



October 1, 2024

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

**RE: Notice of Exempt Modification // Site: WATERBURY CT (ATC: 302476)
Farmdale Drive (aka 352 Garden Circle) Waterbury, CT 06704
N 41.57066944 // W -73.01757222**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains twelve (12) antennae at the 129-ft level on the existing 155ft Monopole tower, located at Farmdale Drive (aka 352 Garden Circle), Waterbury, CT. The tower is owned by American Tower. The Council approved Verizon Wireless use of the existing tower in 1994. Verizon Wireless proposed modification involves removing three (3) of its existing antennas and installing four (4) new antennas, one (1) OVP and one (1) 1-5/8" hybri-flex cable on Verizon Wireless existing antenna platform and mounting assembly.

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 Waterbury's Chief Elected Official and Land Use Officer.

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 September 27, 2024, by American Tower Engineering Services LLC, a structural analysis dated September 10, 2024, by American Tower, a structural mount analysis by Colliers Engineering and Design date July 5, 2024, and Non-Ionizing Electromagnetic Radiation (NIER) study dated September 6, 2024 by Tower Engineering Professionals (TEP).

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 expansion 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 and a structural mount analysis pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings.

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)

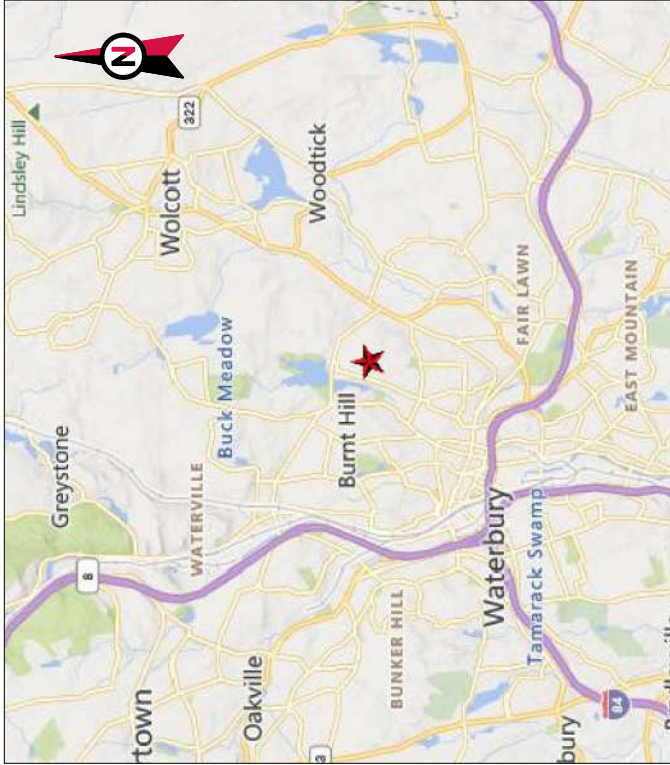
Sincerely,

Cassandra Darmody

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: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Available Original Tower Approval Records
Exhibit 7 – Notice Deliver Confirmations

cc: The Honorable Paul K. Pernerewski, Jr– Mayor – Chief Elected Official
Robert Nerney, City Planner - as P&Z official
American Tower Corporation - as tower owner and Ground Owner



ATC SITE NAME: WTBR - WATERBURY
ATC SITE NUMBER: 302476
VERIZON SITE NAME: WATERBURY CT
VERIZON SITE NUMBER: 5000120998
VERIZON FUZE PID: 17289002
SITE ADDRESS: 352 GARDEN CIRCLE
WATERBURY,CT 06704



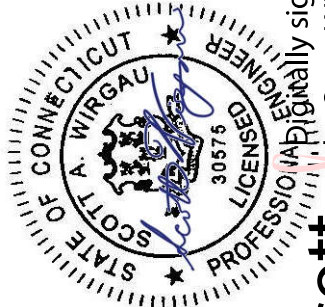
THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED, ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	FEB	09/27/24
△			
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ATC SITE NUMBER:
302476
ATC SITE NAME:

WTBR - WATERBURY
VERIZON SITE NAME:
WATERBURY CT

SITE ADDRESS:
352 GARDEN CIRCLE
WATERBURY, CT 06704



Scott Wirgau
Date: 2024.09.30
14:12:38 -04:00



ATC JOB NO:	14850265_G0
CUSTOMER ID:	WATERBURY CT
CUSTOMER #:	5000120998

TITLE SHEET

SHEET NUMBER: G-001	REVISION: 0
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VERIZON AMENDMENT DRAWINGS

COMPLIANCE CODE		PROJECT SUMMARY		PROJECT DESCRIPTION		SHEET INDEX					
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. 1. 2020 NFPA 70. NATIONAL ELECTRIC CODE (NEC) 2. 2022 CONNECTICUT STATE BUILDING CODE 3. 2021 INTERNATIONAL BUILDING CODE (IBC) <u>DESIGN CRITERIA FROM TOWER STRUCTURAL ANALYSIS:</u> BASIC WIND SPEED: 117 MPH BASIC WIND SPEED W/ ICE: 84 MPH W/ 1.80" RADIAL ICE CONCURRENT ANSI/TIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE CODE(S): EXPOSURE CATEGORY: B RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 3 TOPOGRAPHIC CATEGORY: 1 CREST HEIGHT (H): 0FT SPECTRAL RESPONSE: S_s=0.19, S_w=0.05 SITE CLASS: D - STIFF SOIL - DEFAULT INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 09/12/24.		<u>SITE ADDRESS:</u> 352 GARDEN CIRCLE WATERBURY, CT 06704 COUNTY: NEW HAVEN <u>REGISTERED COORDINATES:</u> LATITUDE: 41.57068944 41° 34' 14.41" N LONGITUDE: -73.01757222 73° 1' 3.26" W GROUND ELEVATION: 826' AMSL		THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:		SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
				TOWER WORK:		G-001	TITLE SHEET	0	09/27/24	FEB	
				REMOVE (3) ANTENNA(s) INSTALL MOUNT MODIFICATIONS, (4) ANTENNA(s), (1) OVP(s), AND (1) 1-5/8" HYBRIFLEX CABLE(s) EXISTING (12) ANTENNA(s), (9) RRH(s), (3) DIPLEXER(s), (6) FILTER(s), (1) OVP(s), (6) 1-5/8" COAX & (2) 1-5/8" HYBRIFLEX CABLE(s) TO REMAIN		G-002	GENERAL NOTES	0	09/27/24	FEB	
						C-001	EXISTING SURVEY				
						C-101	DETAILED SITE PLAN	0	09/27/24	FEB	
						C-201	TOWER ELEVATION	0	09/27/24	FEB	
						C-401	ANTENNA INFORMATION & SCHEDULE	0	09/27/24	FEB	
						C-402	ANTENNA INFORMATION & SCHEDULE	0	09/27/24	FEB	
						C-501	CONSTRUCTION DETAILS	0	09/27/24	FEB	
						E-501	GROUNDING DETAILS	0	09/27/24	FEB	
				SUPPLEMENTAL SHEETS (2 PAGES)							

GENERAL CONSTRUCTION NOTES:

1.

OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
2.

A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/COLLOCATE ONLY)

B. AC/TELCO INTERFACE BOX (PPC)

C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/COLLOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOF TOP 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
3.

ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSIE/AIA-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.

- B.
- ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

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 MANUFACTURERS 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 AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO, FALL PROTECTION, SLOTTED WALKWAYS, SAFETY NETS, 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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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. 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 10 DAYS BEFORE BEING NOTIFIED INSURED, STORED, COGNATE, PROTECTED AND MAINTAINED BY THE CONTRACTOR WITH ALL NECESSARY PRECAUTIONS 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 IN ANTENNA INSTALLATION. CONTRACTOR TERMS OF COORDINATION, 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.

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 ATC 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

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
△	FOR CONSTRUCTION	FEB	09/27/24
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ATC SITE NUMBER:
302476

ATC SITE NAME:

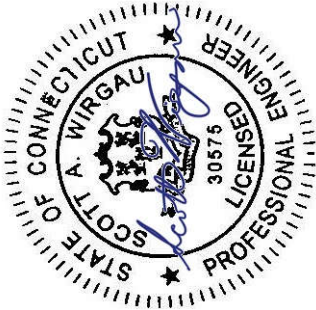
WTBR - WATERBURY

VERIZON SITE NAME:

WATERBURY CT

SITE ADDRESS:
352 GARDEN CIRCLE
WATERBURY, CT 06704

SEAL:

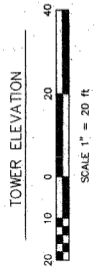
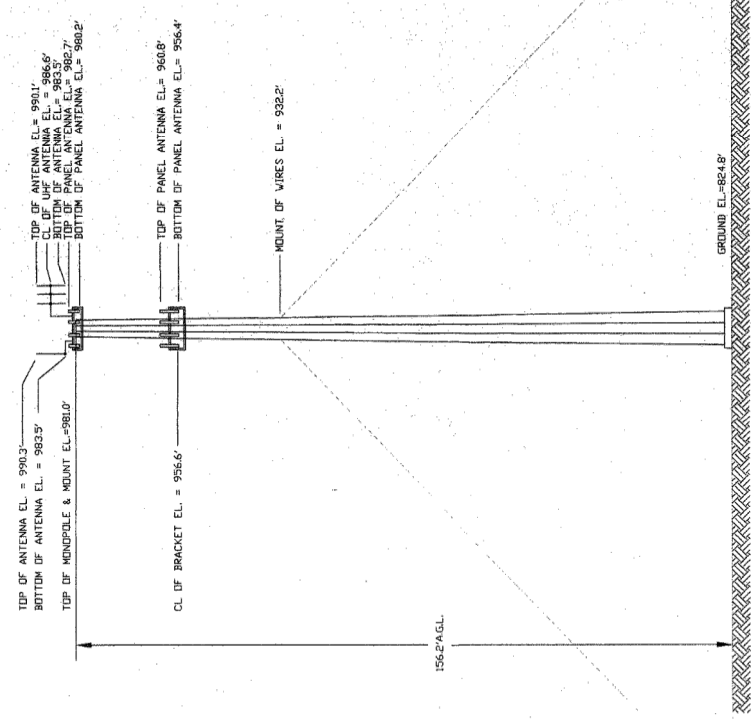
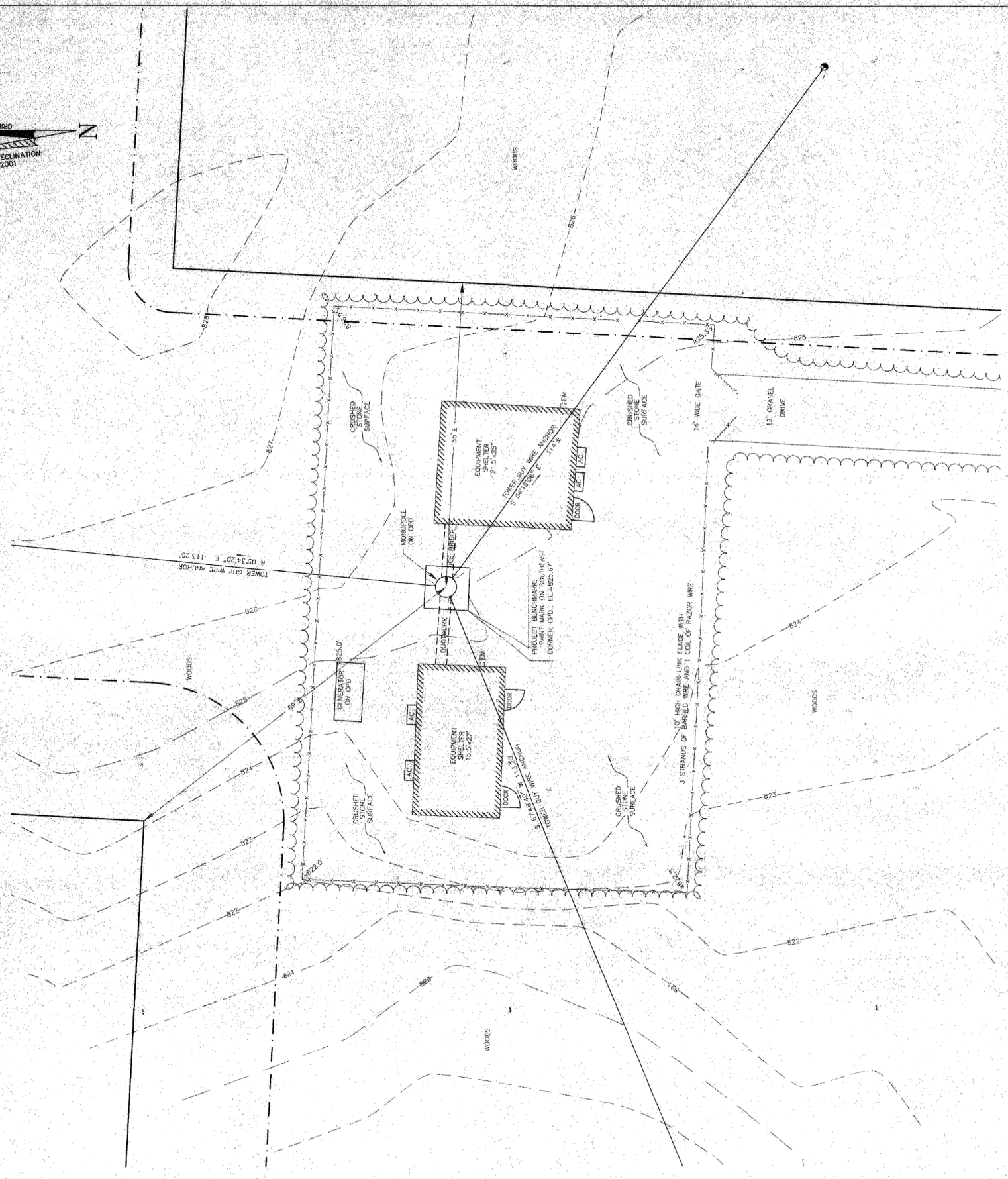
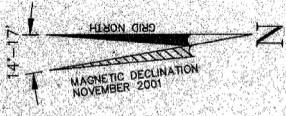


Digitally Signed: 2024-09-30

ATC JOB NO:	14850265_GO
CUSTOMER ID:	WATERBURY CT
CUSTOMER #:	5000120998

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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ELEVATION DATUM
TOWER TYPE: GUY-MONOPOLE
ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM.
GROUND ELEVATION: 824.8'
STRUCTURE HEIGHT: 156.2' ABOVE GROUND LEVEL
ELEVATION OF TOP OF TOWER: 981.0'
ELEVATION OF HIGHEST POINT: 980.3'

LATITUDE & LONGITUDE
LATITUDE AND LONGITUDE OF EXISTING TOWER IS
BASED ON THE NAD 1983.
LATITUDE: 41° 34' 14.24"
LONGITUDE: 73° 01' 03.26"
BASIS OF BEARINGS:
NORTH AMERICAN DATUM (NAD83)

THE GEOGRAPHICAL LOCATION SHOWN IS ACCURATE TO
WITHIN $\pm 15'$ HORIZONTALLY AND $\pm 3'$ VERTICALLY

FLOOD NOTE

BY GRAPHIC PLOTTING ONLY, SUBJECT PREMISES ARE IN ZONE 'C' OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 090091 0008 B, WHICH BEARS AN EFFECTIVE DATE OF NOVEMBER 1, 1979 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.

GENERAL NOTES

1. OWNER OF THE PARENT PARCEL IS SOUTHERN NEW ENGLAND TELEPHONE COMPANY.
2. LINEAR MEASUREMENT OF CHAIN LINK FENCE AROUND COMPOUND IS 345'±.

UTILITY NOTE

THE UTILITIES AS SHOWN ON THIS DRAWING WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THIS IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CLIENT'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE.

SURVEY LEGEND

[illegible]

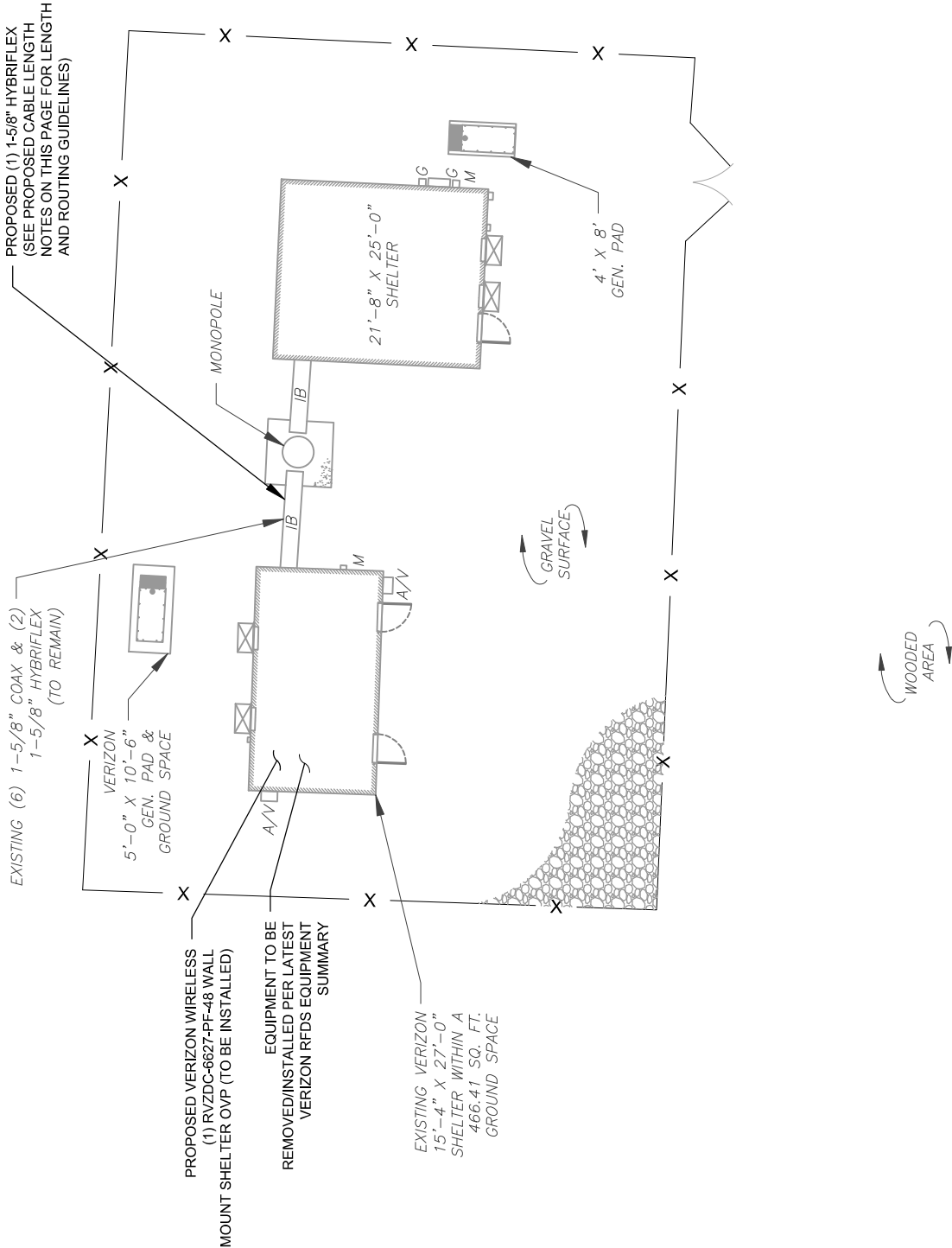
Work Coordinated by:  BASC NATIONAL INC. 100 REGENCY FOREST DRIVE, SUITE 400 CHRY, CT 07011 TELEPHONE (203) 647-1100 FAX (203) 647-1100	Surveyor:  C O N E C O <i>Engineers, Scientists & Land Surveyors</i> 4 First Street, Ridgefield, CT 03224 Telephone: (508) 897-1391 Toll Free: (800) 948-3355 Facsimile: (508) 897-5996	SPECTRASITE CONSTRUCTION AS-BUILT LAND SURVEY	SHEET 1 of 2
Project Location WATERBURY, CT		SCOPE REMISION 1	
Project Address FARMALE DRIVE		DATE	
Site Name Wthr - Waterbury			
SpectraSite Number CT - 0012			

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.

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

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **183'**. 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.



1

DETAILED SITE PLAN

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 UNIT = 20 FEET

AMERICAN TOWER®

A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN

SUITE 300

CARY, NC 27511

PHONE: (919) 468-0112

PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

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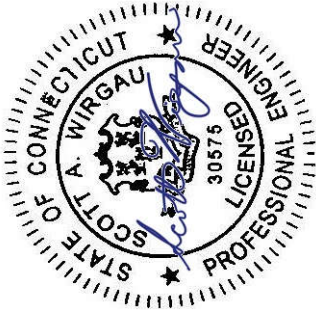
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302476

ATC SITE NAME:
WTBR - WATERBURY

VERIZON SITE NAME:
WATERBURY CT

SITE ADDRESS:
352 GARDEN CIRCLE
WATERBURY, CT 06704

SEAL:



Digitally Signed: 2024-09-30

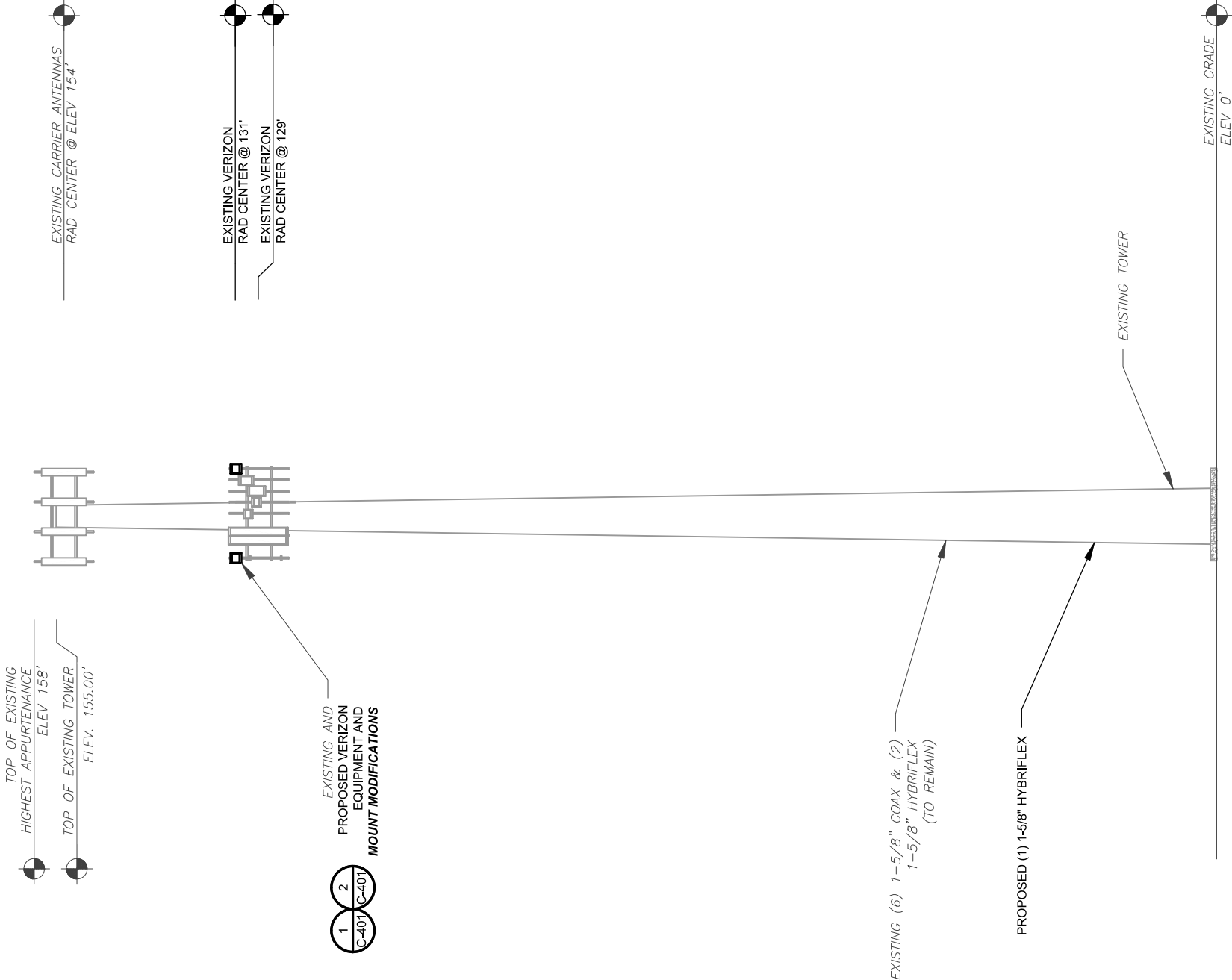
verizon	
ATC JOB NO:	14850265_G0
CUSTOMER ID:	WATERBURY CT
CUSTOMER #:	5000120998

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

FAA REGISTERED HEIGHT: 170' AGL

PER MOUNT ANALYSIS COMPLETED BY COLLIER'S ENGINEERING & DESIGN, DATED 09/25/24, 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.



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

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REV.	DESCRIPTION	BY	DATE
/Δ	FOR CONSTRUCTION	FEB	09/27/24
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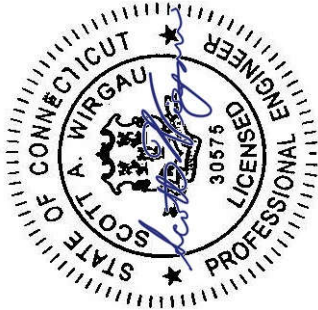
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302476

ATC SITE NAME:
WTBR - WATERBURY

VERIZON SITE NAME:
WATERBURY CT

SITE ADDRESS:
362 GARDEN CIRCLE
WATERBURY, CT 06704

SEAL:



Digitally Signed: 2024-09-30

	
ATC JOB NO:	14850265_G0
CUSTOMER ID:	WATERBURY CT
CUSTOMER #:	5000120998

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0



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△	FOR CONSTRUCTION	FEB	09/27/24
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302476

ATC SITE NAME:

WTBR - WATERBURY

VERIZON SITE NAME:

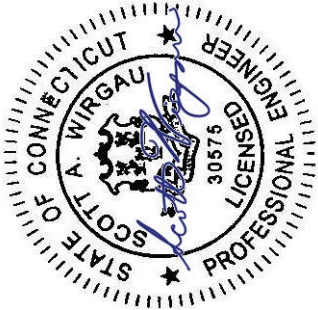
WATERBURY CT

SITE ADDRESS:

352 GARDEN CIRCLE

WATERBURY, CT 06704

SEAL:



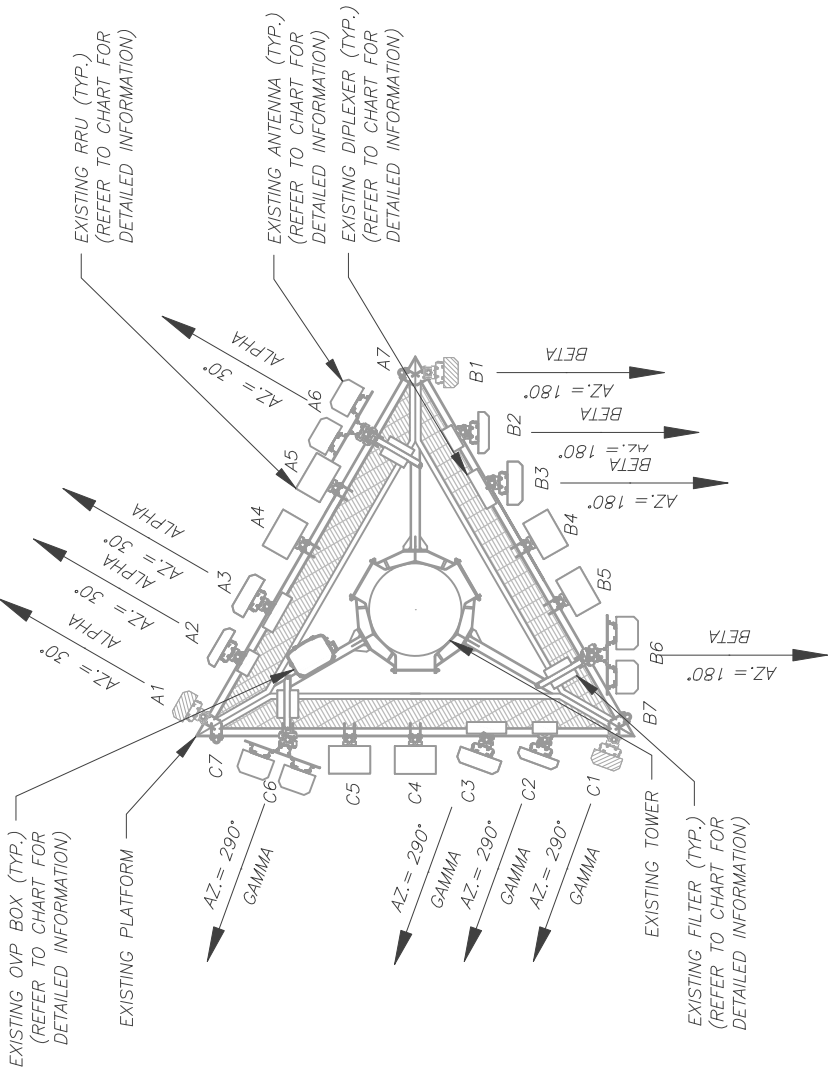
Digitally Signed: 2024-09-30



ATC JOB NO:	14850265_G0
CUSTOMER ID:	WATERBURY CT
CUSTOMER #:	5000120998

ANTENNA INFORMATION
& SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



1 EXISTING ANTENNA PLAN

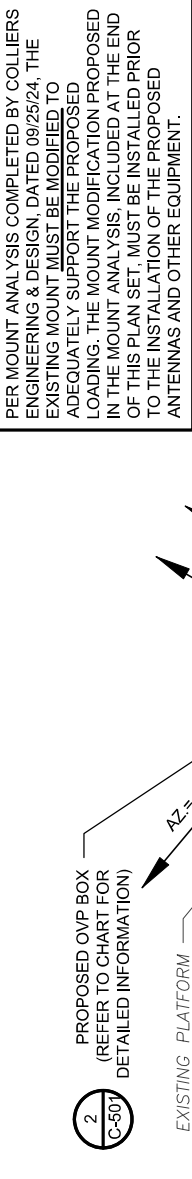
SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY		NOTES
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	129°	30°	A1	BXA-80063/4	—	RMV	—	—	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.
			A2	DX10FRO260	LCBRS	RMN	RRH-RT4401-48A	RMN	2. GC TO CAP ALL UNUSED PORTS.
			A3	MT6413-77A	5GL-SUB6	RMN	CBC78T-DS-43-2X	RMN	3. GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
			A4	—	—	—	RF4461D-13A	RMN	
			A5	—	—	—	B2/B66A RRHBR049	RMN	
			A6	(2) JAHH-65C-R3B-V2	L700/L850/5G850/L1900/LAWS	RMN	(2) BSF0020F3V1-1	RMN	
			A7	—	—	—	—	—	
BETA	129°	180°	B1	BXA-80063/4	—	RMV	—	—	STATUS ABBREVIATIONS
			B2	DX10FRO260	LCBRS	RMN	RRH-RT4401-48A	RMN	RMV: TO BE REMOVED RMN: TO REMAIN
			B3	MT6413-77A	5GL-SUB6	RMN	CBC78T-DS-43-2X	RMN	REL: TO BE RELOCATED
			B4	—	—	—	RF4461D-13A	RMN	ADD: TO BE ADDED
			B5	—	—	—	B2/B66A RRHBR049	RMN	
			B6	(2) JAHH-65C-R3B-V2	L700/L850/5G850/L1900/LAWS	RMN	(2) BSF0020F3V1-1	RMN	
			B7	—	—	—	—	—	
GAMMA	290°	290°	C1	BXA-80063/4	—	RMV	—	—	CABLE LENGTHS FOR JUMPERS
			C2	DX10FRO260	LCBRS	RMN	RRH-RT4401-48A	RMN	JUNCTION BOX TO RRU: 15'
			C3	MT6413-77A	5GL-SUB6	RMN	CBC78T-DS-43-2X	RMN	RRU TO ANTENNA: 10'
			C4	—	—	—	RF4461D-13A	RMN	
			C5	—	—	—	B2/B66A RRHBR049	RMN	
			C6	(2) JAHH-65C-R3B-V2	L700/L850/5G850/L1900/LAWS	RMN	(2) BSF0020F3V1-1	RMN	
			C7	—	—	—	—	—	

3 EQUIPMENT SCHEDULES

CABLE LENGTHS FOR JUMPERS
JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'





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REV.	DESCRIPTION	BY	DATE
△	FOR CONSTRUCTION	FEB	09/27/24
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ATC SITE NUMBER:
302476

ATC SITE NAME:

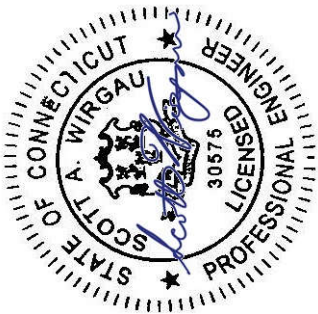
WTBR - WATERBURY

VERIZON SITE NAME:

WATERBURY CT

SITE ADDRESS:
352 GARDEN CIRCLE
WATERBURY, CT 06704

SEAL:



Digitally Signed: 2024-09-30

ATC JOB NO:	14850265_G0
CUSTOMER ID:	WATERBURY CT
CUSTOMER #:	5000120998

ANTENNA INFORMATION
& SCHEDULE

SHEET NUMBER: C-402	REVISION: 0
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2 FINAL ANTENNA PLAN

SCALE: N.T.S.

