.74	807.81	2,821.85	2,680.46	9.6	-1.66	0.382
60.00	-28.34	-19.41	0.00	-898.9	0.00	898.94	3,311.56	787.48	2,681.68	2,563.48	11.42	-1.81	0.360
65.00	-27.15	-19.10	0.00	-801.9	0.00	801.88	3,247.27	767.16	2,545.07	2,448.20	13.4	-1.96	0.337
70.00	-26.00	-18.78	0.00	-706.4	0.00	706.39	3,161.61	746.84	2,412.04	2,319.84	15.54	-2.11	0.313
75.00	-24.87	-18.45	0.00	-612.5	0.00	612.51	3,075.58	726.52	2,282.58	2,194.67	17.82	-2.24	0.288

CALCULATED FORCES

80.00	-23.77	-18.12	0.00	-520.3	0.00	520.27	2,989.55	706.19	2,156.68	2,072.97	20.24	-2.37	0.260
85.00	-22.70	-17.81	0.00	-429.7	0.00	429.69	2,903.52	685.87	2,034.36	1,954.74	22.79	-2.49	0.228
89.00	-18.93	-16.08	0.00	-358.5	0.00	358.46	2,834.69	669.61	1,939.08	1,862.66	24.91	-2.57	0.200
90.00	-18.72	-15.98	0.00	-342.4	0.00	342.38	2,817.49	665.55	1,915.61	1,839.98	25.45	-2.59	0.193
92.00	-17.60	-15.05	0.00	-310.4	0.00	310.42	2,783.07	657.42	1,869.11	1,795.05	26.54	-2.63	0.180
92.71	-17.45	-14.95	0.00	-299.7	0.00	299.73	2,770.86	654.53	1,852.74	1,779.24	26.94	-2.64	0.175
95.00	-16.76	-14.78	0.00	-265.5	0.00	265.49	2,731.46	645.23	1,800.43	1,728.70	28.21	-2.68	0.160
97.29	-16.08	-14.59	0.00	-231.6	0.00	231.59	1,710.13	432.64	1,214.07	1,093.00	29.51	-2.72	0.222
100.00	-11.84	-11.85	0.00	-192.1	0.00	192.09	1,690.67	425.31	1,173.26	1,062.10	31.06	-2.76	0.189
105.00	-11.21	-11.57	0.00	-132.8	0.00	132.84	1,653.85	411.76	1,099.71	1,005.60	34	-2.84	0.140
108.00	-10.62	-11.20	0.00	-98.1	0.00	98.12	1,631.22	403.63	1,056.72	972.10	35.8	-2.88	0.108
110.00	-6.16	-7.38	0.00	-75.7	0.00	75.73	1,615.92	398.21	1,028.54	949.94	37.01	-2.9	0.084
112.00	-5.68	-6.99	0.00	-61.0	0.00	60.96	1,600.43	392.79	1,000.74	927.92	38.22	-2.91	0.070
115.00	-5.40	-6.74	0.00	-40.0	0.00	39.98	1,576.86	384.66	959.75	895.16	40.06	-2.93	0.048
120.00	0.00	-6.45	0.00	-6.3	0.00	6.30	1,536.68	371.11	893.35	841.35	43.14	-2.95	0.008

CALCULATED FORCES

Load Case: 0.9D + 1.0W — 115 mph Wind with No Ice (Reduced DL) — 20 Iterations

Gust Response Factor: 1.10
Dead load Factor: 0.90
Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-35.44	-22.63	0.00	-2,153.1	0.00	2,153.08	4,844.94	1,183.44	5,191.11	4,835.57	0	0	0.453
5.00	-34.18	-22.36	0.00	-2,039.9	0.00	2,039.93	4,775.31	1,159.73	4,985.22	4,669.74	0.08	-0.15	0.444
10.00	-32.94	-22.08	0.00	-1,928.2	0.00	1,928.16	4,704.55	1,136.02	4,783.50	4,505.63	0.32	-0.3	0.435
15.00	-31.72	-21.81	0.00	-1,817.7	0.00	1,817.74	4,632.67	1,112.31	4,585.94	4,343.33	0.71	-0.45	0.426
20.00	-30.53	-21.54	0.00	-1,708.7	0.00	1,708.68	4,559.67	1,088.61	4,392.55	4,182.90	1.26	-0.6	0.416
25.00	-29.35	-21.28	0.00	-1,601.0	0.00	1,600.96	4,485.55	1,064.90	4,203.32	4,024.42	1.96	-0.75	0.405
30.00	-28.20	-21.01	0.00	-1,494.6	0.00	1,494.58	4,407.69	1,041.19	4,018.26	3,865.64	2.83	-0.9	0.393
35.00	-27.07	-20.73	0.00	-1,389.6	0.00	1,389.55	4,307.32	1,017.48	3,837.37	3,690.72	3.85	-1.05	0.383
40.00	-25.97	-20.44	0.00	-1,285.9	0.00	1,285.91	4,206.95	993.77	3,660.64	3,519.85	5.03	-1.2	0.372
45.00	-24.90	-20.25	0.00	-1,183.7	0.00	1,183.73	4,106.58	970.06	3,488.08	3,353.03	6.36	-1.35	0.360
46.16	-24.64	-20.10	0.00	-1,160.2	0.00	1,160.17	4,083.23	964.54	3,448.53	3,314.80	6.7	-1.38	0.356
50.00	-23.28	-19.90	0.00	-1,083.1	0.00	1,083.06	4,006.21	946.35	3,319.69	3,190.26	7.85	-1.49	0.346
51.83	-22.63	-19.74	0.00	-1,046.6	0.00	1,046.64	3,414.21	820.69	2,912.57	2,755.48	8.44	-1.55	0.387
55.00	-22.03	-19.49	0.00	-984.1	0.00	984.07	3,374.74	807.81	2,821.85	2,680.46	9.5	-1.64	0.374
60.00	-21.11	-19.17	0.00	-886.6	0.00	886.64	3,311.56	787.48	2,681.68	2,563.48	11.29	-1.79	0.353
65.00	-20.21	-18.84	0.00	-790.8	0.00	790.81	3,247.27	767.16	2,545.07	2,448.20	13.25	-1.94	0.330
70.00	-19.34	-18.51	0.00	-696.6	0.00	696.60	3,161.61	746.84	2,412.04	2,319.84	15.36	-2.08	0.307
75.00	-18.49	-18.18	0.00	-604.0	0.00	604.04	3,075.58	726.52	2,282.58	2,194.67	17.61	-2.22	0.282
80.00	-17.65	-17.85	0.00	-513.1	0.00	513.13	2,989.55	706.19	2,156.68	2,072.97	20	-2.34	0.254
85.00	-16.85	-17.54	0.00	-423.9	0.00	423.90	2,903.52	685.87	2,034.36	1,954.74	22.52	-2.46	0.223
89.00	-14.04	-15.85	0.00	-353.8	0.00	353.75	2,834.69	669.61	1,939.08	1,862.66	24.61	-2.54	0.195
90.00	-13.88	-15.75	0.00	-337.9	0.00	337.90	2,817.49	665.55	1,915.61	1,839.98	25.15	-2.56	0.189
92.00	-13.04	-14.83	0.00	-306.4	0.00	306.39	2,783.07	657.42	1,869.11	1,795.05	26.23	-2.6	0.176
92.71	-12.93	-14.73	0.00	-295.9	0.00	295.86	2,770.86	654.53	1,852.74	1,779.24	26.61	-2.61	0.171
95.00	-12.42	-14.57	0.00	-262.1	0.00	262.12	2,731.46	645.23	1,800.43	1,728.70	27.88	-2.65	0.157
97.29	-11.91	-14.39	0.00	-228.7	0.00	228.71	1,710.13	432.64	1,214.07	1,093.00	29.16	-2.69	0.217
100.00	-8.75	-11.69	0.00	-189.8	0.00	189.77	1,690.67	425.31	1,173.26	1,062.10	30.69	-2.72	0.185
105.00	-8.28	-11.42	0.00	-131.3	0.00	131.30	1,653.85	411.76	1,099.71	1,005.60	33.59	-2.8	0.136
108.00	-7.84	-11.05	0.00	-97.0	0.00	97.03	1,631.22	403.63	1,056.72	972.10	35.36	-2.84	0.105
110.00	-4.54	-7.30	0.00	-74.9	0.00	74.93	1,615.92	398.21	1,028.54	949.94	36.56	-2.86	0.082
112.00	-4.18	-6.91	0.00	-60.3	0.00	60.34	1,600.43	392.79	1,000.74	927.92	37.76	-2.88	0.068
115.00	-3.97	-6.66	0.00	-39.6	0.00	39.60	1,576.86	384.66	959.75	895.16	39.57	-2.9	0.047
120.00	0.00	-6.45	0.00	-6.3	0.00	6.30	1,536.68	371.11	893.35	841.35	42.62	-2.91	0.008

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi — 50 mph Wind with 1.5" Radial Ice — 20 Iterations

Gust Response Factor: 1.10
Dead load Factor: 1.20
Wind Load Factor: 1.00

Ice Dead Load Factor: 1.00

Ice Importance Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-70.06	-6.70	0.00	-644.2	0.00	644.20	4,844.94	1,183.44	5,191.11	4,835.57	0	0	0.148
5.00	-68.08	-6.64	0.00	-610.7	0.00	610.68	4,775.31	1,159.73	4,985.22	4,669.74	0.02	-0.04	0.145
10.00	-66.10	-6.57	0.00	-577.5	0.00	577.48	4,704.55	1,136.02	4,783.50	4,505.63	0.09	-0.09	0.142
15.00	-64.13	-6.51	0.00	-544.6	0.00	544.62	4,632.67	1,112.31	4,585.94	4,343.33	0.21	-0.13	0.139
20.00	-62.18	-6.44	0.00	-512.1	0.00	512.10	4,559.67	1,088.61	4,392.55	4,182.90	0.38	-0.18	0.136
25.00	-60.26	-6.37	0.00	-479.9	0.00	479.91	4,485.55	1,064.90	4,203.32	4,024.42	0.59	-0.22	0.133
30.00	-58.36	-6.30	0.00	-448.1	0.00	448.07	4,407.69	1,041.19	4,018.26	3,865.64	0.85	-0.27	0.129
35.00	-56.50	-6.22	0.00	-416.6	0.00	416.59	4,307.32	1,017.48	3,837.37	3,690.72	1.15	-0.31	0.126
40.00	-54.66	-6.14	0.00	-385.5	0.00	385.49	4,206.95	993.77	3,660.64	3,519.85	1.51	-0.36	0.123
45.00	-52.86	-6.08	0.00	-354.8	0.00	354.78	4,106.58	970.06	3,488.08	3,353.03	1.91	-0.4	0.119
46.16	-52.44	-6.04	0.00	-347.7	0.00	347.71	4,083.23	964.54	3,448.53	3,314.80	2.01	-0.41	0.118
50.00	-50.34	-5.98	0.00	-324.5	0.00	324.52	4,006.21	946.35	3,319.69	3,190.26	2.35	-0.45	0.114
51.83	-49.34	-5.94	0.00	-313.6	0.00	313.57	3,414.21	820.69	2,912.57	2,755.48	2.53	-0.46	0.128
55.00	-48.32	-5.86	0.00	-294.8	0.00	294.75	3,374.74	807.81	2,821.85	2,680.46	2.84	-0.49	0.124
60.00	-46.74	-5.77	0.00	-265.4	0.00	265.44	3,311.56	787.48	2,681.68	2,563.48	3.38	-0.54	0.118
65.00	-45.19	-5.67	0.00	-236.6	0.00	236.60	3,247.27	767.16	2,545.07	2,448.20	3.97	-0.58	0.111
70.00	-43.67	-5.57	0.00	-208.2	0.00	208.25	3,161.61	746.84	2,412.04	2,319.84	4.6	-0.62	0.104
75.00	-42.18	-5.46	0.00	-180.4	0.00	180.40	3,075.58	726.52	2,282.58	2,194.67	5.28	-0.66	0.096
80.00	-40.73	-5.36	0.00	-153.1	0.00	153.08	2,989.55	706.19	2,156.68	2,072.97	5.99	-0.7	0.088
85.00	-39.30	-5.26	0.00	-126.3	0.00	126.30	2,903.52	685.87	2,034.36	1,954.74	6.75	-0.74	0.078
89.00	-33.76	-4.74	0.00	-105.3	0.00	105.28	2,834.69	669.61	1,939.08	1,862.66	7.37	-0.76	0.068
90.00	-33.48	-4.71	0.00	-100.5	0.00	100.54	2,817.49	665.55	1,915.61	1,839.98	7.53	-0.77	0.067
92.00	-31.21	-4.46	0.00	-91.1	0.00	91.11	2,783.07	657.42	1,869.11	1,795.05	7.86	-0.78	0.062
92.71	-31.02	-4.43	0.00	-88.0	0.00	87.95	2,770.86	654.53	1,852.74	1,779.24	7.97	-0.78	0.061
95.00	-30.18	-4.37	0.00	-77.8	0.00	77.80	2,731.46	645.23	1,800.43	1,728.70	8.35	-0.79	0.056
97.29	-29.34	-4.31	0.00	-67.8	0.00	67.78	1,710.13	432.64	1,214.07	1,093.00	8.73	-0.8	0.079
100.00	-22.11	-3.48	0.00	-56.1	0.00	56.11	1,690.67	425.31	1,173.26	1,062.10	9.19	-0.81	0.066
105.00	-21.15	-3.38	0.00	-38.7	0.00	38.73	1,653.85	411.76	1,099.71	1,005.60	10.06	-0.84	0.051
108.00	-20.11	-3.26	0.00	-28.6	0.00	28.58	1,631.22	403.63	1,056.72	972.10	10.59	-0.85	0.042
110.00	-11.74	-2.17	0.00	-22.1	0.00	22.06	1,615.92	398.21	1,028.54	949.94	10.95	-0.86	0.031
112.00	-10.86	-2.05	0.00	-17.7	0.00	17.71	1,600.43	392.79	1,000.74	927.92	11.31	-0.86	0.026
115.00	-10.37	-1.96	0.00	-11.6	0.00	11.56	1,576.86	384.66	959.75	895.16	11.85	-0.87	0.020
120.00	0.00	-1.80	0.00	-1.8	0.00	1.75	1,536.68	371.11	893.35	841.35	12.76	-0.87	0.002