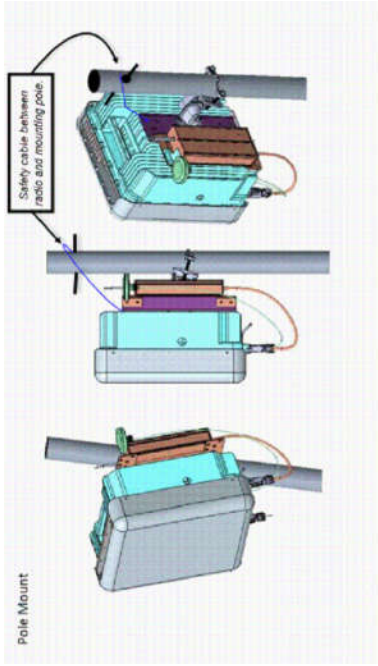
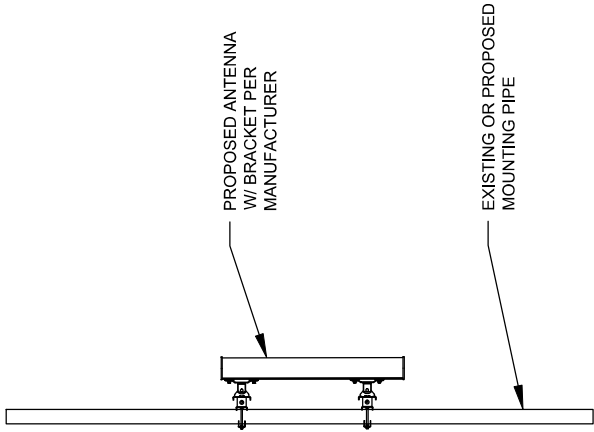


NOTES	FINAL ANTENNA SCHEDULE						
	LOCATION			ANTENNA SUMMARY			
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	NON ANTENNA SUMMARY
ALPHA	131'	310°	A1	39GHZ VECTASTAR NR GNB	5G39GHZ	ADD	-
			A2	DX10FR0260	LCBRS	RMN	RRH-RT4401-48A
			A3	MT6413-77A	5GL-SUB6	RMN	CBC78T-DS-43-2X
	129'	30°	A4	-	-	-	RF4461D-13A
			A5	-	-	-	B2/B66A RRHBR049
			A6	(2) JAHH-65C-R3B-V2	L700/L850/5G850/L1900/LAWS	RMN	(2) BSF0020F3V1-1
			A7	39GHZ VECTASTAR NR GNB	5G39GHZ	ADD	-
BETA	131'	40°	B1	39GHZ VECTASTAR NR GNB	5G39GHZ	ADD	-
			B2	DX10FR0260	LCBRS	RMN	RRH-RT4401-48A
			B3	MT6413-77A	5GL-SUB6	RMN	CBC78T-DS-43-2X
	129'	180°	B4	-	-	-	RF4461D-13A
			B5	-	-	-	B2/B66A RRHBR049
			B6	(2) JAHH-65C-R3B-V2	L700/L850/5G850/L1900/LAWS	RMN	(2) BSF0020F3V1-1
			B7	-	-	-	-
GAMMA	131'	220°	C1	39GHZ VECTASTAR NR GNB	5G39GHZ	ADD	-
			C2	DX10FR0260	LCBRS	RMN	RRH-RT4401-48A
			C3	MT6413-77A	5GL-SUB6	RMN	CBC78T-DS-43-2X
	129'	290°	C4	-	-	-	RF4461D-13A
			C5	-	-	-	B2/B66A RRHBR049
			C6	(2) JAHH-65C-R3B-V2	L700/L850/5G850/L1900/LAWS	RMN	(2) BSF0020F3V1-1
			C7	-	-	-	-

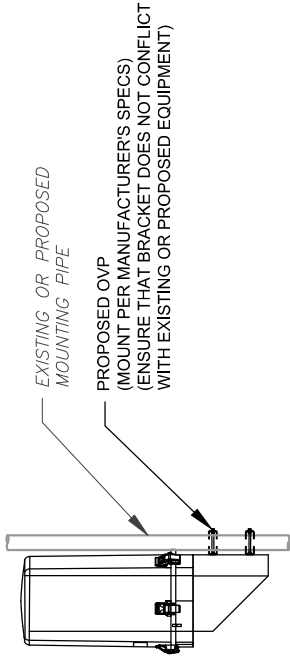
FINAL FIBER DISTRIBUTION / OVP BOX			FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS	
RCMDC-6627-PF-48	RMN	(6) 1-5/8" COAX & (2) 1-5/8" HYBRIFLEX	RMN	
RCMDC-6627-PF-48	ADD	(1) 1-5/8" HYBRIFLEX	ADD	

3 EQUIPMENT SCHEDULES

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



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



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REV.	DESCRIPTION	BY	DATE
△	FOR CONSTRUCTION	FEB	09/27/24
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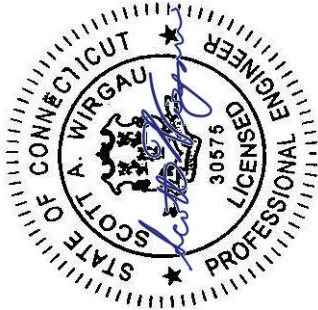
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302476

ATC SITE NAME:
WTBR - WATERBURY

VERIZON SITE NAME:
WATERBURY CT

SITE ADDRESS:
352 GARDEN CIRCLE
WATERBURY, CT 06704

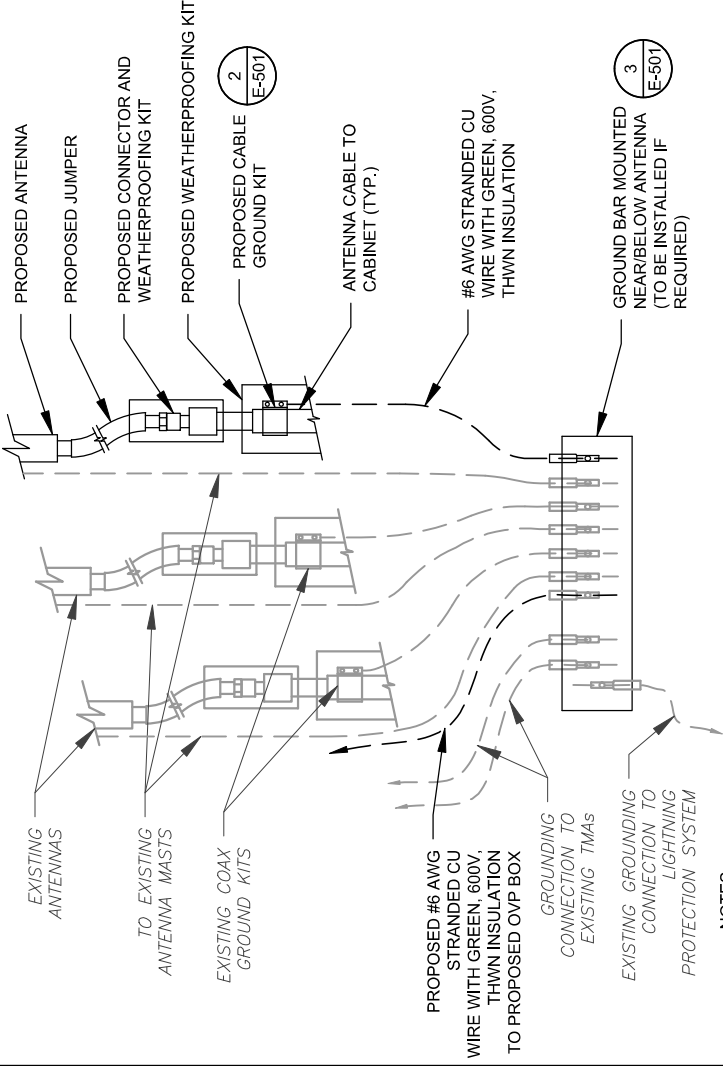
SEAL:



Digitally Signed: 2024-09-30

	
ATC JOB NO:	14850265_G0
CUSTOMER ID:	WATERBURY CT
CUSTOMER #:	5000120998

CONSTRUCTION DETAILS	
SHEET NUMBER:	C-501
REVISION:	0

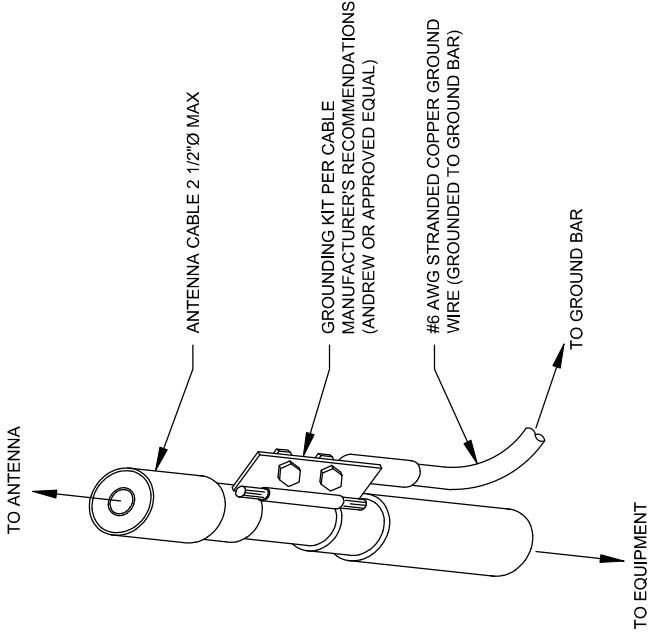


NOTES:

- 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.
- 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.

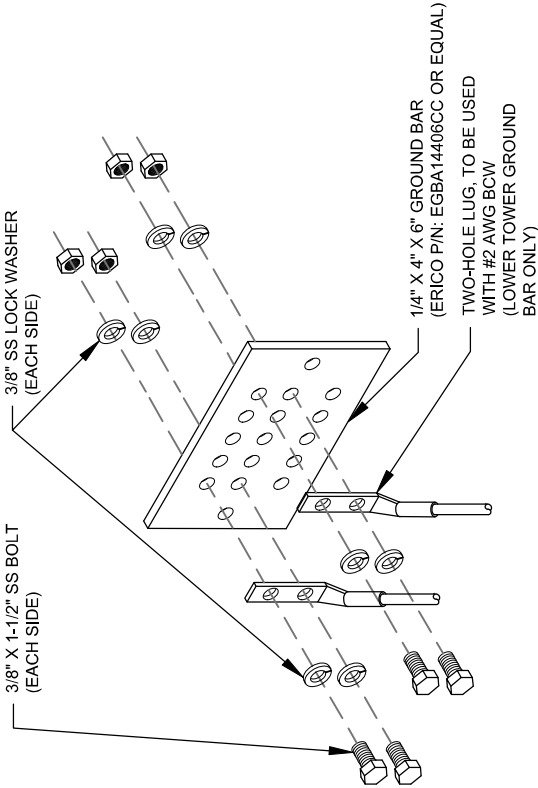


GROUND KIT NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 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:

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

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.



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△	FOR CONSTRUCTION	FEB	09/27/24
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△			
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302476

ATC SITE NAME:

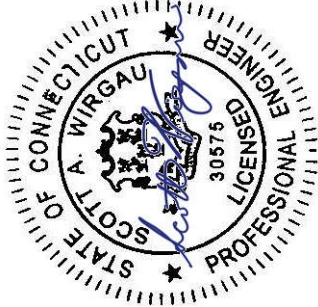
WTBR - WATERBURY

VERIZON SITE NAME:

WATERBURY CT

SITE ADDRESS:
352 GARDEN CIRCLE
WATERBURY, CT 06704

SEAL:



Digitally Signed: 2024-09-30

verizon	
ATC JOB NO:	14850265_G0
CUSTOMER ID:	WATERBURY CT
CUSTOMER #:	5000120998

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0



Colliers Engineering & Design
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@collierseng.com



Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10228111
Colliers Engineering & Design Project #: 24777036 (Rev. 2)

September 24, 2024

Site Information

Site ID: 5000120998-VZW / WATERBURY CT
Site Name: WATERBURY CT
Carrier Name: Verizon Wireless
Address: 1 Farmdale Drive
Waterbury, Connecticut 06704
New Haven County
Latitude: 41.5706694441°
Longitude: -73.0175722273°

Structure Information

Tower Type: 150-Ft Monopole
Mount Type: 13.33-Ft Integrated Sector Frame

FUZE ID # 17289002

Analysis Results

Integrated Sector Frame: 85.0% 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: Nathan LaPorte



Digitally signed by Dejian Xu
Date: 2024.09.25 11:22:00-04'00'

Mount Structural Analysis Report

(1) 13.33-Ft Integrated Sector Frame

September 24, 2024

Site ID: 5000120998-VZW / WATERBURY CT

Page | 6

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	83.0	82.9	102.4	102.3
0.5	106.7	106.5	134.3	133.9
1	129.5	129.2	165.3	164.8

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 new 96" long PIPE 2 SCH40 mount pipe connected to existing position 1 pipe on all sectors using new pipe to pipe clamp sets (Site Pro 1 Part #: DCP18K). Top of pipe shall be 40" above top of existing mount pipe. Install the first set of clamps 15" from top of existing pipe. Install the 2nd set of clamps 30" from the 1st set.

Contractor shall install new 96" long PIPE 2 SCH40 mount pipe connected to existing corner post between Alpha and Beta sector using new pipe to pipe clamp sets (Site Pro 1 Part #: DCP18K). Top of pipe shall be 40" above top of existing mount pipe. Install the first set of clamps 12" from top of existing pipe. Install the 2nd set of clamps 30" from the 1st set.

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

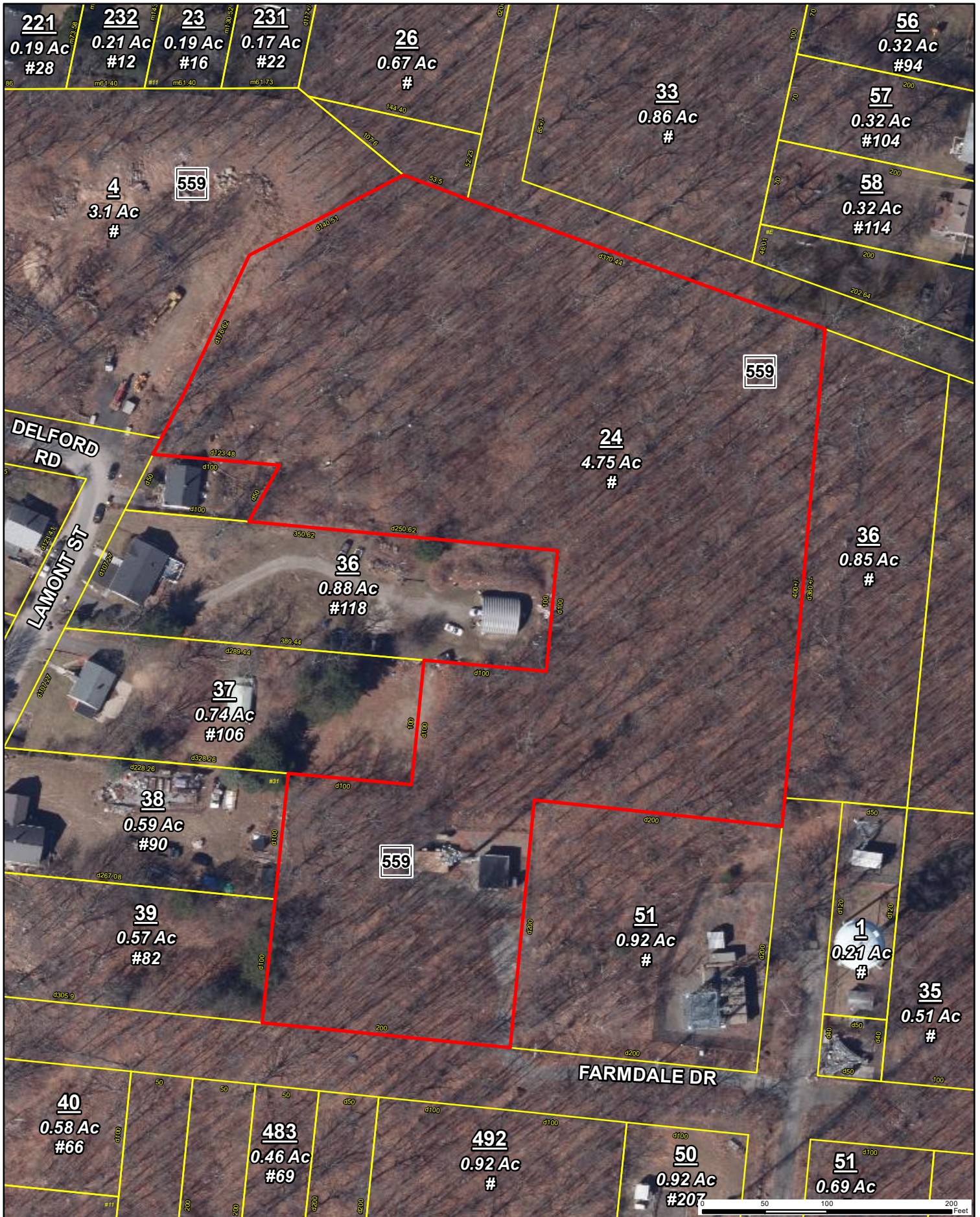
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY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

Location: FARMDALE DR **Owner:** AMERICAN TOWER ASSET SUB II LLC

Property Information:			
Map Block Lot:	0167-0559-0024	Acres:	4.75
Primary Use:	Res Vac Land (5-1)	Zone:	RL
Neighborhood:	14100-Long Hill	Vol/Page:	8305
Mailing Address:	AMERICAN TOWER ASSET SUB II LLC P.O. BOX 723597 ATLANTA GA 31139		
Property Values:			
	Appraised Value	Assessed Value (70%)	
Building	0	0	
Land	321600	225120	
OutBuilding	0	0	
Total	321600	225120	
Sales Information:			
Sale Date	Sale Price	Sale Type	Valid sale
2021-07-12 00:00:00.000	225100	Quit Claim	No
2004-10-29 00:00:00.000	0	Quit Claim	No
1984-08-23 00:00:00.000	20000		No
Outbuilding Information:			
Type	Area (sq.ft)	Year Built	Condition
Special Features:			
Permit Information:			
Permit Date	Permit Number	Permit Type	Click for Details
10/04/2018	PR20180002602	BD - Electrical	Details
08/28/2015	PR20150002331	BD - Electrical	Details
08/09/2013	PR20130002198	BD - Electrical	Details
06/20/2014	PR20140001587	BD - Building	Details
06/09/2020	PR20200001077	BD - Electrical	Details
05/26/2016	PR20160001522	BD - Electrical	Details
04/30/2018	PR20180000733	BD - Electrical	Details
04/28/2015	PR20150000950	BD - Electrical	Details
04/22/2024	PR20240001122	BD - Electrical	Details
02/03/2014	PR20140000177	BD - Electrical	Details
	PR20240003723	BD - Electrical	Details

Planning Application:			
Application Date	Application Number	Application Type	Click for Details
Code Enforcement:			
Case Date	Case Number	Case Type	Click for Details

[Close](#)



City of Waterbury
Public Works Department

MBL: **0167-0559-0024**
ADDRESS: **FARMDALE DR**

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Structural Analysis Report

Structure : 155 ft Guyed Monopole
ATC Asset Name : Wtbr - Waterbury
ATC Asset Number : 302476
Engineering Number : 14850265_C3_03
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : WATERBURY CT
Carrier Site Number : 5000120998
Site Location : 352 Garden Circle
Waterbury, CT 06704-2833
41.5707° N, 73.0176° W
County : New Haven
Date : September 10, 2024
Max Usage : 86%
Analysis Result : Pass

Created By:

Lucas Tait
Structural Engineer II

A handwritten signature in blue ink, appearing to read 'L Tait'.



COA: PEC.0001553

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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 155 ft Guyed monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	ITT Meyer Type "B" Specifications (AT&T Spec AT-8935, dated April 13, 1984) Mapping by Smith Cullum Acquisition #CT-0012, dated June 7, 2001
Foundation:	Girard & Co. Engineers Job #38926, dated July 10, 1984
Modification:	SpectraSite Site #CT-0012 Rev 1, dated November 18, 2004
Site Specific Study:	ICE Study, dated July 22, 2021

Analysis

The tower was analyzed using the most recent version Tower Numerics tnxTower tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	117 mph (3-second gust)
Basic Wind Speed w/ Ice:	84 mph (3-second gust) w/ 1.80" 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 3
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	$S_s = 0.19$, $S_i = 0.05$
Site Class:	D - Stiff Soil - Default

**Wind pressures have been determined per the site-specific climatic study in accordance with ASCE 7-16 Section 26.5.3, IBC Section 1609.3, and TIA-222-H Section 2.6.6.2.3.*

**Ice thickness and wind pressures have been determined per the site-specific climatic study in accordance with ASCE 7-16 Section 10.1.1, IBC Section 1614, and TIA-222-H Section 2.6.4.1.*

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	Result
Shaft	85.8%	Pass
Base Plate	6.0%	Pass
Anchor Rods	21.0%	Pass
Flange at 110.0 ft	72.0%	Pass
Guy Wires	66.5%	Pass
Base Moment	5.0%	Pass
Guy Anchor Foundation	62.0%	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Base	188.0	95.0	-	5.0
Guy Anchor	-	-	23.0	22.0

**Reactions shown are maximum overall and not limited by Load Case*

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

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
131.0	4	CBNG 39GHz VectaStar NR gNB	-
129.0	1	Heavy Platform with Handrails	(6) 1 5/8" Coax (3) 1 5/8" Hybriflex
	2	Raycap RCMD-6627-PF-48	
	3	Commscope CBC78T-DS-43-2X	
	3	Commscope CBC78T-DS-43-2X	
	3	Commscope JAH-65C-R3B-V2	
	3	Commscope JAH-65C-R3B-V2	
	3	JMA Wireless DX10FRO260-00/06	
	3	Samsung B2/B66A RRH-BR049	
	3	Samsung MT6413-77A	
	3	Samsung RF4461d-13A	
	3	Samsung RT4401-48A	
	6	Kaelus BSF0020F3V1-1	

Install proposed lines in the place of the existing VERIZON WIRELESS lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
154.0	1	CCI OPA-65R-LCUU-H6	(2) 0.39" (10mm) Fiber Trunk (3) 0.41" (10.3mm) Fiber (10) 0.78" (19.7mm) 8 AWG 6 (5) 0.92" (23.4mm) Cable (18) 1 1/4" Coax (5) 2" conduit (1) 3/8" (0.38"- 9.5mm) RET Control Cable	AT&T MOBILITY
	1	Ericsson RRUS 4449 B5, B12		
	1	Platform with Handrails		
	1	Kathrein Scala 80010965		
	1	Kathrein Scala 80010966		
	1	Matsing MS-MBA-3.2-H8-L4		
	1	Quintel QD6616-7		
	1	Quintel QS66512-2		
	1	Raycap DC6-48-60-0-8F (24" Height)		
	2	CCI OPA-65R-LCUU-H8 (92.7")		
	2	CCI TPA-65R-LCUUUU-H8		
	2	Ericsson RRUS 32 B2		
	2	Ericsson RRUS 32 B66		
	2	Quintel QD8616-7		
	2	Raycap DC6-48-60-18-8F		
	3	Ericsson AIR 6472 B77G B77M (77.2lbs)		
	3	Ericsson RRUS 11 B12		
	3	Ericsson RRUS 32 (50.8 lbs)		
	3	Ericsson RRUS 32 B30		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14 (16.5" Height)		
	3	Ericsson Radio 8843 B2 B66A		
	3	Powerwave Allgon 7770.00		
	3	Raycap DC9-48-60-24-8C-EV (Enclosure)		
	5	Kaelus DBC0051F3V51-2		
	6	Andrew APTDC-BDFDM-DBW		

(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:

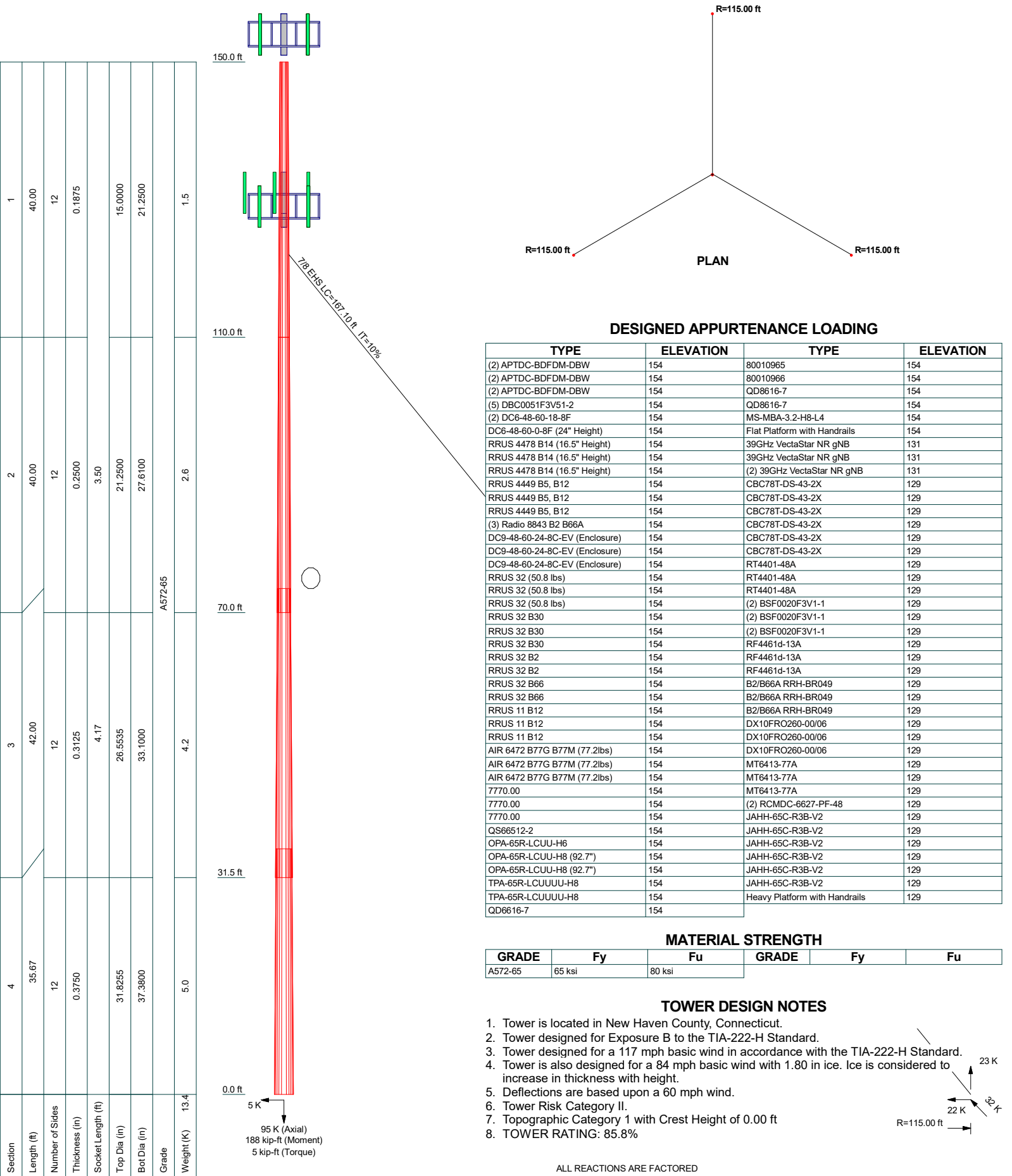
- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Services LLC

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.



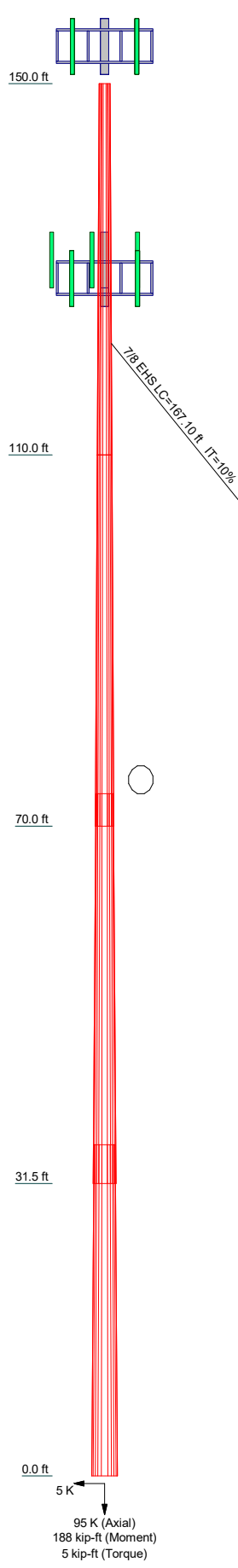
American Tower Engineering
4500 Regency Pkwy, Suite 100
Cary, NC 27518
Phone: (919) 468-0112
FAX: (919) 468-0112

Job: **302476 - Wtbr - Waterbury, CT**

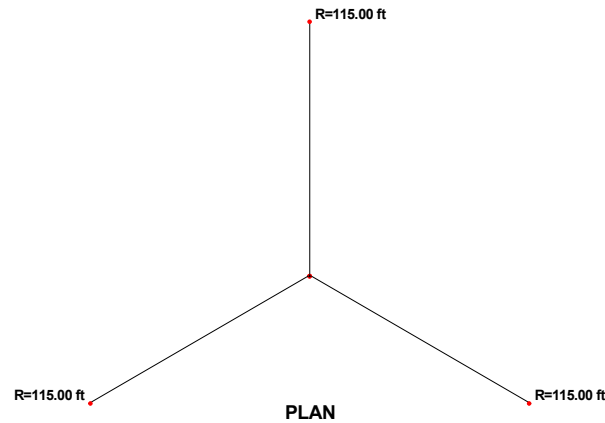
Project: **14850265_C3_03**

Client: AT&T Mobility	Drawn by: Lucas.Tait	App'd:
Code: TIA-222-H	Date: 09/10/24	Scale: NTS
Path:		Dwg No. E-1

Section	1	2	3	4	
Length (ft)	40.00	40.00	42.00	35.67	
Number of Sides	12	12	12	12	
Thickness (in)	0.1875	0.2500	0.3125	0.3750	
Socket Length (ft)		3.50	4.17		
Top Dia (in)	15.0000	21.2500	26.5535	31.8255	
Bot Dia (in)	21.2500	27.6100	33.1000	37.3800	
Grade		A572-65			
Weight (K)	1.5	2.6	4.2	5.0	13.4



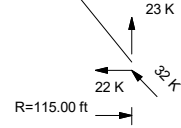
95 K (Axial)
188 kip-ft (Moment)
5 kip-ft (Torque)



MATERIAL STRENGTH					
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 117 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 84 mph basic wind with 1.80 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 85.8%



ALL REACTIONS ARE FACTORED

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	Project: 14850265_C3_03		
	Client: AT&T Mobility	Drawn by: Lucas.Tait	App'd:
	Code: TIA-222-H	Date: 09/10/24	Scale: NTS
	Path:	Dwg No. E-1	

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	Client AT&T Mobility	Designed by Lucas.Tait

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Tower base elevation above sea level: 824.00 ft.

Basic wind speed of 117 mph.

Risk Category II.

Exposure Category B.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.8000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 84 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Safety factor used in guy design is 1.

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

Options

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

Tapered Pole Section Geometry

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Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.00-110.00	40.00	0.00	12	15.0000	21.2500	0.1875	4.0000	A572-65 (65 ksi)
L2	110.00-70.00	40.00	3.50	12	21.2500	27.6100	0.2500	4.0000	A572-65 (65 ksi)
L3	70.00-31.50	42.00	4.17	12	26.5535	33.1000	0.3125	4.0000	A572-65 (65 ksi)
L4	31.50-0.00	35.67		12	31.8255	37.3800	0.3750	4.0000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	15.2337	8.9430	250.4541	5.3029	7.7700	32.2335	507.4880	4.4015	1.7755	9.469
	21.7042	12.7165	720.0669	7.5404	11.0075	65.4160	1459.0508	6.2587	3.4505	18.403
L2	21.6998	16.9050	951.5678	7.5180	11.0075	86.4472	1928.1342	8.3201	3.4170	13.668
	28.2841	22.0248	2104.4088	9.7949	14.3020	147.1411	4264.1028	10.8399	5.1215	20.486
L3	27.7507	26.4050	2320.7747	9.3943	13.7547	168.7258	4702.5188	12.9957	4.8048	15.375
	33.9634	32.9924	4527.0653	11.7379	17.1458	264.0335	9173.0615	16.2379	6.5593	20.99
L4	33.3113	37.9765	4794.6343	11.2593	16.4856	290.8376	9715.2290	18.6909	6.1842	16.491
	38.3900	44.6835	7810.0590	13.2478	19.3628	403.3530	15825.2970	21.9919	7.6728	20.461

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L1 150.00-110.00				1	1	1			
L2 110.00-70.00				1	1	1			
L3 70.00-31.50				1	1	1			
L4 31.50-0.00				1	1	1			

Guy Data

Guy Elevation	Guy Grade	Guy Size	Initial Tension	%	Guy Modulus	Guy Weight	L _u	Anchor Radius	Anchor Azimuth Adj. °	Anchor Elevation	End Fitting Efficiency %
ft			K		ksi	plf	ft	ft		ft	
122	EHS	A 7/8	7.97	10%	19000	1.581	166.95	115.00	0.0000	0.00	100%
		B 7/8	7.97	10%	19000	1.581	166.95	115.00	0.0000	0.00	100%
		C 7/8	7.97	10%	19000	1.581	166.95	115.00	0.0000	0.00	100%

Guy Data(cont'd)

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Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
122	Corner						

Guy Data (cont'd)

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
122.00	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Solid Round	1 1/4

Guy Data (cont'd)

Guy Elevation ft	Cable Weight A K	Cable Weight B K	Cable Weight C K	Cable Weight D K	Tower Intercept A ft	Tower Intercept B ft	Tower Intercept C ft	Tower Intercept D ft
122	0.26	0.26	0.26		2.73 2.9 sec/pulse	2.73 2.9 sec/pulse	2.73 2.9 sec/pulse	

Guy Data (cont'd)

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm		Pull Off		Diagonal	
			K _x	K _y	K _x	K _y	K _x	K _y
122	No	No			1	1	1	1

Guy Data (cont'd)

Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U
122	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75

Guy Pressures

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<i>Guy Elevation</i>	<i>Guy Location</i>	<i>z</i>	<i>q_z</i>	<i>q_z Ice</i>	<i>Ice Thickness</i>
<i>ft</i>		<i>ft</i>	<i>psf</i>	<i>psf</i>	<i>in</i>
122	A	61.00	28	14	1.9141
	B	61.00	28	14	1.9141
	C	61.00	28	14	1.9141

Guy-Mast Forces (Excluding Wind) - No Ice

<i>Guy Elevation</i>	<i>Guy Location</i>	<i>Chord Angle</i>	<i>Guy Tension Top Bottom K</i>	<i>F_x</i>	<i>F_y</i>	<i>F_z</i>	<i>M_x</i>	<i>M_y</i>	<i>M_z</i>
<i>ft</i>		<i>°</i>		<i>K</i>	<i>K</i>	<i>K</i>	<i>kip-ft</i>	<i>kip-ft</i>	<i>kip-ft</i>
122	A	46.8932	8.16 7.97	0.00	6.02	-5.51	-4.86	0.00	0.00
	B	46.8932	8.16 7.97	4.77	6.02	2.76	2.43	0.00	-4.21
	C	46.8932	8.16 7.97	-4.77	6.02	2.76	2.43	0.00	4.21
			Sum:	0.00	18.06	0.00	0.00	0.00	0.00

Guy-Mast Forces (Excluding Wind) - Ice

<i>Guy Elevation</i>	<i>Guy Location</i>	<i>Chord Angle</i>	<i>Guy Tension Top Bottom K</i>	<i>F_x</i>	<i>F_y</i>	<i>F_z</i>	<i>M_x</i>	<i>M_y</i>	<i>M_z</i>
<i>ft</i>		<i>°</i>		<i>K</i>	<i>K</i>	<i>K</i>	<i>kip-ft</i>	<i>kip-ft</i>	<i>kip-ft</i>
122	A	46.8932	13.16 12.18	0.00	9.92	-8.65	-8.01	0.00	0.00
	B	46.8932	13.16 12.18	7.49	9.92	4.32	4.01	0.00	-6.94
	C	46.8932	13.16 12.18	-7.49	9.92	4.32	4.01	0.00	6.94
			Sum:	0.00	29.77	0.00	0.00	0.00	0.00

Guy-Mast Forces (Excluding Wind) - Service

<i>Guy Elevation</i>	<i>Guy Location</i>	<i>Chord Angle</i>	<i>Guy Tension Top Bottom K</i>	<i>F_x</i>	<i>F_y</i>	<i>F_z</i>	<i>M_x</i>	<i>M_y</i>	<i>M_z</i>
<i>ft</i>		<i>°</i>		<i>K</i>	<i>K</i>	<i>K</i>	<i>kip-ft</i>	<i>kip-ft</i>	<i>kip-ft</i>
122	A	46.8932	8.16 7.97	0.00	6.02	-5.51	-4.86	0.00	0.00
	B	46.8932	8.16 7.97	4.77	6.02	2.76	2.43	0.00	-4.21
	C	46.8932	8.16 7.97	-4.77	6.02	2.76	2.43	0.00	4.21
			Sum:	0.00	18.06	0.00	0.00	0.00	0.00

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	Client	AT&T Mobility	Designed by	Lucas.Tait

Guy-Tensioning Information

Temperature At Time Of Tensioning																	
Guy Elevation ft	H	V	0 F		20 F		40 F		60 F		80 F		100 F		120 F		
			Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	Initial Tension	Intercept	
			K	ft	K	ft	K	ft	K	ft	K	ft	K	ft	K	ft	
122	A	114.19	122.00	9.507	2.30	8.992	2.43	8.479	2.57	7.970	2.73	7.465	2.92	6.966	3.12	6.473	3.36
	B	114.19	122.00	9.507	2.30	8.992	2.43	8.479	2.57	7.970	2.73	7.465	2.92	6.966	3.12	6.473	3.36
	C	114.19	122.00	9.507	2.30	8.992	2.43	8.479	2.57	7.970	2.73	7.465	2.92	6.966	3.12	6.473	3.36

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
0.78" (19.7mm) 8 AWG 6	A	No	Surface Ar (CaAa)	150.00 - 0.00	6	3	0.000 0.000	0.7800		0.59
1 5/8" Coax	C	No	Surface Ar (CaAa)	129.00 - 0.00	6	3	0.000 0.000	1.9800		0.82

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf
0.39" (10mm) Fiber Trunk	C	No	No	Inside Pole	150.00 - 0.00	2	No Ice 1/2" Ice 1" Ice 2" Ice	0.06 0.06 0.06 0.06
0.92" (23.4mm) Cable	C	No	No	Inside Pole	150.00 - 0.00	5	No Ice 1/2" Ice 1" Ice 2" Ice	0.89 0.89 0.89 0.89
0.41" (10.3mm) Fiber	C	No	No	Inside Pole	150.00 - 0.00	3	No Ice 1/2" Ice 1" Ice 2" Ice	0.09 0.09 0.09 0.09
3/8" (0.38" - 9.5mm) RET Control Cable	C	No	No	Inside Pole	150.00 - 0.00	1	No Ice 1/2" Ice 1" Ice 2" Ice	0.23 0.23 0.23 0.23
2" conduit	C	No	No	Inside Pole	150.00 - 0.00	5	No Ice 1/2" Ice 1" Ice 2" Ice	3.65 3.65 3.65 3.65
1 1/4" Coax	C	No	No	Inside Pole	150.00 - 0.00	6	No Ice 1/2" Ice 1" Ice 2" Ice	0.63 0.63 0.63 0.63

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight plf

1 5/8" Hybriflex	C	No	No	Inside Pole	129.00 - 0.00	3	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
							2" Ice	0.00	1.30

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	150.00-110.00	A	0.000	0.000	9.360	0.000	0.14
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	11.286	0.000	1.25
L2	110.00-70.00	A	0.000	0.000	9.360	0.000	0.14
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	23.760	0.000	1.44
L3	70.00-31.50	A	0.000	0.000	9.009	0.000	0.14
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	22.869	0.000	1.38
L4	31.50-0.00	A	0.000	0.000	7.371	0.000	0.11
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	18.711	0.000	1.13

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	150.00-110.00	A	2.063	0.000	0.000	32.330	0.000	0.64
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	23.907	0.000	1.80
L2	110.00-70.00	A	1.989	0.000	0.000	31.587	0.000	0.61
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	49.587	0.000	2.56
L3	70.00-31.50	A	1.879	0.000	0.000	30.403	0.000	0.59
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	47.728	0.000	2.46
L4	31.50-0.00	A	1.668	0.000	0.000	24.009	0.000	0.46
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	38.184	0.000	1.97

Feed Line Center of Pressure

Section	Elevation	CP_X	CP_Z	CP_X	CP_Z
	ft	in	in	Ice in	Ice in

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Section	Elevation	CP _X	CP _Z	CP _X Ice	CP _Z Ice
	ft	in	in	in	in
L1	150.00-110.00	-1.0339	1.2362	-1.5221	0.7763
L2	110.00-70.00	-0.9564	2.6617	-1.4457	2.1697
L3	70.00-31.50	-0.9962	2.6973	-1.6100	2.3411
L4	31.50-0.00	-1.0222	2.7205	-1.7008	2.4691

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	2	0.78" (19.7mm) 8 AWG 6	110.00 - 150.00	1.0000	1.0000
L1	11	1 5/8" Coax	110.00 - 129.00	1.0000	1.0000
L2	2	0.78" (19.7mm) 8 AWG 6	70.00 - 110.00	1.0000	1.0000
L2	11	1 5/8" Coax	70.00 - 110.00	1.0000	1.0000
L3	2	0.78" (19.7mm) 8 AWG 6	31.50 - 70.00	1.0000	1.0000
L3	11	1 5/8" Coax	31.50 - 70.00	1.0000	1.0000
L4	2	0.78" (19.7mm) 8 AWG 6	0.00 - 31.50	1.0000	1.0000
L4	11	1 5/8" Coax	0.00 - 31.50	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
(2) APTDC-BDFDM-DBW	A	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.14 0.18 0.26	0.21 0.28 0.35 0.49	0.00 0.00 0.00 0.00
(2) APTDC-BDFDM-DBW	B	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.14 0.18 0.26	0.21 0.28 0.35 0.49	0.00 0.00 0.00 0.00
(2) APTDC-BDFDM-DBW	C	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.14 0.18 0.26	0.21 0.28 0.35 0.49	0.00 0.00 0.00 0.00
(5) DBC0051F3V51-2	C	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.41 0.48 0.55 0.69	0.29 0.34 0.39 0.49	0.01 0.01 0.02 0.02

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>		<i>C_{AA} Front ft²</i>	<i>C_{AA} Side ft²</i>	<i>Weight K</i>
RRUS 4478 B14 (16.5" Height)	A	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 1.97 2.10 2.36	1.06 1.13 1.20 1.34	0.06 0.07 0.08 0.09
RRUS 4478 B14 (16.5" Height)	B	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 1.97 2.10 2.36	1.06 1.13 1.20 1.34	0.06 0.07 0.08 0.09
RRUS 4478 B14 (16.5" Height)	C	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.84 1.97 2.10 2.36	1.06 1.13 1.20 1.34	0.06 0.07 0.08 0.09
RRUS 4449 B5, B12	A	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.10 2.23 2.49	1.40 1.50 1.60 1.80	0.07 0.08 0.09 0.11
RRUS 4449 B5, B12	B	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.10 2.23 2.49	1.40 1.50 1.60 1.80	0.07 0.08 0.09 0.11
RRUS 4449 B5, B12	C	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.10 2.23 2.49	1.40 1.50 1.60 1.80	0.07 0.08 0.09 0.11
(3) Radio 8843 B2 B66A	A	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.98 2.11 2.24 2.50	1.67 1.78 1.89 2.11	0.07 0.08 0.09 0.11
DC9-48-60-24-8C-EV (Enclosure)	A	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.68 2.84 3.00 3.32	2.11 2.24 2.37 2.63	0.02 0.03 0.04 0.07
DC9-48-60-24-8C-EV (Enclosure)	B	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.68 2.84 3.00 3.32	2.11 2.24 2.37 2.63	0.02 0.03 0.04 0.07
DC9-48-60-24-8C-EV (Enclosure)	C	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.68 2.84 3.00 3.32	2.11 2.24 2.37 2.63	0.02 0.03 0.04 0.07
RRUS 32 B30	A	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.91 3.08 3.42	1.67 1.77 1.87 2.07	0.06 0.07 0.08 0.10
RRUS 32 B30	B	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.91 3.08 3.42	1.67 1.77 1.87 2.07	0.06 0.07 0.08 0.10
RRUS 32 B30	C	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.91 3.08 3.42	1.67 1.77 1.87 2.07	0.06 0.07 0.08 0.10
RRUS 32 B2	A	From Leg	4.00 0.00 0.00	0.0000	154.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.74 2.91 3.08 3.42	1.67 1.77 1.87 2.07	0.05 0.06 0.07 0.10
RRUS 32 B2	B	From Leg	4.00	0.0000	154.00	No Ice	2.74	1.67	0.05

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>		<i>C_{AA} Front ft²</i>	<i>C_{AA} Side ft²</i>	<i>Weight K</i>
			0.00			1/2" Ice	2.91	1.77	0.06
			0.00			1" Ice	3.08	1.87	0.07
						2" Ice	3.42	2.07	0.10
RRUS 32 B66	A	From Leg	4.00	0.0000	154.00	No Ice	2.74	1.67	0.05
			0.00			1/2" Ice	2.91	1.77	0.06
			0.00			1" Ice	3.08	1.87	0.07
						2" Ice	3.42	2.07	0.10
RRUS 32 B66	B	From Leg	4.00	0.0000	154.00	No Ice	2.74	1.67	0.05
			0.00			1/2" Ice	2.91	1.77	0.06
			0.00			1" Ice	3.08	1.87	0.07
						2" Ice	3.42	2.07	0.10
AIR 6472 B77G B77M (77.2lbs)	A	From Leg	4.00	0.0000	154.00	No Ice	4.91	1.43	0.08
			0.00			1/2" Ice	6.91	2.00	0.09
			0.00			1" Ice	8.91	2.57	0.11
						2" Ice	12.91	3.71	0.14
AIR 6472 B77G B77M (77.2lbs)	B	From Leg	4.00	0.0000	154.00	No Ice	4.91	1.43	0.08
			0.00			1/2" Ice	6.91	2.00	0.09
			0.00			1" Ice	8.91	2.57	0.11
						2" Ice	12.91	3.71	0.14
AIR 6472 B77G B77M (77.2lbs)	C	From Leg	4.00	0.0000	154.00	No Ice	4.91	1.43	0.08
			0.00			1/2" Ice	6.91	2.00	0.09
			0.00			1" Ice	8.91	2.57	0.11
						2" Ice	12.91	3.71	0.14
QD6616-7	A	From Leg	4.00	0.0000	154.00	No Ice	13.58	3.89	0.13
			0.00			1/2" Ice	13.99	4.01	0.17
			0.00			1" Ice	14.40	4.13	0.21
						2" Ice	15.22	4.37	0.30
80010965	B	From Leg	4.00	0.0000	154.00	No Ice	13.81	3.39	0.10
			0.00			1/2" Ice	14.25	3.49	0.14
			0.00			1" Ice	14.69	3.59	0.17
						2" Ice	15.57	3.79	0.25
80010966	A	From Leg	4.00	0.0000	154.00	No Ice	17.36	4.39	0.11
			0.00			1/2" Ice	17.89	4.52	0.16
			0.00			1" Ice	18.42	4.65	0.21
						2" Ice	19.48	4.91	0.30
QD8616-7	A	From Leg	4.00	0.0000	154.00	No Ice	18.82	5.55	0.15
			0.00			1/2" Ice	19.35	5.70	0.20
			0.00			1" Ice	19.88	5.85	0.26
						2" Ice	20.94	6.15	0.37
QD8616-7	C	From Leg	4.00	0.0000	154.00	No Ice	18.82	5.55	0.15
			0.00			1/2" Ice	19.35	5.70	0.20
			0.00			1" Ice	19.88	5.85	0.26
						2" Ice	20.94	6.15	0.37
MS-MBA-3.2-H8-L4	C	From Leg	4.00	0.0000	154.00	No Ice	20.99	12.73	0.17
			0.00			1/2" Ice	21.53	13.06	1.05
			0.00			1" Ice	22.07	13.39	1.93
						2" Ice	23.15	14.05	3.70
Flat Platform with Handrails	A	From Leg	0.00	0.0000	154.00	No Ice	42.40	42.40	2.50
			0.00			1/2" Ice	45.41	45.41	2.75
			0.00			1" Ice	48.42	48.42	3.01
						2" Ice	54.44	54.44	3.52

39GHz VectaStar NR gNB	A	From Leg	4.00	0.0000	131.00	No Ice	2.40	0.78	0.04
			0.00			1/2" Ice	2.55	0.83	0.05
			0.00			1" Ice	2.70	0.88	0.06
						2" Ice	3.00	0.98	0.08
39GHz VectaStar NR gNB	B	From Leg	4.00	0.0000	131.00	No Ice	2.40	0.78	0.04

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_{AA} Front ft²</i>	<i>C_{AA} Side ft²</i>	<i>Weight K</i>
			0.00			1/2" Ice	2.55	0.05
			0.00			1" Ice	2.70	0.06
						2" Ice	3.00	0.08
(2) 39GHz VectaStar NR gNB	C	From Leg	4.00	0.0000	131.00	No Ice	2.40	0.04
			0.00			1/2" Ice	2.55	0.05
			0.00			1" Ice	2.70	0.06
						2" Ice	3.00	0.08
CBC78T-DS-43-2X	C	From Leg	4.00	0.0000	129.00	No Ice	0.55	0.02
			0.00			1/2" Ice	0.62	0.02
			0.00			1" Ice	0.69	0.03
						2" Ice	0.83	0.03
CBC78T-DS-43-2X	B	From Leg	4.00	0.0000	129.00	No Ice	0.55	0.02
			0.00			1/2" Ice	0.62	0.02
			0.00			1" Ice	0.69	0.03
						2" Ice	0.83	0.03
CBC78T-DS-43-2X	C	From Leg	4.00	0.0000	129.00	No Ice	0.55	0.02
			0.00			1/2" Ice	0.62	0.02
			0.00			1" Ice	0.69	0.03
						2" Ice	0.83	0.03
CBC78T-DS-43-2X	A	From Leg	4.00	0.0000	129.00	No Ice	0.55	0.02
			0.00			1/2" Ice	0.62	0.02
			0.00			1" Ice	0.69	0.03
						2" Ice	0.83	0.03
CBC78T-DS-43-2X	B	From Leg	4.00	0.0000	129.00	No Ice	0.55	0.02
			0.00			1/2" Ice	0.62	0.02
			0.00			1" Ice	0.69	0.03
						2" Ice	0.83	0.03
CBC78T-DS-43-2X	C	From Leg	4.00	0.0000	129.00	No Ice	0.55	0.02
			0.00			1/2" Ice	0.62	0.02
			0.00			1" Ice	0.69	0.03
						2" Ice	0.83	0.03
RT4401-48A	A	From Leg	4.00	0.0000	129.00	No Ice	1.00	0.02
			0.00			1/2" Ice	1.09	0.02
			0.00			1" Ice	1.18	0.03
						2" Ice	1.36	0.03
RT4401-48A	B	From Leg	4.00	0.0000	129.00	No Ice	1.00	0.02
			0.00			1/2" Ice	1.09	0.02
			0.00			1" Ice	1.18	0.03
						2" Ice	1.36	0.03
RT4401-48A	C	From Leg	4.00	0.0000	129.00	No Ice	1.00	0.02
			0.00			1/2" Ice	1.09	0.02
			0.00			1" Ice	1.18	0.03
						2" Ice	1.36	0.03
(2) BSF0020F3V1-1	A	From Leg	4.00	0.0000	129.00	No Ice	1.10	0.02
			0.00			1/2" Ice	1.20	0.02
			0.00			1" Ice	1.30	0.02
						2" Ice	1.50	0.03
(2) BSF0020F3V1-1	B	From Leg	4.00	0.0000	129.00	No Ice	1.10	0.02
			0.00			1/2" Ice	1.20	0.02
			0.00			1" Ice	1.30	0.02
						2" Ice	1.50	0.03
(2) BSF0020F3V1-1	C	From Leg	4.00	0.0000	129.00	No Ice	1.10	0.02
			0.00			1/2" Ice	1.20	0.02
			0.00			1" Ice	1.30	0.02
						2" Ice	1.50	0.03
RF4461d-13A	A	From Leg	4.00	0.0000	129.00	No Ice	1.88	0.08
			0.00			1/2" Ice	2.00	0.09

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_{AA} Front ft²</i>	<i>C_{AA} Side ft²</i>	<i>Weight K</i>	
			0.00			1" Ice	2.12	1.44	0.10
						2" Ice	2.36	1.60	0.12
RF4461d-13A	B	From Leg	4.00	0.0000	129.00	No Ice	1.88	1.28	0.08
			0.00			1/2" Ice	2.00	1.36	0.09
			0.00			1" Ice	2.12	1.44	0.10
						2" Ice	2.36	1.60	0.12
RF4461d-13A	C	From Leg	4.00	0.0000	129.00	No Ice	1.88	1.28	0.08
			0.00			1/2" Ice	2.00	1.36	0.09
			0.00			1" Ice	2.12	1.44	0.10
						2" Ice	2.36	1.60	0.12
B2/B66A RRH-BR049	A	From Leg	4.00	0.0000	129.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.00	1.34	0.09
			0.00			1" Ice	2.12	1.43	0.10
						2" Ice	2.36	1.61	0.12
B2/B66A RRH-BR049	B	From Leg	4.00	0.0000	129.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.00	1.34	0.09
			0.00			1" Ice	2.12	1.43	0.10
						2" Ice	2.36	1.61	0.12
B2/B66A RRH-BR049	C	From Leg	4.00	0.0000	129.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.00	1.34	0.09
			0.00			1" Ice	2.12	1.43	0.10
						2" Ice	2.36	1.61	0.12
DX10FRO260-00/06	A	From Leg	4.00	0.0000	129.00	No Ice	3.00	0.50	0.01
			0.00			1/2" Ice	3.17	0.52	0.02
			0.00			1" Ice	3.34	0.54	0.03
						2" Ice	3.68	0.58	0.05
DX10FRO260-00/06	B	From Leg	4.00	0.0000	129.00	No Ice	3.00	0.50	0.01
			0.00			1/2" Ice	3.17	0.52	0.02
			0.00			1" Ice	3.34	0.54	0.03
						2" Ice	3.68	0.58	0.05
DX10FRO260-00/06	C	From Leg	4.00	0.0000	129.00	No Ice	3.00	0.50	0.01
			0.00			1/2" Ice	3.17	0.52	0.02
			0.00			1" Ice	3.34	0.54	0.03
						2" Ice	3.68	0.58	0.05
MT6413-77A	A	From Leg	4.00	0.0000	129.00	No Ice	3.81	0.84	0.06
			0.00			1/2" Ice	4.00	0.88	0.07
			0.00			1" Ice	4.19	0.92	0.08
						2" Ice	4.57	1.00	0.11
MT6413-77A	B	From Leg	4.00	0.0000	129.00	No Ice	3.81	0.84	0.06
			0.00			1/2" Ice	4.00	0.88	0.07
			0.00			1" Ice	4.19	0.92	0.08
						2" Ice	4.57	1.00	0.11
MT6413-77A	C	From Leg	4.00	0.0000	129.00	No Ice	3.81	0.84	0.06
			0.00			1/2" Ice	4.00	0.88	0.07
			0.00			1" Ice	4.19	0.92	0.08
						2" Ice	4.57	1.00	0.11
(2) RCMD-6627-PF-48	A	From Leg	4.00	0.0000	129.00	No Ice	4.06	3.10	0.03
			0.00			1/2" Ice	4.25	3.25	0.05
			0.00			1" Ice	4.44	3.40	0.07
						2" Ice	4.82	3.70	0.10
JAAH-65C-R3B-V2	A	From Leg	4.00	0.0000	129.00	No Ice	12.81	4.93	0.08
			0.00			1/2" Ice	13.35	5.13	0.12
			0.00			1" Ice	13.89	5.33	0.16
						2" Ice	14.97	5.73	0.23
JAAH-65C-R3B-V2	B	From Leg	4.00	0.0000	129.00	No Ice	12.81	4.93	0.08
			0.00			1/2" Ice	13.35	5.13	0.12
			0.00			1" Ice	13.89	5.33	0.16

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>	<i>C_{AA} Front ft²</i>	<i>C_{AA} Side ft²</i>	<i>Weight K</i>
JAHH-65C-R3B-V2	C	From Leg	4.00 0.00 0.00	0.0000	129.00	2" Ice 14.97 No Ice 12.81 1/2" Ice 13.35 1" Ice 13.89	5.73 4.93 5.13 5.33	0.23 0.08 0.12 0.16
JAHH-65C-R3B-V2	A	From Leg	4.00 0.00 0.00	0.0000	129.00	2" Ice 14.97 No Ice 12.81 1/2" Ice 13.35 1" Ice 13.89	5.73 4.93 5.13 5.33	0.23 0.08 0.12 0.16
JAHH-65C-R3B-V2	B	From Leg	4.00 0.00 0.00	0.0000	129.00	2" Ice 14.97 No Ice 12.81 1/2" Ice 13.35 1" Ice 13.89	5.73 4.93 5.13 5.33	0.23 0.08 0.12 0.16
JAHH-65C-R3B-V2	C	From Leg	4.00 0.00 0.00	0.0000	129.00	2" Ice 14.97 No Ice 12.81 1/2" Ice 13.35 1" Ice 13.89	5.73 4.93 5.13 5.33	0.23 0.08 0.12 0.16
Heavy Platform with Handrails	A	From Leg	0.00 0.00 0.00	0.0000	129.00	2" Ice 14.97 No Ice 59.80 1/2" Ice 63.57 1" Ice 67.34 2" Ice 74.88	5.73 59.80 63.57 67.34 74.88	0.23 3.75 4.14 4.52 5.29

Tower Pressures - No Ice

$$G_H = 1.100$$

<i>Section Elevation ft</i>	<i>z ft</i>	<i>K_Z</i>	<i>q_z psf</i>	<i>A_G ft²</i>	<i>F_a c e</i>	<i>A_F ft²</i>	<i>A_R ft²</i>	<i>A_{leg} ft²</i>	<i>Leg %</i>	<i>C_{AA} In Face ft²</i>	<i>C_{AA} Out Face ft²</i>
L1 150.00-110.00	129.05	1.063	34	61.563	A B C	0.000 0.000 0.000	61.563 61.563 61.563	61.563	100.00 100.00 100.00	9.360 0.000 11.286	0.000 0.000 0.000
L2 110.00-70.00	89.44	0.957	31	83.306	A B C	0.000 0.000 0.000	83.306 83.306 83.306	83.306	100.00 100.00 100.00	9.360 0.000 23.760	0.000 0.000 0.000
L3 70.00-31.50	50.63	0.814	26	99.000	A B C	0.000 0.000 0.000	99.000 99.000 99.000	99.000	100.00 100.00 100.00	9.009 0.000 22.869	0.000 0.000 0.000
L4 31.50-0.00	15.38	0.7	23	94.108	A B C	0.000 0.000 0.000	94.108 94.108 94.108	94.108	100.00 100.00 100.00	7.371 0.000 18.711	0.000 0.000 0.000

Tower Pressure - With Ice

$$G_H = 1.100$$

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Section Elevation	<i>z</i>	<i>K_Z</i>	<i>q_z</i>	<i>t_z</i>	<i>A_G</i>	<i>F_{a c e}</i>	<i>A_F</i>	<i>A_R</i>	<i>A_{leg}</i>	Leg %	<i>C_AA_A</i> In Face ft ²	<i>C_AA_A</i> Out Face ft ²
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²			
L1 150.00-110.00	129.05	1.063	18	2.0630	75.316	A	0.000	75.316	75.316	100.00	32.330	0.000
						B	0.000	75.316		100.00	0.000	0.000
						C	0.000	75.316		100.00	23.907	0.000
L2 110.00-70.00	89.44	0.957	16	1.9887	96.565	A	0.000	96.565	96.565	100.00	31.587	0.000
						B	0.000	96.565		100.00	0.000	0.000
						C	0.000	96.565		100.00	49.587	0.000
L3 70.00-31.50	50.63	0.814	13	1.8787	111.761	A	0.000	111.761	111.761	100.00	30.403	0.000
						B	0.000	111.761		100.00	0.000	0.000
						C	0.000	111.761		100.00	47.728	0.000
L4 31.50-0.00	15.38	0.7	12	1.6677	103.971	A	0.000	103.971	103.971	100.00	24.009	0.000
						B	0.000	103.971		100.00	0.000	0.000
						C	0.000	103.971		100.00	38.184	0.000

Tower Pressure - Service

$$G_H = 1.100$$

Section Elevation	<i>z</i>	<i>K_Z</i>	<i>q_z</i>	<i>A_G</i>	<i>F_{a c e}</i>	<i>A_F</i>	<i>A_R</i>	<i>A_{leg}</i>	Leg %	<i>C_AA_A</i> In Face ft ²	<i>C_AA_A</i> Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
L1 150.00-110.00	129.05	1.063	8	61.563	A	0.000	61.563	61.563	100.00	9.360	0.000
					B	0.000	61.563		100.00	0.000	0.000
					C	0.000	61.563		100.00	11.286	0.000
L2 110.00-70.00	89.44	0.957	7	83.306	A	0.000	83.306	83.306	100.00	9.360	0.000
					B	0.000	83.306		100.00	0.000	0.000
					C	0.000	83.306		100.00	23.760	0.000
L3 70.00-31.50	50.63	0.814	6	99.000	A	0.000	99.000	99.000	100.00	9.009	0.000
					B	0.000	99.000		100.00	0.000	0.000
					C	0.000	99.000		100.00	22.869	0.000
L4 31.50-0.00	15.38	0.7	5	94.108	A	0.000	94.108	94.108	100.00	7.371	0.000
					B	0.000	94.108		100.00	0.000	0.000
					C	0.000	94.108		100.00	18.711	0.000

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy
3	1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy
4	1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy
5	1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy
6	1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy
7	1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy
8	1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy
9	1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy
10	1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy
11	1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy
12	1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy
13	1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy
14	1.2 Dead+1.0 Ice+1.0 Temp+Guy

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<i>Comb. No.</i>	<i>Description</i>
15	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy
16	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy
17	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy
18	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy
19	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy
20	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy
21	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy
22	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy
23	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy
24	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy
25	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy
26	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy
27	Dead+Wind 0 deg - Service+Guy
28	Dead+Wind 30 deg - Service+Guy
29	Dead+Wind 60 deg - Service+Guy
30	Dead+Wind 90 deg - Service+Guy
31	Dead+Wind 120 deg - Service+Guy
32	Dead+Wind 150 deg - Service+Guy
33	Dead+Wind 180 deg - Service+Guy
34	Dead+Wind 210 deg - Service+Guy
35	Dead+Wind 240 deg - Service+Guy
36	Dead+Wind 270 deg - Service+Guy
37	Dead+Wind 300 deg - Service+Guy
38	Dead+Wind 330 deg - Service+Guy

Maximum Member Forces

<i>Section No.</i>	<i>Elevation ft</i>	<i>Component Type</i>	<i>Condition</i>	<i>Gov. Load Comb.</i>	<i>Axial K</i>	<i>Major Axis Moment kip-ft</i>	<i>Minor Axis Moment kip-ft</i>
L1	150 - 110	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	15	-62.68	14.35	141.11
			Max. Mx	11	-14.00	229.40	3.07
			Max. My	2	-13.85	-3.00	256.23
			Max. Vy	11	-12.19	229.40	3.07
			Max. Vx	2	-12.77	-3.00	256.23
		Guy A	Max. Torque	10			-5.04
			Bottom Tension	9	30.91		
			Top Tension	9	31.10		
			Top Cable Vert	9	22.79		
			Top Cable Norm	9	21.17		
			Top Cable Tan	9	0.02		
		Guy B	Bot Cable Vert	9	-22.37		
			Bot Cable Norm	9	21.33		
			Bot Cable Tan	9	0.20		
			Bottom Tension	11	31.60		
			Top Tension	11	31.79		
			Top Cable Vert	11	23.29		
		Guy C	Top Cable Norm	11	21.64		
			Top Cable Tan	11	0.03		
			Bot Cable Vert	11	-22.87		
			Bot Cable Norm	11	21.81		
			Bot Cable Tan	11	0.21		
			Bottom Tension	5	31.54		
			Top Tension	5	31.74		
			Top Cable Vert	5	23.25		
			Top Cable Norm	5	21.60		
			Top Cable Tan	5	0.02		
			Bot Cable Vert	5	-22.83		

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L2	110 - 70	Pole	Bot Cable Norm	5	21.77		
			Bot Cable Tan	5	0.20		
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	15	-71.08	4.67	57.38
			Max. Mx	11	-51.26	156.77	-2.23
			Max. My	2	-54.82	-2.59	198.61
			Max. Vy	11	4.70	156.77	-2.23
			Max. Vx	8	-4.28	5.33	-170.50
L3	70 - 31.5	Pole	Max. Torque	4			5.01
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	15	-82.30	-6.63	28.19
			Max. Mx	11	-62.41	58.04	-28.77
			Max. My	2	-60.18	-0.93	78.88
			Max. Vy	5	2.09	-57.63	-30.27
			Max. Vx	8	-2.17	3.34	-36.66
			Max. Torque	4			5.01
L4	31.5 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	15	-94.96	-16.71	63.40
			Max. Mx	5	-70.19	-182.71	-44.41
			Max. My	2	-74.22	2.53	99.26
			Max. Vy	5	4.94	-182.71	-44.41
			Max. Vx	8	2.70	-1.01	-54.00
			Max. Torque	4			5.01

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Mast	Max. Vert	15	94.96	-0.29	1.89
	Max. H _x	11	70.68	4.89	-0.23
	Max. H _z	2	74.22	0.04	2.65
	Max. M _x	2	99.26	0.04	2.65
	Max. M _z	5	182.71	-4.94	-0.36
	Max. Torsion	4	5.01	-2.62	1.23
	Min. Vert	1	47.27	-0.02	-0.10
	Min. H _x	5	70.19	-4.94	-0.36
	Min. H _z	8	60.98	-0.07	-2.70
	Min. M _x	6	-65.60	-2.89	-1.65
	Min. M _z	11	-181.88	4.89	-0.23
	Min. Torsion	10	-4.97	2.78	-1.54
	Max. Vert	10	-0.11	-0.06	0.03
	Max. H _x	10	-0.11	-0.06	0.03
	Max. H _z	3	-22.57	-18.53	10.94
	Min. Vert	5	-22.83	-18.95	10.71
Guy C @ 115 ft Elev 0 ft Azimuth 240 deg	Min. H _x	5	-22.83	-18.95	10.71
	Min. H _z	10	-0.11	-0.06	0.03
	Max. Vert	6	-0.11	0.06	0.04
	Max. H _x	11	-22.87	18.99	10.72
	Max. H _z	11	-22.87	18.99	10.72
	Min. Vert	11	-22.87	18.99	10.72
	Min. H _x	6	-0.11	0.06	0.04
	Min. H _z	6	-0.11	0.06	0.04
	Max. H _x	11	-22.87	18.99	10.72
	Max. H _z	11	-22.87	18.99	10.72

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Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Guy A @ 115 ft Elev 0 ft Azimuth 0 deg	Max. Vert	2	-0.10	-0.00	-0.06
	Max. H _x	24	-9.59	0.66	-9.62
	Max. H _z	2	-0.10	-0.00	-0.06
	Min. Vert	9	-22.37	0.20	-21.33
	Min. H _x	18	-9.09	-0.66	-9.14
	Min. H _z	9	-22.37	0.20	-21.33

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	47.27	0.02	0.10	6.32	-0.92	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy	74.22	-0.04	-2.65	-99.26	2.53	-1.71
1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy	70.57	1.34	-2.27	-81.46	-20.44	-3.80
1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy	60.94	2.62	-1.23	-24.87	-57.57	-5.01
1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy	70.19	4.94	0.36	44.41	-182.71	-4.10
1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy	72.18	2.89	1.65	65.60	-113.43	-3.26
1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy	68.59	1.73	2.42	63.89	-79.19	-0.81
1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy	60.98	0.07	2.70	54.00	-1.01	1.73
1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy	69.61	-1.57	2.35	61.75	74.09	3.80
1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy	72.99	-2.78	1.54	60.71	110.01	4.97
1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy	70.68	-4.89	0.23	38.24	181.88	4.08
1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy	60.60	-2.64	-1.33	-27.55	60.03	3.28
1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy	70.03	-1.41	-2.33	-83.19	24.62	0.84
1.2 Dead+1.0 Ice+1.0 Temp+Guy	84.47	0.32	0.04	4.73	-17.94	-0.03
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy	94.96	0.29	-1.89	-63.40	-16.71	-1.83
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy	94.25	1.30	-1.62	-53.48	-40.03	-2.91
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy	92.24	2.09	-0.88	-20.43	-64.54	-3.36
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy	93.24	2.79	0.12	17.50	-107.22	-2.69
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy	93.32	2.19	1.03	37.29	-82.89	-1.55
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy	93.13	1.44	1.68	48.50	-62.01	0.21
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy	92.60	0.35	1.90	50.75	-16.43	1.73
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy	94.32	-0.74	1.64	48.39	27.43	2.79

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<i>Load Combination</i>	<i>Vertical K</i>	<i>Shear_x K</i>	<i>Shear_z K</i>	<i>Overturning Moment, M_x kip-ft</i>	<i>Overturning Moment, M_z kip-ft</i>	<i>Torque kip-ft</i>
1.2 Dead+1.0 Wind 240	94.74	-1.50	0.96	36.49	48.28	3.28
deg+1.0 Ice+1.0 Temp+1.0 Guy						
1.2 Dead+1.0 Wind 270	94.28	-2.14	0.05	16.76	73.63	2.66
deg+1.0 Ice+1.0 Temp+1.0 Guy						
1.2 Dead+1.0 Wind 300	92.40	-1.48	-0.93	-20.54	31.37	1.52
deg+1.0 Ice+1.0 Temp+1.0 Guy						
1.2 Dead+1.0 Wind 330	94.08	-0.72	-1.65	-54.19	6.44	-0.28
deg+1.0 Ice+1.0 Temp+1.0 Guy						
Dead+Wind 0 deg -	47.40	0.01	-0.51	-2.33	-0.13	-0.41
Service+Guy						
Dead+Wind 30 deg -	47.38	0.35	-0.42	-0.70	-6.51	-0.91
Service+Guy						
Dead+Wind 60 deg -	47.35	0.64	-0.21	1.67	-13.20	-1.18
Service+Guy						
Dead+Wind 90 deg -	47.38	1.14	0.12	7.11	-31.84	-0.96
Service+Guy						
Dead+Wind 120 deg -	47.38	0.65	0.44	12.34	-13.99	-0.77
Service+Guy						
Dead+Wind 150 deg -	47.36	0.37	0.64	14.19	-7.84	-0.20
Service+Guy						
Dead+Wind 180 deg -	47.35	0.03	0.71	14.96	-1.69	0.41
Service+Guy						
Dead+Wind 210 deg -	47.37	-0.31	0.62	13.36	4.63	0.91
Service+Guy						
Dead+Wind 240 deg -	47.39	-0.60	0.41	10.99	11.38	1.18
Service+Guy						
Dead+Wind 270 deg -	47.38	-1.10	0.09	5.55	30.01	0.96
Service+Guy						
Dead+Wind 300 deg -	47.35	-0.61	-0.23	0.32	12.14	0.77
Service+Guy						
Dead+Wind 330 deg -	47.37	-0.33	-0.43	-1.50	6.05	0.20
Service+Guy						