CALCULATED FORCES

Load Case: 1.0D + 1.0W — 60 mph Wind with No Ice — 19 Iterations

Gust Response Factor: 1.10
Dead load Factor: 1.00
Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-39.41	-5.51	0.00	-526.2	0.00	526.25	4,844.94	1,183.44	5,191.11	4,835.57	0	0	0.117
5.00	-38.07	-5.45	0.00	-498.7	0.00	498.69	4,775.31	1,159.73	4,985.22	4,669.74	0.02	-0.04	0.115
10.00	-36.75	-5.38	0.00	-471.4	0.00	471.45	4,704.55	1,136.02	4,783.50	4,505.63	0.08	-0.07	0.112
15.00	-35.46	-5.32	0.00	-444.5	0.00	444.53	4,632.67	1,112.31	4,585.94	4,343.33	0.17	-0.11	0.110
20.00	-34.18	-5.26	0.00	-417.9	0.00	417.93	4,559.67	1,088.61	4,392.55	4,182.90	0.31	-0.15	0.107
25.00	-32.94	-5.19	0.00	-391.6	0.00	391.65	4,485.55	1,064.90	4,203.32	4,024.42	0.48	-0.18	0.105
30.00	-31.71	-5.13	0.00	-365.7	0.00	365.68	4,407.69	1,041.19	4,018.26	3,865.64	0.69	-0.22	0.102
35.00	-30.51	-5.06	0.00	-340.0	0.00	340.03	4,307.32	1,017.48	3,837.37	3,690.72	0.94	-0.26	0.099
40.00	-29.32	-4.99	0.00	-314.7	0.00	314.71	4,206.95	993.77	3,660.64	3,519.85	1.23	-0.29	0.096
45.00	-28.17	-4.95	0.00	-289.7	0.00	289.74	4,106.58	970.06	3,488.08	3,353.03	1.56	-0.33	0.093
46.16	-27.90	-4.91	0.00	-284.0	0.00	283.98	4,083.23	964.54	3,448.53	3,314.80	1.64	-0.34	0.093
50.00	-26.41	-4.87	0.00	-265.1	0.00	265.13	4,006.21	946.35	3,319.69	3,190.26	1.92	-0.37	0.090
51.83	-25.71	-4.83	0.00	-256.2	0.00	256.23	3,414.21	820.69	2,912.57	2,755.48	2.06	-0.38	0.101
55.00	-25.08	-4.77	0.00	-240.9	0.00	240.93	3,374.74	807.81	2,821.85	2,680.46	2.32	-0.4	0.097
60.00	-24.10	-4.69	0.00	-217.1	0.00	217.10	3,311.56	787.48	2,681.68	2,563.48	2.76	-0.44	0.092
65.00	-23.14	-4.61	0.00	-193.6	0.00	193.65	3,247.27	767.16	2,545.07	2,448.20	3.24	-0.47	0.086
70.00	-22.20	-4.53	0.00	-170.6	0.00	170.59	3,161.61	746.84	2,412.04	2,319.84	3.76	-0.51	0.081
75.00	-21.28	-4.45	0.00	-147.9	0.00	147.93	3,075.58	726.52	2,282.58	2,194.67	4.31	-0.54	0.074
80.00	-20.39	-4.37	0.00	-125.7	0.00	125.66	2,989.55	706.19	2,156.68	2,072.97	4.89	-0.57	0.067
85.00	-19.51	-4.30	0.00	-103.8	0.00	103.81	2,903.52	685.87	2,034.36	1,954.74	5.51	-0.6	0.060
89.00	-16.32	-3.88	0.00	-86.6	0.00	86.62	2,834.69	669.61	1,939.08	1,862.66	6.02	-0.62	0.052
90.00	-16.15	-3.86	0.00	-82.7	0.00	82.74	2,817.49	665.55	1,915.61	1,839.98	6.15	-0.63	0.051
92.00	-15.19	-3.63	0.00	-75.0	0.00	75.02	2,783.07	657.42	1,869.11	1,795.05	6.42	-0.64	0.047
92.71	-15.07	-3.61	0.00	-72.4	0.00	72.44	2,770.86	654.53	1,852.74	1,779.24	6.51	-0.64	0.046
95.00	-14.50	-3.57	0.00	-64.2	0.00	64.18	2,731.46	645.23	1,800.43	1,728.70	6.82	-0.65	0.042
97.29	-13.93	-3.52	0.00	-56.0	0.00	55.99	1,710.13	432.64	1,214.07	1,093.00	7.14	-0.66	0.059
100.00	-10.30	-2.86	0.00	-46.5	0.00	46.46	1,690.67	425.31	1,173.26	1,062.10	7.51	-0.67	0.050
105.00	-9.78	-2.80	0.00	-32.1	0.00	32.14	1,653.85	411.76	1,099.71	1,005.60	8.22	-0.69	0.038
108.00	-9.28	-2.71	0.00	-23.8	0.00	23.75	1,631.22	403.63	1,056.72	972.10	8.65	-0.7	0.030
110.00	-5.42	-1.79	0.00	-18.3	0.00	18.33	1,615.92	398.21	1,028.54	949.94	8.95	-0.7	0.023
112.00	-5.01	-1.69	0.00	-14.8	0.00	14.76	1,600.43	392.79	1,000.74	927.92	9.24	-0.7	0.019
115.00	-4.76	-1.63	0.00	-9.7	0.00	9.68	1,576.86	384.66	959.75	895.16	9.69	-0.71	0.014
120.00	0.00	-1.57	0.00	-1.5	0.00	1.53	1,536.68	371.11	893.35	841.35	10.43	-0.71	0.002

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period (S_S):	0.174
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.054
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a:	1.600
Site Coefficient F_v:	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.186
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.086
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_S:	0.030
Lower Limit C_S:	0.030
Period based on Rayleigh Method (sec):	1.940
Redundancy Factor (p):	1.000
Seismic Force Distribution Exponent (k):	1.720
Total Unfactored Dead Load:	39.420 k
Seismic Base Shear (E):	1.180 k

SEISMIC FORCES

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
32	117.5	404	1,455	0.020	24	500
31	113.5	249	844	0.012	14	308
30	111	168	550	0.008	9	208
29	109	203	641	0.009	11	251
28	106.5	308	936	0.013	15	381
27	102.5	523	1,491	0.021	25	648
26	98.6467	329	876	0.012	14	406
25	96.1467	566	1,445	0.020	24	700
24	93.855	572	1,401	0.020	23	708
23	92.355	117	280	0.004	5	145
22	91	338	784	0.011	13	418
21	89.5	170	384	0.005	6	210
20	87	688	1,478	0.021	24	851
19	82.5	878	1,722	0.024	28	1,086
18	77.5	897	1,581	0.022	26	1,110
17	72.5	917	1,441	0.020	24	1,134
16	67.5	937	1,302	0.018	21	1,159
15	62.5	956	1,165	0.016	19	1,183
14	57.5	976	1,030	0.014	17	1,207
13	53.415	629	585	0.008	10	778
12	50.915	701	600	0.008	10	867
11	48.0817	1,488	1,155	0.016	19	1,841
10	45.5817	265	188	0.003	3	328
9	42.5	1,155	725	0.010	12	1,428
8	37.5	1,178	596	0.008	10	1,457
7	32.5	1,201	475	0.007	8	1,485
6	27.5	1,224	364	0.005	6	1,514
5	22.5	1,247	262	0.004	4	1,542
4	17.5	1,270	174	0.002	3	1,571
3	12.5	1,293	99	0.001	2	1,599
2	7.5	1,316	42	0.001	1	1,628
1	2.5	1,339	6	0.000	0	1,656
Samsung B2/B66A RRH ORAN (RF 4439d-25A)	120	224	837	0.012	14	277
Samsung RF4461d-13A	120	237	886	0.012	15	294
RFS DB-B1-6C-12AB-0Z	120	43	160	0.002	3	53
Samsung MT6413-77A	120	172	642	0.009	11	213
Commscope NHH-65B-R2B	120	262	979	0.014	16	324
Antel LPA-80080/6CF ___	120	84	314	0.004	5	104

SEISMIC FORCES

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
Antel LPA-80063/6CF	120	54	202	0.003	3	67
Generic Flat Low Profile Platform	120	1,875	7,003	0.098	115	2,320
Unused Reserve (15665.9400 sqin)	120	1,424	5,317	0.074	88	1,761
Ericsson Air 6449 B77D	112	245	812	0.011	13	303
Raycap DC6-48-60-18-8F	110	20	64	0.001	1	25
Ericsson RRUS 8843 B2, B66A	110	216	695	0.010	11	267
Ericsson RRUS 4449 B5, B12	110	213	685	0.010	11	264
Ericsson RRUS 4478 B14	110	178	573	0.008	9	220
Raycap DC9-48-60-24-8C-EV	110	32	103	0.001	2	40
CCI TPA-65R-BU6DA-K	110	69	222	0.003	4	85
CCI DMP65R-BU6DA	110	79	255	0.004	4	98
CCI DMP65R-BU8D	110	191	616	0.009	10	237
CCI TPA65R-BU8D	110	165	531	0.007	9	204
Generic Round Platform with Handrails	110	2,500	8,041	0.112	133	3,093
Generic Round Platform with Handrails	100	2,500	6,826	0.095	113	3,093
Ericsson AIR 6419 B77G	108	198	618	0.009	10	245
Ericsson KRY 112 144/1	100	33	90	0.001	1	41
Ericsson KRY 112 489/2	100	46	126	0.002	2	57
Ericsson Radio 4449 B12,B71	100	222	606	0.008	10	275
RFS APX16DWV-16DWV-S-E-ACU	100	119	324	0.004	5	147
RFS APXVAARR24_43-U-NA20	100	384	1,048	0.015	17	475
Commscope RDIDC-9181-PF-48	92	22	52	0.001	1	27
Fujitsu TA08025-B605	92	225	532	0.007	9	278
Fujitsu TA08025-B604	92	192	454	0.006	7	237
JMA Wireless MX08FRO665-21	92	194	458	0.006	8	239
Generic Flat Platform with Handrails	89	2,500	5,588	0.078	92	3,093
	Totals:	**39,416**	**71,736**	**1.000**	**1,182**	**48,763**

SEISMIC FORCES

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
32	117.5	404	1,455	0.020	24	349
31	113.5	249	844	0.012	14	215
30	111	168	550	0.008	9	145
29	109	203	641	0.009	11	175
28	106.5	308	936	0.013	15	266
27	102.5	523	1,491	0.021	25	452
26	98.6467	329	876	0.012	14	283
25	96.1467	566	1,445	0.020	24	489
24	93.855	572	1,401	0.020	23	494
23	92.355	117	280	0.004	5	101
22	91	338	784	0.011	13	291
21	89.5	170	384	0.005	6	147
20	87	688	1,478	0.021	24	594
19	82.5	878	1,722	0.024	28	757
18	77.5	897	1,581	0.022	26	774
17	72.5	917	1,441	0.020	24	791
16	67.5	937	1,302	0.018	21	808
15	62.5	956	1,165	0.016	19	825
14	57.5	976	1,030	0.014	17	842
13	53.415	629	585	0.008	10	543
12	50.915	701	600	0.008	10	605
11	48.0817	1,488	1,155	0.016	19	1,284
10	45.5817	265	188	0.003	3	229
9	42.5	1,155	725	0.010	12	996
8	37.5	1,178	596	0.008	10	1,016
7	32.5	1,201	475	0.007	8	1,036
6	27.5	1,224	364	0.005	6	1,056
5	22.5	1,247	262	0.004	4	1,076
4	17.5	1,270	174	0.002	3	1,096

SEISMIC FORCES

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

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
3	12.5	1,293	99	0.001	2	1,115
2	7.5	1,316	42	0.001	1	1,135
1	2.5	1,339	6	0.000	0	1,155
Samsung B2/B66A RRH ORAN (RF 4439d-25A)	120	224	837	0.012	14	193
Samsung RF4461d-13A	120	237	886	0.012	15	205
RFS DB-B1-6C-12AB-0Z	120	43	160	0.002	3	37
Samsung MT6413-77A	120	172	642	0.009	11	148
Commscope NHH-65B-R2B	120	262	979	0.014	16	226
Antel LPA-80080/6CF ___	120	84	314	0.004	5	72
Antel LPA-80063/6CF	120	54	202	0.003	3	47
Generic Flat Low Profile Platform	120	1,875	7,003	0.098	115	1,618
Unused Reserve (15665.9400 sqin)	120	1,424	5,317	0.074	88	1,228
Ericsson Air 6449 B77D	112	245	812	0.011	13	211
Raycap DC6-48-60-18-8F	110	20	64	0.001	1	17
Ericsson RRUS 8843 B2, B66A	110	216	695	0.010	11	186
Ericsson RRUS 4449 B5, B12	110	213	685	0.010	11	184
Ericsson RRUS 4478 B14	110	178	573	0.008	9	154
Raycap DC9-48-60-24-8C-EV	110	32	103	0.001	2	28
CCI TPA-65R-BU6DA-K	110	69	222	0.003	4	60
CCI DMP65R-BU6DA	110	79	255	0.004	4	69
CCI DMP65R-BU8D	110	191	616	0.009	10	165
CCI TPA65R-BU8D	110	165	531	0.007	9	142
Generic Round Platform with Handrails	110	2,500	8,041	0.112	133	2,157
Generic Round Platform with Handrails	100	2,500	6,826	0.095	113	2,157
Ericsson AIR 6419 B77G	108	198	618	0.009	10	171
Ericsson KRY 112 144/1	100	33	90	0.001	1	28
Ericsson KRY 112 489/2	100	46	126	0.002	2	40
Ericsson Radio 4449 B12,B71	100	222	606	0.008	10	192
RFS APX16DWV-16DWV-S-E-ACU	100	119	324	0.004	5	103
RFS APXVAARR24_43-U-NA20	100	384	1,048	0.015	17	331
Commscope RDIDC-9181-PF-48	92	22	52	0.001	1	19
Fujitsu TA08025-B605	92	225	532	0.007	9	194
Fujitsu TA08025-B604	92	192	454	0.006	7	165
JMA Wireless MX08FRO665-21	92	194	458	0.006	8	167
Generic Flat Platform with Handrails	89	2,500	5,588	0.078	92	2,157
	Totals:	**39,416**	**71,736**	**1.000**	**1,182**	**34,011**

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-47.11	-1.18	0.00	-119.25	0.00	119.25	4,844.94	1,183.44	5,191	4,835.57	0.00	0.00	0.03
5.00	-45.48	-1.19	0.00	-113.32	0.00	113.32	4,775.31	1,159.73	4,985	4,669.74	0.00	-0.01	0.03
10.00	-43.88	-1.20	0.00	-107.37	0.00	107.37	4,704.55	1,136.02	4,784	4,505.63	0.02	-0.02	0.03
15.00	-42.31	-1.20	0.00	-101.40	0.00	101.40	4,632.67	1,112.31	4,586	4,343.33	0.04	-0.02	0.03
20.00	-40.77	-1.20	0.00	-95.41	0.00	95.41	4,559.67	1,088.61	4,393	4,182.90	0.07	-0.03	0.03
25.00	-39.25	-1.20	0.00	-89.41	0.00	89.41	4,485.55	1,064.90	4,203	4,024.42	0.11	-0.04	0.03
30.00	-37.77	-1.19	0.00	-83.43	0.00	83.43	4,407.69	1,041.19	4,018	3,865.64	0.16	-0.05	0.03
35.00	-36.31	-1.19	0.00	-77.46	0.00	77.46	4,307.32	1,017.48	3,837	3,690.72	0.21	-0.06	0.03
40.00	-34.88	-1.18	0.00	-71.52	0.00	71.52	4,206.95	993.77	3,661	3,519.85	0.28	-0.07	0.03
45.00	-34.55	-1.18	0.00	-65.62	0.00	65.62	4,106.58	970.06	3,488	3,353.03	0.35	-0.07	0.03
46.16	-32.71	-1.16	0.00	-64.25	0.00	64.25	4,083.23	964.54	3,449	3,314.80	0.37	-0.08	0.03
50.00	-31.84	-1.15	0.00	-59.80	0.00	59.80	4,006.21	946.35	3,320	3,190.26	0.44	-0.08	0.03
51.83	-31.07	-1.14	0.00	-57.69	0.00	57.69	3,414.21	820.69	2,913	2,755.48	0.47	-0.09	0.03
55.00	-29.86	-1.13	0.00	-54.07	0.00	54.07	3,374.74	807.81	2,822	2,680.46	0.53	-0.09	0.03
60.00	-28.68	-1.11	0.00	-48.43	0.00	48.43	3,311.56	787.48	2,682	2,563.48	0.63	-0.10	0.03
65.00	-27.52	-1.09	0.00	-42.88	0.00	42.88	3,247.27	767.16	2,545	2,448.20	0.74	-0.11	0.03
70.00	-26.38	-1.07	0.00	-37.42	0.00	37.42	3,161.61	746.84	2,412	2,319.84	0.85	-0.12	0.02
75.00	-25.27	-1.04	0.00	-32.08	0.00	32.08	3,075.58	726.52	2,283	2,194.67	0.98	-0.12	0.02

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
80.00	-24.19	-1.01	0.00	-26.87	0.00	26.87	2,989.55	706.19	2,157	2,072.97	1.11	-0.13	0.02
85.00	-23.34	-0.99	0.00	-21.79	0.00	21.79	2,903.52	685.87	2,034	1,954.74	1.25	-0.14	0.02
89.00	-20.03	-0.89	0.00	-17.83	0.00	17.83	2,834.69	669.61	1,939	1,862.66	1.36	-0.14	0.02
90.00	-19.62	-0.87	0.00	-16.94	0.00	16.94	2,817.49	665.55	1,916	1,839.98	1.39	-0.14	0.02
92.00	-18.69	-0.84	0.00	-15.20	0.00	15.20	2,783.07	657.42	1,869	1,795.05	1.45	-0.14	0.02
92.71	-17.98	-0.82	0.00	-14.60	0.00	14.60	2,770.86	654.53	1,853	1,779.24	1.47	-0.14	0.02
95.00	-17.28	-0.79	0.00	-12.73	0.00	12.73	2,731.46	645.23	1,800	1,728.70	1.54	-0.14	0.01
97.29	-16.87	-0.78	0.00	-10.92	0.00	10.92	1,710.13	432.64	1,214	1,093.00	1.61	-0.15	0.02
100.00	-12.14	-0.59	0.00	-8.82	0.00	8.82	1,690.67	425.31	1,173	1,062.10	1.70	-0.15	0.02
105.00	-11.76	-0.58	0.00	-5.86	0.00	5.86	1,653.85	411.76	1,100	1,005.60	1.85	-0.15	0.01
108.00	-11.26	-0.55	0.00	-4.13	0.00	4.13	1,631.22	403.63	1,057	972.10	1.95	-0.15	0.01
110.00	-6.52	-0.34	0.00	-3.02	0.00	3.02	1,615.92	398.21	1,029	949.94	2.01	-0.15	0.01
112.00	-5.91	-0.31	0.00	-2.35	0.00	2.35	1,600.43	392.79	1,001	927.92	2.08	-0.16	0.01
115.00	-5.41	-0.28	0.00	-1.42	0.00	1.42	1,576.86	384.66	960	895.16	2.18	-0.16	0.01
120.00	0.00	-0.27	0.00	0.00	0.00	0.00	1,536.68	371.11	893	841.35	2.34	-0.16	0.00

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-32.86	-1.18	0.00	-117.88	0.00	117.88	4,844.94	1,183.44	5,191	4,835.57	0.00	0.00	0.03
5.00	-31.72	-1.19	0.00	-111.96	0.00	111.96	4,775.31	1,159.73	4,985	4,669.74	0.00	-0.01	0.03
10.00	-30.61	-1.19	0.00	-106.02	0.00	106.02	4,704.55	1,136.02	4,784	4,505.63	0.02	-0.02	0.03
15.00	-29.51	-1.19	0.00	-100.07	0.00	100.07	4,632.67	1,112.31	4,586	4,343.33	0.04	-0.02	0.03
20.00	-28.43	-1.19	0.00	-94.11	0.00	94.11	4,559.67	1,088.61	4,393	4,182.90	0.07	-0.03	0.03
25.00	-27.38	-1.19	0.00	-88.16	0.00	88.16	4,485.55	1,064.90	4,203	4,024.42	0.11	-0.04	0.03
30.00	-26.34	-1.18	0.00	-82.22	0.00	82.22	4,407.69	1,041.19	4,018	3,865.64	0.16	-0.05	0.03
35.00	-25.33	-1.18	0.00	-76.31	0.00	76.31	4,307.32	1,017.48	3,837	3,690.72	0.21	-0.06	0.03
40.00	-24.33	-1.17	0.00	-70.43	0.00	70.43	4,206.95	993.77	3,661	3,519.85	0.28	-0.07	0.03
45.00	-24.10	-1.16	0.00	-64.60	0.00	64.60	4,106.58	970.06	3,488	3,353.03	0.35	-0.07	0.03
46.16	-22.82	-1.15	0.00	-63.24	0.00	63.24	4,083.23	964.54	3,449	3,314.80	0.37	-0.08	0.03
50.00	-22.21	-1.14	0.00	-58.85	0.00	58.85	4,006.21	946.35	3,320	3,190.26	0.43	-0.08	0.02
51.83	-21.67	-1.13	0.00	-56.77	0.00	56.77	3,414.21	820.69	2,913	2,755.48	0.46	-0.08	0.03
55.00	-20.83	-1.11	0.00	-53.19	0.00	53.19	3,374.74	807.81	2,822	2,680.46	0.52	-0.09	0.03
60.00	-20.00	-1.09	0.00	-47.63	0.00	47.63	3,311.56	787.48	2,682	2,563.48	0.62	-0.10	0.03
65.00	-19.19	-1.07	0.00	-42.16	0.00	42.16	3,247.27	767.16	2,545	2,448.20	0.73	-0.11	0.02
70.00	-18.40	-1.05	0.00	-36.79	0.00	36.79	3,161.61	746.84	2,412	2,319.84	0.84	-0.11	0.02
75.00	-17.63	-1.03	0.00	-31.53	0.00	31.53	3,075.58	726.52	2,283	2,194.67	0.97	-0.12	0.02
80.00	-16.87	-1.00	0.00	-26.41	0.00	26.41	2,989.55	706.19	2,157	2,072.97	1.10	-0.13	0.02
85.00	-16.28	-0.97	0.00	-21.42	0.00	21.42	2,903.52	685.87	2,034	1,954.74	1.23	-0.13	0.02
89.00	-13.97	-0.87	0.00	-17.53	0.00	17.53	2,834.69	669.61	1,939	1,862.66	1.34	-0.14	0.01
90.00	-13.68	-0.86	0.00	-16.66	0.00	16.66	2,817.49	665.55	1,916	1,839.98	1.37	-0.14	0.01
92.00	-13.03	-0.83	0.00	-14.94	0.00	14.94	2,783.07	657.42	1,869	1,795.05	1.43	-0.14	0.01
92.71	-12.54	-0.80	0.00	-14.36	0.00	14.36	2,770.86	654.53	1,853	1,779.24	1.45	-0.14	0.01
95.00	-12.05	-0.78	0.00	-12.52	0.00	12.52	2,731.46	645.23	1,800	1,728.70	1.52	-0.14	0.01
97.29	-11.77	-0.76	0.00	-10.74	0.00	10.74	1,710.13	432.64	1,214	1,093.00	1.59	-0.14	0.02
100.00	-8.47	-0.58	0.00	-8.67	0.00	8.67	1,690.67	425.31	1,173	1,062.10	1.67	-0.15	0.01
105.00	-8.20	-0.57	0.00	-5.76	0.00	5.76	1,653.85	411.76	1,100	1,005.60	1.83	-0.15	0.01
108.00	-7.85	-0.54	0.00	-4.06	0.00	4.06	1,631.22	403.63	1,057	972.10	1.92	-0.15	0.01
110.00	-4.55	-0.33	0.00	-2.97	0.00	2.97	1,615.92	398.21	1,029	949.94	1.99	-0.15	0.01
112.00	-4.12	-0.30	0.00	-2.31	0.00	2.31	1,600.43	392.79	1,001	927.92	2.05	-0.15	0.01
115.00	-3.77	-0.28	0.00	-1.40	0.00	1.40	1,576.86	384.66	960	895.16	2.15	-0.15	0.00
120.00	0.00	-0.27	0.00	0.00	0.00	0.00	1,536.68	371.11	893	841.35	2.31	-0.15	0.00