Solution Summary

<i>Load Comb.</i>	<i>Sum of Applied Forces</i>			<i>Sum of Reactions</i>			<i>% Error</i>
	<i>PX K</i>	<i>PY K</i>	<i>PZ K</i>	<i>PX K</i>	<i>PY K</i>	<i>PZ K</i>	
1	0.00	-30.00	0.00	-0.00	30.00	-0.00	0.001%
2	0.14	-35.88	-21.35	-0.14	35.88	21.35	0.000%
3	10.50	-35.84	-18.62	-10.50	35.84	18.62	0.000%
4	18.23	-35.79	-10.95	-18.23	35.79	10.95	0.000%
5	23.88	-35.84	-0.14	-23.88	35.84	0.14	0.000%
6	18.09	-35.88	10.70	-18.09	35.88	-10.70	0.000%
7	10.21	-35.84	18.41	-10.21	35.84	-18.41	0.000%
8	-0.14	-35.79	21.35	0.14	35.79	-21.35	0.000%
9	-10.50	-35.84	18.62	10.50	35.84	-18.62	0.000%
10	-18.23	-35.88	10.95	18.23	35.88	-10.95	0.000%
11	-23.88	-35.84	0.14	23.88	35.84	-0.14	0.000%
12	-18.09	-35.79	-10.70	18.09	35.79	10.70	0.000%
13	-10.21	-35.84	-18.41	10.21	35.84	18.41	0.000%
14	0.00	-65.48	0.00	-0.00	65.48	-0.00	0.000%
15	0.08	-65.61	-16.81	-0.08	65.61	16.81	0.001%
16	8.28	-65.48	-14.60	-8.28	65.48	14.60	0.001%
17	14.26	-65.36	-8.48	-14.26	65.36	8.48	0.000%
18	17.11	-65.48	-0.08	-17.11	65.48	0.08	0.001%
19	14.18	-65.61	8.33	-14.18	65.61	-8.33	0.001%
20	8.14	-65.48	14.52	-8.14	65.48	-14.52	0.001%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
21	-0.08	-65.36	16.81	0.08	65.36	-16.81	0.000%
22	-8.28	-65.48	14.60	8.28	65.48	-14.60	0.001%
23	-14.26	-65.61	8.48	14.26	65.61	-8.48	0.000%
24	-17.11	-65.48	0.08	17.11	65.48	-0.08	0.001%
25	-14.18	-65.36	-8.33	14.18	65.36	8.33	0.000%
26	-8.14	-65.48	-14.52	8.14	65.48	14.52	0.001%
27	0.03	-30.01	-5.02	-0.03	30.01	5.02	0.000%
28	2.47	-30.00	-4.38	-2.47	30.00	4.38	0.000%
29	4.29	-29.99	-2.58	-4.29	29.99	2.58	0.000%
30	5.62	-30.00	-0.03	-5.62	30.00	0.03	0.000%
31	4.26	-30.01	2.52	-4.26	30.01	-2.52	0.000%
32	2.40	-30.00	4.33	-2.40	30.00	-4.33	0.000%
33	-0.03	-29.99	5.02	0.03	29.99	-5.02	0.000%
34	-2.47	-30.00	4.38	2.47	30.00	-4.38	0.000%
35	-4.29	-30.01	2.58	4.29	30.01	-2.58	0.000%
36	-5.62	-30.00	0.03	5.62	30.00	-0.03	0.000%
37	-4.26	-29.99	-2.52	4.26	29.99	2.52	0.000%
38	-2.40	-30.00	-4.33	2.40	30.00	4.33	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00018300
2	Yes	6	0.00000001	0.00036110
3	Yes	6	0.00000001	0.00042091
4	Yes	6	0.00000001	0.00025163
5	Yes	6	0.00000001	0.00051130
6	Yes	6	0.00000001	0.00053512
7	Yes	6	0.00000001	0.00035086
8	Yes	6	0.00000001	0.00009375
9	Yes	6	0.00000001	0.00072059
10	Yes	6	0.00000001	0.00083553
11	Yes	6	0.00000001	0.00052377
12	Yes	6	0.00000001	0.00016295
13	Yes	6	0.00000001	0.00026676
14	Yes	5	0.00000001	0.00012910
15	Yes	6	0.00025259	0.00083129
16	Yes	6	0.00019096	0.00059999
17	Yes	6	0.00000001	0.00035202
18	Yes	6	0.00000001	0.00055191
19	Yes	6	0.00024478	0.00061689
20	Yes	6	0.00000001	0.00037419
21	Yes	6	0.00000001	0.00028118
22	Yes	6	0.00018758	0.00088855
23	Yes	7	0.00000001	0.00020361
24	Yes	6	0.00018297	0.00066498
25	Yes	6	0.00000001	0.00033801
26	Yes	6	0.00018357	0.00057778
27	Yes	5	0.00000001	0.00005330
28	Yes	5	0.00000001	0.00008135
29	Yes	5	0.00000001	0.00009950
30	Yes	5	0.00000001	0.00007461
31	Yes	5	0.00000001	0.00005193
32	Yes	4	0.00000001	0.00077548
33	Yes	4	0.00000001	0.00087302

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34	Yes	5	0.00000001	0.00007451
35	Yes	5	0.00000001	0.00009058
36	Yes	5	0.00000001	0.00007810
37	Yes	5	0.00000001	0.00006506
38	Yes	5	0.00000001	0.00001707

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 110	6.525	27	1.1315	0.0483
L2	110 - 70	0.771	30	0.2222	0.0187
L3	73.5 - 31.5	0.323	30	0.0258	0.0072
L4	35.667 - 0	0.116	30	0.0249	0.0023

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
154.00	(2) APTDC-BDFDM-DBW	27	6.525	1.1315	0.0483	16960
131.00	39GHz VectaStar NR gNB	27	3.113	0.6378	0.0327	4463
129.00	CBC78T-DS-43-2X	27	2.793	0.5903	0.0312	4038
122.00	Guy	27	1.776	0.4351	0.0261	3028

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 110	35.795	2	4.9879	0.2056
L2	110 - 70	7.326	2	1.4029	0.0790
L3	73.5 - 31.5	2.761	5	0.3227	0.0305
L4	35.667 - 0	0.767	5	0.1802	0.0099

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
154.00	(2) APTDC-BDFDM-DBW	2	35.795	4.9879	0.2079	4318
131.00	39GHz VectaStar NR gNB	2	20.074	3.0680	0.1402	1134
129.00	CBC78T-DS-43-2X	2	18.577	2.8814	0.1335	1026
122.00	Guy	2	13.734	2.2677	0.1115	768

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Guy Design Data

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual T_u K	Allowable ϕT_n K	Required S.F.	Actual S.F.
L1	122.00 (A) (7)	7/8 EHS	7.97	79.70	31.10	47.82	1.000	1.538
	122.00 (B) (6)	7/8 EHS	7.97	79.70	31.79	47.82	1.000	1.504
	122.00 (C) (5)	7/8 EHS	7.97	79.70	31.74	47.82	1.000	1.507

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	150 - 110 (1)	TP21.25x15x0.1875	40.00	0.00	0.0	11.5845	-53.90	677.69	0.080
L2	110 - 70 (2)	TP27.61x21.25x0.25	40.00	0.00	0.0	16.9050	-54.93	988.94	0.056
L3	70 - 31.5 (3)	TP33.1x26.5535x0.3125	42.00	0.00	0.0	26.9540	-60.33	1576.81	0.038
L4	31.5 - 0 (4)	TP37.38x31.8255x0.375	35.67	0.00	0.0	44.6835	-70.19	2613.99	0.027

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	150 - 110 (1)	TP21.25x15x0.1875	240.36	309.06	0.778	0.00	309.06	0.000
L2	110 - 70 (2)	TP27.61x21.25x0.25	198.63	527.32	0.377	0.00	527.32	0.000
L3	70 - 31.5 (3)	TP33.1x26.5535x0.3125	78.89	1066.08	0.074	0.00	1066.08	0.000
L4	31.5 - 0 (4)	TP37.38x31.8255x0.375	188.03	2330.58	0.081	0.00	2330.58	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	150 - 110 (1)	TP21.25x15x0.1875	3.36	203.31	0.017	1.71	343.14	0.005
L2	110 - 70 (2)	TP27.61x21.25x0.25	3.67	301.00	0.012	1.71	548.04	0.003
L3	70 - 31.5 (3)	TP33.1x26.5535x0.3125	1.99	478.29	0.004	1.71	1114.59	0.002
L4	31.5 - 0 (4)	TP37.38x31.8255x0.375	4.95	784.20	0.006	4.10	2552.62	0.002

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Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	150 - 110 (1)	0.080	0.778	0.000	0.017	0.005	0.858	1.000	4.8.2
L2	110 - 70 (2)	0.056	0.377	0.000	0.012	0.003	0.432	1.000	4.8.2
L3	70 - 31.5 (3)	0.038	0.074	0.000	0.004	0.002	0.112	1.000	4.8.2
L4	31.5 - 0 (4)	0.027	0.081	0.000	0.006	0.002	0.108	1.000	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 110	Pole	TP21.25x15x0.1875	1	-53.90	677.69	85.8	Pass
		Guy A@122	7/8	7	31.10	47.82	65.0	Pass
		Guy B@122	7/8	6	31.79	47.82	66.5	Pass
		Guy C@122	7/8	5	31.74	47.82	66.4	Pass
L2	110 - 70	Pole	TP27.61x21.25x0.25	2	-54.93	988.94	43.2	Pass
L3	70 - 31.5	Pole	TP33.1x26.5535x0.3125	3	-60.33	1576.81	11.2	Pass
L4	31.5 - 0	Pole	TP37.38x31.8255x0.375	4	-70.19	2613.99	10.8	Pass
Summary								
Pole (L1)							85.8	Pass
Guy A (L1)							65.0	Pass
Guy B (L1)							66.5	Pass
Guy C (L1)							66.4	Pass
RATING =							85.8	Pass

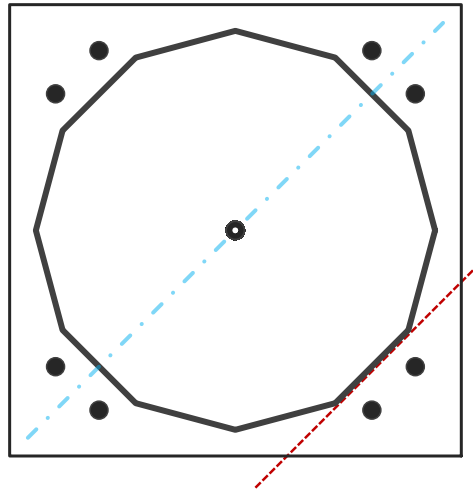
Base Plate & Anchor Rod Analysis at 0'

Pole Dimensions		
Number of Sides	12	-
Diameter	37.38	in
Thickness	3/8	in
Base Weld Size	3/16	in
Orientation Offset	0	°

Applied Reactions		
Moment, Mu	188.0	k-ft
Axial, Pu	95.0	k
Shear, Vu	5.0	k
Analysis Type	Plastic	
Neutral Axis	225	°

Report Capacities		
Component	Capacity	Result
Base Plate	6%	Pass
Stiffeners	-	-
Anchor Rods	21%	Pass
Dwyidag	-	-

Base Plate		
Shape	Square	-
Width	44	in
Thickness	2 1/2	in
Grade	A633 Gr. E	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	80	ksi
Clip	0	in
Orientation Offset	0	°
Anchor Rod Detail	c	$\eta=0.55$
Clear Distance	N/A	in
Applied Moment, Mu	133.0	k
Bending Stress, ϕMn	2080.5	k



Original Anchor Rods		
Arrangement	Cluster	-
Quantity	8	-
Diameter, ϕ	2 1/4	in
Bolt Circle	44	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	6.0	in
Orientation Offset	0	°
Applied Force, Pu	47.9	k
Anchor Rods, ϕPn	243.6	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	5.0	188.0	1.00
Anchor Rod Forces	5.0	188.0	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	43.0992	3.5916	0.1692		7379.37
Bolt	3.9761	3.2477	0.8393	4.5	5566.40
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	Square	-
Width, W	44	in
Thickness, t	2.5	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	80	ksi
Base Plate Chord	23.211	in
Detail Type	c	-
Detail Factor	0.55	-
Clear Distance	N/A	-

Anchor Rods		
Anchor Rod Quantity, N	8	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	44	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	47.9	k
Applied Shear, Vu	1.1	k
Compressive Capacity, ϕP_n	243.6	k
Axial Result	19.7%	OK
Interaction Result	20.5%	OK

External Base Plate		
Chord Length AA	24.658	in
Additional AA	0.000	in
Section Modulus, Z	38.528	in ³
Applied Moment, Mu	133.0	k-in
Bending Capacity, ϕM_n	2080.5	k-in
Capacity, Mu/ ϕM_n	6.4%	OK
Chord Length AB	23.333	in
Additional AB	0.000	in
Section Modulus, Z	36.457	in ³
Applied Moment, Mu	81.5	k-in
Bending Capacity, ϕM_n	1968.7	k-in
Capacity, Mu/ ϕM_n	4.1%	OK
Bend Line Length	0.000	in
Additional Bend Line	0.000	in
Section Modulus, Z	0.000	in ³
Applied Moment, Mu	0.0	k-in
Bending Capacity, ϕM_n	0.0	k-in
Capacity, Mu/ ϕM_n		

Flange Plate & Bolt Analysis at 110'

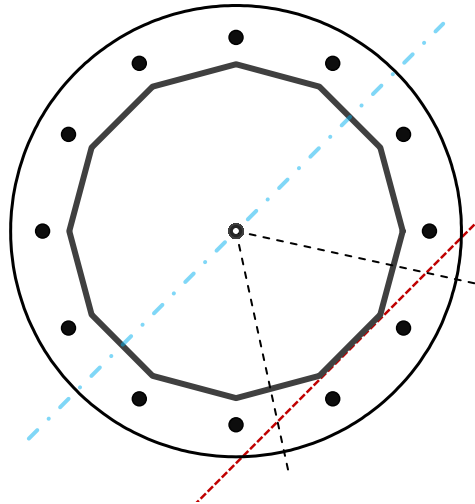
Pole Dimensions		
Number of Sides	12	-
Diameter	21.25	in
Thickness	3/16	in
Base Weld Size	3/16	in
Orientation Offset	0	°

Applied Reactions		
Moment, Mu	240.4	k-ft
Axial, Pu	53.9	k
Shear, Vu	3.4	k
Analysis Type	Plastic	
Neutral Axis	225	°

Report Capacities		
Component	Capacity	Result
Flange Plate	69%	Pass
Stiffeners	-	-
Bolts	72%	Pass
Dwyidag	-	-

Flange Plate		
Shape	Round	-
Diameter, ϕ	30	in
Thickness	1	in
Grade	A36	
Yield Strength, Fy	36	ksi
Tensile Strength, Fu	58	ksi
Clip	N/A	in
Orientation Offset	0	°
Applied Moment, Mu	94.4	k
Bending Stress, ϕMn	137.2	k

Original Bolts		
Arrangement	Radial	-
Quantity	12	-
Diameter, ϕ	1	in
Bolt Circle	25.75	in
Grade	A325	
Yield Strength, Fy	92	ksi
Tensile Strength, Fu	120	ksi
Spacing	6.7	in
Orientation Offset	0	°
Applied Force, Pu	39.5	k
Anchor Rods, ϕPn	54.5	k



Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	3.4	240.4	1.00
Anchor Rod Forces	3.4	240.4	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

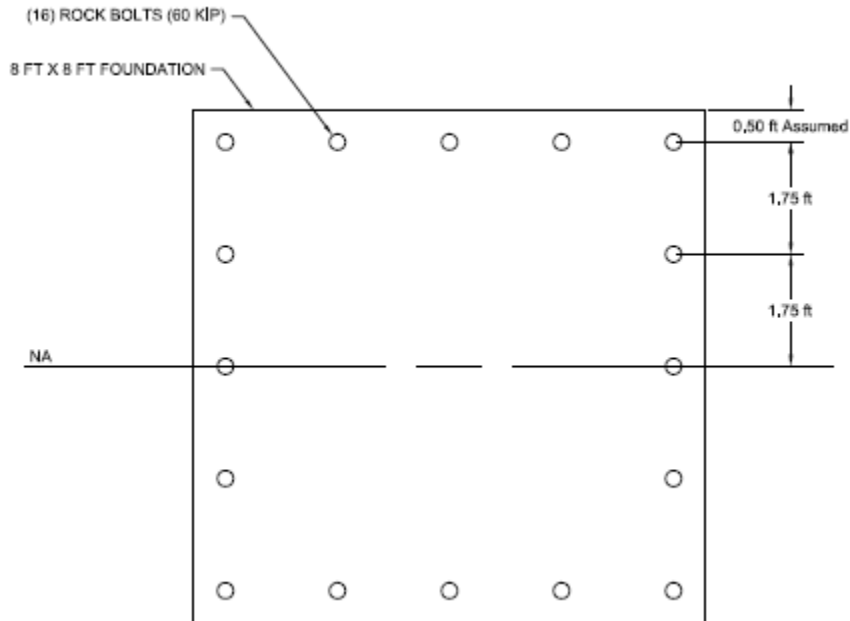
Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	12.2656	1.0221	0.0120		680.32
Bolt	0.7854	0.6057	0.0292	8	545.75
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	Round	-
Diameter, D	30	in
Thickness, t	1	in
Yield Strength, Fy	36	ksi
Tensile Strength, Fu	58	ksi
Base Plate Chord	21.176	in
Detail Type	0.000	-
Detail Factor	#N/A	-
Clear Distance	N/A	-

Anchor Rods		
Anchor Rod Quantity, N	12	-
Rod Diameter, d	1	in
Bolt Circle, BC	25.75	in
Yield Strength, Fy	92	ksi
Tensile Strength, Fu	120	ksi
Applied Axial, Pu	39.5	k
Applied Shear, Vu	0.4	k
Compressive Capacity, ϕP_n	54.5	k
Axial Result	72.4%	OK
Interaction Result	72.4%	OK

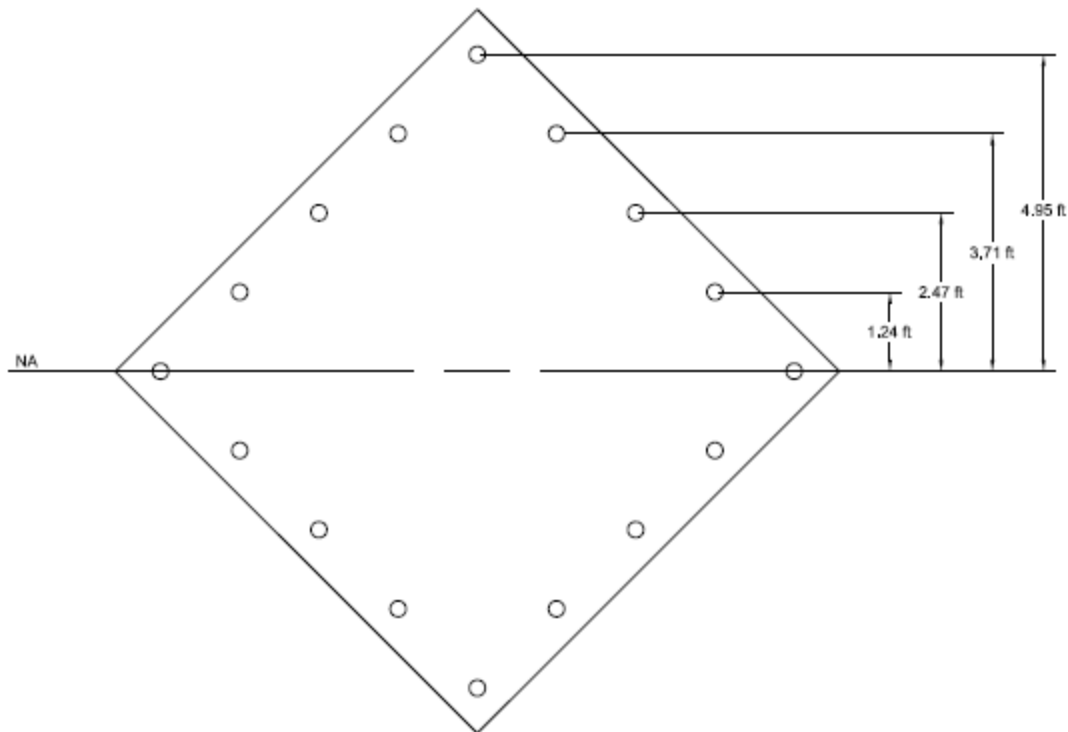
External Base Plate		
Chord Length AA	16.944	in
Additional AA	0.000	in
Section Modulus, Z	4.236	in ³
Applied Moment, Mu	94.4	k-in
Bending Capacity, ϕM_n	137.2	k-in
Capacity, Mu/ ϕM_n	68.8%	OK
Chord Length AB	15.940	in
Additional AB	0.000	in
Section Modulus, Z	3.985	in ³
Applied Moment, Mu	62.3	k-in
Bending Capacity, ϕM_n	129.1	k-in
Capacity, Mu/ ϕM_n	48.3%	OK
Bend Line Length	21.108	in
Additional Bend Line	0.000	in
Section Modulus, Z	5.277	in ³
Applied Moment, Mu	97.7	k-in
Bending Capacity, ϕM_n	171.0	k-in
Capacity, Mu/ ϕM_n	57.2%	OK



REF TIA-H 4.9.6.4

$$I_0 = \sum d^2$$

$$I_0 = 4 * 1.75^2 + 10 * 3.5^2 = \mathbf{134.8}$$



$$I_0 = \sum d^2$$

$$I_0 = 4 * 1.24^2 + 4 * 2.47^2 + 4 * 3.71^2 + 2 * 4.95^2 = \mathbf{134.6}$$



Tower Number 302476
Eng. Number OAA792393_C3_01
September 10, 2024

CONTROLLING USAGE

$$M_{Overturning} = M + V * D = 188 + 5.0 * 6 = 218k - ft$$

$$T_{U-Rock-Bolt} = \frac{M_{Overturning} * L_{Max}}{I_0} - \frac{P}{\#Rock Bolts}$$

$$T_{U-Rock-Bolt} = \frac{218 * 4.95}{134.6} - \frac{95.0}{16} = 2.08 k$$

$$\frac{T_{ub}}{\phi R_{nt}} = \frac{2.08 k}{0.75(60k)} = 0.05 OK$$

GUY ANCHOR ROD CHECK

$$\left. \begin{array}{l} \text{Uplift} = 23.0k \\ \text{Shear} = 22.0k \end{array} \right\} \text{Guy Anchor Reactions}$$

$$T_{ub} = T_{applied} = \sqrt{(23.0)^2 + (22.0k)^2} = 31.8k$$

1.5" Diameter Anchor Rod
A36 Grade Assumed

$$A_g = 1.77 in^2$$

$$\frac{T_{ub}}{\phi R_{nt}} = \frac{31.8k}{0.8(36ksi * 1.77in^2)} = 0.62 OK$$



Colliers Engineering & Design
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10228111
Colliers Engineering & Design Project #: 24777036

July 3, 2024

Site Information

Site ID: 5000120998-VZW / WATERBURY CT
Site Name: WATERBURY CT
Carrier Name: Verizon Wireless
Address: 1 Farmdale Drive
Waterbury, Connecticut 06704
New Haven County
Latitude: 41.570375°
Longitude: -73.017884°

Structure Information

Tower Type: 150-Ft Monopole
Mount Type: 13.33-Ft Integrated Sector Frame

FUZE ID # 17289002

Analysis Results

Integrated Sector Frame: 85.0% **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: Nathan LaPorte



Digitally signed by Dejian Xu
Date: 2024.07.05 09:46:33-04'00'

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 325069, dated June 25, 2024
Mount Mapping Report	C and J Services Site ID: 302476, dated July 31, 2021

Analysis Criteria:

Codes and Standards: ANSI/TIA-222-H
2022 Connecticut State Building Code (CSBC), Effective October 1, 2019

Wind Parameters: Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph
Ice Wind Speed (3-sec. Gust): 50 mph
Design Ice Thickness: 1.00 in
Risk Category: II
Exposure Category: B
Topographic Category: 1
Topographic Feature Considered: N/A
Topographic Method: N/A
Ground Elevation Factor, K_e : 0.971

Seismic Parameters: S_s : 0.193 g
 S_1 : 0.054 g

Maintenance Parameters: Wind Speed (3-sec. Gust): 30 mph
Maintenance Load, L_v : 250 lbs.
Maintenance Load, L_m : 500 lbs.

Analysis Software: RISA-3D (V21)

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
125.00	131.00	4	CBNG	CBNG Integrated Unit	Added
	127.90	3	Samsung	MT6413-77A	
		3	Samsung	RF4461d-13A	
		6	KAelus	KA-6030	
		1	Raycap	RxxDC-6627-PF-48	
		3	Samsung	B2/B66A RRH-BR049	Retained
		6	Commscope	JAHH-65C-R3B-V2	
		3	JMA Wireless	DX10FRO260-00	
		3	Samsung	CBRS RRH - RT4401-48A	
		3	Commscope	CBC78T-DS-43-2X	
		1	Raycap	RCMDC-6627-PF-48*	

* Equipment to be flush mounted directly to the Monopole. They are not mounted on the integrated sector frame and are not included in this mount analysis.

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Mount Pipe	29.7%	Pass
Mast Pipe	20.2%	Pass
Face Bracing	7.2%	Pass
Standoff Bracing	23.9%	Pass
Middle Standoff Horizontal	50.9%	Pass
Corner Plate	27.1%	Pass
Standoff Horizontal	45.8%	Pass
Face Horizontal	49.4%	Pass
Mount Connection	85.0%	Pass

Structure Rating – (Controlling Utilization of all Components)	85.0%*
---	---------------

* 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 A Top Standoff	128.8	N89	376	926	0.000	0.000	691	833	0.000	0.000
Sector A Top Standoff	128.8	N90	302	778	0.000	0.000	578	665	0.000	0.000
Sector C Top Standoff	128.8	N91	429	1050	0.000	0.000	840	961	0.000	0.000
Sector C Top Standoff	128.8	N92	291	691	0.000	0.000	545	606	0.000	0.000
Sector B Top Standoff	128.8	N93	375	1089	0.000	0.000	717	861	0.000	0.000
Sector B Top Standoff	128.8	N94	346	654	0.000	0.000	631	657	0.000	0.000
Sector A Bottom Standoff	125.0	N95	256	578	0.000	0.000	522	725	0.000	0.000
Sector A Bottom Standoff	125.0	N96	210	606	0.000	0.000	510	603	0.000	0.000
Sector C Bottom Standoff	125.0	N97	198	641	0.000	0.000	550	847	0.000	0.000
Sector C Bottom Standoff	125.0	N98	290	536	0.000	0.000	495	548	0.000	0.000
Sector B Bottom Standoff	125.0	N99	300	663	0.000	0.000	450	737	0.000	0.000
Sector B Bottom Standoff	125.0	N100	285	529	0.000	0.000	475	606	0.000	0.000

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	83.0	82.9	102.4	102.3
0.5	106.7	106.5	134.3	133.9
1	129.5	129.2	165.3	164.8

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 new 96" long PIPE 2 SCH40 mount pipe connected to existing position 1 pipe on all sectors using new pipe to pipe clamp sets (Site Pro 1 Part #: DCP18K). Top of pipe shall be 40" above top of existing mount pipe. Install the first set of clamps 15" from top of existing pipe. Install the 2nd set of clamps 30" from the 1st set.

Contractor shall install new 96" long PIPE 2 SCH40 mount pipe connected to existing corner post between Alpha and Beta sector using new pipe to pipe clamp sets (Site Pro 1 Part #: DCP18K). Top of pipe shall be 40" above top of existing mount pipe. Install the first set of clamps 12" from top of existing pipe. Install the 2nd set of clamps 30" from the 1st set.

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

MDG #: 5000120998

SMART Project #: 10228111

Fuze Project ID: 17289002

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 new 96" long PIPE 2 SCH40 mount pipe connected to existing position 1 pipe on all sectors using new pipe to pipe clamp sets (Site Pro 1 Part #: DCP18K). Top of pipe shall be 40" above top of existing mount pipe. Install the first set of clamps 15" from top of existing pipe. Install the 2nd set of clamps 30" from the 1st set.

Contractor shall install new 96" long PIPE 2 SCH40 mount pipe connected to existing corner post between Alpha and Beta sector using new pipe to pipe clamp sets (Site Pro 1 Part #: DCP18K). Top of pipe shall be 40" above top of existing mount pipe. Install the first set of clamps 12" from top of existing pipe. Install the 2nd set of clamps 30" from the 1st set.

Response:

Special Instruction Confirmation:

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

OR

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

Comments:

--

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

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

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

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

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

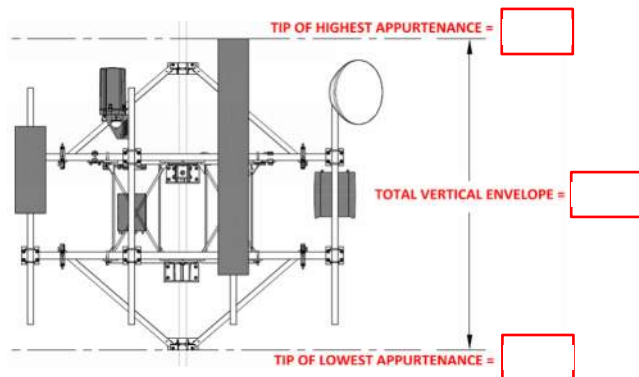


Illustration #1

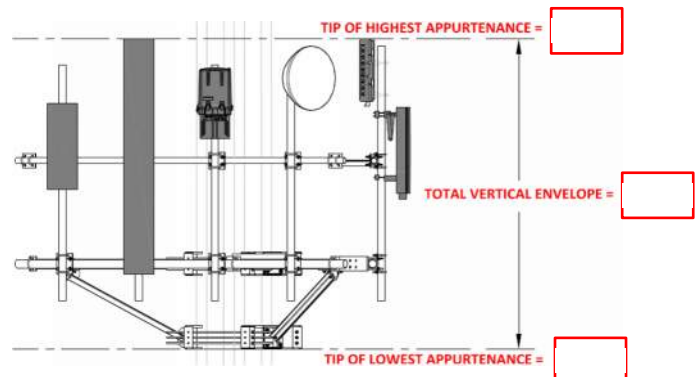


Illustration #2

Certifying Individual:

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

Sector: A

7/3/2024

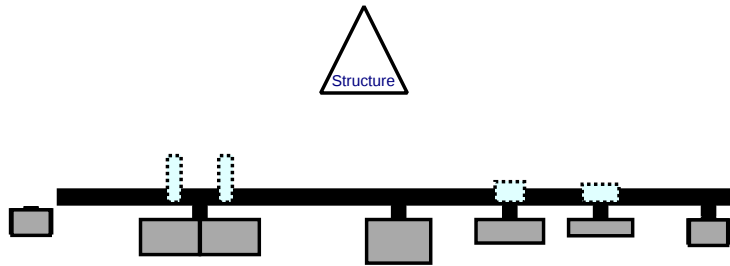
Structure Type: Monopole

10228111

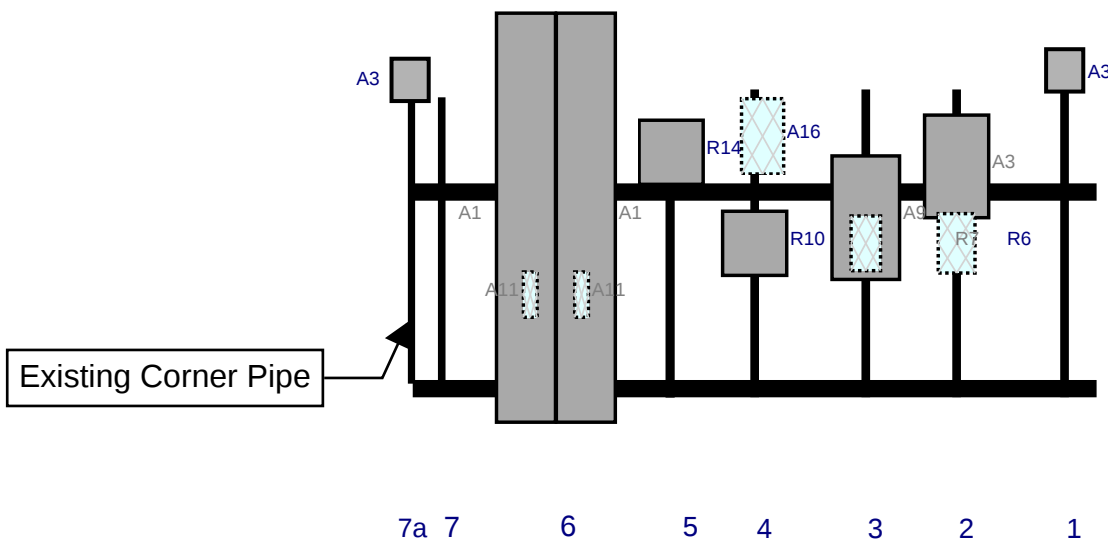
Mount Elev: 125.00

Page: 1

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	CBNG Integrated Unit	17.9	16.1	152.5	1	a	Front	19.2	0	Added	
R14	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	152.5	5	a	Front	6	0	Retained	07/31/2021
A3	DX10FRO260-00	24	15	127.25	2	a	Front	18	0	Retained	07/31/2021
R6	CBRS RRH - RT4401-48A	13.9	8.6	127.25	2	a	Behind	36	0	Retained	07/31/2021
A9	MT6413-77A	28.9	15.8	106	3	a	Front	30	0	Added	
R7	CBC78T-DS-43-2X	12.8	6.9	106	3	a	Behind	36	0	Retained	07/31/2021
R10	RF4461d-13A	15	15	80	4	a	Front	36	0	Added	
A1	JAHH-65C-R3B-V2	95.7	13.8	33.5	5	a	Front	30	-7	Retained	07/31/2021
A1	JAHH-65C-R3B-V2	95.7	13.8	33.5	5	b	Front	30	7	Retained	07/31/2021
A11	KA-6030	10.6	3.2	33.5	5	a	Behind	48	-6	Added	
A11	KA-6030	10.6	3.2	33.5	5	b	Behind	48	6	Added	
A3	CBNG Integrated Unit	17.9	16.1	152.5	7a	a	Front	19.2	0	Added	
A16	RxxDC-6627-PF-48	29.5	16.5	80	4	a	Behind	6	0	Added	

Sector: **B**

7/3/2024

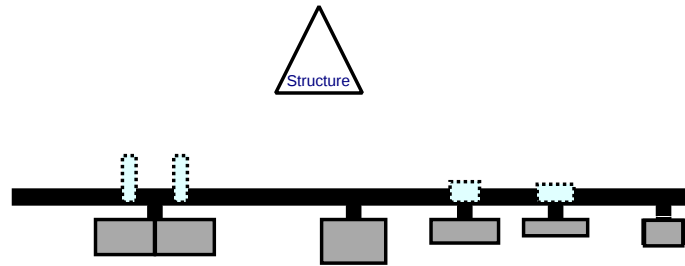
Structure Type: Monopole

10228111

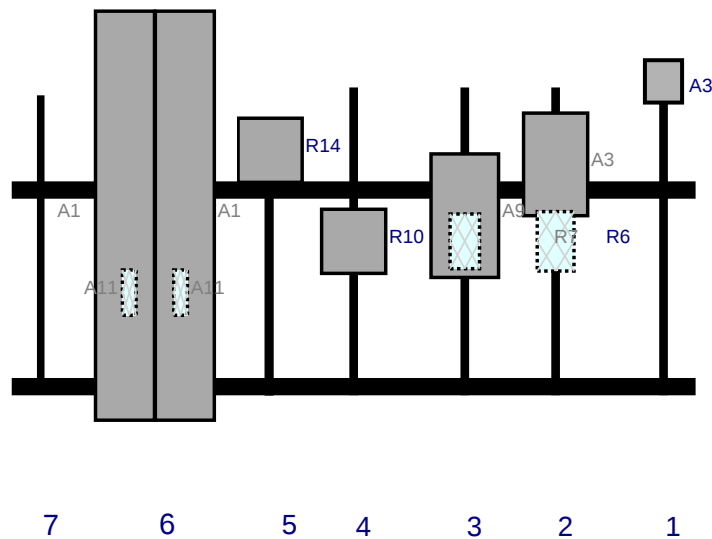
Mount Elev: 125.00

Page: 1

Plan View

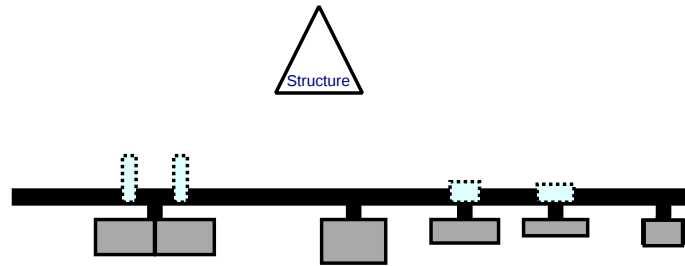


Front View - Looking at Structure

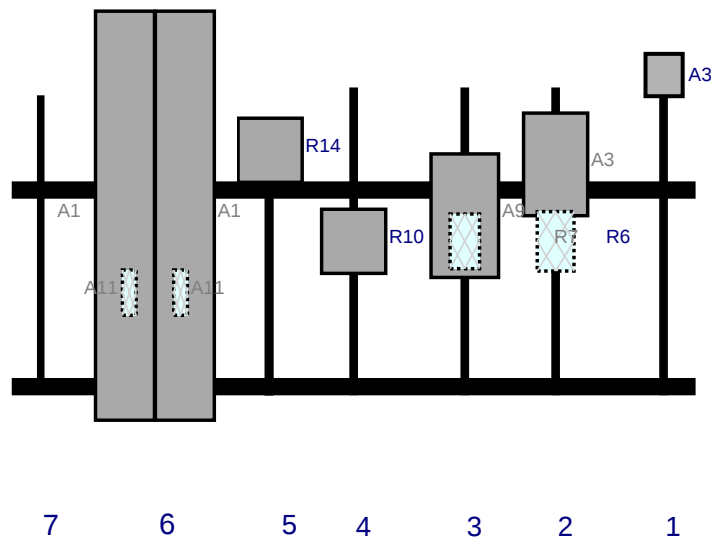


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	CBNG Integrated Unit	17.9	16.1	152.5	1	a	Front	19.2	0	Added	
R14	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	152.5	5	a	Front	6	0	Retained	07/31/2021
A3	DX10FRO260-00	24	15	127.25	2	a	Front	18	0	Retained	07/31/2021
R6	CBRS RRH - RT4401-48A	13.9	8.6	127.25	2	a	Behind	36	0	Retained	07/31/2021
A9	MT6413-77A	28.9	15.8	106	3	a	Front	30	0	Added	
R7	CBC78T-DS-43-2X	12.8	6.9	106	3	a	Behind	36	0	Retained	07/31/2021
R10	RF4461d-13A	15	15	80	4	a	Front	36	0	Added	
A1	JAHH-65C-R3B-V2	95.7	13.8	33.5	5	a	Front	30	-7	Retained	07/31/2021
A1	JAHH-65C-R3B-V2	95.7	13.8	33.5	5	b	Front	30	7	Retained	07/31/2021
A11	KA-6030	10.6	3.2	33.5	5	a	Behind	48	-6	Added	
A11	KA-6030	10.6	3.2	33.5	5	b	Behind	48	6	Added	

Plan View



Front View - Looking at Structure

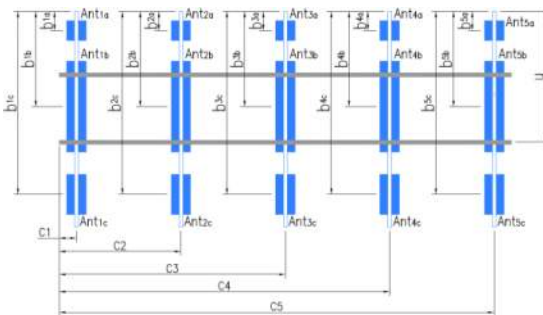
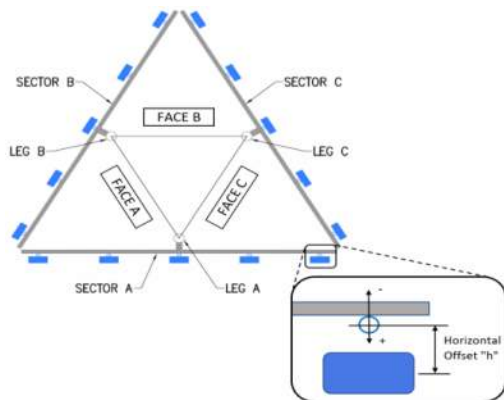


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
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R14	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	152.5	5	a	Front	6	0	Retained	07/31/2021
A3	DX10FRO260-00	24	15	127.25	2	a	Front	18	0	Retained	07/31/2021
R6	CBRS RRH - RT4401-48A	13.9	8.6	127.25	2	a	Behind	36	0	Retained	07/31/2021
A9	MT6413-77A	28.9	15.8	106	3	a	Front	30	0	Added	
R7	CBC78T-DS-43-2X	12.8	6.9	106	3	a	Behind	36	0	Retained	07/31/2021
R10	RF4461d-13A	15	15	80	4	a	Front	36	0	Added	
A1	JAHH-65C-R3B-V2	95.7	13.8	33.5	5	a	Front	30	-7	Retained	07/31/2021
A1	JAHH-65C-R3B-V2	95.7	13.8	33.5	5	b	Front	30	7	Retained	07/31/2021
A11	KA-6030	10.6	3.2	33.5	5	a	Behind	48	-6	Added	
A11	KA-6030	10.6	3.2	33.5	5	b	Behind	48	6	Added	



N/A

Mapping Date:	7/31
Tower Type:	Monop
Tower Height (Ft.):	
Mount Elevation (Ft.):	129

[illegible]

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 3/8 & 60	54.00	7.50	C1	2 3/8 & 60	54.00	7.50
A2	2 3/8 & 72	72.25	33.50	C2	2 3/8 & 72	72.25	33.50
A3	2 3/8 & 60	54.00	56.00	C3	2 3/8 & 60	54.00	56.00
A4	2 3/8 & 72	72.25	80.00	C4	2 3/8 & 72	72.25	80.00
A5	2 3/8 & 60	54.00	106.00	C5	2 3/8 & 60	54.00	105.00
A6	2 3/8 & 72	72.25	127.25	C6	2 3/8 & 72	72.25	127.25
B1	2 3/8 & 60	54.00	7.50	D1			
B2	2 3/8 & 72	72.25	33.50	D2			
B3	2 3/8 & 60	54.00	56.00	D3			
B4	2 3/8 & 72	72.25	80.00	D4			
B5	2 3/8 & 60	54.00	105.00	D5			
B6	2 3/8 & 72	72.25	127.25	D6			

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.			0.25

[illegible]

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.



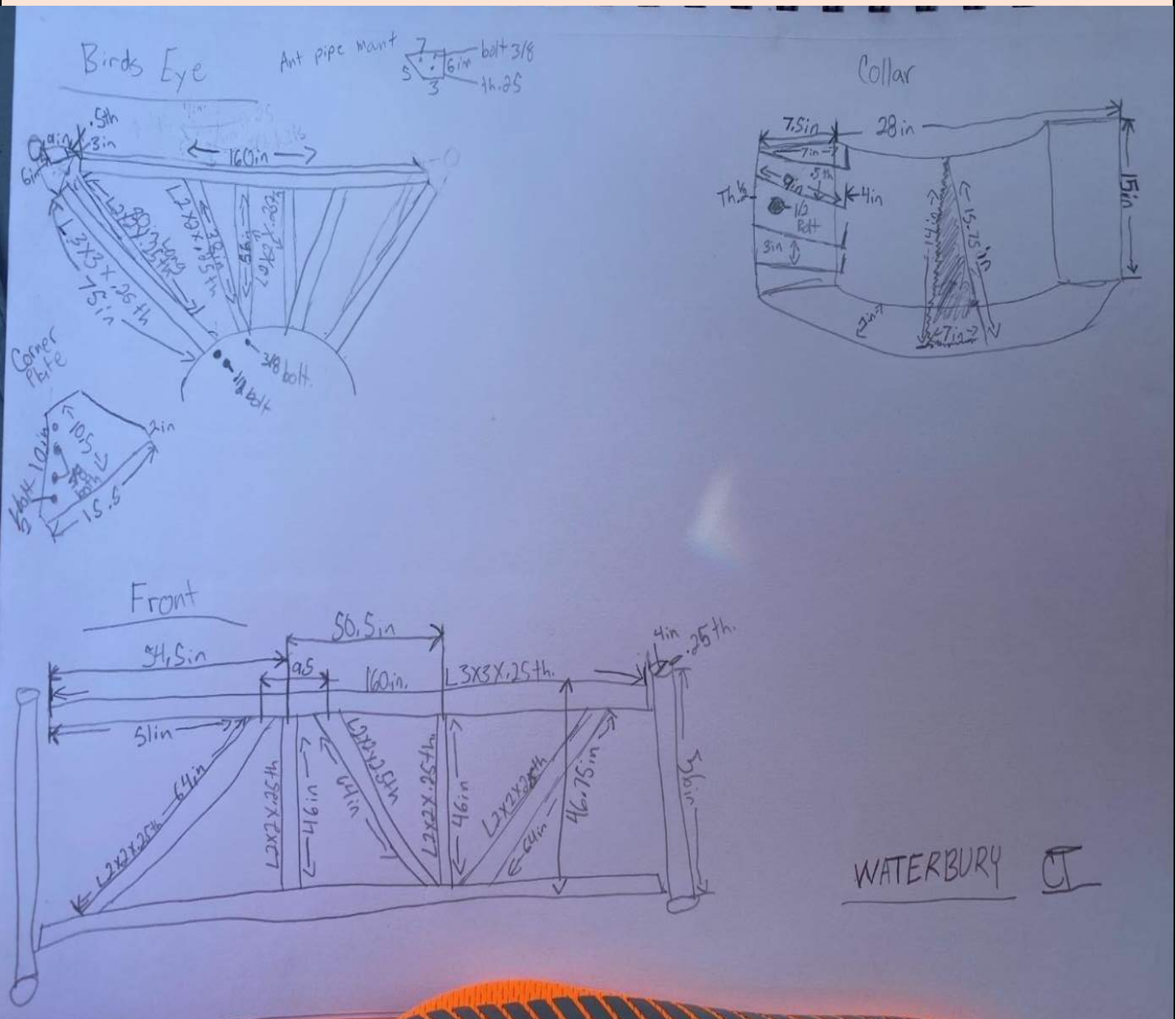
Antenna Mount Mapping Form (PATENT PENDING)

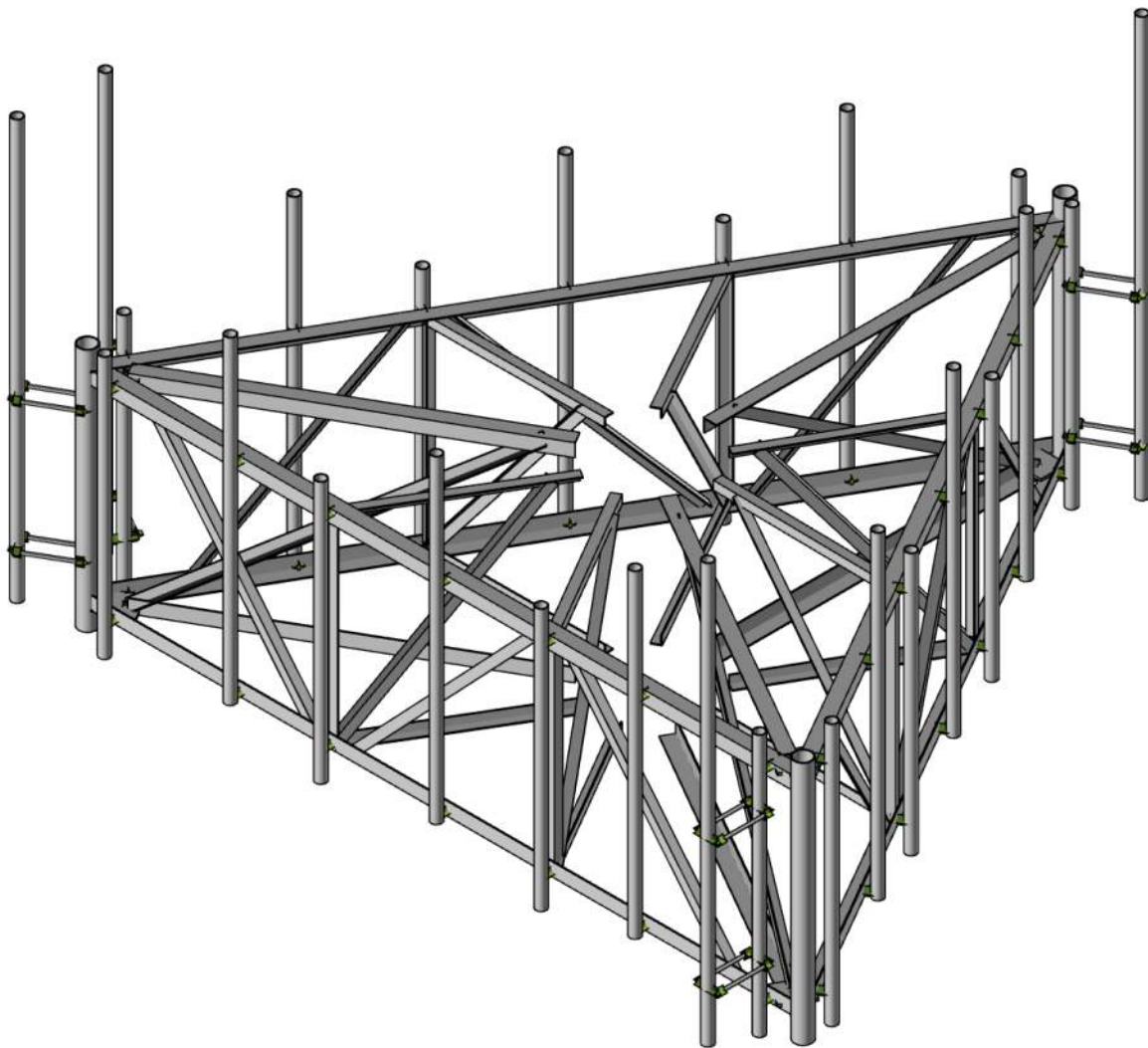
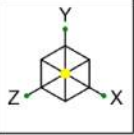
N/A

Tower Owner:	American Tower	Mapping Date:	7/31/
Site Name:	WTRB-Waterbury	Tower Type:	Monopole
Site Number or ID:	302476	Tower Height (Ft.):	
Mapping Contractor:	C and J Services	Mount Elevation (Ft.):	129

This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

Please Insert Sketches of the Antenna Mount





Envelope Only Solution



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Mount ReAnalysis

SK-1

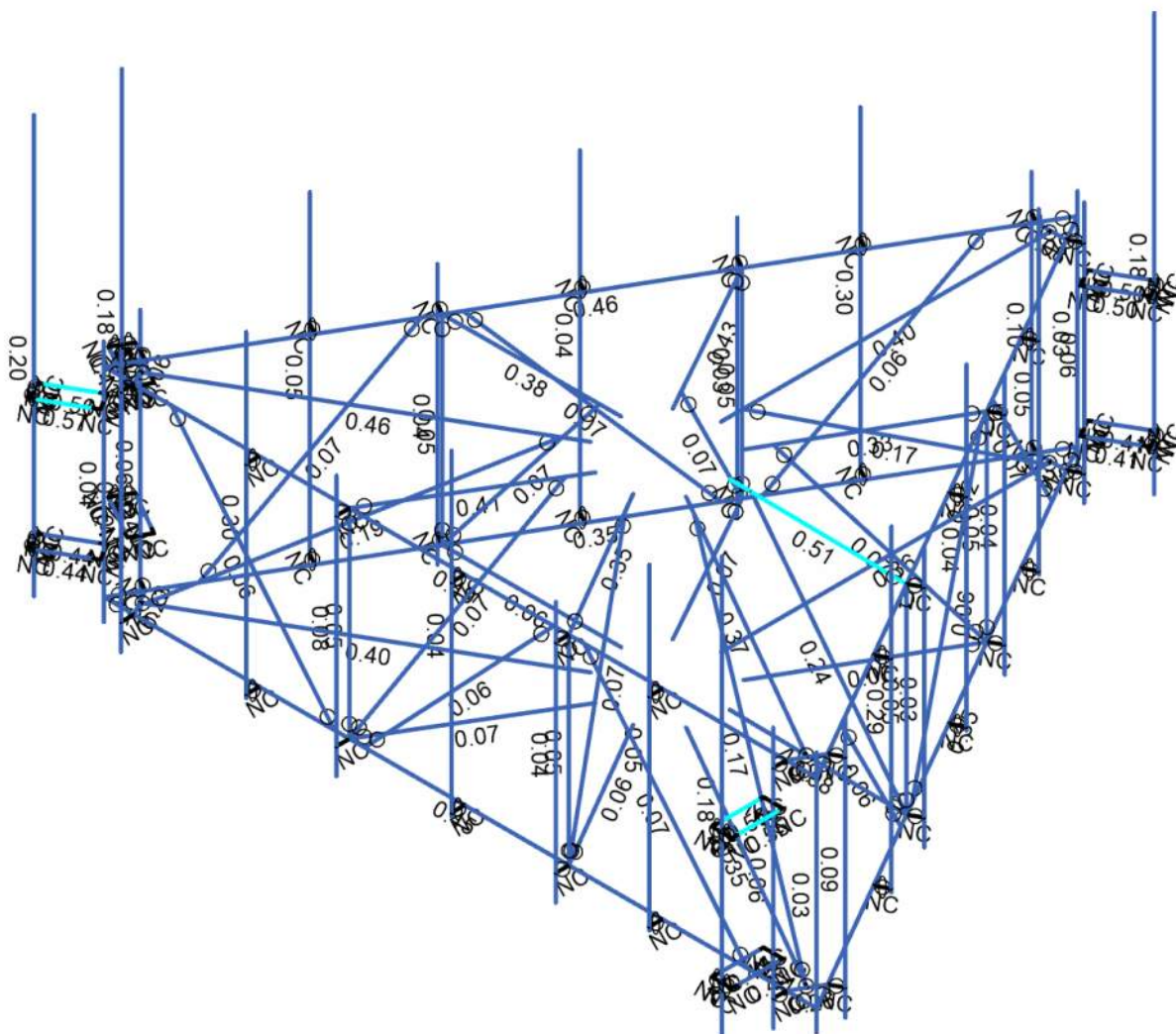
Jul 03, 2024 at 09:39 AM

5000120998-VZW_MT_LO_...



Code Check
(Env)

No Calc
> 1.0
.90-1.0
.75-.90
.50-.75
0.-.50



Member Code Checks Displayed (Enveloped)
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Mount ReAnalysis

SK-2

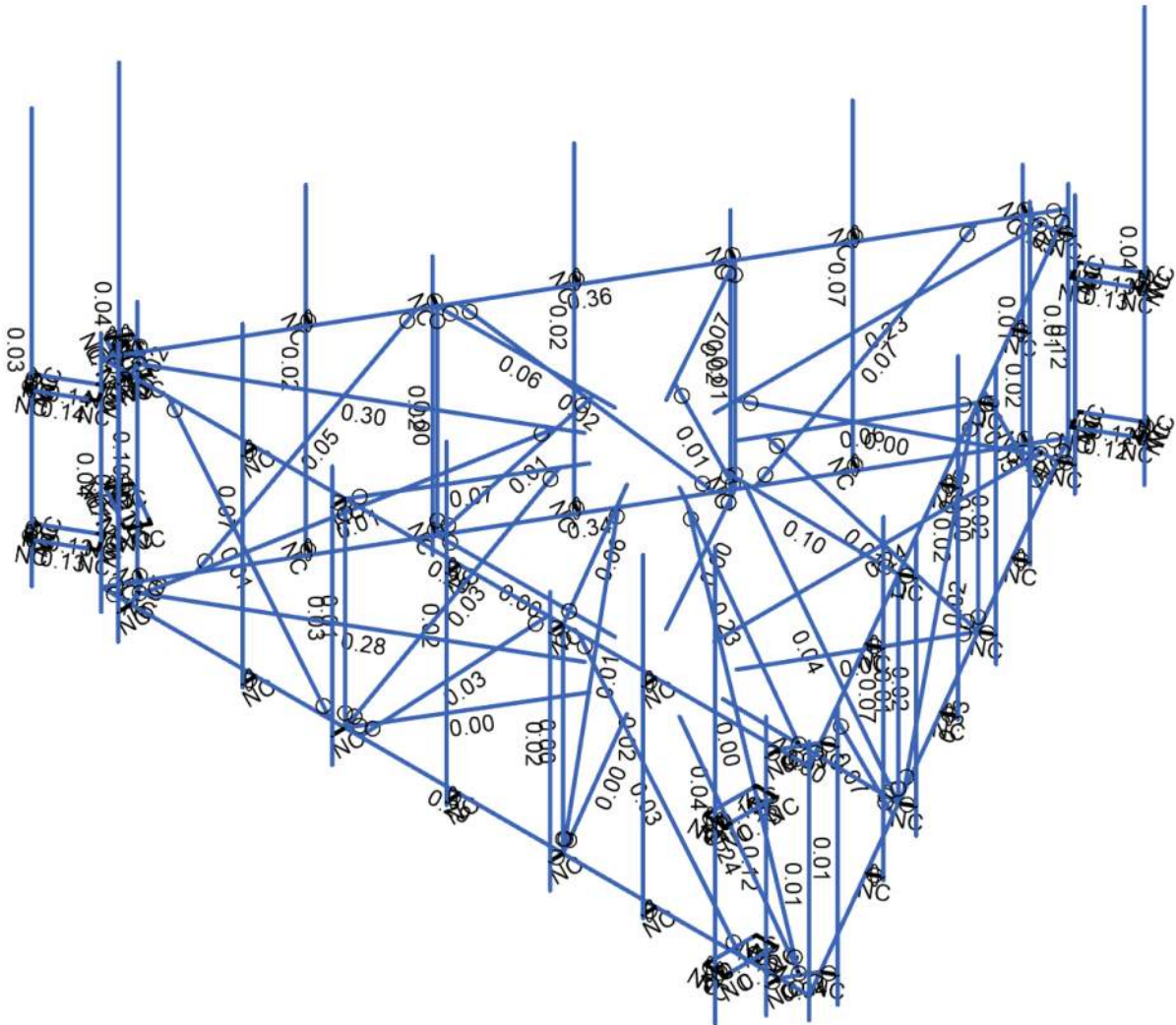
Jul 03, 2024 at 09:40 AM

5000120998-VZW_MT_LO_...



Shear Check
(Env)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0-.50



Member Shear Checks Displayed (Enveloped)
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Mount ReAnalysis

SK-3

Jul 03, 2024 at 09:40 AM

5000120998-VZW_MT_LO_...

Basic Load Cases

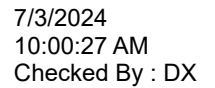
	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
1	Antenna D	None				129		
2	Antenna Di	None				129		
3	Antenna Wo (0 Deg)	None				129		
4	Antenna Wo (30 Deg)	None				129		
5	Antenna Wo (60 Deg)	None				129		
6	Antenna Wo (90 Deg)	None				129		
7	Antenna Wo (120 Deg)	None				129		
8	Antenna Wo (150 Deg)	None				129		
9	Antenna Wo (180 Deg)	None				129		
10	Antenna Wo (210 Deg)	None				129		
11	Antenna Wo (240 Deg)	None				129		
12	Antenna Wo (270 Deg)	None				129		
13	Antenna Wo (300 Deg)	None				129		
14	Antenna Wo (330 Deg)	None				129		
15	Antenna Wi (0 Deg)	None				129		
16	Antenna Wi (30 Deg)	None				129		
17	Antenna Wi (60 Deg)	None				129		
18	Antenna Wi (90 Deg)	None				129		
19	Antenna Wi (120 Deg)	None				129		
20	Antenna Wi (150 Deg)	None				129		
21	Antenna Wi (180 Deg)	None				129		
22	Antenna Wi (210 Deg)	None				129		
23	Antenna Wi (240 Deg)	None				129		
24	Antenna Wi (270 Deg)	None				129		
25	Antenna Wi (300 Deg)	None				129		
26	Antenna Wi (330 Deg)	None				129		
27	Antenna Wm (0 Deg)	None				129		
28	Antenna Wm (30 Deg)	None				129		
29	Antenna Wm (60 Deg)	None				129		
30	Antenna Wm (90 Deg)	None				129		
31	Antenna Wm (120 Deg)	None				129		
32	Antenna Wm (150 Deg)	None				129		
33	Antenna Wm (180 Deg)	None				129		
34	Antenna Wm (210 Deg)	None				129		
35	Antenna Wm (240 Deg)	None				129		
36	Antenna Wm (270 Deg)	None				129		
37	Antenna Wm (300 Deg)	None				129		
38	Antenna Wm (330 Deg)	None				129		
39	Structure D	None		-1				3
40	Structure Di	None					98	3
41	Structure Wo (0 Deg)	None					196	
42	Structure Wo (30 Deg)	None					196	
43	Structure Wo (60 Deg)	None					196	
44	Structure Wo (90 Deg)	None					196	
45	Structure Wo (120 Deg)	None					196	
46	Structure Wo (150 Deg)	None					196	
47	Structure Wo (180 Deg)	None					196	
48	Structure Wo (210 Deg)	None					196	
49	Structure Wo (240 Deg)	None					196	
50	Structure Wo (270 Deg)	None					196	
51	Structure Wo (300 Deg)	None					196	
52	Structure Wo (330 Deg)	None					196	
53	Structure Wi (0 Deg)	None					196	
54	Structure Wi (30 Deg)	None					196	
55	Structure Wi (60 Deg)	None					196	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
56	Structure Wi (90 Deg)	None					196	
57	Structure Wi (120 Deg)	None					196	
58	Structure Wi (150 Deg)	None					196	
59	Structure Wi (180 Deg)	None					196	
60	Structure Wi (210 Deg)	None					196	
61	Structure Wi (240 Deg)	None					196	
62	Structure Wi (270 Deg)	None					196	
63	Structure Wi (300 Deg)	None					196	
64	Structure Wi (330 Deg)	None					196	
65	Structure Wm (0 Deg)	None					196	
66	Structure Wm (30 Deg)	None					196	
67	Structure Wm (60 Deg)	None					196	
68	Structure Wm (90 Deg)	None					196	
69	Structure Wm (120 Deg)	None					196	
70	Structure Wm (150 Deg)	None					196	
71	Structure Wm (180 Deg)	None					196	
72	Structure Wm (210 Deg)	None					196	
73	Structure Wm (240 Deg)	None					196	
74	Structure Wm (270 Deg)	None					196	
75	Structure Wm (300 Deg)	None					196	
76	Structure Wm (330 Deg)	None					196	
77	Lm1	None				1		
78	Lm2	None				1		
79	Lv1	None				1		
80	Lv2	None				1		
81	Antenna Ev	None				129		
82	Antenna Eh (0 Deg)	None				86		
83	Antenna Eh (90 Deg)	None				86		
84	Structure Ev	ELY		-0.041				3
85	Structure Eh (0 Deg)	ELZ			-0.103			3
86	Structure Eh (90 Deg)	ELX	0.103					3
87	BLC 39 Transient Area Loads	None					66	
88	BLC 40 Transient Area Loads	None					66	
89	BLC 84 Transient Area Loads	None					66	
90	BLC 85 Transient Area Loads	None					66	
91	BLC 86 Transient Area Loads	None					66	