ANALYSIS SUMMARY

	Base Reactions						Max Usage	
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	22.65	0.00	47.27	0.00	0.00	2174.14	0.00	0.46
0.9D + 1.0W	22.63	0.00	35.44	0.00	0.00	2153.08	0.00	0.45
1.2D + 1.0Di + 1.0Wi	6.70	0.00	70.06	0.00	0.00	644.20	0.00	0.15
1.2D + 1.0Ev + 1.0Eh	1.20	0.00	47.11	0.00	0.00	119.25	0.00	0.03
0.9D - 1.0Ev + 1.0Eh	1.19	0.00	32.86	0.00	0.00	117.88	0.00	0.03
1.0D + 1.0W	5.51	0.00	39.41	0.00	0.00	526.25	0.00	0.12

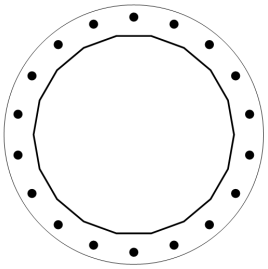
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
2174.14	47.27	22.65

PLATE PARAMETERS (ID# 28194)

Width:	64	in
Shape:	Round	
Thickness:	2.25	in
Grade:	A572-60	
Yield Strength:	60	ksi
Tensile Strength:	75	ksi
Rod Detail Type:	d	
Clear Distance	3	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	220	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F_y (ksi)	F_u (ksi)	Spacing (in)	Offset (°)
Original [ID#28936]	Radial	18	2.25	58	A615-75	75	100	-	10

COMPONENT PROPERTIES

Component	ID	Gross Area (in^2)	Net Area (in^2)	Individual Inertia (in^4)	Moment of Inertia (in^4)	Threads/in
Pole	49"ø x 0.4375" (18 Sides)	66.4082	-	-	19580.70	-
Bolt Group	Original (18) 2.25"ø	3.9761	3.2477	0.8393	22422.15	4.5

REACTION DISTRIBUTION

Component	ID	Moment M_u (k-ft)	Axial Load P_u (k)	Shear V_u (k)	Moment Factor
Pole	49"ø x 0.4375" (18 Sides)	2174.1	47.27	22.65	1.000
Bolt Group	Original (18) 2.25"ø	2174.1	-	22.65	1.000

BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	49.12	in	Flat Width:	8.662	in	Neutral Axis:	220	°
Point-to-Point Diameter:	49.88	in	Flat Radians:	0.349	rad	Bend Line Limits:	4.898 to 5.923	rad
Orientation Offset:	-	°						

PLATE PROPERTIES

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in^3)	Applied Moment M_u (k-in)	Moment Capacity ΦM_n (k-in)	Flexure Result $M_u/\Phi M_n$	
Flats	36.817	0.00	46.596	629.0	2516.2	25.0%	✓
Corners	35.783	0.00	45.288	511.8	2445.6	20.9%	✓
Circumferential	42.951	0.00	54.360	848.9	2935.4	28.9%	✓

PLASTIC ANCHOR ROD ANALYSIS

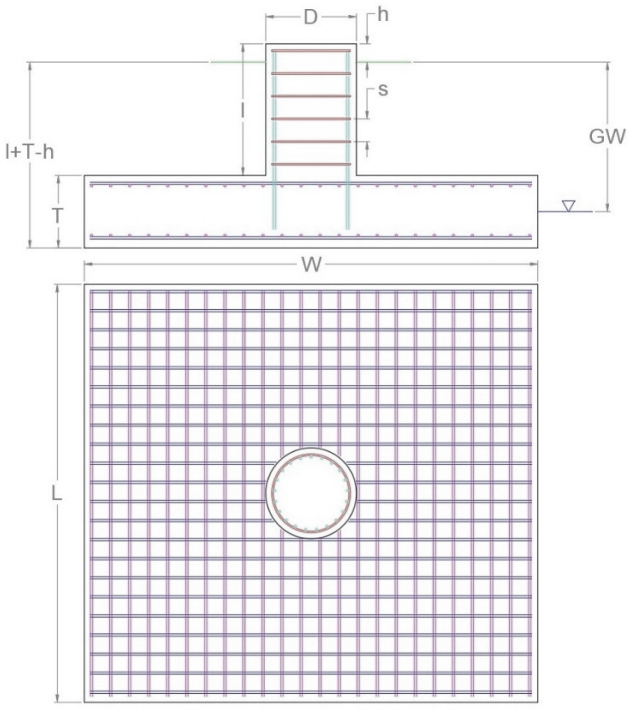
Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P_u (k)	Applied Shear Load V_u (k)	Compressive Capacity ΦP_n (k)	Interaction Result	
Original	18	2.25	87.0	1.9	243.6	37.3%	✓

APPLIED GLOBAL REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
2,174.14	47.27	22.65

FOUNDATION PARAMETERS

Mat Length:	L	24	ft
Mat Width:	W	24	ft
Mat Thickness:	T	3	ft
Base Depth:	L+T-h	4	ft
Pier Shape:		Round	
Pier Diameter:	D	7	ft
Pier Height above Grade:	h	1	ft
Concrete Compressive Strength:		4,000	psi
Mat Top Rebar:		(20) #9 bars [60 ksi]	
Mat Bottom Rebar:		(36) #9 bars [60 ksi]	
Pier Vertical Rebar:		(30) #9 bars [60 ksi]	
Pier Rebar Ties:	s	#4 bars @ 6.0" c/c [60 ksi]	
Rebar Clear Cover:		3.0	in
Tower Eccentricity:	ecc	0	ft
Tower Leg Count		1	



SOIL PARAMETERS

Water Table Depth [BGL]:	GW		ft
Soil Unit Weight:		125	pcf
Ultimate Skin Friction:		0	psf
Ultimate Bearing Pressure:		12,000	psf
Bearing Pressure Type:		Gross	
Coefficient of Shear Friction:		0.2	

SOIL STRENGTH ANALYSIS

Soil Strength Reduction Factor, Φ_s	Uplift Strength Reduction Factor, Φ_s	Asset Dead Load Factor	Dead Load Factor
0.75	0.75	0.9	1.2

SOIL OVERTURNING ANALYSIS

Design Moment, $M_{u,Design}$ (k-ft)	Nominal Overturning Capacity, $\Phi_m M_n$ (k-ft)	Soil Overturning Usage, $M_{u,Design} / \Phi_m M_n$	
2,287.39	4,217.92	**54.2%**	✓

SOIL BEARING ANALYSIS

Net Bearing Pressure, $P_{u,Net}$ (psf)	Nominal Bearing Capacity, $\Phi_b P_n$ (k-ft)	Bearing Pressure Controlling Load Direction	Soil Bearing Usage, $P_{u,net} / \Phi_b P_n$	
1,367.00	9,000.00	Diagonal to Pad Edge	**15.2%**	✓

SOIL SLIDING SHEAR ANALYSIS

Applied Shear Force, V_u (k)	Friction Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Nominal Shear Capacity, $\Phi_s V_n$ (k)	Soil Sliding Shear Usage, $V_u / \Phi_s V_n$	
22.65	0.00	312.5	22.50	73.47	**31.0%**	✓

MAT REINFORCING STEEL STRENGTH ANALYSIS

Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, Φ_b	Strength Shear Reduction Factor, Φ_v	Strength Compression Reduction Factor, Φ_c
29,000	0.9	0.75	0.65

MAT REINFORCING ONE WAY SHEAR ANALYSIS

One Way Design Shear, V_u (k)	Nominal One Way Shear Capacity, $\Phi_c V_n$ (k)	One Way Shear Controlling Load Direction	Mat One Way Shear Usage, $V_u / \Phi_c V_n$	
101.40	784.84	Diagonal to Pad Edge	**12.9%**	✓

MAT REINFORCING PUNCHING SHEAR ANALYSIS

Punching Shear Design Stress, v_u (psi)	Nominal Punching Shear Capacity, $\Phi_c v_n$ (psi)	Mat Punching Shear Usage, $v_u / \Phi_c v_n$	
26.7	189.7	**14.1%**	✓

MAT REINFORCING MOMENT TRANSFER ANALYSIS

Moment Transfer Effective Flexural Width, w_f (in)	Neutral Axis Depth (in)	Pier Moment at Joint, M_{ut} (k-in)	Nominal Moment Transfer Capacity, $\Phi M_{sc,f}$ (k-in)	Mat Moment Transfer Usage, $0.6\ M_{ut} / \Phi M_{sc,f}$	
16.00	2.29	0.00	41,514.8	**0.0%**	✓

MAT REINFORCING FLEXURE ANALYSIS – UPPER STEEL

Factored Moment, M_u (k-ft)	Nominal Flexural Capacity, ΦM_n (k-ft)	Flexural Steel Controlling Load Direction	Mat Upper Rebar Flexure Usage, $M_u / \Phi M_n$	
498.52	2,821.88	Parallel to Pad Edge	**17.7%**	✓

MAT REINFORCING FLEXURE ANALYSIS – LOWER STEEL

Factored Moment, M_u (k-ft)	Nominal Flexural Capacity, ΦM_n (k-ft)	Flexural Steel Controlling Load Direction	Mat Lower Rebar Flexure Usage, $M_u / \Phi M_n$	
742.90	5,011.88	Parallel to Pad Edge	**14.8%**	✓

PIER REINFORCING STEEL STRENGTH ANALYSIS

Rebar Cage Diameter (in)	Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, Φ_b	Strength Shear Reduction Factor, Φ_v	Strength Compression Reduction Factor, Φ_c
75.88	29,000	0.9	0.75	0.65

PIER REINFORCING MOMENT ANALYSIS

Design Moment, M_u (k-ft)	Nominal Moment Capacity, $\Phi_b M_n$ (k-ft)	Bending Reinforcement Ratio	Pier Rebar Flexure Usage, $M_u/\Phi_b M_n$	
2,219.44	5,012.71	0.005	**44.3%**	✓

PIER REINFORCING COMPRESSION ANALYSIS

Design Compression, P_u (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$	
47.27	9,776.01	**0.5%**	✓

PIER REINFORCING SHEAR ANALYSIS

Design Shear, V_u (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$	
22.65	729.58	**3.1%**	✓

Town of Canton, CT

Property Listing Report

Map Block Lot	21/101/0650	Building #	1	Section #		Account	1010650

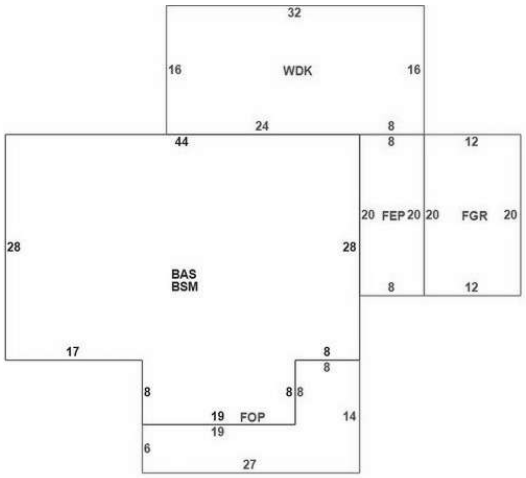
Property Information

Property Location	650 ALBANY TURNPIKE
Owner	PERRY LANSFORD W
Co-Owner	na
Mailing Address	PO BOX 1 CANTON CENTER CT 06020
Land Use	101 Single Family
Land Class	R
Zoning Code	R-2
Census Tract	R-2

Street Index	G1
Acreage	10.61
Utilities	UNKNOWN
Lot Setting/Desc	UNKNOWN UNKNOWN
Additional Info	

Photo

Sketch



Primary Construction Details

Year Built	1957
Stories	1.00
Building Style	Ranch
Building Use	Residential
Building Condition	A
Interior Floors 1	Hardwood
Interior Floors 2	na
Total Rooms	6
Basement Garages	
Occupancy	1.00
Building Grade	C

Bedrooms	3 Bedrooms
Full Bathrooms	1
Half Bathrooms	2
Extra Fixtures	0
Bath Style	Typical
Kitchen Style	Typical
Roof Style	Gable
Roof Cover	Asphalt
AC Type	0
Fireplaces	