Load Combinations

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

Page 4

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
24	M28	N44	N45	90	Corner Plate	Beam	Single Angle	A36 Gr.36	Typical
25	M29	N46	N47	90	Corner Plate	Beam	Single Angle	A36 Gr.36	Typical
26	M26A	N26	N46A		RIGID	None	None	RIGID	Typical
27	M27A	N27	N47A		RIGID	None	None	RIGID	Typical
28	M28A	N32	N50		RIGID	None	None	RIGID	Typical
29	M29A	N33	N51		RIGID	None	None	RIGID	Typical
30	M30	N48	N21	270	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
31	M31	N50A	N27	270	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
32	M32	N52	N33	270	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
33	M33	N41	N73		RIGID	None	None	RIGID	Typical
34	M34	N43	N74		RIGID	None	None	RIGID	Typical
35	M35	N59	N71		RIGID	None	None	RIGID	Typical
36	LIVE1	N60	N72		RIGID	None	None	RIGID	Typical
37	M37	N5	N61		RIGID	None	None	RIGID	Typical
38	M38	N6	N62		RIGID	None	None	RIGID	Typical
39	M39	N55	N69		RIGID	None	None	RIGID	Typical
40	M40	N56	N70		RIGID	None	None	RIGID	Typical
41	M41	N7	N63		RIGID	None	None	RIGID	Typical
42	LIVE2	N8	N64		RIGID	None	None	RIGID	Typical
43	M43	N53	N67		RIGID	None	None	RIGID	Typical
44	M44	N54	N68		RIGID	None	None	RIGID	Typical
45	M45	N44	N65		RIGID	None	None	RIGID	Typical
46	M46	N46	N66		RIGID	None	None	RIGID	Typical
47	EMPTYA	N78	N82		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
48	RADIOA	N75	N79		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
49	MP3A	N76	N80		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
50	1A	N77	N81		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
51	MP5A	N85	N88		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
52	MP4A	N84	N87		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
53	MP2A	N83	N86		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
54	M54	N89	N5	180	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
55	M55	N95	N6	270	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
56	M56	N96	N8		Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
57	M57	N90	N7	90	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
58	M58	N101	N6	90	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
59	M59	N102	N8	180	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
60	M60	N91	N103	180	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
61	M61	N97	N104	270	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
62	M62	N98	N106		Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
63	M63	N92	N105	90	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
64	M64	N111	N104	90	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
65	M65	N112	N106	180	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
66	M66	N93	N113	180	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
67	M67	N99	N114	270	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
68	M68	N100	N116		Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
69	M69	N94	N115	90	Middle Standoff Horizontal	Beam	Single Angle	A36 Gr.36	Typical
70	M70	N121	N114	90	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
71	M71	N122	N116	180	Standoff Bracing	Beam	Single Angle	A36 Gr.36	Typical
72	M72	N115A	N116A		Mast Pipe	Beam	Pipe	A53 Gr. B	Typical
73	M73	N118	N119		Mast Pipe	Beam	Pipe	A53 Gr. B	Typical
74	M74	N121A	N122A		Mast Pipe	Beam	Pipe	A53 Gr. B	Typical
75	M75	N125	N131		RIGID	None	None	RIGID	Typical
76	M76	N126	N132		RIGID	None	None	RIGID	Typical
77	M77	N123	N129		RIGID	None	None	RIGID	Typical
78	M78	N124	N130		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
79	M79	N121B	N127		RIGID	None	None	RIGID	Typical
80	M80	N122B	N128		RIGID	None	None	RIGID	Typical
81	MP5C	N135	N138		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
82	MP4C	N134	N137		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
83	MP2C	N133	N136		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
84	M84	N143	N149		RIGID	None	None	RIGID	Typical
85	M85	N144	N150		RIGID	None	None	RIGID	Typical
86	M86	N141	N147		RIGID	None	None	RIGID	Typical
87	M87	N142	N148		RIGID	None	None	RIGID	Typical
88	M88	N139	N145		RIGID	None	None	RIGID	Typical
89	M89	N140	N146		RIGID	None	None	RIGID	Typical
90	MP5B	N153	N156		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
91	MP4B	N152	N155		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
92	MP2B	N151	N154		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
93	M93	N103	N104	330	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
94	M94	N105	N106	240	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
95	M98	N45	N185		RIGID	None	None	RIGID	Typical
96	M99	N47	N186		RIGID	None	None	RIGID	Typical
97	M102	N103	N175		RIGID	None	None	RIGID	Typical
98	M103	N104	N176		RIGID	None	None	RIGID	Typical
99	M106	N105	N177		RIGID	None	None	RIGID	Typical
100	M107	N106	N178		RIGID	None	None	RIGID	Typical
101	EMPTYC	N189	N192	240	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
102	RADIOC	N187	N190	240	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
103	MP3C	N188	N191	240	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
104	M116	N113	N114	210	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
105	M117	N115	N116	120	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
106	M121	N39	N227		RIGID	None	None	RIGID	Typical
107	M122	N39A	N228		RIGID	None	None	RIGID	Typical
108	M125	N113	N217		RIGID	None	None	RIGID	Typical
109	M126	N114	N218		RIGID	None	None	RIGID	Typical
110	M129	N115	N219		RIGID	None	None	RIGID	Typical
111	M130	N116	N220		RIGID	None	None	RIGID	Typical
112	EMPTYB	N231	N234	120	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
113	RADIOB	N229	N232	120	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
114	MP3B	N230	N233	120	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
115	M121A	N38	N199		RIGID	None	None	RIGID	Typical
116	M122A	N38A	N200		RIGID	None	None	RIGID	Typical
117	1C	N201	N202	240	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
118	M124	N40	N205A		RIGID	None	None	RIGID	Typical
119	M125A	N42	N206A		RIGID	None	None	RIGID	Typical
120	1B	N207A	N208A	120	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
121	M121B	N218A	N165	90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
122	M122B	N220A	N219A	180	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
123	M123	N166	N221	90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
124	M124A	N224	N207	90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
125	M125B	N226	N225	180	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
126	M126A	N208	N227A	90	Face Bracing	Beam	Single Angle	A36 Gr.36	Typical
127	DONOR	N241	N242	240	Mount Pipe	Column	Pipe	A53 Gr. B	Typical
128	M128	N222	N236		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
129	M131	N223	N237		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
130	M132	N215	N222		RIGID	None	None	RIGID	Typical
131	M133	N216	N223		RIGID	None	None	RIGID	Typical
132	M134	N239	N237		RIGID	None	None	RIGID	Typical
133	M135	N238	N236		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
134	M136	N238	N240		RIGID	None	None	RIGID	Typical
135	M137	N239	N240		RIGID	None	None	RIGID	Typical
136	M138	N216	N235		RIGID	None	None	RIGID	Typical
137	M139	N215	N235		RIGID	None	None	RIGID	Typical
138	M140	N246	N248		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
139	M141	N247	N249		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
140	M142	N244	N246		RIGID	None	None	RIGID	Typical
141	M143	N245	N247		RIGID	None	None	RIGID	Typical
142	M144	N251	N249		RIGID	None	None	RIGID	Typical
143	M145	N250	N248		RIGID	None	None	RIGID	Typical
144	M146	N250	N252		RIGID	None	None	RIGID	Typical
145	M147	N251	N252		RIGID	None	None	RIGID	Typical
146	M148	N245	N243		RIGID	None	None	RIGID	Typical
147	M149	N244	N243		RIGID	None	None	RIGID	Typical
148	M150	N262	N260		RIGID	None	None	RIGID	Typical
149	M151	N262	N263		RIGID	None	None	RIGID	Typical
150	M152	N257	N259		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
151	M153	N258	N260		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
152	M154	N256	N257		RIGID	None	None	RIGID	Typical
153	M155	N254	N258		RIGID	None	None	RIGID	Typical
154	M156	N261	N259		RIGID	None	None	RIGID	Typical
155	M157	N254	N255		RIGID	None	None	RIGID	Typical
156	M158	N256	N255		RIGID	None	None	RIGID	Typical
157	M159	N261	N263		RIGID	None	None	RIGID	Typical
158	M160	N267	N269		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
159	M161	N268	N270		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
160	M162	N265	N267		RIGID	None	None	RIGID	Typical
161	M163	N266	N268		RIGID	None	None	RIGID	Typical
162	M164	N272	N270		RIGID	None	None	RIGID	Typical
163	M165	N271	N269		RIGID	None	None	RIGID	Typical
164	M166	N271	N273		RIGID	None	None	RIGID	Typical
165	M167	N272	N273		RIGID	None	None	RIGID	Typical
166	M168	N266	N264		RIGID	None	None	RIGID	Typical
167	M169	N265	N264		RIGID	None	None	RIGID	Typical
168	MP1A	N274	N275		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
169	M171	N291	N278		RIGID	None	None	RIGID	Typical
170	M172	N288	N287		RIGID	None	None	RIGID	Typical
171	M173	N293	N282		RIGID	None	None	RIGID	Typical
172	MP1C	N277	N297		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
173	M175	N285	N280		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
174	M176	N295	N276		RIGID	None	None	RIGID	Typical
175	M177	N293	N292		RIGID	None	None	RIGID	Typical
176	M178	N279	N290		RIGID	None	None	RIGID	Typical
177	M179	N279	N278		RIGID	None	None	RIGID	Typical
178	M180	N284	N289		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
179	M181	N281	N290		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
180	M182	N288	N284		RIGID	None	None	RIGID	Typical
181	M183	N286	N281		RIGID	None	None	RIGID	Typical
182	M184	N291	N289		RIGID	None	None	RIGID	Typical
183	M185	N286	N287		RIGID	None	None	RIGID	Typical
184	M186	N282	N276		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
185	M187	N283	N285		RIGID	None	None	RIGID	Typical
186	M188	N294	N280		RIGID	None	None	RIGID	Typical
187	M189	N294	N296		RIGID	None	None	RIGID	Typical
188	M190	N295	N296		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
189	M191	N283	N292		RIGID	None	None	RIGID	Typical
190	M192	N313	N300		RIGID	None	None	RIGID	Typical
191	M193	N310	N309		RIGID	None	None	RIGID	Typical
192	M194	N315	N304		RIGID	None	None	RIGID	Typical
193	MP1B	N299	N319		Mount Pipe	Column	Pipe	A53 Gr. B	Typical
194	M196	N307	N302		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
195	M197	N317	N298		RIGID	None	None	RIGID	Typical
196	M198	N315	N314		RIGID	None	None	RIGID	Typical
197	M199	N301	N312		RIGID	None	None	RIGID	Typical
198	M200	N301	N300		RIGID	None	None	RIGID	Typical
199	M201	N306	N311		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
200	M202	N303	N312		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
201	M203	N310	N306		RIGID	None	None	RIGID	Typical
202	M204	N308	N303		RIGID	None	None	RIGID	Typical
203	M205	N313	N311		RIGID	None	None	RIGID	Typical
204	M206	N308	N309		RIGID	None	None	RIGID	Typical
205	M207	N304	N298		Threaded Rod	Beam	BAR	A36 Gr.36	Typical
206	M208	N305	N307		RIGID	None	None	RIGID	Typical
207	M209	N316	N302		RIGID	None	None	RIGID	Typical
208	M210	N316	N318		RIGID	None	None	RIGID	Typical
209	M211	N317	N318		RIGID	None	None	RIGID	Typical
210	M212	N305	N314		RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
1	M1	OOOOXO	OOOOXO	Yes	N/A	None
2	FACE	OOOOOX	OOOOOX	Yes	Default	None
3	M3	BenPIN	BenPIN	Yes	N/A	None
4	M4	BenPIN	BenPIN	Yes	N/A	None
5	M5	BenPIN	BenPIN	Yes	N/A	None
6	M6	BenPIN	BenPIN	Yes	N/A	None
7	M7	BenPIN	BenPIN	Yes	N/A	None
8	M8	OOOOXO	OOOOXO	Yes	N/A	None
9	M9	OOOOOX	OOOOOX	Yes	N/A	None
10	M10	OOOOXO	OOOOXO	Yes	N/A	None
11	M11	OOOOOX	OOOOOX	Yes	N/A	None
12	M12			Yes	N/A	None
13	M13			Yes	N/A	None
14	M14		OOOOOX	Yes	** NA **	None
15	M15		OOOOOX	Yes	** NA **	None
16	M16			Yes	N/A	None
17	M17			Yes	N/A	None
18	M20			Yes	N/A	None
19	M21			Yes	N/A	None
20	M24			Yes	N/A	None
21	M25			Yes	N/A	None
22	M26			Yes	N/A	None
23	M27			Yes	N/A	None
24	M28			Yes	N/A	None
25	M29			Yes	N/A	None
26	M26A		OOOOOX	Yes	** NA **	None
27	M27A		OOOOOX	Yes	** NA **	None
28	M28A		OOOOOX	Yes	** NA **	None
29	M29A		OOOOOX	Yes	** NA **	None
30	M30	BenPIN	BenPIN	Yes	Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
31	M31	BenPIN	BenPIN	Yes	Default	None
32	M32	BenPIN	BenPIN	Yes	Default	None
33	M33	OOOOOX		Yes	** NA **	None
34	M34			Yes	** NA **	None
35	M35		OOOXOX	Yes	** NA **	None
36	LIVE1		OOOXOX	Yes	** NA **	None
37	M37	OOOOOX		Yes	** NA **	None
38	M38		OOOXOX	Yes	** NA **	None
39	M39		OOOXOX	Yes	** NA **	None
40	M40		OOOXOX	Yes	** NA **	None
41	M41	OOOOOX		Yes	** NA **	None
42	LIVE2	OOOOOX		Yes	** NA **	None
43	M43		OOOXOX	Yes	** NA **	None
44	M44		OOOXOX	Yes	** NA **	None
45	M45	OOOOOX		Yes	** NA **	None
46	M46	OOOOOX		Yes	** NA **	None
47	EMPTYA			Yes	** NA **	None
48	RADIOA			Yes	** NA **	None
49	MP3A			Yes	** NA **	None
50	1A			Yes	** NA **	None
51	MP5A			Yes	** NA **	None
52	MP4A			Yes	** NA **	None
53	MP2A			Yes	** NA **	None
54	M54		BenPIN	Yes	N/A	None
55	M55		BenPIN	Yes	N/A	None
56	M56		BenPIN	Yes	N/A	None
57	M57		BenPIN	Yes	N/A	None
58	M58	BenPIN	BenPIN	Yes	N/A	None
59	M59	BenPIN	BenPIN	Yes	N/A	None
60	M60		BenPIN	Yes	N/A	None
61	M61		BenPIN	Yes	N/A	None
62	M62		BenPIN	Yes	Default	None
63	M63		BenPIN	Yes	N/A	None
64	M64		BenPIN	Yes	N/A	None
65	M65	BenPIN	BenPIN	Yes	N/A	None
66	M66		BenPIN	Yes	N/A	None
67	M67		BenPIN	Yes	N/A	None
68	M68		BenPIN	Yes	N/A	None
69	M69		BenPIN	Yes	N/A	None
70	M70	BenPIN	BenPIN	Yes	N/A	None
71	M71	BenPIN	BenPIN	Yes	N/A	None
72	M72			Yes	N/A	None
73	M73			Yes	N/A	None
74	M74			Yes	N/A	None
75	M75		OOOXOX	Yes	** NA **	None
76	M76		OOOXOX	Yes	** NA **	None
77	M77		OOOXOX	Yes	** NA **	None
78	M78		OOOXOX	Yes	** NA **	None
79	M79		OOOXOX	Yes	** NA **	None
80	M80		OOOXOX	Yes	** NA **	None
81	MP5C			Yes	** NA **	None
82	MP4C			Yes	** NA **	None
83	MP2C			Yes	** NA **	None
84	M84		OOOXOX	Yes	** NA **	None
85	M85		OOOXOX	Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
86	M86		OOOXOX	Yes	** NA **	None
87	M87		OOOXOX	Yes	** NA **	None
88	M88		OOOXOX	Yes	** NA **	None
89	M89		OOOXOX	Yes	** NA **	None
90	MP5B			Yes	** NA **	None
91	MP4B			Yes	** NA **	None
92	MP2B			Yes	** NA **	None
93	M93	BenPIN	BenPIN	Yes	N/A	None
94	M94	BenPIN	BenPIN	Yes	N/A	None
95	M98	OOOOOX		Yes	** NA **	None
96	M99	OOOOOX		Yes	** NA **	None
97	M102	OOOOOX		Yes	** NA **	None
98	M103	OOOOOX		Yes	** NA **	None
99	M106	OOOOOX		Yes	** NA **	None
100	M107	OOOOOX		Yes	** NA **	None
101	EMPTYC			Yes	** NA **	None
102	RADIOC			Yes	** NA **	None
103	MP3C			Yes	** NA **	None
104	M116	BenPIN	BenPIN	Yes	N/A	None
105	M117	BenPIN	BenPIN	Yes	N/A	None
106	M121	OOOOOX		Yes	** NA **	None
107	M122	OOOOOX		Yes	** NA **	None
108	M125	OOOOOX		Yes	** NA **	None
109	M126	OOOOOX		Yes	** NA **	None
110	M129	OOOOOX		Yes	** NA **	None
111	M130	OOOOOX		Yes	** NA **	None
112	EMPTYB			Yes	** NA **	None
113	RADIOB			Yes	** NA **	None
114	MP3B			Yes	** NA **	None
115	M121A	OOOOOX		Yes	** NA **	None
116	M122A	OOOOOX		Yes	** NA **	None
117	1C			Yes	** NA **	None
118	M124	OOOOOX		Yes	** NA **	None
119	M125A	OOOOOX		Yes	** NA **	None
120	1B			Yes	** NA **	None
121	M121B	BenPIN	BenPIN	Yes	N/A	None
122	M122B	BenPIN	BenPIN	Yes	N/A	None
123	M123	BenPIN	BenPIN	Yes	N/A	None
124	M124A	BenPIN	BenPIN	Yes	N/A	None
125	M125B	BenPIN	BenPIN	Yes	N/A	None
126	M126A	BenPIN	BenPIN	Yes	N/A	None
127	DONOR			Yes	** NA **	None
128	M128			Yes	Default	None
129	M131			Yes	Default	None
130	M132			Yes	** NA **	None
131	M133			Yes	** NA **	None
132	M134			Yes	** NA **	None
133	M135			Yes	** NA **	None
134	M136		OOOXOX	Yes	** NA **	None
135	M137		OOOXOX	Yes	** NA **	None
136	M138			Yes	** NA **	None
137	M139			Yes	** NA **	None
138	M140			Yes	Default	None
139	M141			Yes	Default	None
140	M142			Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
141	M143			Yes	** NA **	None
142	M144			Yes	** NA **	None
143	M145			Yes	** NA **	None
144	M146		OOOXOX	Yes	** NA **	None
145	M147		OOOXOX	Yes	** NA **	None
146	M148			Yes	** NA **	None
147	M149			Yes	** NA **	None
148	M150			Yes	** NA **	None
149	M151		OOOXOX	Yes	** NA **	None
150	M152			Yes	Default	None
151	M153			Yes	Default	None
152	M154			Yes	** NA **	None
153	M155			Yes	** NA **	None
154	M156			Yes	** NA **	None
155	M157			Yes	** NA **	None
156	M158			Yes	** NA **	None
157	M159		OOOXOX	Yes	** NA **	None
158	M160			Yes	Default	None
159	M161			Yes	Default	None
160	M162			Yes	** NA **	None
161	M163			Yes	** NA **	None
162	M164			Yes	** NA **	None
163	M165			Yes	** NA **	None
164	M166		OOOXOX	Yes	** NA **	None
165	M167		OOOXOX	Yes	** NA **	None
166	M168			Yes	** NA **	None
167	M169			Yes	** NA **	None
168	MP1A			Yes	** NA **	None
169	M171		OOOXOX	Yes	** NA **	None
170	M172			Yes	** NA **	None
171	M173			Yes	** NA **	None
172	MP1C			Yes	** NA **	None
173	M175			Yes	Default	None
174	M176			Yes	** NA **	None
175	M177			Yes	** NA **	None
176	M178			Yes	** NA **	None
177	M179		OOOXOX	Yes	** NA **	None
178	M180			Yes	Default	None
179	M181			Yes	Default	None
180	M182			Yes	** NA **	None
181	M183			Yes	** NA **	None
182	M184			Yes	** NA **	None
183	M185			Yes	** NA **	None
184	M186			Yes	Default	None
185	M187			Yes	** NA **	None
186	M188			Yes	** NA **	None
187	M189		OOOXOX	Yes	** NA **	None
188	M190		OOOXOX	Yes	** NA **	None
189	M191			Yes	** NA **	None
190	M192		OOOXOX	Yes	** NA **	None
191	M193			Yes	** NA **	None
192	M194			Yes	** NA **	None
193	MP1B			Yes	** NA **	None
194	M196			Yes	Default	None
195	M197			Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
196	M198			Yes	** NA **	None
197	M199			Yes	** NA **	None
198	M200		OOOXOX	Yes	** NA **	None
199	M201			Yes	Default	None
200	M202			Yes	Default	None
201	M203			Yes	** NA **	None
202	M204			Yes	** NA **	None
203	M205			Yes	** NA **	None
204	M206			Yes	** NA **	None
205	M207			Yes	Default	None
206	M208			Yes	** NA **	None
207	M209			Yes	** NA **	None
208	M210		OOOXOX	Yes	** NA **	None
209	M211		OOOXOX	Yes	** NA **	None
210	M212			Yes	** NA **	None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	Y	-40.1	0.5
2	MP5A	My	-0.02	0.5
3	MP5A	Mz	-0.023	0.5
4	MP5A	Y	-40.1	4.5
5	MP5A	My	-0.02	4.5
6	MP5A	Mz	-0.023	4.5
7	MP5B	Y	-40.1	0.5
8	MP5B	My	0.029	0.5
9	MP5B	Mz	0.01	0.5
10	MP5B	Y	-40.1	4.5
11	MP5B	My	0.029	4.5
12	MP5B	Mz	0.01	4.5
13	MP5C	Y	-40.1	0.5
14	MP5C	My	-0.02	0.5
15	MP5C	Mz	0.024	0.5
16	MP5C	Y	-40.1	4.5
17	MP5C	My	-0.02	4.5
18	MP5C	Mz	0.024	4.5
19	MP5A	Y	-40.1	0.5
20	MP5A	My	-0.02	0.5
21	MP5A	Mz	0.023	0.5
22	MP5A	Y	-40.1	4.5
23	MP5A	My	-0.02	4.5
24	MP5A	Mz	0.023	4.5
25	MP5B	Y	-40.1	0.5
26	MP5B	My	0.006	0.5
27	MP5B	Mz	-0.03	0.5
28	MP5B	Y	-40.1	4.5
29	MP5B	My	0.006	4.5
30	MP5B	Mz	-0.03	4.5
31	MP5C	Y	-40.1	0.5
32	MP5C	My	0.027	0.5
33	MP5C	Mz	0.016	0.5
34	MP5C	Y	-40.1	4.5
35	MP5C	My	0.027	4.5
36	MP5C	Mz	0.016	4.5
37	MP2A	Y	-16.2	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2A	My	-0.008	1.5
39	MP2A	Mz	0	1.5
40	MP2B	Y	-16.2	1.5
41	MP2B	My	0.007	1.5
42	MP2B	Mz	-0.004	1.5
43	MP2C	Y	-16.2	1.5
44	MP2C	My	0.001	1.5
45	MP2C	Mz	0.008	1.5
46	RADIOA	Y	-84.4	0.5
47	RADIOA	My	0	0.5
48	RADIOA	Mz	0	0.5
49	MP2A	Y	-18.7	3
50	MP2A	My	0.009	3
51	MP2A	Mz	0	3
52	MP2B	Y	-18.7	3
53	MP2B	My	-0.008	3
54	MP2B	Mz	0.005	3
55	MP2C	Y	-18.7	3
56	MP2C	My	-0.002	3
57	MP2C	Mz	-0.009	3
58	MP3A	Y	-20.8	3
59	MP3A	My	0.01	3
60	MP3A	Mz	0	3
61	MP3B	Y	-20.8	3
62	MP3B	My	-0.009	3
63	MP3B	Mz	0.005	3
64	MP3C	Y	-20.8	3
65	MP3C	My	-0.002	3
66	MP3C	Mz	-0.01	3
67	RADIOB	Y	-84.4	0.5
68	RADIOB	My	0	0.5
69	RADIOB	Mz	0	0.5
70	RADIOC	Y	-84.4	0.5
71	RADIOC	My	0	0.5
72	RADIOC	Mz	0	0.5
73	MP3A	Y	-28.65	1.5
74	MP3A	My	-0.014	1.5
75	MP3A	Mz	0	1.5
76	MP3A	Y	-28.65	3.5
77	MP3A	My	-0.014	3.5
78	MP3A	Mz	0	3.5
79	MP3B	Y	-28.65	1.5
80	MP3B	My	0.012	1.5
81	MP3B	Mz	-0.007	1.5
82	MP3B	Y	-28.65	3.5
83	MP3B	My	0.012	3.5
84	MP3B	Mz	-0.007	3.5
85	MP3C	Y	-28.65	1.5
86	MP3C	My	0.002	1.5
87	MP3C	Mz	0.014	1.5
88	MP3C	Y	-28.65	3.5
89	MP3C	My	0.002	3.5
90	MP3C	Mz	0.014	3.5
91	MP4A	Y	-79.1	3
92	MP4A	My	-0.034	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP4A	Mz	-0.02	3
94	MP4B	Y	-79.1	3
95	MP4B	My	0.034	3
96	MP4B	Mz	-0.02	3
97	MP4C	Y	-79.1	3
98	MP4C	My	0.007	3
99	MP4C	Mz	0.039	3
100	MP5A	Y	-17.6	4
101	MP5A	My	0.003	4
102	MP5A	Mz	-0.012	4
103	MP5B	Y	-17.6	4
104	MP5B	My	0.003	4
105	MP5B	Mz	-0.012	4
106	MP5C	Y	-17.6	4
107	MP5C	My	0.003	4
108	MP5C	Mz	-0.012	4
109	MP5A	Y	-17.6	4
110	MP5A	My	0.012	4
111	MP5A	Mz	0.003	4
112	MP5B	Y	-17.6	4
113	MP5B	My	0.012	4
114	MP5B	Mz	0.003	4
115	MP5C	Y	-17.6	4
116	MP5C	My	0.012	4
117	MP5C	Mz	0.003	4
118	MP1A	Y	-52.5	1.6
119	MP1A	My	-0.005	1.6
120	MP1A	Mz	0.026	1.6
121	MP1B	Y	-52.5	1.6
122	MP1B	My	0.005	1.6
123	MP1B	Mz	-0.026	1.6
124	MP1C	Y	-52.5	1.6
125	MP1C	My	0.026	1.6
126	MP1C	Mz	0.005	1.6
127	DONOR	Y	-52.5	1.6
128	DONOR	My	-0.026	1.6
129	DONOR	Mz	-0.005	1.6

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	Y	-90.062	0.5
2	MP5A	My	-0.045	0.5
3	MP5A	Mz	-0.053	0.5
4	MP5A	Y	-90.062	4.5
5	MP5A	My	-0.045	4.5
6	MP5A	Mz	-0.053	4.5
7	MP5B	Y	-90.062	0.5
8	MP5B	My	0.065	0.5
9	MP5B	Mz	0.023	0.5
10	MP5B	Y	-90.062	4.5
11	MP5B	My	0.065	4.5
12	MP5B	Mz	0.023	4.5
13	MP5C	Y	-90.062	0.5
14	MP5C	My	-0.044	0.5
15	MP5C	Mz	0.053	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP5C	Y	-90.062	4.5
17	MP5C	My	-0.044	4.5
18	MP5C	Mz	0.053	4.5
19	MP5A	Y	-90.062	0.5
20	MP5A	My	-0.045	0.5
21	MP5A	Mz	0.053	0.5
22	MP5A	Y	-90.062	4.5
23	MP5A	My	-0.045	4.5
24	MP5A	Mz	0.053	4.5
25	MP5B	Y	-90.062	0.5
26	MP5B	My	0.013	0.5
27	MP5B	Mz	-0.068	0.5
28	MP5B	Y	-90.062	4.5
29	MP5B	My	0.013	4.5
30	MP5B	Mz	-0.068	4.5
31	MP5C	Y	-90.062	0.5
32	MP5C	My	0.06	0.5
33	MP5C	Mz	0.035	0.5
34	MP5C	Y	-90.062	4.5
35	MP5C	My	0.06	4.5
36	MP5C	Mz	0.035	4.5
37	MP2A	Y	-43.521	1.5
38	MP2A	My	-0.022	1.5
39	MP2A	Mz	0	1.5
40	MP2B	Y	-43.521	1.5
41	MP2B	My	0.019	1.5
42	MP2B	Mz	-0.011	1.5
43	MP2C	Y	-43.521	1.5
44	MP2C	My	0.004	1.5
45	MP2C	Mz	0.021	1.5
46	RADIOA	Y	-44.393	0.5
47	RADIOA	My	0	0.5
48	RADIOA	Mz	0	0.5
49	MP2A	Y	-19.6	3
50	MP2A	My	0.01	3
51	MP2A	Mz	0	3
52	MP2B	Y	-19.6	3
53	MP2B	My	-0.008	3
54	MP2B	Mz	0.005	3
55	MP2C	Y	-19.6	3
56	MP2C	My	-0.002	3
57	MP2C	Mz	-0.01	3
58	MP3A	Y	-17	3
59	MP3A	My	0.009	3
60	MP3A	Mz	0	3
61	MP3B	Y	-17	3
62	MP3B	My	-0.007	3
63	MP3B	Mz	0.004	3
64	MP3C	Y	-17	3
65	MP3C	My	-0.001	3
66	MP3C	Mz	-0.008	3
67	RADIOB	Y	-44.393	0.5
68	RADIOB	My	0	0.5
69	RADIOB	Mz	0	0.5
70	RADIOC	Y	-44.393	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	RADIOC	My	0	0.5
72	RADIOC	Mz	0	0.5
73	MP3A	Y	-29.445	1.5
74	MP3A	My	-0.015	1.5
75	MP3A	Mz	0	1.5
76	MP3A	Y	-29.445	3.5
77	MP3A	My	-0.015	3.5
78	MP3A	Mz	0	3.5
79	MP3B	Y	-29.445	1.5
80	MP3B	My	0.013	1.5
81	MP3B	Mz	-0.007	1.5
82	MP3B	Y	-29.445	3.5
83	MP3B	My	0.013	3.5
84	MP3B	Mz	-0.007	3.5
85	MP3C	Y	-29.445	1.5
86	MP3C	My	0.003	1.5
87	MP3C	Mz	0.014	1.5
88	MP3C	Y	-29.445	3.5
89	MP3C	My	0.003	3.5
90	MP3C	Mz	0.014	3.5
91	MP4A	Y	-44.864	3
92	MP4A	My	-0.019	3
93	MP4A	Mz	-0.011	3
94	MP4B	Y	-44.864	3
95	MP4B	My	0.019	3
96	MP4B	Mz	-0.011	3
97	MP4C	Y	-44.864	3
98	MP4C	My	0.004	3
99	MP4C	Mz	0.022	3
100	MP5A	Y	6.6	4
101	MP5A	My	-0.001	4
102	MP5A	Mz	0.005	4
103	MP5B	Y	6.6	4
104	MP5B	My	-0.001	4
105	MP5B	Mz	0.005	4
106	MP5C	Y	6.6	4
107	MP5C	My	-0.001	4
108	MP5C	Mz	0.005	4
109	MP5A	Y	6.6	4
110	MP5A	My	-0.005	4
111	MP5A	Mz	-0.001	4
112	MP5B	Y	6.6	4
113	MP5B	My	-0.005	4
114	MP5B	Mz	-0.001	4
115	MP5C	Y	6.6	4
116	MP5C	My	-0.005	4
117	MP5C	Mz	-0.001	4
118	MP1A	Y	-49.915	1.6
119	MP1A	My	-0.004	1.6
120	MP1A	Mz	0.025	1.6
121	MP1B	Y	-49.915	1.6
122	MP1B	My	0.004	1.6
123	MP1B	Mz	-0.025	1.6
124	MP1C	Y	-49.915	1.6
125	MP1C	My	0.025	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
126	MP1C	Mz	0.004	1.6
127	DONOR	Y	-49.915	1.6
128	DONOR	My	-0.025	1.6
129	DONOR	Mz	-0.004	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	0	0.5
2	MP5A	Z	-146.625	0.5
3	MP5A	Mx	0.086	0.5
4	MP5A	X	0	4.5
5	MP5A	Z	-146.625	4.5
6	MP5A	Mx	0.086	4.5
7	MP5B	X	0	0.5
8	MP5B	Z	-124.711	0.5
9	MP5B	Mx	-0.032	0.5
10	MP5B	X	0	4.5
11	MP5B	Z	-124.711	4.5
12	MP5B	Mx	-0.032	4.5
13	MP5C	X	0	0.5
14	MP5C	Z	-61.615	0.5
15	MP5C	Mx	-0.037	0.5
16	MP5C	X	0	4.5
17	MP5C	Z	-61.615	4.5
18	MP5C	Mx	-0.037	4.5
19	MP5A	X	0	0.5
20	MP5A	Z	-146.625	0.5
21	MP5A	Mx	-0.086	0.5
22	MP5A	X	0	4.5
23	MP5A	Z	-146.625	4.5
24	MP5A	Mx	-0.086	4.5
25	MP5B	X	0	0.5
26	MP5B	Z	-124.711	0.5
27	MP5B	Mx	0.094	0.5
28	MP5B	X	0	4.5
29	MP5B	Z	-124.711	4.5
30	MP5B	Mx	0.094	4.5
31	MP5C	X	0	0.5
32	MP5C	Z	-61.615	0.5
33	MP5C	Mx	-0.024	0.5
34	MP5C	X	0	4.5
35	MP5C	Z	-61.615	4.5
36	MP5C	Mx	-0.024	4.5
37	MP2A	X	0	1.5
38	MP2A	Z	-96.676	1.5
39	MP2A	Mx	0	1.5
40	MP2B	X	0	1.5
41	MP2B	Z	-79.495	1.5
42	MP2B	Mx	0.02	1.5
43	MP2C	X	0	1.5
44	MP2C	Z	-30.025	1.5
45	MP2C	Mx	-0.015	1.5
46	RADIOA	X	0	0.5
47	RADIOA	Z	-45.84	0.5
48	RADIOA	Mx	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2A	X	0	3
50	MP2A	Z	-23.202	3
51	MP2A	Mx	0	3
52	MP2B	X	0	3
53	MP2B	Z	-20.141	3
54	MP2B	Mx	-0.005	3
55	MP2C	X	0	3
56	MP2C	Z	-11.326	3
57	MP2C	Mx	0.006	3
58	MP3A	X	0	3
59	MP3A	Z	-21.591	3
60	MP3A	Mx	0	3
61	MP3B	X	0	3
62	MP3B	Z	-20.343	3
63	MP3B	Mx	-0.005	3
64	MP3C	X	0	3
65	MP3C	Z	-16.752	3
66	MP3C	Mx	0.008	3
67	RADIOB	X	0	0.5
68	RADIOB	Z	-45.84	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	0	0.5
71	RADIOC	Z	-45.84	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	0	1.5
74	MP3A	Z	-50.916	1.5
75	MP3A	Mx	0	1.5
76	MP3A	X	0	3.5
77	MP3A	Z	-50.916	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	1.5
80	MP3B	Z	-42.658	1.5
81	MP3B	Mx	0.011	1.5
82	MP3B	X	0	3.5
83	MP3B	Z	-42.658	3.5
84	MP3B	Mx	0.011	3.5
85	MP3C	X	0	1.5
86	MP3C	Z	-18.881	1.5
87	MP3C	Mx	-0.009	1.5
88	MP3C	X	0	3.5
89	MP3C	Z	-18.881	3.5
90	MP3C	Mx	-0.009	3.5
91	MP4A	X	0	3
92	MP4A	Z	-55.468	3
93	MP4A	Mx	0.014	3
94	MP4B	X	0	3
95	MP4B	Z	-55.468	3
96	MP4B	Mx	0.014	3
97	MP4C	X	0	3
98	MP4C	Z	-41.665	3
99	MP4C	Mx	-0.021	3
100	MP5A	X	0	4
101	MP5A	Z	-30.959	4
102	MP5A	Mx	0.021	4
103	MP5B	X	0	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5B	Z	-30.959	4
105	MP5B	Mx	0.021	4
106	MP5C	X	0	4
107	MP5C	Z	-30.959	4
108	MP5C	Mx	0.021	4
109	MP5A	X	0	4
110	MP5A	Z	-30.959	4
111	MP5A	Mx	-0.006	4
112	MP5B	X	0	4
113	MP5B	Z	-30.959	4
114	MP5B	Mx	-0.006	4
115	MP5C	X	0	4
116	MP5C	Z	-30.959	4
117	MP5C	Mx	-0.006	4
118	MP1A	X	0	1.6
119	MP1A	Z	-44.29	1.6
120	MP1A	Mx	-0.022	1.6
121	MP1B	X	0	1.6
122	MP1B	Z	-44.29	1.6
123	MP1B	Mx	0.022	1.6
124	MP1C	X	0	1.6
125	MP1C	Z	-76.313	1.6
126	MP1C	Mx	-0.007	1.6
127	DONOR	X	0	1.6
128	DONOR	Z	-76.313	1.6
129	DONOR	Mx	0.007	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	62.356	0.5
2	MP5A	Z	-108.003	0.5
3	MP5A	Mx	0.032	0.5
4	MP5A	X	62.356	4.5
5	MP5A	Z	-108.003	4.5
6	MP5A	Mx	0.032	4.5
7	MP5B	X	40.443	0.5
8	MP5B	Z	-70.049	0.5
9	MP5B	Mx	0.011	0.5
10	MP5B	X	40.443	4.5
11	MP5B	Z	-70.049	4.5
12	MP5B	Mx	0.011	4.5
13	MP5C	X	47.594	0.5
14	MP5C	Z	-82.435	0.5
15	MP5C	Mx	-0.072	0.5
16	MP5C	X	47.594	4.5
17	MP5C	Z	-82.435	4.5
18	MP5C	Mx	-0.072	4.5
19	MP5A	X	62.356	0.5
20	MP5A	Z	-108.003	0.5
21	MP5A	Mx	-0.094	0.5
22	MP5A	X	62.356	4.5
23	MP5A	Z	-108.003	4.5
24	MP5A	Mx	-0.094	4.5
25	MP5B	X	40.443	0.5
26	MP5B	Z	-70.049	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP5B	Mx	0.059	0.5
28	MP5B	X	40.443	4.5
29	MP5B	Z	-70.049	4.5
30	MP5B	Mx	0.059	4.5
31	MP5C	X	47.594	0.5
32	MP5C	Z	-82.435	0.5
33	MP5C	Mx	-0.000767	0.5
34	MP5C	X	47.594	4.5
35	MP5C	Z	-82.435	4.5
36	MP5C	Mx	-0.000767	4.5
37	MP2A	X	39.747	1.5
38	MP2A	Z	-68.844	1.5
39	MP2A	Mx	-0.02	1.5
40	MP2B	X	22.567	1.5
41	MP2B	Z	-39.086	1.5
42	MP2B	Mx	0.02	1.5
43	MP2C	X	28.174	1.5
44	MP2C	Z	-48.798	1.5
45	MP2C	Mx	-0.022	1.5
46	RADIOA	X	18.811	0.5
47	RADIOA	Z	-32.582	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	10.07	3
50	MP2A	Z	-17.442	3
51	MP2A	Mx	0.005	3
52	MP2B	X	7.009	3
53	MP2B	Z	-12.14	3
54	MP2B	Mx	-0.006	3
55	MP2C	X	8.008	3
56	MP2C	Z	-13.87	3
57	MP2C	Mx	0.006	3
58	MP3A	X	10.172	3
59	MP3A	Z	-17.618	3
60	MP3A	Mx	0.005	3
61	MP3B	X	8.924	3
62	MP3B	Z	-15.457	3
63	MP3B	Mx	-0.008	3
64	MP3C	X	9.331	3
65	MP3C	Z	-16.162	3
66	MP3C	Mx	0.007	3
67	RADIOB	X	18.811	0.5
68	RADIOB	Z	-32.582	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	18.811	0.5
71	RADIOC	Z	-32.582	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	21.329	1.5
74	MP3A	Z	-36.943	1.5
75	MP3A	Mx	-0.011	1.5
76	MP3A	X	21.329	3.5
77	MP3A	Z	-36.943	3.5
78	MP3A	Mx	-0.011	3.5
79	MP3B	X	13.071	1.5
80	MP3B	Z	-22.64	1.5
81	MP3B	Mx	0.011	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP3B	X	13.071	3.5
83	MP3B	Z	-22.64	3.5
84	MP3B	Mx	0.011	3.5
85	MP3C	X	15.766	1.5
86	MP3C	Z	-27.308	1.5
87	MP3C	Mx	-0.012	1.5
88	MP3C	X	15.766	3.5
89	MP3C	Z	-27.308	3.5
90	MP3C	Mx	-0.012	3.5
91	MP4A	X	30.131	3
92	MP4A	Z	-52.188	3
93	MP4A	Mx	0	3
94	MP4B	X	22.94	3
95	MP4B	Z	-39.734	3
96	MP4B	Mx	0.02	3
97	MP4C	X	24.505	3
98	MP4C	Z	-42.443	3
99	MP4C	Mx	-0.019	3
100	MP5A	X	15.502	4
101	MP5A	Z	-26.851	4
102	MP5A	Mx	0.021	4
103	MP5B	X	15.502	4
104	MP5B	Z	-26.851	4
105	MP5B	Mx	0.021	4
106	MP5C	X	15.502	4
107	MP5C	Z	-26.851	4
108	MP5C	Mx	0.021	4
109	MP5A	X	15.502	4
110	MP5A	Z	-26.851	4
111	MP5A	Mx	0.006	4
112	MP5B	X	15.502	4
113	MP5B	Z	-26.851	4
114	MP5B	Mx	0.006	4
115	MP5C	X	15.502	4
116	MP5C	Z	-26.851	4
117	MP5C	Mx	0.006	4
118	MP1A	X	23.624	1.6
119	MP1A	Z	-40.919	1.6
120	MP1A	Mx	-0.022	1.6
121	MP1B	X	23.624	1.6
122	MP1B	Z	-40.919	1.6
123	MP1B	Mx	0.022	1.6
124	MP1C	X	36.677	1.6
125	MP1C	Z	-63.526	1.6
126	MP1C	Mx	0.013	1.6
127	DONOR	X	36.677	1.6
128	DONOR	Z	-63.526	1.6
129	DONOR	Mx	-0.013	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	70.049	0.5
2	MP5A	Z	-40.443	0.5
3	MP5A	Mx	-0.011	0.5
4	MP5A	X	70.049	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP5A	Z	-40.443	4.5
6	MP5A	Mx	-0.011	4.5
7	MP5B	X	51.071	0.5
8	MP5B	Z	-29.486	0.5
9	MP5B	Mx	0.029	0.5
10	MP5B	X	51.071	4.5
11	MP5B	Z	-29.486	4.5
12	MP5B	Mx	0.029	4.5
13	MP5C	X	118.101	0.5
14	MP5C	Z	-68.186	0.5
15	MP5C	Mx	-0.098	0.5
16	MP5C	X	118.101	4.5
17	MP5C	Z	-68.186	4.5
18	MP5C	Mx	-0.098	4.5
19	MP5A	X	70.049	0.5
20	MP5A	Z	-40.443	0.5
21	MP5A	Mx	-0.059	0.5
22	MP5A	X	70.049	4.5
23	MP5A	Z	-40.443	4.5
24	MP5A	Mx	-0.059	4.5
25	MP5B	X	51.071	0.5
26	MP5B	Z	-29.486	0.5
27	MP5B	Mx	0.029	0.5
28	MP5B	X	51.071	4.5
29	MP5B	Z	-29.486	4.5
30	MP5B	Mx	0.029	4.5
31	MP5C	X	118.101	0.5
32	MP5C	Z	-68.186	0.5
33	MP5C	Mx	0.051	0.5
34	MP5C	X	118.101	4.5
35	MP5C	Z	-68.186	4.5
36	MP5C	Mx	0.051	4.5
37	MP2A	X	39.086	1.5
38	MP2A	Z	-22.567	1.5
39	MP2A	Mx	-0.02	1.5
40	MP2B	X	24.207	1.5
41	MP2B	Z	-13.976	1.5
42	MP2B	Mx	0.014	1.5
43	MP2C	X	76.761	1.5
44	MP2C	Z	-44.318	1.5
45	MP2C	Mx	-0.015	1.5
46	RADIOA	X	29.024	0.5
47	RADIOA	Z	-16.757	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	12.14	3
50	MP2A	Z	-7.009	3
51	MP2A	Mx	0.006	3
52	MP2B	X	9.489	3
53	MP2B	Z	-5.478	3
54	MP2B	Mx	-0.005	3
55	MP2C	X	18.853	3
56	MP2C	Z	-10.885	3
57	MP2C	Mx	0.004	3
58	MP3A	X	15.457	3
59	MP3A	Z	-8.924	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3A	Mx	0.008	3
61	MP3B	X	14.377	3
62	MP3B	Z	-8.301	3
63	MP3B	Mx	-0.008	3
64	MP3C	X	18.193	3
65	MP3C	Z	-10.504	3
66	MP3C	Mx	0.004	3
67	RADIOB	X	29.024	0.5
68	RADIOB	Z	-16.757	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	29.024	0.5
71	RADIOC	Z	-16.757	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	22.64	1.5
74	MP3A	Z	-13.071	1.5
75	MP3A	Mx	-0.011	1.5
76	MP3A	X	22.64	3.5
77	MP3A	Z	-13.071	3.5
78	MP3A	Mx	-0.011	3.5
79	MP3B	X	15.489	1.5
80	MP3B	Z	-8.942	1.5
81	MP3B	Mx	0.009	1.5
82	MP3B	X	15.489	3.5
83	MP3B	Z	-8.942	3.5
84	MP3B	Mx	0.009	3.5
85	MP3C	X	40.748	1.5
86	MP3C	Z	-23.526	1.5
87	MP3C	Mx	-0.008	1.5
88	MP3C	X	40.748	3.5
89	MP3C	Z	-23.526	3.5
90	MP3C	Mx	-0.008	3.5
91	MP4A	X	48.036	3
92	MP4A	Z	-27.734	3
93	MP4A	Mx	-0.014	3
94	MP4B	X	35.582	3
95	MP4B	Z	-20.544	3
96	MP4B	Mx	0.021	3
97	MP4C	X	50.245	3
98	MP4C	Z	-29.009	3
99	MP4C	Mx	-0.01	3
100	MP5A	X	26.871	4
101	MP5A	Z	-15.514	4
102	MP5A	Mx	0.016	4
103	MP5B	X	26.871	4
104	MP5B	Z	-15.514	4
105	MP5B	Mx	0.016	4
106	MP5C	X	26.871	4
107	MP5C	Z	-15.514	4
108	MP5C	Mx	0.016	4
109	MP5A	X	26.871	4
110	MP5A	Z	-15.514	4
111	MP5A	Mx	0.016	4
112	MP5B	X	26.871	4
113	MP5B	Z	-15.514	4
114	MP5B	Mx	0.016	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
115	MP5C	X	26.871	4
116	MP5C	Z	-15.514	4
117	MP5C	Mx	0.016	4
118	MP1A	X	54.785	1.6
119	MP1A	Z	-31.63	1.6
120	MP1A	Mx	-0.02	1.6
121	MP1B	X	54.785	1.6
122	MP1B	Z	-31.63	1.6
123	MP1B	Mx	0.02	1.6
124	MP1C	X	49.66	1.6
125	MP1C	Z	-28.671	1.6
126	MP1C	Mx	0.022	1.6
127	DONOR	X	49.66	1.6
128	DONOR	Z	-28.671	1.6
129	DONOR	Mx	-0.022	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	58.972	0.5
2	MP5A	Z	0	0.5
3	MP5A	Mx	-0.029	0.5
4	MP5A	X	58.972	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	-0.029	4.5
7	MP5B	X	80.885	0.5
8	MP5B	Z	0	0.5
9	MP5B	Mx	0.059	0.5
10	MP5B	X	80.885	4.5
11	MP5B	Z	0	4.5
12	MP5B	Mx	0.059	4.5
13	MP5C	X	143.982	0.5
14	MP5C	Z	0	0.5
15	MP5C	Mx	-0.07	0.5
16	MP5C	X	143.982	4.5
17	MP5C	Z	0	4.5
18	MP5C	Mx	-0.07	4.5
19	MP5A	X	58.972	0.5
20	MP5A	Z	0	0.5
21	MP5A	Mx	-0.029	0.5
22	MP5A	X	58.972	4.5
23	MP5A	Z	0	4.5
24	MP5A	Mx	-0.029	4.5
25	MP5B	X	80.885	0.5
26	MP5B	Z	0	0.5
27	MP5B	Mx	0.011	0.5
28	MP5B	X	80.885	4.5
29	MP5B	Z	0	4.5
30	MP5B	Mx	0.011	4.5
31	MP5C	X	143.982	0.5
32	MP5C	Z	0	0.5
33	MP5C	Mx	0.095	0.5
34	MP5C	X	143.982	4.5
35	MP5C	Z	0	4.5
36	MP5C	Mx	0.095	4.5
37	MP2A	X	27.952	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2A	Z	0	1.5
39	MP2A	Mx	-0.014	1.5
40	MP2B	X	45.133	1.5
41	MP2B	Z	0	1.5
42	MP2B	Mx	0.02	1.5
43	MP2C	X	94.603	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	0.008	1.5
46	RADIOA	X	37.623	0.5
47	RADIOA	Z	0	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	10.957	3
50	MP2A	Z	0	3
51	MP2A	Mx	0.005	3
52	MP2B	X	14.018	3
53	MP2B	Z	0	3
54	MP2B	Mx	-0.006	3
55	MP2C	X	22.833	3
56	MP2C	Z	0	3
57	MP2C	Mx	-0.002	3
58	MP3A	X	16.601	3
59	MP3A	Z	0	3
60	MP3A	Mx	0.008	3
61	MP3B	X	17.849	3
62	MP3B	Z	0	3
63	MP3B	Mx	-0.008	3
64	MP3C	X	21.44	3
65	MP3C	Z	0	3
66	MP3C	Mx	-0.002	3
67	RADIOB	X	37.623	0.5
68	RADIOB	Z	0	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	37.623	0.5
71	RADIOC	Z	0	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	17.885	1.5
74	MP3A	Z	0	1.5
75	MP3A	Mx	-0.009	1.5
76	MP3A	X	17.885	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	-0.009	3.5
79	MP3B	X	26.143	1.5
80	MP3B	Z	0	1.5
81	MP3B	Mx	0.011	1.5
82	MP3B	X	26.143	3.5
83	MP3B	Z	0	3.5
84	MP3B	Mx	0.011	3.5
85	MP3C	X	49.92	1.5
86	MP3C	Z	0	1.5
87	MP3C	Mx	0.004	1.5
88	MP3C	X	49.92	3.5
89	MP3C	Z	0	3.5
90	MP3C	Mx	0.004	3.5
91	MP4A	X	45.881	3
92	MP4A	Z	0	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP4A	Mx	-0.02	3
94	MP4B	X	45.881	3
95	MP4B	Z	0	3
96	MP4B	Mx	0.02	3
97	MP4C	X	59.683	3
98	MP4C	Z	0	3
99	MP4C	Mx	0.005	3
100	MP5A	X	31.005	4
101	MP5A	Z	0	4
102	MP5A	Mx	0.006	4
103	MP5B	X	31.005	4
104	MP5B	Z	0	4
105	MP5B	Mx	0.006	4
106	MP5C	X	31.005	4
107	MP5C	Z	0	4
108	MP5C	Mx	0.006	4
109	MP5A	X	31.005	4
110	MP5A	Z	0	4
111	MP5A	Mx	0.021	4
112	MP5B	X	31.005	4
113	MP5B	Z	0	4
114	MP5B	Mx	0.021	4
115	MP5C	X	31.005	4
116	MP5C	Z	0	4
117	MP5C	Mx	0.021	4
118	MP1A	X	76.313	1.6
119	MP1A	Z	0	1.6
120	MP1A	Mx	-0.007	1.6
121	MP1B	X	76.313	1.6
122	MP1B	Z	0	1.6
123	MP1B	Mx	0.007	1.6
124	MP1C	X	44.29	1.6
125	MP1C	Z	0	1.6
126	MP1C	Mx	0.022	1.6
127	DONOR	X	44.29	1.6
128	DONOR	Z	0	1.6
129	DONOR	Mx	-0.022	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	70.049	0.5
2	MP5A	Z	40.443	0.5
3	MP5A	Mx	-0.059	0.5
4	MP5A	X	70.049	4.5
5	MP5A	Z	40.443	4.5
6	MP5A	Mx	-0.059	4.5
7	MP5B	X	108.003	0.5
8	MP5B	Z	62.356	0.5
9	MP5B	Mx	0.094	0.5
10	MP5B	X	108.003	4.5
11	MP5B	Z	62.356	4.5
12	MP5B	Mx	0.094	4.5
13	MP5C	X	95.617	0.5
14	MP5C	Z	55.204	0.5
15	MP5C	Mx	-0.014	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP5C	X	95.617	4.5
17	MP5C	Z	55.204	4.5
18	MP5C	Mx	-0.014	4.5
19	MP5A	X	70.049	0.5
20	MP5A	Z	40.443	0.5
21	MP5A	Mx	-0.011	0.5
22	MP5A	X	70.049	4.5
23	MP5A	Z	40.443	4.5
24	MP5A	Mx	-0.011	4.5
25	MP5B	X	108.003	0.5
26	MP5B	Z	62.356	0.5
27	MP5B	Mx	-0.032	0.5
28	MP5B	X	108.003	4.5
29	MP5B	Z	62.356	4.5
30	MP5B	Mx	-0.032	4.5
31	MP5C	X	95.617	0.5
32	MP5C	Z	55.204	0.5
33	MP5C	Mx	0.085	0.5
34	MP5C	X	95.617	4.5
35	MP5C	Z	55.204	4.5
36	MP5C	Mx	0.085	4.5
37	MP2A	X	39.086	1.5
38	MP2A	Z	22.567	1.5
39	MP2A	Mx	-0.02	1.5
40	MP2B	X	68.844	1.5
41	MP2B	Z	39.747	1.5
42	MP2B	Mx	0.02	1.5
43	MP2C	X	59.133	1.5
44	MP2C	Z	34.14	1.5
45	MP2C	Mx	0.022	1.5
46	RADIOA	X	39.699	0.5
47	RADIOA	Z	22.92	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	12.14	3
50	MP2A	Z	7.009	3
51	MP2A	Mx	0.006	3
52	MP2B	X	17.442	3
53	MP2B	Z	10.07	3
54	MP2B	Mx	-0.005	3
55	MP2C	X	15.712	3
56	MP2C	Z	9.071	3
57	MP2C	Mx	-0.006	3
58	MP3A	X	15.457	3
59	MP3A	Z	8.924	3
60	MP3A	Mx	0.008	3
61	MP3B	X	17.618	3
62	MP3B	Z	10.172	3
63	MP3B	Mx	-0.005	3
64	MP3C	X	16.913	3
65	MP3C	Z	9.765	3
66	MP3C	Mx	-0.006	3
67	RADIOB	X	39.699	0.5
68	RADIOB	Z	22.92	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	39.699	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	RADIOC	Z	22.92	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	22.64	1.5
74	MP3A	Z	13.071	1.5
75	MP3A	Mx	-0.011	1.5
76	MP3A	X	22.64	3.5
77	MP3A	Z	13.071	3.5
78	MP3A	Mx	-0.011	3.5
79	MP3B	X	36.943	1.5
80	MP3B	Z	21.329	1.5
81	MP3B	Mx	0.011	1.5
82	MP3B	X	36.943	3.5
83	MP3B	Z	21.329	3.5
84	MP3B	Mx	0.011	3.5
85	MP3C	X	32.275	1.5
86	MP3C	Z	18.634	1.5
87	MP3C	Mx	0.012	1.5
88	MP3C	X	32.275	3.5
89	MP3C	Z	18.634	3.5
90	MP3C	Mx	0.012	3.5
91	MP4A	X	35.582	3
92	MP4A	Z	20.544	3
93	MP4A	Mx	-0.021	3
94	MP4B	X	48.036	3
95	MP4B	Z	27.734	3
96	MP4B	Mx	0.014	3
97	MP4C	X	45.327	3
98	MP4C	Z	26.169	3
99	MP4C	Mx	0.017	3
100	MP5A	X	26.811	4
101	MP5A	Z	15.48	4
102	MP5A	Mx	-0.006	4
103	MP5B	X	26.811	4
104	MP5B	Z	15.48	4
105	MP5B	Mx	-0.006	4
106	MP5C	X	26.811	4
107	MP5C	Z	15.48	4
108	MP5C	Mx	-0.006	4
109	MP5A	X	26.811	4
110	MP5A	Z	15.48	4
111	MP5A	Mx	0.021	4
112	MP5B	X	26.811	4
113	MP5B	Z	15.48	4
114	MP5B	Mx	0.021	4
115	MP5C	X	26.811	4
116	MP5C	Z	15.48	4
117	MP5C	Mx	0.021	4
118	MP1A	X	63.526	1.6
119	MP1A	Z	36.677	1.6
120	MP1A	Mx	0.013	1.6
121	MP1B	X	63.526	1.6
122	MP1B	Z	36.677	1.6
123	MP1B	Mx	-0.013	1.6
124	MP1C	X	40.919	1.6
125	MP1C	Z	23.624	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
126	MP1C	Mx	0.022	1.6
127	DONOR	X	40.919	1.6
128	DONOR	Z	23.624	1.6
129	DONOR	Mx	-0.022	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	62.356	0.5
2	MP5A	Z	108.003	0.5
3	MP5A	Mx	-0.094	0.5
4	MP5A	X	62.356	4.5
5	MP5A	Z	108.003	4.5
6	MP5A	Mx	-0.094	4.5
7	MP5B	X	73.312	0.5
8	MP5B	Z	126.981	0.5
9	MP5B	Mx	0.086	0.5
10	MP5B	X	73.312	4.5
11	MP5B	Z	126.981	4.5
12	MP5B	Mx	0.086	4.5
13	MP5C	X	34.613	0.5
14	MP5C	Z	59.951	0.5
15	MP5C	Mx	0.019	0.5
16	MP5C	X	34.613	4.5
17	MP5C	Z	59.951	4.5
18	MP5C	Mx	0.019	4.5
19	MP5A	X	62.356	0.5
20	MP5A	Z	108.003	0.5
21	MP5A	Mx	0.032	0.5
22	MP5A	X	62.356	4.5
23	MP5A	Z	108.003	4.5
24	MP5A	Mx	0.032	4.5
25	MP5B	X	73.312	0.5
26	MP5B	Z	126.981	0.5
27	MP5B	Mx	-0.086	0.5
28	MP5B	X	73.312	4.5
29	MP5B	Z	126.981	4.5
30	MP5B	Mx	-0.086	4.5
31	MP5C	X	34.613	0.5
32	MP5C	Z	59.951	0.5
33	MP5C	Mx	0.046	0.5
34	MP5C	X	34.613	4.5
35	MP5C	Z	59.951	4.5
36	MP5C	Mx	0.046	4.5
37	MP2A	X	39.747	1.5
38	MP2A	Z	68.844	1.5
39	MP2A	Mx	-0.02	1.5
40	MP2B	X	48.338	1.5
41	MP2B	Z	83.724	1.5
42	MP2B	Mx	0	1.5
43	MP2C	X	17.996	1.5
44	MP2C	Z	31.17	1.5
45	MP2C	Mx	0.017	1.5
46	RADIOA	X	24.975	0.5
47	RADIOA	Z	43.257	0.5
48	RADIOA	Mx	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2A	X	10.07	3
50	MP2A	Z	17.442	3
51	MP2A	Mx	0.005	3
52	MP2B	X	11.601	3
53	MP2B	Z	20.094	3
54	MP2B	Mx	0	3
55	MP2C	X	6.195	3
56	MP2C	Z	10.729	3
57	MP2C	Mx	-0.006	3
58	MP3A	X	10.172	3
59	MP3A	Z	17.618	3
60	MP3A	Mx	0.005	3
61	MP3B	X	10.795	3
62	MP3B	Z	18.698	3
63	MP3B	Mx	0	3
64	MP3C	X	8.592	3
65	MP3C	Z	14.883	3
66	MP3C	Mx	-0.008	3
67	RADIOB	X	24.975	0.5
68	RADIOB	Z	43.257	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	24.975	0.5
71	RADIOC	Z	43.257	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	21.329	1.5
74	MP3A	Z	36.943	1.5
75	MP3A	Mx	-0.011	1.5
76	MP3A	X	21.329	3.5
77	MP3A	Z	36.943	3.5
78	MP3A	Mx	-0.011	3.5
79	MP3B	X	25.458	1.5
80	MP3B	Z	44.094	1.5
81	MP3B	Mx	0	1.5
82	MP3B	X	25.458	3.5
83	MP3B	Z	44.094	3.5
84	MP3B	Mx	0	3.5
85	MP3C	X	10.874	1.5
86	MP3C	Z	18.835	1.5
87	MP3C	Mx	0.01	1.5
88	MP3C	X	10.874	3.5
89	MP3C	Z	18.835	3.5
90	MP3C	Mx	0.01	3.5
91	MP4A	X	22.94	3
92	MP4A	Z	39.734	3
93	MP4A	Mx	-0.02	3
94	MP4B	X	30.131	3
95	MP4B	Z	52.188	3
96	MP4B	Mx	0	3
97	MP4C	X	21.665	3
98	MP4C	Z	37.525	3
99	MP4C	Mx	0.02	3
100	MP5A	X	15.468	4
101	MP5A	Z	26.792	4
102	MP5A	Mx	-0.015	4
103	MP5B	X	15.468	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5B	Z	26.792	4
105	MP5B	Mx	-0.015	4
106	MP5C	X	15.468	4
107	MP5C	Z	26.792	4
108	MP5C	Mx	-0.015	4
109	MP5A	X	15.468	4
110	MP5A	Z	26.792	4
111	MP5A	Mx	0.015	4
112	MP5B	X	15.468	4
113	MP5B	Z	26.792	4
114	MP5B	Mx	0.015	4
115	MP5C	X	15.468	4
116	MP5C	Z	26.792	4
117	MP5C	Mx	0.015	4
118	MP1A	X	28.671	1.6
119	MP1A	Z	49.66	1.6
120	MP1A	Mx	0.022	1.6
121	MP1B	X	28.671	1.6
122	MP1B	Z	49.66	1.6
123	MP1B	Mx	-0.022	1.6
124	MP1C	X	31.63	1.6
125	MP1C	Z	54.785	1.6
126	MP1C	Mx	0.02	1.6
127	DONOR	X	31.63	1.6
128	DONOR	Z	54.785	1.6
129	DONOR	Mx	-0.02	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	0	0.5
2	MP5A	Z	146.625	0.5
3	MP5A	Mx	-0.086	0.5
4	MP5A	X	0	4.5
5	MP5A	Z	146.625	4.5
6	MP5A	Mx	-0.086	4.5
7	MP5B	X	0	0.5
8	MP5B	Z	124.711	0.5
9	MP5B	Mx	0.032	0.5
10	MP5B	X	0	4.5
11	MP5B	Z	124.711	4.5
12	MP5B	Mx	0.032	4.5
13	MP5C	X	0	0.5
14	MP5C	Z	61.615	0.5
15	MP5C	Mx	0.037	0.5
16	MP5C	X	0	4.5
17	MP5C	Z	61.615	4.5
18	MP5C	Mx	0.037	4.5
19	MP5A	X	0	0.5
20	MP5A	Z	146.625	0.5
21	MP5A	Mx	0.086	0.5
22	MP5A	X	0	4.5
23	MP5A	Z	146.625	4.5
24	MP5A	Mx	0.086	4.5
25	MP5B	X	0	0.5
26	MP5B	Z	124.711	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP5B	Mx	-0.094	0.5
28	MP5B	X	0	4.5
29	MP5B	Z	124.711	4.5
30	MP5B	Mx	-0.094	4.5
31	MP5C	X	0	0.5
32	MP5C	Z	61.615	0.5
33	MP5C	Mx	0.024	0.5
34	MP5C	X	0	4.5
35	MP5C	Z	61.615	4.5
36	MP5C	Mx	0.024	4.5
37	MP2A	X	0	1.5
38	MP2A	Z	96.676	1.5
39	MP2A	Mx	0	1.5
40	MP2B	X	0	1.5
41	MP2B	Z	79.495	1.5
42	MP2B	Mx	-0.02	1.5
43	MP2C	X	0	1.5
44	MP2C	Z	30.025	1.5
45	MP2C	Mx	0.015	1.5
46	RADIOA	X	0	0.5
47	RADIOA	Z	45.84	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	0	3
50	MP2A	Z	23.202	3
51	MP2A	Mx	0	3
52	MP2B	X	0	3
53	MP2B	Z	20.141	3
54	MP2B	Mx	0.005	3
55	MP2C	X	0	3
56	MP2C	Z	11.326	3
57	MP2C	Mx	-0.006	3
58	MP3A	X	0	3
59	MP3A	Z	21.591	3
60	MP3A	Mx	0	3
61	MP3B	X	0	3
62	MP3B	Z	20.343	3
63	MP3B	Mx	0.005	3
64	MP3C	X	0	3
65	MP3C	Z	16.752	3
66	MP3C	Mx	-0.008	3
67	RADIOB	X	0	0.5
68	RADIOB	Z	45.84	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	0	0.5
71	RADIOC	Z	45.84	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	0	1.5
74	MP3A	Z	50.916	1.5
75	MP3A	Mx	0	1.5
76	MP3A	X	0	3.5
77	MP3A	Z	50.916	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	1.5
80	MP3B	Z	42.658	1.5
81	MP3B	Mx	-0.011	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP3B	X	0	3.5
83	MP3B	Z	42.658	3.5
84	MP3B	Mx	-0.011	3.5
85	MP3C	X	0	1.5
86	MP3C	Z	18.881	1.5
87	MP3C	Mx	0.009	1.5
88	MP3C	X	0	3.5
89	MP3C	Z	18.881	3.5
90	MP3C	Mx	0.009	3.5
91	MP4A	X	0	3
92	MP4A	Z	55.468	3
93	MP4A	Mx	-0.014	3
94	MP4B	X	0	3
95	MP4B	Z	55.468	3
96	MP4B	Mx	-0.014	3
97	MP4C	X	0	3
98	MP4C	Z	41.665	3
99	MP4C	Mx	0.021	3
100	MP5A	X	0	4
101	MP5A	Z	30.959	4
102	MP5A	Mx	-0.021	4
103	MP5B	X	0	4
104	MP5B	Z	30.959	4
105	MP5B	Mx	-0.021	4
106	MP5C	X	0	4
107	MP5C	Z	30.959	4
108	MP5C	Mx	-0.021	4
109	MP5A	X	0	4
110	MP5A	Z	30.959	4
111	MP5A	Mx	0.006	4
112	MP5B	X	0	4
113	MP5B	Z	30.959	4
114	MP5B	Mx	0.006	4
115	MP5C	X	0	4
116	MP5C	Z	30.959	4
117	MP5C	Mx	0.006	4
118	MP1A	X	0	1.6
119	MP1A	Z	44.29	1.6
120	MP1A	Mx	0.022	1.6
121	MP1B	X	0	1.6
122	MP1B	Z	44.29	1.6
123	MP1B	Mx	-0.022	1.6
124	MP1C	X	0	1.6
125	MP1C	Z	76.313	1.6
126	MP1C	Mx	0.007	1.6
127	DONOR	X	0	1.6
128	DONOR	Z	76.313	1.6
129	DONOR	Mx	-0.007	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-62.356	0.5
2	MP5A	Z	108.003	0.5
3	MP5A	Mx	-0.032	0.5
4	MP5A	X	-62.356	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP5A	Z	108.003	4.5
6	MP5A	Mx	-0.032	4.5
7	MP5B	X	-40.443	0.5
8	MP5B	Z	70.049	0.5
9	MP5B	Mx	-0.011	0.5
10	MP5B	X	-40.443	4.5
11	MP5B	Z	70.049	4.5
12	MP5B	Mx	-0.011	4.5
13	MP5C	X	-47.594	0.5
14	MP5C	Z	82.435	0.5
15	MP5C	Mx	0.072	0.5
16	MP5C	X	-47.594	4.5
17	MP5C	Z	82.435	4.5
18	MP5C	Mx	0.072	4.5
19	MP5A	X	-62.356	0.5
20	MP5A	Z	108.003	0.5
21	MP5A	Mx	0.094	0.5
22	MP5A	X	-62.356	4.5
23	MP5A	Z	108.003	4.5
24	MP5A	Mx	0.094	4.5
25	MP5B	X	-40.443	0.5
26	MP5B	Z	70.049	0.5
27	MP5B	Mx	-0.059	0.5
28	MP5B	X	-40.443	4.5
29	MP5B	Z	70.049	4.5
30	MP5B	Mx	-0.059	4.5
31	MP5C	X	-47.594	0.5
32	MP5C	Z	82.435	0.5
33	MP5C	Mx	0.000767	0.5
34	MP5C	X	-47.594	4.5
35	MP5C	Z	82.435	4.5
36	MP5C	Mx	0.000767	4.5
37	MP2A	X	-39.747	1.5
38	MP2A	Z	68.844	1.5
39	MP2A	Mx	0.02	1.5
40	MP2B	X	-22.567	1.5
41	MP2B	Z	39.086	1.5
42	MP2B	Mx	-0.02	1.5
43	MP2C	X	-28.174	1.5
44	MP2C	Z	48.798	1.5
45	MP2C	Mx	0.022	1.5
46	RADIOA	X	-18.811	0.5
47	RADIOA	Z	32.582	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-10.07	3
50	MP2A	Z	17.442	3
51	MP2A	Mx	-0.005	3
52	MP2B	X	-7.009	3
53	MP2B	Z	12.14	3
54	MP2B	Mx	0.006	3