Exterior Walls	Wood Shingle
Exterior Walls 2	na
Interior Walls	Drywall
Interior Walls 2	na
Heating Type	Hot Water
Heating Fuel	Oil
Sq. Ft. Basement	0
Fin BSMT Quality	
Extra Kitchens	1

Report Created On 3/15/2024

Town of Canton, CT

Property Listing Report

Map Block Lot	21/101/0650	Building #	1	Section #		Account	1010650

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	235020	164510
Extras	0	0
Improvements		
Outbuildings	1530	1070
Land	136130	76540
Total	372680	242120

Outbuilding and Extra Features

Type	Description
Shed	144.00 S.F.
Shed	720.00 S.F.
Shed	144.00 S.F.
Solar Panels	18.00 UNITS

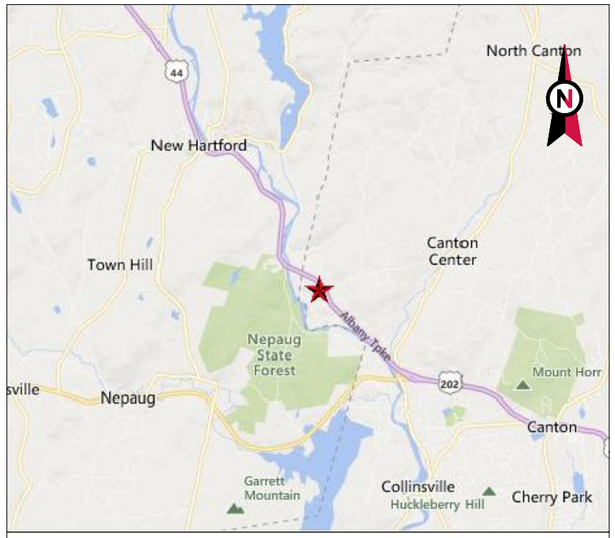
Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	1384	1384
Basement	1384	0
Finished Enclosed Porch	160	0
Garage	240	0
Open Porch	226	0
Wood Deck	512	0
Total Area	3906	1384

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
PERRY LANSFORD W	460/79	2020-12-30	275000
CHELLMAN ANDREW	384/386	2011-02-18	0
CHELLMAN ANDREW	379/1112	2010-09-27	325000
LALLY EDWARD T JR	163/559	1989-03-31	0

Report Created On 3/15/2024



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: CT COLLINSVILLE CAC 802816 CT
ATC SITE NUMBER: 411259
VERIZON SITE NAME: COLLINSVILLE CT
VERIZON SITE NUMBER: 5000382696
VERIZON FUZE PID: 16271924
SITE ADDRESS: 650 ALBANY TURNPIKE
COLLINSVILLE,CT 06019

LOCATION MAP

VERIZON AMENDMENT DRAWINGS

COMPLIANCE CODE

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

2021 IBC
NATIONAL ELECTRICAL CODE (NFPA 70, NEC 2020 W/ AMND)
2022 CONNECTICUT STATE BUILDING CODE, IMC PORTION (IMC 2021 W/ AMND)
2022 CONNECTICUT STATE BUILDING CODE, IPC PORTION (IPC 2021 W/ AMND)
2022 CONNECTICUT STATE BUILDING CODE, IECC PORTION (IECC 2021 W/ AMND)
PART III OF THE 2022 CT STATE FIRE SAFETY CODE (IFC 2021 W/ AMND)
2022 CONNECTICUT STATE BUILDING CODE, IEBC PORTION (IEBC 2021 W/ AMND)
2022 CONNECTICUT STATE BUILDING CODE
2022 CONNECTICUT STATE BUILDING CODE, IRC PORTION (IRC 2021 W/ AMND)
CONNECTICUT STATE FUEL GAS CODE (IFGC 2021 W/ AMND)

UTILITY COMPANIES

POWER COMPANY: NORTH UTILITY SERVICE
PHONE: (800) 286-2000

TELEPHONE COMPANY: SNET
PHONE: (203) 771-5200

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

PROJECT SUMMARY

SITE ADDRESS:

650 ALBANY TURNPIKE
COLLINSVILLE,CT 06019
COUNTY: HARTFORD

GEOGRAPHIC COORDINATES:

LATITUDE: 41° 51' 2.117" N

LONGITUDE: 72° 56' 55.481" W

GROUND ELEVATION: 492' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS

ENGINEER:

A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN, STE 300
CARY, NC 27511

PROPERTY OWNER:

LANDMARK INFRASTRUCTURE OPERATING COMPANY, LLC
650 ALBANY TURNPIKE
COLLINSVILLE,CT 06019

PROJECT DESCRIPTION

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

TOWER WORK:
REMOVE (6) ANTENNA(s) AND (12) 1-5/8" COAX CABLE(s)
INSTALL MOUNT MODIFICATIONS, (9) ANTENNA(s), (3) SBS MOUNT(s), (6) RRH(s), (2) OVP(s), AND (2) 6X12 HYBRID CABLE(s)
EXISTING (6) ANTENNA(s) AND (6) 1-5/8" COAX CABLE(s) TO REMAIN

GROUND WORK:
EQUIPMENT TO BE REMOVED/INSTALLED PER LATEST VERIZON RFDS EQUIPMENT SUMMARY

PROJECT NOTES

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

PROJECT LOCATION DIRECTIONS

FROM 99 EAST RIVER DR....I-84 WEST TO US-44 WEST/MAIN ST. (I-91) CONTINUE ON US-44 WEST....US-WEST/US 202 BECOMES US-44 WEST/US-202 SOUTH...CONTINUE ON US-44 WEST...ARRIVE AT 650 ALBANY TPKE COLLINSVILLE LOOK FOR MAILBOX WITH 650 ON IT GO UP THE DRIVEWAY AND SITE IS PAST THE HOUSE

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	3/7/2024	TJC
G-002	GENERAL NOTES	0	3/7/2024	TJC
C-101	DETAILED SITE PLAN	0	3/7/2024	TJC
C-201	TOWER ELEVATION	0	3/7/2024	TJC
C-401	ANTENNA INFORMATION & SCHEDULE	0	3/7/2024	TJC
C-501	CONSTRUCTION DETAILS	0	3/7/2024	TJC
E-501	GROUNDING DETAILS	0	3/7/2024	TJC
R-601	SUPPLEMENTAL			

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT:	HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT NUMBER:	10218124
VZW LOCATION CODE (PSLC):	5000382696

***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED:	YES
VZW APPROVED SMART KIT VENDORS:	REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS

AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	3/7/2024

ATC SITE NUMBER:
411259
ATC SITE NAME:
CT COLLINSVILLE CAC 802816 CT
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SITE ADDRESS:
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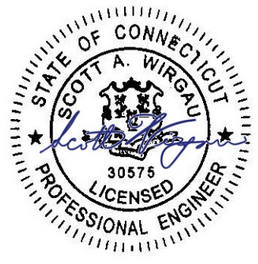
SEAL:



verizon

ATC JOB NO:	14686555_G0
CUSTOMER ID:	COLLINSVILLE CT
CUSTOMER #:	5000382696

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

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

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL/HYBRID CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.
   - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
   - E. INSTALL COAXIAL/HYBRID CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
2. ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:
   - A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
   - B. ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

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

AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	3/7/2024

ATC SITE NUMBER:
411259
ATC SITE NAME:
CT COLLINSVILLE CAC 802816 CT
VERIZON SITE NAME:
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650 ALBANY TURNPIKE
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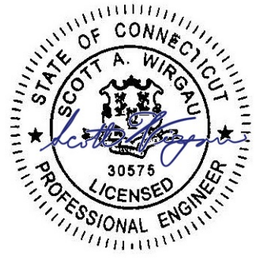
SEAL:



Digitally Signed: 2024-03-08

verizon

ATC JOB NO:	14686555_G0
CUSTOMER ID:	COLLINSVILLE CT
CUSTOMER #:	5000382696

GENERAL NOTES

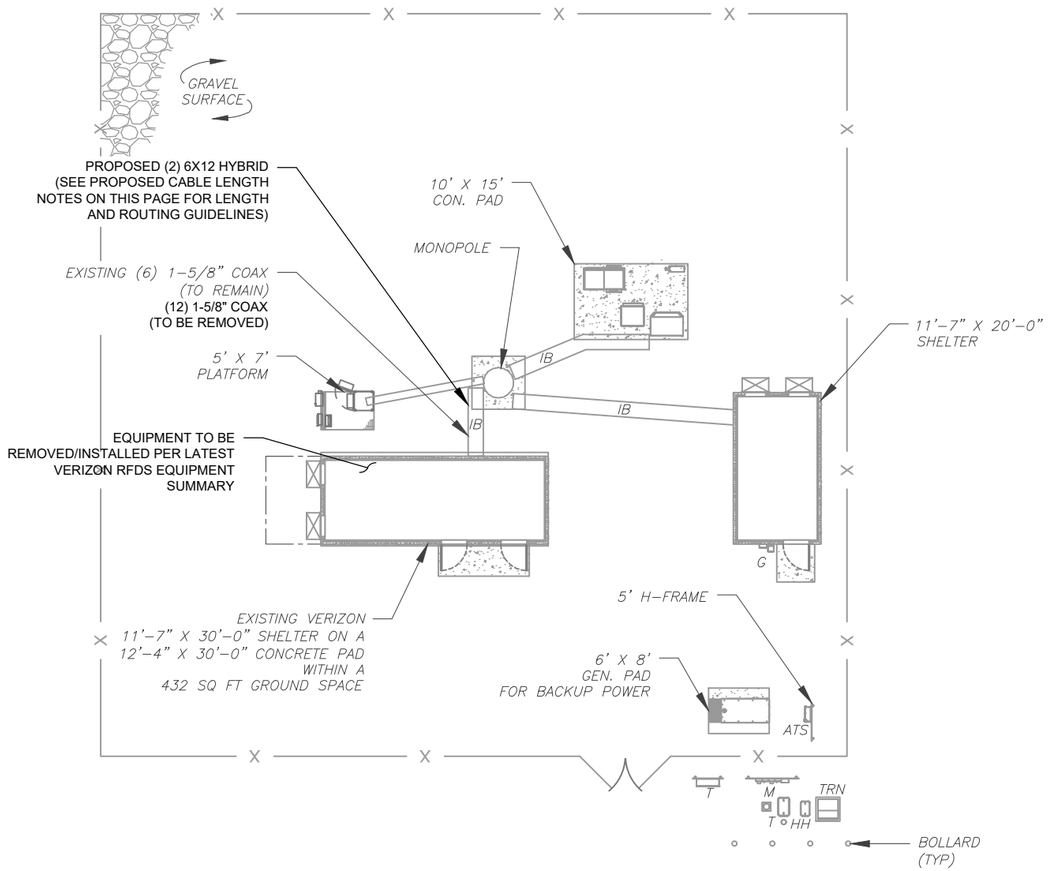
SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

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

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

3. NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.



1 DETAILED SITE PLAN

GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 UNIT = 20 FEET

N

LEGEND

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

PROPOSED CABLE NOTES:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **167'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

AMERICAN TOWER®

A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	3/7/2024

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411259

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CT COLLINSVILLE CAC 802816 CT

VERIZON SITE NAME:
COLLINSVILLE CT

SITE ADDRESS:
650 ALBANY TURNPIKE
COLLINSVILLE,CT 06019

SEAL:

STATE OF CONNECTICUT · SCOTT A. WIRGAU · 30575 · LICENSED PROFESSIONAL ENGINEER

Digitally Signed: 2024-03-08

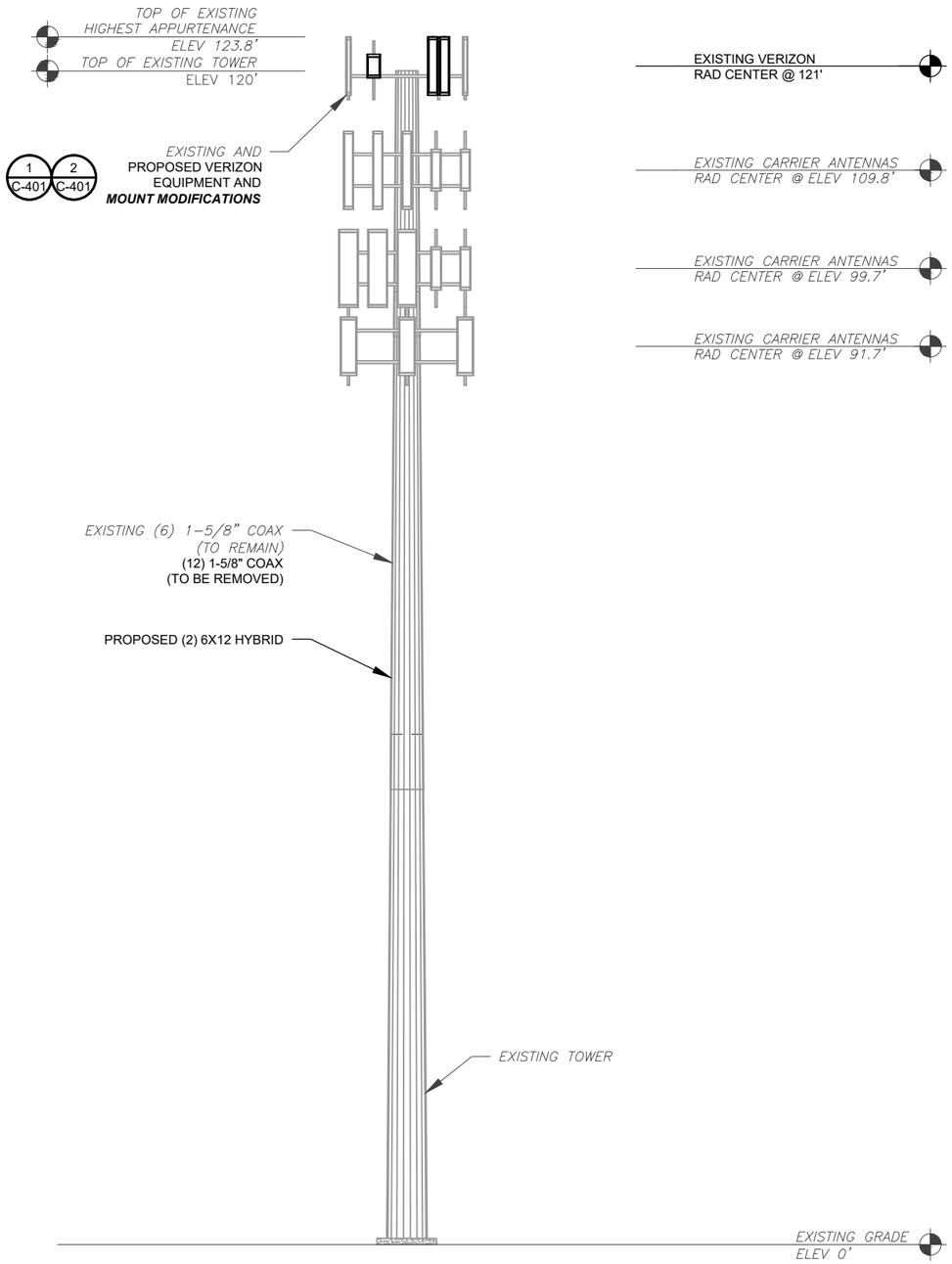
verizon

ATC JOB NO:	14686555_G0
CUSTOMER ID:	COLLINSVILLE CT
CUSTOMER #:	5000382696

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING AND DESIGN, DATED 01/10/2024, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



1 TOWER ELEVATION
SCALE: N.T.S.

ALL ELEVATIONS REFLECT ABOVE GROUND LEVEL (A.G.L.)

TOWER NOTE:

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

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CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	3/7/2024

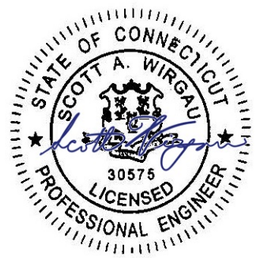
ATC SITE NUMBER:
411259

ATC SITE NAME:
CT COLLINSVILLE CAC 802816 CT

VERIZON SITE NAME:
COLLINSVILLE CT

SITE ADDRESS:
650 ALBANY TURNPIKE
COLLINSVILLE,CT 06019

SEAL:



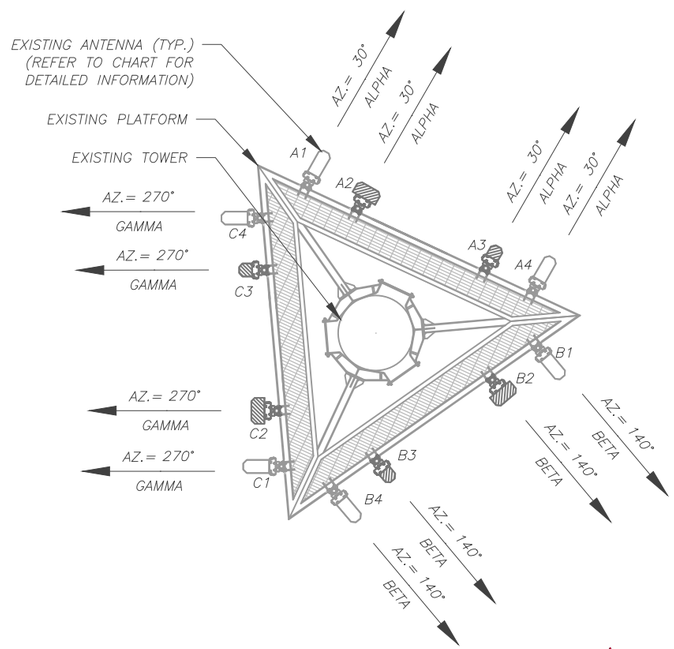
Digitally Signed: 2024-03-08

verizon

ATC JOB NO:	14686555_G0
CUSTOMER ID:	COLLINSVILLE CT
CUSTOMER #:	5000382696

TOWER ELEVATION

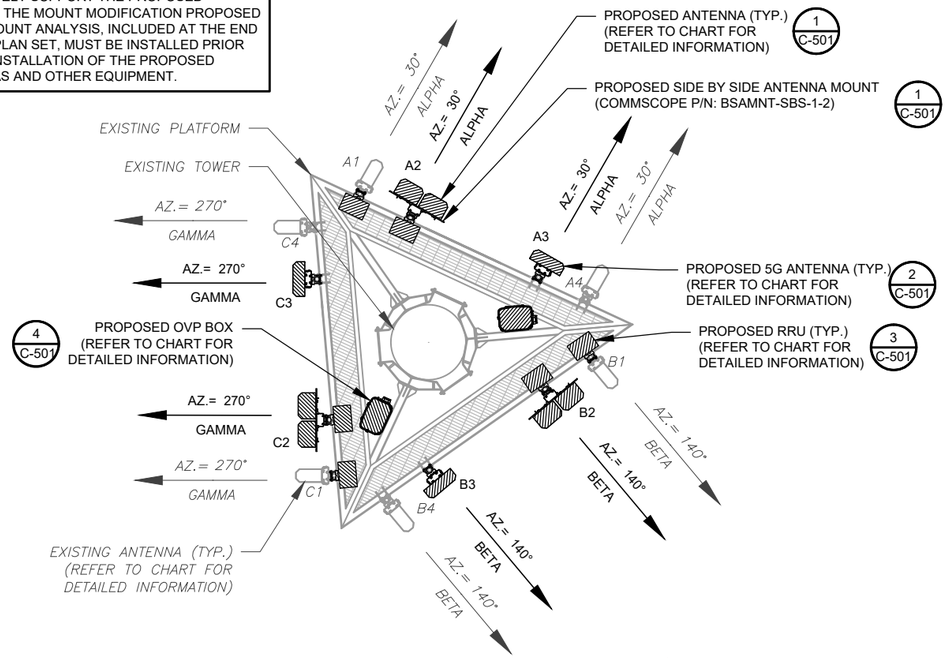
SHEET NUMBER:	REVISION:
C-201	0



1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING AND DESIGN, DATED 01/10/2024, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	121'	30°	A1	LPA-80080/6CF	850 CDMA	RMN	–	–
			A2	BXA-70063-6CF	700 LTE	RMV	–	–
			A3	BXA-171085-12BF	700 LTE	RMV	–	–
			A4	LPA-80080/6CF	850 CDMA	RMN	–	–
BETA	121'	140°	B1	LPA-80063/6CF	850 CDMA	RMN	–	–
			B2	BXA-70063-6CF	700 LTE	RMV	–	–
			B3	BXA-171085-12BF	700 LTE	RMV	–	–
			B4	LPA-80063/6CF	850 CDMA	RMN	–	–
GAMMA	121'	270°	C1	LPA-80080/6CF	850 CDMA	RMN	–	–
			C2	BXA-70063-6CF	700 LTE	RMV	–	–
			C3	BXA-171085-12BF	700 LTE	RMV	–	–
			C4	LPA-80080/6CF	850 CDMA	RMN	–	–

NOTES

1. GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.
2. GC TO CAP ALL UNUSED PORTS.
3. GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

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

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	121'	30°	A1	LPA-80080/6CF	850 CDMA	RMN	RF4461D-13A	ADD
			A2	(2) NHH-65B-R2B	700/850/1900/AWS LTE 850 5G	ADD	RF4439D-25A	ADD
			A3	MT6413-77A	L-SUB6 5G	ADD	-	-
			A4	LPA-80080/6CF	850 CDMA	RMN	-	-
BETA	121'	140°	B1	LPA-80063/6CF	850 CDMA	RMN	RF4461D-13A	ADD
			B2	(2) NHH-65B-R2B	700/850/1900/AWS LTE 850 5G	ADD	RF4439D-25A	ADD
			B3	MT6413-77A	L-SUB6 5G	ADD	-	-
			B4	LPA-80063/6CF	850 CDMA	RMN	-	-
GAMMA	121'	270°	C1	LPA-80080/6CF	850 CDMA	RMN	RF4461D-13A	ADD
			C2	(2) NHH-65B-R2B	700/850/1900/AWS LTE 850 5G	ADD	RF4439D-25A	ADD
			C3	MT6413-77A	L-SUB6 5G	ADD	-	-
			C4	LPA-80080/6CF	850 CDMA	RMN	-	-

EXISTING FIBER DISTRIBUTION / OVP BOX

MODEL NUMBER	STATUS
–	RMN
–	RMV

EXISTING CABLING SUMMARY

CABLE QTY, SIZE, TYPE	STATUS
(6) 1-5/8" COAX	RMN
(12) 1-5/8" COAX	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX

MODEL NUMBER	STATUS
–	RMN
(2) DB-B1-6C-12AB-0Z	ADD

FINAL CABLING SUMMARY

CABLE QTY, SIZE, TYPE	STATUS
(6) 1-5/8" COAX	RMN
(2) 6X12 HYBRID	ADD

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0	FOR CONSTRUCTION	TJC	3/7/2024

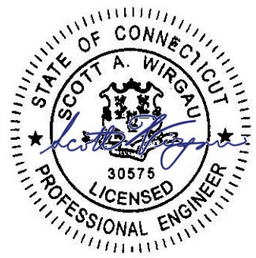
ATC SITE NUMBER:
411259

ATC SITE NAME:
CT COLLINSVILLE CAC 802816 CT

VERIZON SITE NAME:
COLLINSVILLE CT

SITE ADDRESS:
650 ALBANY TURNPIKE
COLLINSVILLE,CT 06019

SEAL:



Digitally Signed: 2024-03-08

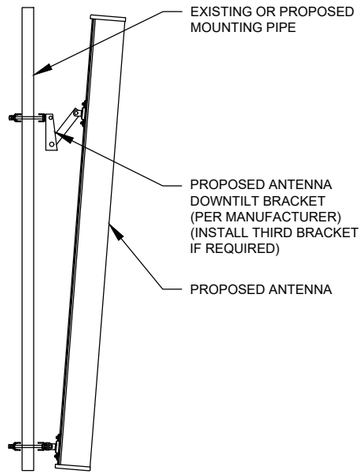
verizon

ATC JOB NO:	14686555_G0
CUSTOMER ID:	COLLINSVILLE CT
CUSTOMER #:	5000382696

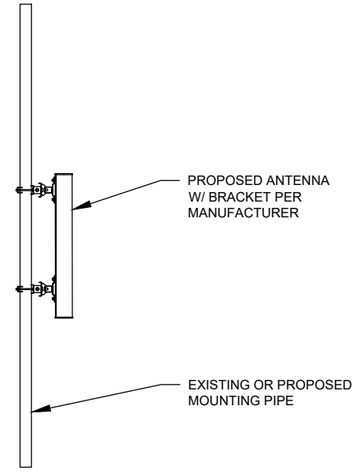
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

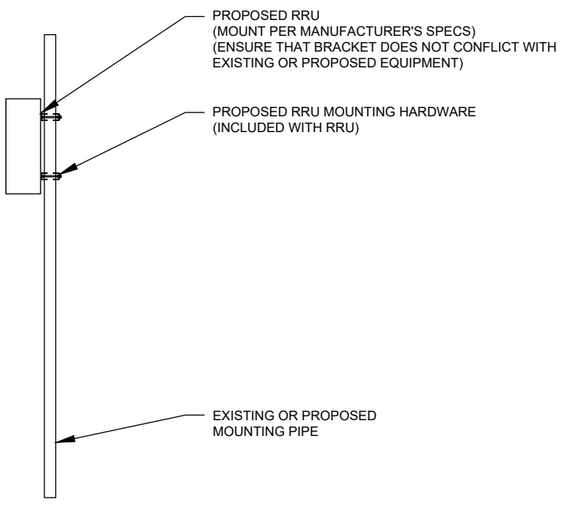
EXISTING/PROPOSED MOUNTS AND/OR MOUNT MODIFICATIONS NOT SHOWN FOR CLARITY. REFER TO ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



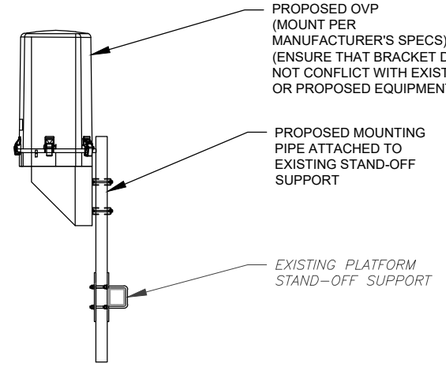
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



4 PROPOSED OVP MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.

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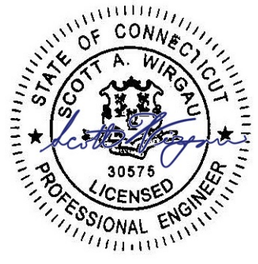
REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	3/7/2024

ATC SITE NUMBER:
411259
ATC SITE NAME:
CT COLLINSVILLE CAC 802816 CT
VERIZON SITE NAME:
COLLINSVILLE CT
SITE ADDRESS:
650 ALBANY TURNPIKE
COLLINSVILLE,CT 06019

SEAL:



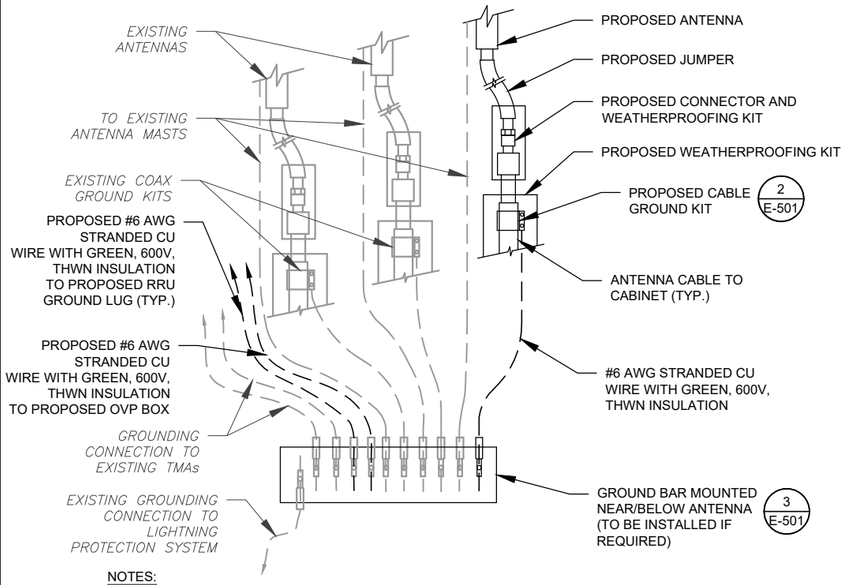
Digitally Signed: 2024-03-08

verizon

ATC JOB NO:	14686555_G0
CUSTOMER ID:	COLLINSVILLE CT
CUSTOMER #:	5000382696

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

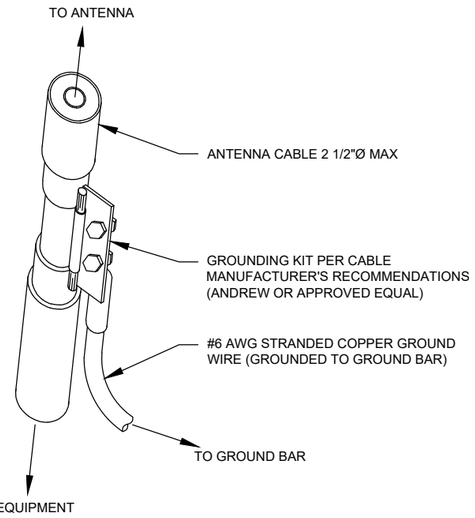


NOTES:

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

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

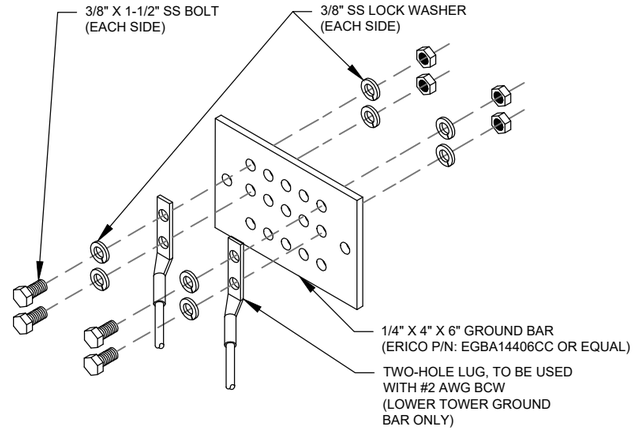


GROUND KIT NOTES:

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

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.



GROUND BAR NOTES:

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

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	3/7/2024

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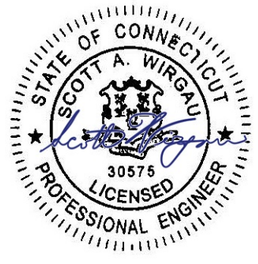

Digitally Signed: 2024-03-08

verizon

ATC JOB NO:	14686555_G0
CUSTOMER ID:	COLLINSVILLE CT
CUSTOMER #:	5000382696

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

Colliers Engineering & Design, Architecture,
Landscape Architecture, Surveying, CT P.C.
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10218124
Colliers Engineering & Design Project #: 21777759 (Rev.1)

January 8, 2024

Site Information

Site ID:	*5000382696-VZW / COLLINSVILLE CT*
Site Name:	*COLLINSVILLE CT*
Carrier Name:	*Verizon Wireless*
Address:	*650 Albany Turnpike* *Collinsville, Connecticut 06022* *Hartford County*
Latitude:	*41.850564°*
Longitude:	*-72.948725°*

Structure Information

Tower Type:	*120-Ft Self Support*
Mount Type:	*13.08-Ft Platform*

FUZE ID # 16271924

Analysis Results

Platform: **86.2% Pass w/ Hardware Upgrades***

*** 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: Selene Chen

STATE OF CONNECTICUT · DEJIAN XU · No. 33733 · LICENSED PROFESSIONAL ENGINEER

01/10/2024

1 MOUNT ANALYSIS

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	14.2	14.2	33.6	33.6
0.5	18.0	18.0	45.5	45.5
1	21.7	21.7	57.4	57.4

Notes:
- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor shall install a new 42" long PIPE 2 SCH 40 OVP pipe between Alpha and Beta, Beta and Gamma sector standoff horizontals.

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

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

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-601	0

RF Design and Services
326 Tyron Road
Raliegh, North Carolina 27603
(612)965-8225
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Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:
411259

Site Name:
CT Collinsville CAC 802816 CT

Location:
Collinsville, Connecticut

Tenants:
AT&T Mobility, T-Mobile, Dish Wireless, & Verizon Wireless

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

March 3rd, 2024

69002 P-421191

Prepared By:

Adam Carlson MS, CBRE, CPI
Program Manager RF Design & Service
Tower Engineering Professionals

Approved By:

RF Design and Services
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Contents

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Non-Ionizing Electromagnetic Radiation (NIER) Study

411259 CT Collinsville CAC 802816 CT
Collinsville, Connecticut

INTRODUCTION

Tower Engineering Professionals RF Design & Services Division (TEP-RF) of Raleigh, North Carolina, has been retained by American Tower, Inc. (ATC), of Woburn, Massachusetts to evaluate the RF emissions compared to the Maximum Permissible Exposure (MPE) limit for facilities at this location. This evaluation uses compliance standards as outlined in Federal Communications Commission (FCC) document OET-65.

SITE AND FACILITY CONSIDERATIONS

Site 411259 CT Collinsville CAC 802816 CT is located at 650 Albany Turnpike, in Collinsville, Connecticut at coordinates 41.850588, -72.948745. The support structure is a 121' monopole. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are AT&T Mobility (AT&T), T-Mobile (T-Mobile) Dish Wireless (Dish), & Verizon Wireless (VZW). A table listing all antennae and effective radiated power (ERP) levels that were used in this study may be found in Appendix 2, Antenna Inventory.

POWER DENSITY CALCULATIONS

Power densities were calculated based on FCC MPE limits for both General Population/Uncontrolled and Occupational/Controlled environments.

For the purpose of this study, a radius of 100' from the base of the tower with a height of 6' above ground level was used, beyond 100' the MPE levels become *di minimus*. This study utilized FCC recognized and accepted software programs using the maximum ERP levels for the antenna models provided by ATC. Diagrams depicting the predicted spatial average power density level at any specific location may be found in Appendix 3, MPE Limit Study. A discussion regarding the FCC limits may be found in Appendix 4, Information Pertaining to MPE Studies. Study methodology describing Non-ionizing Radiation Prediction Models used in this study may be found in Appendix 5, MPE Standards Methodology.

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All data used in this study was collected from one or more of the following sources:

- ATC furnished data and does not include other unidentified communication facilities.
- Load List at 411259 CT Collinsville CAC 802816 CT.RF NIER Study 01/04/24.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

SITE MITIGATION & CONTROL

In order to comply with FCC, tenant, & ATC requirements, TEP recommends the placement of signage at the base of the tower and all compound access points to alert workers of potential exposure to RF fields while working on or near the antennae.

TEP recommends that all personnel working on this tower be trained in RF safety procedures and carry a personal RF monitor at all times.

COMPLIANCE DETERMINATION

This installation ***IS*** in compliance with current FCC MPE limits as described in FCC OET-65.

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APPENDIX 1 Site Photos

Aerial View of Site

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Appendix 2.1 Antenna Inventory

411259 CT Collinsville CAC 802816 CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azmiuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	Verizon	Samsung	MT6413-77A	3700-3900	030	18286	121.0
2	Verizon	Samsung	MT6413-77A	3700-3900	140	18286	121.0
3	Verizon	Samsung	MT6413-77A	3700-3900	270	18286	121.0
4	Verizon	Antel	LPA-80080/6CF	800	030	39355	121.0
5	Verizon	Antel	LPA-80080/6CF	800	140	39355	121.0
6	Verizon	Antel	LPA-80080/6CF	800	270	39355	121.0
7	Verizon	Antel	LPA-80080/6CF	800	030	39355	121.0
8	Verizon	Antel	LPA-80080/6CF	800	140	39355	121.0
9	Verizon	Antel	LPA-80080/6CF	800	270	39355	121.0
10	Verizon	Commscope	NHH-65B-R2B	700/800/1900/2100	030	70018	121.0
11	Verizon	Commscope	NHH-65B-R2B	700/800/1900/2100	140	70018	121.0
12	Verizon	Commscope	NHH-65B-R2B	700/800/1900/2100	270	70018	121.0
13	Verizon	Commscope	NHH-65B-R2B	700/800/1900/2100	030	70018	121.0
14	Verizon	Commscope	NHH-65B-R2B	700/800/1900/2100	140	70018	121.0
15	Verizon	Commscope	NHH-65B-R2B	700/800/1900/2100	270	70018	121.0
16	AT&T	Ericsson	6449	3700-3900	023	71639	110.0
17	AT&T	Ericsson	6449	3700-3900	143	71639	110.0
18	AT&T	Ericsson	6449	3700-3900	263	71639	110.0
19	AT&T	CCI	TPA-65R-BU6DA-K	1900/2100	263	36002	110.0
20	AT&T	CCI	TPA65R-BU8D	1900/2100	023	36002	110.0
21	AT&T	CCI	TPA65R-BU8D	1900/2100	143	36002	110.0

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Appendix 2.2 Antenna Inventory

411259 CT Collinsville CAC 802816 CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azmiuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
22	AT&T	CCI	DMP65R-BU8D	1900/2100	023	36002	110.0
23	AT&T	CCI	DMP65R-BU8D	1900/2100	143	36002	110.0
24	AT&T	CCI	DMP65R-BU6DA	1900/2100	263	36002	110.0
25	AT&T	Ericsson	6419	3700-3900	023	71639	110.0
26	AT&T	Ericsson	6419	3700-3900	143	71639	110.0
27	AT&T	Ericsson	6419	3700-3900	263	71639	110.0
28	T-Mobile	RFS	APXVAARR24	600/700	120	10543	100.0
29	T-Mobile	RFS	APXVAARR24	600/700	230	10543	100.0
30	T-Mobile	RFS	APXVAARR24	600/700	340	10543	100.0
31	T-Mobile	RFS	APX16DWV	1900/2100	120	10543	100.0
32	T-Mobile	RFS	APX16DWV	1900/2100	230	10543	100.0
33	T-Mobile	RFS	APX16DWV	1900/2100	340	10543	100.0
34	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	000	40000	92.0
35	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	120	40000	92.0
36	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	240	40000	92.0
37	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	154	40000	91.7
38	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	050	40000	91.7
39	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	252	40000	91.7
40	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	000	40000	91.0
41	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	120	40000	91.0

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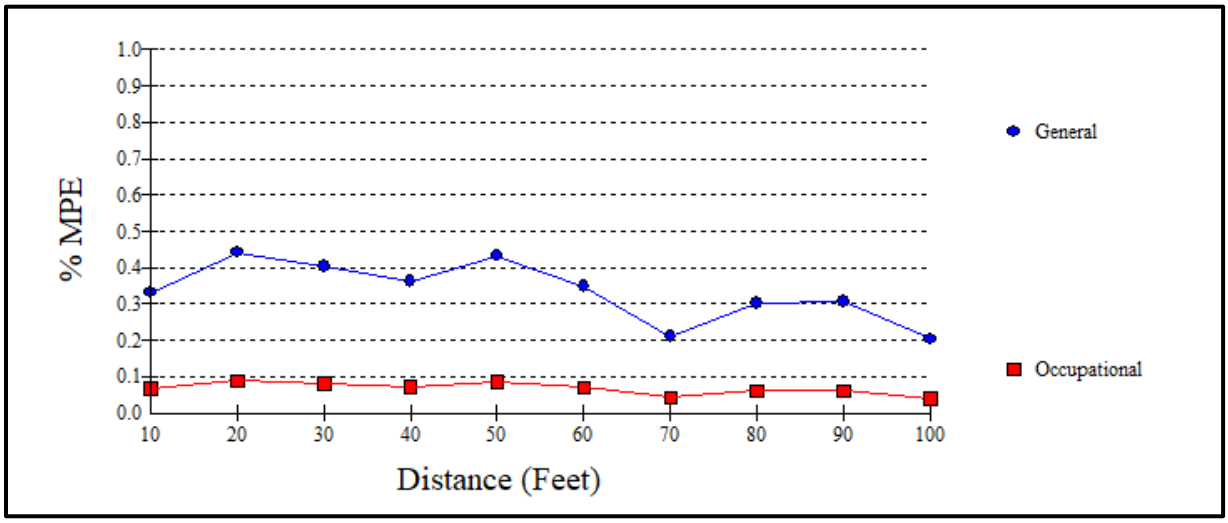
Appendix 3.1 MPE Limit Study



Maximum Power Density (@20'):	0.00286 mW/cm²
General Population MPE (@20'):	0.4425%
Occupational MPE (@20'):	0.0885%

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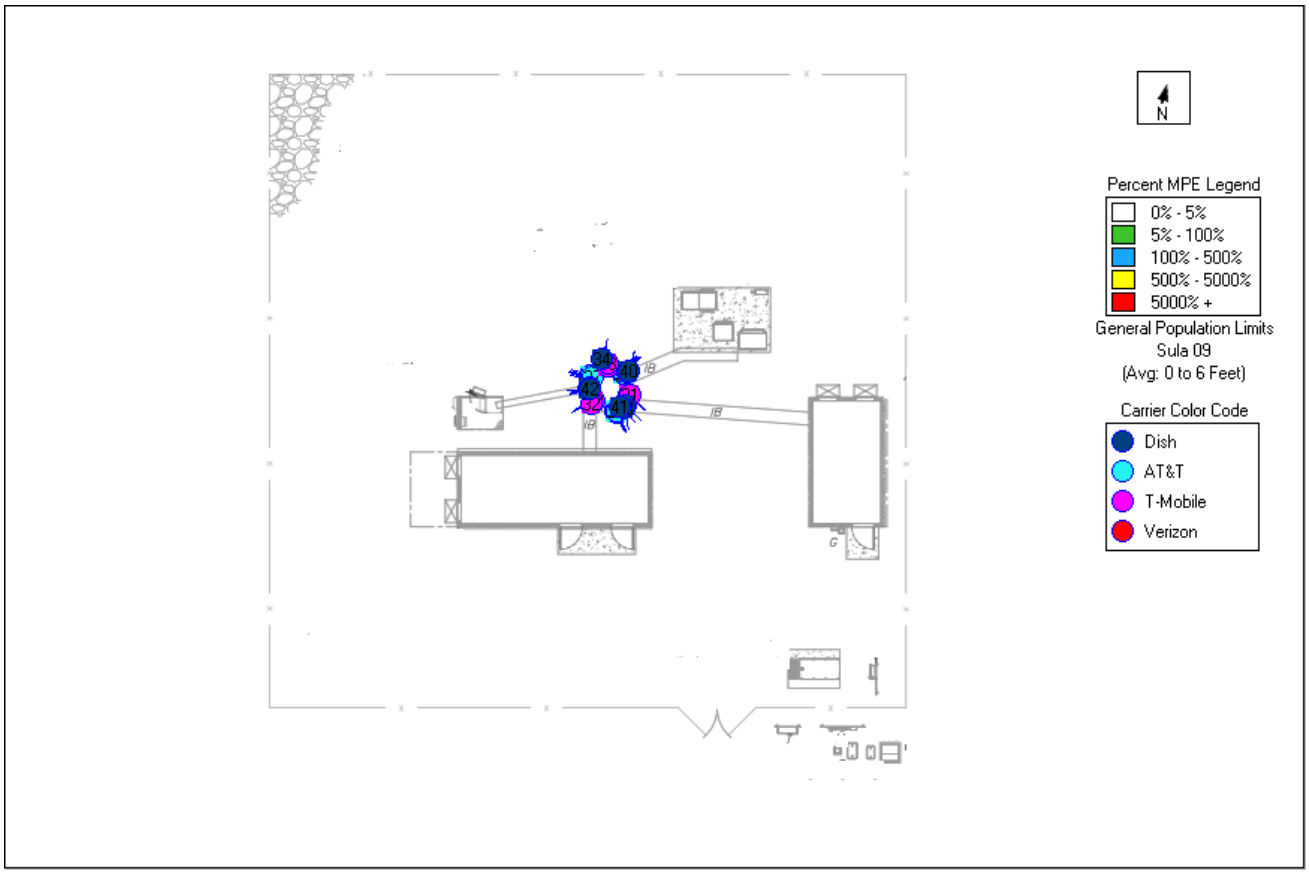
Appendix 3.2 MPE Limit Study



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Appendix 4 Information Pertaining to MPE Studies

In 1985, the FCC first adopted guidelines to be used for evaluating human exposure to RF emissions. The FCC revised and updated these guidelines on August 1, 1996, as a result of a rule-making proceeding initiated in 1993. The new guidelines incorporate limits for Maximum Permissible Exposure (MPE) in terms of electric and magnetic field strength and power density for transmitters operating at frequencies between 300 kHz and 100 GHz.

The FCC's MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP), and, over a wide range of frequencies, the exposure limits were developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC's limits, and the NCRP and ANSI/IEEE limits on which they are based, are derived from exposure criteria quantified in terms of specific absorption rate (SAR). The basis for these limits is a whole-body averaged SAR threshold level of 4 watts per kilogram (4 W/kg), as averaged over the entire mass of the body, above which expert organizations have determined that potentially hazardous exposures may occur. The MPE limits are derived by incorporating safety factors that lead, in some cases, to limits that are more conservative than the limits originally adopted by the FCC in 1985. Where more conservative limits exist, they do not arise from a fundamental change in the RF safety criteria for whole-body averaged SAR, but from a precautionary desire to protect subgroups of the general population who, potentially, may be more at risk.

The FCC exposure limits are also based on data showing that the human body absorbs RF energy at some frequencies more efficiently than at others. The most restrictive limits occur in the frequency range of 30-300 MHz where whole-body absorption of RF energy by human beings is most efficient. At other frequencies, whole-body absorption is less efficient, and consequently, the MPE limits are less restrictive.

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MPE limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm^2), electric field strength (units of volts per meter: V/m) and magnetic field strength (units of amperes per meter: A/m). The far-field of a transmitting antenna is where the electric field vector (E), the magnetic field vector (H), and the direction of propagation can be considered to be all mutually orthogonal ("plane-wave" conditions).

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area. Additional details can be found in FCC OET 65.

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Appendix 5 MPE Standards Methodology

This study predicts RF field strength and power density levels that emanate from communications system antennae. It considers all transmitter power levels (less filter and line losses) delivered to each active transmitting antenna at the communications site. Calculations are performed to determine power density and MPE levels for each antenna as well as composite levels from all antennas. The calculated levels are based on where a human (Observer) would be standing at various locations at the site. The point of interest where the MPE level is predicted is based on the height of the Observer.

Compliance with the FCC limits on RF emissions are determined by spatially averaging a person's exposure over the projected area of an adult human body, that is approximately six-feet or two-meters, as defined in the ANSI/IEEE C95.1 standard. The MPE limits are specified as time-averaged exposure limits. This means that exposure is averaged over an identifiable time interval. It is 30 minutes for the general population/uncontrolled RF environment and 6 minutes for the occupational/controlled RF environment. However, in the case of the general public, time averaging should not be applied because the general public is typically not aware of RF exposure, and they do not have control of their exposure time. Therefore, it should be assumed that any RF exposure to the general public will be continuous.

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The FCC's limits for exposure at different frequencies are shown in the following Tables.

Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)**
0.3 - 3.0	614	1.63	100*	6
3.0 - 30	1842/f	4.89/f	$900/F^2$	6
30 - 300	61.4	0.163	1.0	6
300 - 1500	--	--	f/300	6
1500 - 100,000	--	--	5	6

f = frequency

* = Plane-wave equivalent power density

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Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm^2)**	**Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)**
0.3 - 1.34	614	1.63	100*	30
1.34 - 30	824/f	2.19/f	$180/F^2$	30
30 -300	27.5	0.073	0.2	30
300 -1500	--	--	f/1500	30
1500 -100,000	--	--	1.0	30

f = frequency

* = Plane-wave equivalent power density

General population/uncontrolled exposures apply in situations in which the general public may be exposed or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

It is important to understand that these limits apply cumulatively to all sources of RF emissions affecting a given area. For example, if several different communications system antennas occupy a shared facility such as a tower or rooftop, then the total exposure from all systems at the facility must be within compliance of the FCC guidelines.

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The field strength emanating from an antenna can be estimated based on the characteristics of an antenna radiating in free space. There are basically two field areas associated with a radiating antenna. When close to the antenna, the region is known as the Near Field. Within this region, the characteristics of the RF fields are very complex, and the wave front is extremely curved. As you move further from the antenna, the wave front has less curvature and becomes planar. The wave front still has a curvature, but it appears to occupy a flat plane in space (plane-wave radiation). This region is known as the Far Field.

Two models are utilized to predict Near and Far field power densities. They are based on the formulae in FCC OET 65.

Cylindrical Model (Near Field Predictions)

Spatially averaged plane-wave equivalent power densities parallel to the antenna may be estimated by dividing the antenna input power by the surface area of an imaginary cylinder surrounding the length of the radiating antenna. While the actual power density will vary along the height of the antenna, the average value along its length will closely follow the relation given by the following equation:

$$S = P \div 2\pi RL$$

Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

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For directional-type antennas, power densities can be estimated by dividing the input power by that portion of a cylindrical surface area corresponding to the angular beam width of the antenna. For example, for the case of a 120-degree azimuthal beam width, the surface area should correspond to 1/3 that of a full cylinder. This would increase the power density near the antenna by a factor of three over that for a purely omni-directional antenna. Mathematically, this can be represented by the following formula:

$$S = (180 / \theta_{BW}) P \div \pi RL$$

Where:

S = Power Density

θ_{BW} = Beam width of antenna in degrees (3 dB half-power point)

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

If the antenna is a 360-degree omni-directional antenna, this formula would be equivalent to the previous formula.

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Spherical Model (Far Field Predictions)

Spatially averaged plane-wave power densities in the Far Field of an antenna may be estimated by considering the additional factors of antenna gain and reflective waves that would contribute to exposure.

The radiation pattern of an antenna has developed in the Far Field region and the power gain needs to be considered in exposure predictions. Also, if the vertical radiation pattern of the antenna is considered, the exposure predictions would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential four-fold increase in power density.

These additional factors are considered, and the Far Field prediction model is determined by the following equation:

$$S = EIRP \times Rc \div 4\pi R^2$$

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

The EIRP includes the antenna gain. If the antenna pattern is considered, the antenna gain is relative based on the horizontal and vertical pattern gain values at that particular location in space, on a rooftop or on the ground. However, it is recommended that the antenna radiation pattern characteristics not be considered to provide a conservative "worst case" prediction. This is the equation is utilized for the Far Field exposure predictions herein.

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