55	MP2C	X	-8.008	3
56	MP2C	Z	13.87	3
57	MP2C	Mx	-0.006	3
58	MP3A	X	-10.172	3
59	MP3A	Z	17.618	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3A	Mx	-0.005	3
61	MP3B	X	-8.924	3
62	MP3B	Z	15.457	3
63	MP3B	Mx	0.008	3
64	MP3C	X	-9.331	3
65	MP3C	Z	16.162	3
66	MP3C	Mx	-0.007	3
67	RADIOB	X	-18.811	0.5
68	RADIOB	Z	32.582	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-18.811	0.5
71	RADIOC	Z	32.582	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-21.329	1.5
74	MP3A	Z	36.943	1.5
75	MP3A	Mx	0.011	1.5
76	MP3A	X	-21.329	3.5
77	MP3A	Z	36.943	3.5
78	MP3A	Mx	0.011	3.5
79	MP3B	X	-13.071	1.5
80	MP3B	Z	22.64	1.5
81	MP3B	Mx	-0.011	1.5
82	MP3B	X	-13.071	3.5
83	MP3B	Z	22.64	3.5
84	MP3B	Mx	-0.011	3.5
85	MP3C	X	-15.766	1.5
86	MP3C	Z	27.308	1.5
87	MP3C	Mx	0.012	1.5
88	MP3C	X	-15.766	3.5
89	MP3C	Z	27.308	3.5
90	MP3C	Mx	0.012	3.5
91	MP4A	X	-30.131	3
92	MP4A	Z	52.188	3
93	MP4A	Mx	0	3
94	MP4B	X	-22.94	3
95	MP4B	Z	39.734	3
96	MP4B	Mx	-0.02	3
97	MP4C	X	-24.505	3
98	MP4C	Z	42.443	3
99	MP4C	Mx	0.019	3
100	MP5A	X	-15.502	4
101	MP5A	Z	26.851	4
102	MP5A	Mx	-0.021	4
103	MP5B	X	-15.502	4
104	MP5B	Z	26.851	4
105	MP5B	Mx	-0.021	4
106	MP5C	X	-15.502	4
107	MP5C	Z	26.851	4
108	MP5C	Mx	-0.021	4
109	MP5A	X	-15.502	4
110	MP5A	Z	26.851	4
111	MP5A	Mx	-0.006	4
112	MP5B	X	-15.502	4
113	MP5B	Z	26.851	4
114	MP5B	Mx	-0.006	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
115	MP5C	X	-15.502	4
116	MP5C	Z	26.851	4
117	MP5C	Mx	-0.006	4
118	MP1A	X	-23.624	1.6
119	MP1A	Z	40.919	1.6
120	MP1A	Mx	0.022	1.6
121	MP1B	X	-23.624	1.6
122	MP1B	Z	40.919	1.6
123	MP1B	Mx	-0.022	1.6
124	MP1C	X	-36.677	1.6
125	MP1C	Z	63.526	1.6
126	MP1C	Mx	-0.013	1.6
127	DONOR	X	-36.677	1.6
128	DONOR	Z	63.526	1.6
129	DONOR	Mx	0.013	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-70.049	0.5
2	MP5A	Z	40.443	0.5
3	MP5A	Mx	0.011	0.5
4	MP5A	X	-70.049	4.5
5	MP5A	Z	40.443	4.5
6	MP5A	Mx	0.011	4.5
7	MP5B	X	-51.071	0.5
8	MP5B	Z	29.486	0.5
9	MP5B	Mx	-0.029	0.5
10	MP5B	X	-51.071	4.5
11	MP5B	Z	29.486	4.5
12	MP5B	Mx	-0.029	4.5
13	MP5C	X	-118.101	0.5
14	MP5C	Z	68.186	0.5
15	MP5C	Mx	0.098	0.5
16	MP5C	X	-118.101	4.5
17	MP5C	Z	68.186	4.5
18	MP5C	Mx	0.098	4.5
19	MP5A	X	-70.049	0.5
20	MP5A	Z	40.443	0.5
21	MP5A	Mx	0.059	0.5
22	MP5A	X	-70.049	4.5
23	MP5A	Z	40.443	4.5
24	MP5A	Mx	0.059	4.5
25	MP5B	X	-51.071	0.5
26	MP5B	Z	29.486	0.5
27	MP5B	Mx	-0.029	0.5
28	MP5B	X	-51.071	4.5
29	MP5B	Z	29.486	4.5
30	MP5B	Mx	-0.029	4.5
31	MP5C	X	-118.101	0.5
32	MP5C	Z	68.186	0.5
33	MP5C	Mx	-0.051	0.5
34	MP5C	X	-118.101	4.5
35	MP5C	Z	68.186	4.5
36	MP5C	Mx	-0.051	4.5
37	MP2A	X	-39.086	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2A	Z	22.567	1.5
39	MP2A	Mx	0.02	1.5
40	MP2B	X	-24.207	1.5
41	MP2B	Z	13.976	1.5
42	MP2B	Mx	-0.014	1.5
43	MP2C	X	-76.761	1.5
44	MP2C	Z	44.318	1.5
45	MP2C	Mx	0.015	1.5
46	RADIOA	X	-29.024	0.5
47	RADIOA	Z	16.757	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-12.14	3
50	MP2A	Z	7.009	3
51	MP2A	Mx	-0.006	3
52	MP2B	X	-9.489	3
53	MP2B	Z	5.478	3
54	MP2B	Mx	0.005	3
55	MP2C	X	-18.853	3
56	MP2C	Z	10.885	3
57	MP2C	Mx	-0.004	3
58	MP3A	X	-15.457	3
59	MP3A	Z	8.924	3
60	MP3A	Mx	-0.008	3
61	MP3B	X	-14.377	3
62	MP3B	Z	8.301	3
63	MP3B	Mx	0.008	3
64	MP3C	X	-18.193	3
65	MP3C	Z	10.504	3
66	MP3C	Mx	-0.004	3
67	RADIOB	X	-29.024	0.5
68	RADIOB	Z	16.757	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-29.024	0.5
71	RADIOC	Z	16.757	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-22.64	1.5
74	MP3A	Z	13.071	1.5
75	MP3A	Mx	0.011	1.5
76	MP3A	X	-22.64	3.5
77	MP3A	Z	13.071	3.5
78	MP3A	Mx	0.011	3.5
79	MP3B	X	-15.489	1.5
80	MP3B	Z	8.942	1.5
81	MP3B	Mx	-0.009	1.5
82	MP3B	X	-15.489	3.5
83	MP3B	Z	8.942	3.5
84	MP3B	Mx	-0.009	3.5
85	MP3C	X	-40.748	1.5
86	MP3C	Z	23.526	1.5
87	MP3C	Mx	0.008	1.5
88	MP3C	X	-40.748	3.5
89	MP3C	Z	23.526	3.5
90	MP3C	Mx	0.008	3.5
91	MP4A	X	-48.036	3
92	MP4A	Z	27.734	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP4A	Mx	0.014	3
94	MP4B	X	-35.582	3
95	MP4B	Z	20.544	3
96	MP4B	Mx	-0.021	3
97	MP4C	X	-50.245	3
98	MP4C	Z	29.009	3
99	MP4C	Mx	0.01	3
100	MP5A	X	-26.871	4
101	MP5A	Z	15.514	4
102	MP5A	Mx	-0.016	4
103	MP5B	X	-26.871	4
104	MP5B	Z	15.514	4
105	MP5B	Mx	-0.016	4
106	MP5C	X	-26.871	4
107	MP5C	Z	15.514	4
108	MP5C	Mx	-0.016	4
109	MP5A	X	-26.871	4
110	MP5A	Z	15.514	4
111	MP5A	Mx	-0.016	4
112	MP5B	X	-26.871	4
113	MP5B	Z	15.514	4
114	MP5B	Mx	-0.016	4
115	MP5C	X	-26.871	4
116	MP5C	Z	15.514	4
117	MP5C	Mx	-0.016	4
118	MP1A	X	-54.785	1.6
119	MP1A	Z	31.63	1.6
120	MP1A	Mx	0.02	1.6
121	MP1B	X	-54.785	1.6
122	MP1B	Z	31.63	1.6
123	MP1B	Mx	-0.02	1.6
124	MP1C	X	-49.66	1.6
125	MP1C	Z	28.671	1.6
126	MP1C	Mx	-0.022	1.6
127	DONOR	X	-49.66	1.6
128	DONOR	Z	28.671	1.6
129	DONOR	Mx	0.022	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-58.972	0.5
2	MP5A	Z	0	0.5
3	MP5A	Mx	0.029	0.5
4	MP5A	X	-58.972	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	0.029	4.5
7	MP5B	X	-80.885	0.5
8	MP5B	Z	0	0.5
9	MP5B	Mx	-0.059	0.5
10	MP5B	X	-80.885	4.5
11	MP5B	Z	0	4.5
12	MP5B	Mx	-0.059	4.5
13	MP5C	X	-143.982	0.5
14	MP5C	Z	0	0.5
15	MP5C	Mx	0.07	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP5C	X	-143.982	4.5
17	MP5C	Z	0	4.5
18	MP5C	Mx	0.07	4.5
19	MP5A	X	-58.972	0.5
20	MP5A	Z	0	0.5
21	MP5A	Mx	0.029	0.5
22	MP5A	X	-58.972	4.5
23	MP5A	Z	0	4.5
24	MP5A	Mx	0.029	4.5
25	MP5B	X	-80.885	0.5
26	MP5B	Z	0	0.5
27	MP5B	Mx	-0.011	0.5
28	MP5B	X	-80.885	4.5
29	MP5B	Z	0	4.5
30	MP5B	Mx	-0.011	4.5
31	MP5C	X	-143.982	0.5
32	MP5C	Z	0	0.5
33	MP5C	Mx	-0.095	0.5
34	MP5C	X	-143.982	4.5
35	MP5C	Z	0	4.5
36	MP5C	Mx	-0.095	4.5
37	MP2A	X	-27.952	1.5
38	MP2A	Z	0	1.5
39	MP2A	Mx	0.014	1.5
40	MP2B	X	-45.133	1.5
41	MP2B	Z	0	1.5
42	MP2B	Mx	-0.02	1.5
43	MP2C	X	-94.603	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	-0.008	1.5
46	RADIOA	X	-37.623	0.5
47	RADIOA	Z	0	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-10.957	3
50	MP2A	Z	0	3
51	MP2A	Mx	-0.005	3
52	MP2B	X	-14.018	3
53	MP2B	Z	0	3
54	MP2B	Mx	0.006	3
55	MP2C	X	-22.833	3
56	MP2C	Z	0	3
57	MP2C	Mx	0.002	3
58	MP3A	X	-16.601	3
59	MP3A	Z	0	3
60	MP3A	Mx	-0.008	3
61	MP3B	X	-17.849	3
62	MP3B	Z	0	3
63	MP3B	Mx	0.008	3
64	MP3C	X	-21.44	3
65	MP3C	Z	0	3
66	MP3C	Mx	0.002	3
67	RADIOB	X	-37.623	0.5
68	RADIOB	Z	0	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-37.623	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	RADIOC	Z	0	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-17.885	1.5
74	MP3A	Z	0	1.5
75	MP3A	Mx	0.009	1.5
76	MP3A	X	-17.885	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	0.009	3.5
79	MP3B	X	-26.143	1.5
80	MP3B	Z	0	1.5
81	MP3B	Mx	-0.011	1.5
82	MP3B	X	-26.143	3.5
83	MP3B	Z	0	3.5
84	MP3B	Mx	-0.011	3.5
85	MP3C	X	-49.92	1.5
86	MP3C	Z	0	1.5
87	MP3C	Mx	-0.004	1.5
88	MP3C	X	-49.92	3.5
89	MP3C	Z	0	3.5
90	MP3C	Mx	-0.004	3.5
91	MP4A	X	-45.881	3
92	MP4A	Z	0	3
93	MP4A	Mx	0.02	3
94	MP4B	X	-45.881	3
95	MP4B	Z	0	3
96	MP4B	Mx	-0.02	3
97	MP4C	X	-59.683	3
98	MP4C	Z	0	3
99	MP4C	Mx	-0.005	3
100	MP5A	X	-31.005	4
101	MP5A	Z	0	4
102	MP5A	Mx	-0.006	4
103	MP5B	X	-31.005	4
104	MP5B	Z	0	4
105	MP5B	Mx	-0.006	4
106	MP5C	X	-31.005	4
107	MP5C	Z	0	4
108	MP5C	Mx	-0.006	4
109	MP5A	X	-31.005	4
110	MP5A	Z	0	4
111	MP5A	Mx	-0.021	4
112	MP5B	X	-31.005	4
113	MP5B	Z	0	4
114	MP5B	Mx	-0.021	4
115	MP5C	X	-31.005	4
116	MP5C	Z	0	4
117	MP5C	Mx	-0.021	4
118	MP1A	X	-76.313	1.6
119	MP1A	Z	0	1.6
120	MP1A	Mx	0.007	1.6
121	MP1B	X	-76.313	1.6
122	MP1B	Z	0	1.6
123	MP1B	Mx	-0.007	1.6
124	MP1C	X	-44.29	1.6
125	MP1C	Z	0	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
126	MP1C	Mx	-0.022	1.6
127	DONOR	X	-44.29	1.6
128	DONOR	Z	0	1.6
129	DONOR	Mx	0.022	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-70.049	0.5
2	MP5A	Z	-40.443	0.5
3	MP5A	Mx	0.059	0.5
4	MP5A	X	-70.049	4.5
5	MP5A	Z	-40.443	4.5
6	MP5A	Mx	0.059	4.5
7	MP5B	X	-108.003	0.5
8	MP5B	Z	-62.356	0.5
9	MP5B	Mx	-0.094	0.5
10	MP5B	X	-108.003	4.5
11	MP5B	Z	-62.356	4.5
12	MP5B	Mx	-0.094	4.5
13	MP5C	X	-95.617	0.5
14	MP5C	Z	-55.204	0.5
15	MP5C	Mx	0.014	0.5
16	MP5C	X	-95.617	4.5
17	MP5C	Z	-55.204	4.5
18	MP5C	Mx	0.014	4.5
19	MP5A	X	-70.049	0.5
20	MP5A	Z	-40.443	0.5
21	MP5A	Mx	0.011	0.5
22	MP5A	X	-70.049	4.5
23	MP5A	Z	-40.443	4.5
24	MP5A	Mx	0.011	4.5
25	MP5B	X	-108.003	0.5
26	MP5B	Z	-62.356	0.5
27	MP5B	Mx	0.032	0.5
28	MP5B	X	-108.003	4.5
29	MP5B	Z	-62.356	4.5
30	MP5B	Mx	0.032	4.5
31	MP5C	X	-95.617	0.5
32	MP5C	Z	-55.204	0.5
33	MP5C	Mx	-0.085	0.5
34	MP5C	X	-95.617	4.5
35	MP5C	Z	-55.204	4.5
36	MP5C	Mx	-0.085	4.5
37	MP2A	X	-39.086	1.5
38	MP2A	Z	-22.567	1.5
39	MP2A	Mx	0.02	1.5
40	MP2B	X	-68.844	1.5
41	MP2B	Z	-39.747	1.5
42	MP2B	Mx	-0.02	1.5
43	MP2C	X	-59.133	1.5
44	MP2C	Z	-34.14	1.5
45	MP2C	Mx	-0.022	1.5
46	RADIOA	X	-39.699	0.5
47	RADIOA	Z	-22.92	0.5
48	RADIOA	Mx	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2A	X	-12.14	3
50	MP2A	Z	-7.009	3
51	MP2A	Mx	-0.006	3
52	MP2B	X	-17.442	3
53	MP2B	Z	-10.07	3
54	MP2B	Mx	0.005	3
55	MP2C	X	-15.712	3
56	MP2C	Z	-9.071	3
57	MP2C	Mx	0.006	3
58	MP3A	X	-15.457	3
59	MP3A	Z	-8.924	3
60	MP3A	Mx	-0.008	3
61	MP3B	X	-17.618	3
62	MP3B	Z	-10.172	3
63	MP3B	Mx	0.005	3
64	MP3C	X	-16.913	3
65	MP3C	Z	-9.765	3
66	MP3C	Mx	0.006	3
67	RADIOB	X	-39.699	0.5
68	RADIOB	Z	-22.92	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-39.699	0.5
71	RADIOC	Z	-22.92	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-22.64	1.5
74	MP3A	Z	-13.071	1.5
75	MP3A	Mx	0.011	1.5
76	MP3A	X	-22.64	3.5
77	MP3A	Z	-13.071	3.5
78	MP3A	Mx	0.011	3.5
79	MP3B	X	-36.943	1.5
80	MP3B	Z	-21.329	1.5
81	MP3B	Mx	-0.011	1.5
82	MP3B	X	-36.943	3.5
83	MP3B	Z	-21.329	3.5
84	MP3B	Mx	-0.011	3.5
85	MP3C	X	-32.275	1.5
86	MP3C	Z	-18.634	1.5
87	MP3C	Mx	-0.012	1.5
88	MP3C	X	-32.275	3.5
89	MP3C	Z	-18.634	3.5
90	MP3C	Mx	-0.012	3.5
91	MP4A	X	-35.582	3
92	MP4A	Z	-20.544	3
93	MP4A	Mx	0.021	3
94	MP4B	X	-48.036	3
95	MP4B	Z	-27.734	3
96	MP4B	Mx	-0.014	3
97	MP4C	X	-45.327	3
98	MP4C	Z	-26.169	3
99	MP4C	Mx	-0.017	3
100	MP5A	X	-26.811	4
101	MP5A	Z	-15.48	4
102	MP5A	Mx	0.006	4
103	MP5B	X	-26.811	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5B	Z	-15.48	4
105	MP5B	Mx	0.006	4
106	MP5C	X	-26.811	4
107	MP5C	Z	-15.48	4
108	MP5C	Mx	0.006	4
109	MP5A	X	-26.811	4
110	MP5A	Z	-15.48	4
111	MP5A	Mx	-0.021	4
112	MP5B	X	-26.811	4
113	MP5B	Z	-15.48	4
114	MP5B	Mx	-0.021	4
115	MP5C	X	-26.811	4
116	MP5C	Z	-15.48	4
117	MP5C	Mx	-0.021	4
118	MP1A	X	-63.526	1.6
119	MP1A	Z	-36.677	1.6
120	MP1A	Mx	-0.013	1.6
121	MP1B	X	-63.526	1.6
122	MP1B	Z	-36.677	1.6
123	MP1B	Mx	0.013	1.6
124	MP1C	X	-40.919	1.6
125	MP1C	Z	-23.624	1.6
126	MP1C	Mx	-0.022	1.6
127	DONOR	X	-40.919	1.6
128	DONOR	Z	-23.624	1.6
129	DONOR	Mx	0.022	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-62.356	0.5
2	MP5A	Z	-108.003	0.5
3	MP5A	Mx	0.094	0.5
4	MP5A	X	-62.356	4.5
5	MP5A	Z	-108.003	4.5
6	MP5A	Mx	0.094	4.5
7	MP5B	X	-73.312	0.5
8	MP5B	Z	-126.981	0.5
9	MP5B	Mx	-0.086	0.5
10	MP5B	X	-73.312	4.5
11	MP5B	Z	-126.981	4.5
12	MP5B	Mx	-0.086	4.5
13	MP5C	X	-34.613	0.5
14	MP5C	Z	-59.951	0.5
15	MP5C	Mx	-0.019	0.5
16	MP5C	X	-34.613	4.5
17	MP5C	Z	-59.951	4.5
18	MP5C	Mx	-0.019	4.5
19	MP5A	X	-62.356	0.5
20	MP5A	Z	-108.003	0.5
21	MP5A	Mx	-0.032	0.5
22	MP5A	X	-62.356	4.5
23	MP5A	Z	-108.003	4.5
24	MP5A	Mx	-0.032	4.5
25	MP5B	X	-73.312	0.5
26	MP5B	Z	-126.981	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP5B	Mx	0.086	0.5
28	MP5B	X	-73.312	4.5
29	MP5B	Z	-126.981	4.5
30	MP5B	Mx	0.086	4.5
31	MP5C	X	-34.613	0.5
32	MP5C	Z	-59.951	0.5
33	MP5C	Mx	-0.046	0.5
34	MP5C	X	-34.613	4.5
35	MP5C	Z	-59.951	4.5
36	MP5C	Mx	-0.046	4.5
37	MP2A	X	-39.747	1.5
38	MP2A	Z	-68.844	1.5
39	MP2A	Mx	0.02	1.5
40	MP2B	X	-48.338	1.5
41	MP2B	Z	-83.724	1.5
42	MP2B	Mx	0	1.5
43	MP2C	X	-17.996	1.5
44	MP2C	Z	-31.17	1.5
45	MP2C	Mx	-0.017	1.5
46	RADIOA	X	-24.975	0.5
47	RADIOA	Z	-43.257	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-10.07	3
50	MP2A	Z	-17.442	3
51	MP2A	Mx	-0.005	3
52	MP2B	X	-11.601	3
53	MP2B	Z	-20.094	3
54	MP2B	Mx	0	3
55	MP2C	X	-6.195	3
56	MP2C	Z	-10.729	3
57	MP2C	Mx	0.006	3
58	MP3A	X	-10.172	3
59	MP3A	Z	-17.618	3
60	MP3A	Mx	-0.005	3
61	MP3B	X	-10.795	3
62	MP3B	Z	-18.698	3
63	MP3B	Mx	0	3
64	MP3C	X	-8.592	3
65	MP3C	Z	-14.883	3
66	MP3C	Mx	0.008	3
67	RADIOB	X	-24.975	0.5
68	RADIOB	Z	-43.257	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-24.975	0.5
71	RADIOC	Z	-43.257	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-21.329	1.5
74	MP3A	Z	-36.943	1.5
75	MP3A	Mx	0.011	1.5
76	MP3A	X	-21.329	3.5
77	MP3A	Z	-36.943	3.5
78	MP3A	Mx	0.011	3.5
79	MP3B	X	-25.458	1.5
80	MP3B	Z	-44.094	1.5
81	MP3B	Mx	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP3B	X	-25.458	3.5
83	MP3B	Z	-44.094	3.5
84	MP3B	Mx	0	3.5
85	MP3C	X	-10.874	1.5
86	MP3C	Z	-18.835	1.5
87	MP3C	Mx	-0.01	1.5
88	MP3C	X	-10.874	3.5
89	MP3C	Z	-18.835	3.5
90	MP3C	Mx	-0.01	3.5
91	MP4A	X	-22.94	3
92	MP4A	Z	-39.734	3
93	MP4A	Mx	0.02	3
94	MP4B	X	-30.131	3
95	MP4B	Z	-52.188	3
96	MP4B	Mx	0	3
97	MP4C	X	-21.665	3
98	MP4C	Z	-37.525	3
99	MP4C	Mx	-0.02	3
100	MP5A	X	-15.468	4
101	MP5A	Z	-26.792	4
102	MP5A	Mx	0.015	4
103	MP5B	X	-15.468	4
104	MP5B	Z	-26.792	4
105	MP5B	Mx	0.015	4
106	MP5C	X	-15.468	4
107	MP5C	Z	-26.792	4
108	MP5C	Mx	0.015	4
109	MP5A	X	-15.468	4
110	MP5A	Z	-26.792	4
111	MP5A	Mx	-0.015	4
112	MP5B	X	-15.468	4
113	MP5B	Z	-26.792	4
114	MP5B	Mx	-0.015	4
115	MP5C	X	-15.468	4
116	MP5C	Z	-26.792	4
117	MP5C	Mx	-0.015	4
118	MP1A	X	-28.671	1.6
119	MP1A	Z	-49.66	1.6
120	MP1A	Mx	-0.022	1.6
121	MP1B	X	-28.671	1.6
122	MP1B	Z	-49.66	1.6
123	MP1B	Mx	0.022	1.6
124	MP1C	X	-31.63	1.6
125	MP1C	Z	-54.785	1.6
126	MP1C	Mx	-0.02	1.6
127	DONOR	X	-31.63	1.6
128	DONOR	Z	-54.785	1.6
129	DONOR	Mx	0.02	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	0	0.5
2	MP5A	Z	-38.751	0.5
3	MP5A	Mx	0.023	0.5
4	MP5A	X	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP5A	Z	-38.751	4.5
6	MP5A	Mx	0.023	4.5
7	MP5B	X	0	0.5
8	MP5B	Z	-35.7	0.5
9	MP5B	Mx	-0.009	0.5
10	MP5B	X	0	4.5
11	MP5B	Z	-35.7	4.5
12	MP5B	Mx	-0.009	4.5
13	MP5C	X	0	0.5
14	MP5C	Z	-26.918	0.5
15	MP5C	Mx	-0.016	0.5
16	MP5C	X	0	4.5
17	MP5C	Z	-26.918	4.5
18	MP5C	Mx	-0.016	4.5
19	MP5A	X	0	0.5
20	MP5A	Z	-38.751	0.5
21	MP5A	Mx	-0.023	0.5
22	MP5A	X	0	4.5
23	MP5A	Z	-38.751	4.5
24	MP5A	Mx	-0.023	4.5
25	MP5B	X	0	0.5
26	MP5B	Z	-35.7	0.5
27	MP5B	Mx	0.027	0.5
28	MP5B	X	0	4.5
29	MP5B	Z	-35.7	4.5
30	MP5B	Mx	0.027	4.5
31	MP5C	X	0	0.5
32	MP5C	Z	-26.918	0.5
33	MP5C	Mx	-0.011	0.5
34	MP5C	X	0	4.5
35	MP5C	Z	-26.918	4.5
36	MP5C	Mx	-0.011	4.5
37	MP2A	X	0	1.5
38	MP2A	Z	-19.349	1.5
39	MP2A	Mx	0	1.5
40	MP2B	X	0	1.5
41	MP2B	Z	-16.141	1.5
42	MP2B	Mx	0.004	1.5
43	MP2C	X	0	1.5
44	MP2C	Z	-6.903	1.5
45	MP2C	Mx	-0.003	1.5
46	RADIOA	X	0	0.5
47	RADIOA	Z	-11.544	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	0	3
50	MP2A	Z	-7.113	3
51	MP2A	Mx	0	3
52	MP2B	X	0	3
53	MP2B	Z	-6.332	3
54	MP2B	Mx	-0.002	3
55	MP2C	X	0	3
56	MP2C	Z	-4.083	3
57	MP2C	Mx	0.002	3
58	MP3A	X	0	3
59	MP3A	Z	-5.484	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3A	Mx	0	3
61	MP3B	X	0	3
62	MP3B	Z	-5.138	3
63	MP3B	Mx	-0.001	3
64	MP3C	X	0	3
65	MP3C	Z	-4.142	3
66	MP3C	Mx	0.002	3
67	RADIOB	X	0	0.5
68	RADIOB	Z	-11.544	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	0	0.5
71	RADIOC	Z	-11.544	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	0	1.5
74	MP3A	Z	-12.104	1.5
75	MP3A	Mx	0	1.5
76	MP3A	X	0	3.5
77	MP3A	Z	-12.104	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	1.5
80	MP3B	Z	-10.355	1.5
81	MP3B	Mx	0.003	1.5
82	MP3B	X	0	3.5
83	MP3B	Z	-10.355	3.5
84	MP3B	Mx	0.003	3.5
85	MP3C	X	0	1.5
86	MP3C	Z	-5.317	1.5
87	MP3C	Mx	-0.003	1.5
88	MP3C	X	0	3.5
89	MP3C	Z	-5.317	3.5
90	MP3C	Mx	-0.003	3.5
91	MP4A	X	0	3
92	MP4A	Z	-11.582	3
93	MP4A	Mx	0.003	3
94	MP4B	X	0	3
95	MP4B	Z	-11.582	3
96	MP4B	Mx	0.003	3
97	MP4C	X	0	3
98	MP4C	Z	-8.951	3
99	MP4C	Mx	-0.004	3
100	MP5A	X	0	4
101	MP5A	Z	-3.652	4
102	MP5A	Mx	0.002	4
103	MP5B	X	0	4
104	MP5B	Z	-3.652	4
105	MP5B	Mx	0.002	4
106	MP5C	X	0	4
107	MP5C	Z	-3.652	4
108	MP5C	Mx	0.002	4
109	MP5A	X	0	4
110	MP5A	Z	-3.652	4
111	MP5A	Mx	-0.000668	4
112	MP5B	X	0	4
113	MP5B	Z	-3.652	4
114	MP5B	Mx	-0.000668	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
115	MP5C	X	0	4
116	MP5C	Z	-3.652	4
117	MP5C	Mx	-0.000668	4
118	MP1A	X	0	1.6
119	MP1A	Z	-9.516	1.6
120	MP1A	Mx	-0.005	1.6
121	MP1B	X	0	1.6
122	MP1B	Z	-9.516	1.6
123	MP1B	Mx	0.005	1.6
124	MP1C	X	0	1.6
125	MP1C	Z	-15.499	1.6
126	MP1C	Mx	-0.001	1.6
127	DONOR	X	0	1.6
128	DONOR	Z	-15.499	1.6
129	DONOR	Mx	0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	17.85	0.5
2	MP5A	Z	-30.917	0.5
3	MP5A	Mx	0.009	0.5
4	MP5A	X	17.85	4.5
5	MP5A	Z	-30.917	4.5
6	MP5A	Mx	0.009	4.5
7	MP5B	X	14.8	0.5
8	MP5B	Z	-25.634	0.5
9	MP5B	Mx	0.004	0.5
10	MP5B	X	14.8	4.5
11	MP5B	Z	-25.634	4.5
12	MP5B	Mx	0.004	4.5
13	MP5C	X	15.795	0.5
14	MP5C	Z	-27.359	0.5
15	MP5C	Mx	-0.024	0.5
16	MP5C	X	15.795	4.5
17	MP5C	Z	-27.359	4.5
18	MP5C	Mx	-0.024	4.5
19	MP5A	X	17.85	0.5
20	MP5A	Z	-30.917	0.5
21	MP5A	Mx	-0.027	0.5
22	MP5A	X	17.85	4.5
23	MP5A	Z	-30.917	4.5
24	MP5A	Mx	-0.027	4.5
25	MP5B	X	14.8	0.5
26	MP5B	Z	-25.634	0.5
27	MP5B	Mx	0.021	0.5
28	MP5B	X	14.8	4.5
29	MP5B	Z	-25.634	4.5
30	MP5B	Mx	0.021	4.5
31	MP5C	X	15.795	0.5
32	MP5C	Z	-27.359	0.5
33	MP5C	Mx	-0.000255	0.5
34	MP5C	X	15.795	4.5
35	MP5C	Z	-27.359	4.5
36	MP5C	Mx	-0.000255	4.5
37	MP2A	X	8.071	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2A	Z	-13.979	1.5
39	MP2A	Mx	-0.004	1.5
40	MP2B	X	4.862	1.5
41	MP2B	Z	-8.422	1.5
42	MP2B	Mx	0.004	1.5
43	MP2C	X	5.909	1.5
44	MP2C	Z	-10.235	1.5
45	MP2C	Mx	-0.005	1.5
46	RADIOA	X	4.82	0.5
47	RADIOA	Z	-8.349	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	3.166	3
50	MP2A	Z	-5.484	3
51	MP2A	Mx	0.002	3
52	MP2B	X	2.385	3
53	MP2B	Z	-4.131	3
54	MP2B	Mx	-0.002	3
55	MP2C	X	2.64	3
56	MP2C	Z	-4.572	3
57	MP2C	Mx	0.002	3
58	MP3A	X	2.569	3
59	MP3A	Z	-4.45	3
60	MP3A	Mx	0.001	3
61	MP3B	X	2.223	3
62	MP3B	Z	-3.85	3
63	MP3B	Mx	-0.002	3
64	MP3C	X	2.336	3
65	MP3C	Z	-4.046	3
66	MP3C	Mx	0.002	3
67	RADIOB	X	4.82	0.5
68	RADIOB	Z	-8.349	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	4.82	0.5
71	RADIOC	Z	-8.349	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	5.177	1.5
74	MP3A	Z	-8.967	1.5
75	MP3A	Mx	-0.003	1.5
76	MP3A	X	5.177	3.5
77	MP3A	Z	-8.967	3.5
78	MP3A	Mx	-0.003	3.5
79	MP3B	X	3.428	1.5
80	MP3B	Z	-5.937	1.5
81	MP3B	Mx	0.003	1.5
82	MP3B	X	3.428	3.5
83	MP3B	Z	-5.937	3.5
84	MP3B	Mx	0.003	3.5
85	MP3C	X	3.999	1.5
86	MP3C	Z	-6.926	1.5
87	MP3C	Mx	-0.003	1.5
88	MP3C	X	3.999	3.5
89	MP3C	Z	-6.926	3.5
90	MP3C	Mx	-0.003	3.5
91	MP4A	X	6.248	3
92	MP4A	Z	-10.822	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP4A	Mx	0	3
94	MP4B	X	4.877	3
95	MP4B	Z	-8.448	3
96	MP4B	Mx	0.004	3
97	MP4C	X	5.176	3
98	MP4C	Z	-8.964	3
99	MP4C	Mx	-0.004	3
100	MP5A	X	2.897	4
101	MP5A	Z	-5.018	4
102	MP5A	Mx	0.004	4
103	MP5B	X	2.897	4
104	MP5B	Z	-5.018	4
105	MP5B	Mx	0.004	4
106	MP5C	X	2.897	4
107	MP5C	Z	-5.018	4
108	MP5C	Mx	0.004	4
109	MP5A	X	2.897	4
110	MP5A	Z	-5.018	4
111	MP5A	Mx	0.001	4
112	MP5B	X	2.897	4
113	MP5B	Z	-5.018	4
114	MP5B	Mx	0.001	4
115	MP5C	X	2.897	4
116	MP5C	Z	-5.018	4
117	MP5C	Mx	0.001	4
118	MP1A	X	5.035	1.6
119	MP1A	Z	-8.72	1.6
120	MP1A	Mx	-0.005	1.6
121	MP1B	X	5.035	1.6
122	MP1B	Z	-8.72	1.6
123	MP1B	Mx	0.005	1.6
124	MP1C	X	7.473	1.6
125	MP1C	Z	-12.944	1.6
126	MP1C	Mx	0.003	1.6
127	DONOR	X	7.473	1.6
128	DONOR	Z	-12.944	1.6
129	DONOR	Mx	-0.003	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	25.634	0.5
2	MP5A	Z	-14.8	0.5
3	MP5A	Mx	-0.004	0.5
4	MP5A	X	25.634	4.5
5	MP5A	Z	-14.8	4.5
6	MP5A	Mx	-0.004	4.5
7	MP5B	X	22.993	0.5
8	MP5B	Z	-13.275	0.5
9	MP5B	Mx	0.013	0.5
10	MP5B	X	22.993	4.5
11	MP5B	Z	-13.275	4.5
12	MP5B	Mx	0.013	4.5
13	MP5C	X	32.323	0.5
14	MP5C	Z	-18.662	0.5
15	MP5C	Mx	-0.027	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP5C	X	32.323	4.5
17	MP5C	Z	-18.662	4.5
18	MP5C	Mx	-0.027	4.5
19	MP5A	X	25.634	0.5
20	MP5A	Z	-14.8	0.5
21	MP5A	Mx	-0.021	0.5
22	MP5A	X	25.634	4.5
23	MP5A	Z	-14.8	4.5
24	MP5A	Mx	-0.021	4.5
25	MP5B	X	22.993	0.5
26	MP5B	Z	-13.275	0.5
27	MP5B	Mx	0.013	0.5
28	MP5B	X	22.993	4.5
29	MP5B	Z	-13.275	4.5
30	MP5B	Mx	0.013	4.5
31	MP5C	X	32.323	0.5
32	MP5C	Z	-18.662	0.5
33	MP5C	Mx	0.014	0.5
34	MP5C	X	32.323	4.5
35	MP5C	Z	-18.662	4.5
36	MP5C	Mx	0.014	4.5
37	MP2A	X	8.422	1.5
38	MP2A	Z	-4.862	1.5
39	MP2A	Mx	-0.004	1.5
40	MP2B	X	5.643	1.5
41	MP2B	Z	-3.258	1.5
42	MP2B	Mx	0.003	1.5
43	MP2C	X	15.457	1.5
44	MP2C	Z	-8.924	1.5
45	MP2C	Mx	-0.003	1.5
46	RADIOA	X	7.525	0.5
47	RADIOA	Z	-4.344	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	4.131	3
50	MP2A	Z	-2.385	3
51	MP2A	Mx	0.002	3
52	MP2B	X	3.454	3
53	MP2B	Z	-1.994	3
54	MP2B	Mx	-0.002	3
55	MP2C	X	5.844	3
56	MP2C	Z	-3.374	3
57	MP2C	Mx	0.001	3
58	MP3A	X	3.85	3
59	MP3A	Z	-2.223	3
60	MP3A	Mx	0.002	3
61	MP3B	X	3.551	3
62	MP3B	Z	-2.05	3
63	MP3B	Mx	-0.002	3
64	MP3C	X	4.609	3
65	MP3C	Z	-2.661	3
66	MP3C	Mx	0.00091	3
67	RADIOB	X	7.525	0.5
68	RADIOB	Z	-4.344	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	7.525	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	RADIOC	Z	-4.344	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	5.937	1.5
74	MP3A	Z	-3.428	1.5
75	MP3A	Mx	-0.003	1.5
76	MP3A	X	5.937	3.5
77	MP3A	Z	-3.428	3.5
78	MP3A	Mx	-0.003	3.5
79	MP3B	X	4.422	1.5
80	MP3B	Z	-2.553	1.5
81	MP3B	Mx	0.003	1.5
82	MP3B	X	4.422	3.5
83	MP3B	Z	-2.553	3.5
84	MP3B	Mx	0.003	3.5
85	MP3C	X	9.774	1.5
86	MP3C	Z	-5.643	1.5
87	MP3C	Mx	-0.002	1.5
88	MP3C	X	9.774	3.5
89	MP3C	Z	-5.643	3.5
90	MP3C	Mx	-0.002	3.5
91	MP4A	X	10.031	3
92	MP4A	Z	-5.791	3
93	MP4A	Mx	-0.003	3
94	MP4B	X	7.657	3
95	MP4B	Z	-4.421	3
96	MP4B	Mx	0.004	3
97	MP4C	X	10.452	3
98	MP4C	Z	-6.034	3
99	MP4C	Mx	-0.002	3
100	MP5A	X	5.945	4
101	MP5A	Z	-3.432	4
102	MP5A	Mx	0.003	4
103	MP5B	X	5.945	4
104	MP5B	Z	-3.432	4
105	MP5B	Mx	0.003	4
106	MP5C	X	5.945	4
107	MP5C	Z	-3.432	4
108	MP5C	Mx	0.003	4
109	MP5A	X	5.945	4
110	MP5A	Z	-3.432	4
111	MP5A	Mx	0.003	4
112	MP5B	X	5.945	4
113	MP5B	Z	-3.432	4
114	MP5B	Mx	0.003	4
115	MP5C	X	5.945	4
116	MP5C	Z	-3.432	4
117	MP5C	Mx	0.003	4
118	MP1A	X	11.311	1.6
119	MP1A	Z	-6.53	1.6
120	MP1A	Mx	-0.004	1.6
121	MP1B	X	11.311	1.6
122	MP1B	Z	-6.53	1.6
123	MP1B	Mx	0.004	1.6
124	MP1C	X	10.353	1.6
125	MP1C	Z	-5.977	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
126	MP1C	Mx	0.005	1.6
127	DONOR	X	10.353	1.6
128	DONOR	Z	-5.977	1.6
129	DONOR	Mx	-0.005	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	26.55	0.5
2	MP5A	Z	0	0.5
3	MP5A	Mx	-0.013	0.5
4	MP5A	X	26.55	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	-0.013	4.5
7	MP5B	X	29.6	0.5
8	MP5B	Z	0	0.5
9	MP5B	Mx	0.021	0.5
10	MP5B	X	29.6	4.5
11	MP5B	Z	0	4.5
12	MP5B	Mx	0.021	4.5
13	MP5C	X	38.383	0.5
14	MP5C	Z	0	0.5
15	MP5C	Mx	-0.019	0.5
16	MP5C	X	38.383	4.5
17	MP5C	Z	0	4.5
18	MP5C	Mx	-0.019	4.5
19	MP5A	X	26.55	0.5
20	MP5A	Z	0	0.5
21	MP5A	Mx	-0.013	0.5
22	MP5A	X	26.55	4.5
23	MP5A	Z	0	4.5
24	MP5A	Mx	-0.013	4.5
25	MP5B	X	29.6	0.5
26	MP5B	Z	0	0.5
27	MP5B	Mx	0.004	0.5
28	MP5B	X	29.6	4.5
29	MP5B	Z	0	4.5
30	MP5B	Mx	0.004	4.5
31	MP5C	X	38.383	0.5
32	MP5C	Z	0	0.5
33	MP5C	Mx	0.025	0.5
34	MP5C	X	38.383	4.5
35	MP5C	Z	0	4.5
36	MP5C	Mx	0.025	4.5
37	MP2A	X	6.516	1.5
38	MP2A	Z	0	1.5
39	MP2A	Mx	-0.003	1.5
40	MP2B	X	9.724	1.5
41	MP2B	Z	0	1.5
42	MP2B	Mx	0.004	1.5
43	MP2C	X	18.962	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	0.002	1.5
46	RADIOA	X	9.641	0.5
47	RADIOA	Z	0	0.5
48	RADIOA	Mx	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2A	X	3.989	3
50	MP2A	Z	0	3
51	MP2A	Mx	0.002	3
52	MP2B	X	4.77	3
53	MP2B	Z	0	3
54	MP2B	Mx	-0.002	3
55	MP2C	X	7.019	3
56	MP2C	Z	0	3
57	MP2C	Mx	-0.000609	3
58	MP3A	X	4.1	3
59	MP3A	Z	0	3
60	MP3A	Mx	0.002	3
61	MP3B	X	4.446	3
62	MP3B	Z	0	3
63	MP3B	Mx	-0.002	3
64	MP3C	X	5.442	3
65	MP3C	Z	0	3
66	MP3C	Mx	-0.000472	3
67	RADIOB	X	9.641	0.5
68	RADIOB	Z	0	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	9.641	0.5
71	RADIOC	Z	0	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	5.106	1.5
74	MP3A	Z	0	1.5
75	MP3A	Mx	-0.003	1.5
76	MP3A	X	5.106	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	-0.003	3.5
79	MP3B	X	6.856	1.5
80	MP3B	Z	0	1.5
81	MP3B	Mx	0.003	1.5
82	MP3B	X	6.856	3.5
83	MP3B	Z	0	3.5
84	MP3B	Mx	0.003	3.5
85	MP3C	X	11.893	1.5
86	MP3C	Z	0	1.5
87	MP3C	Mx	0.001	1.5
88	MP3C	X	11.893	3.5
89	MP3C	Z	0	3.5
90	MP3C	Mx	0.001	3.5
91	MP4A	X	9.755	3
92	MP4A	Z	0	3
93	MP4A	Mx	-0.004	3
94	MP4B	X	9.755	3
95	MP4B	Z	0	3
96	MP4B	Mx	0.004	3
97	MP4C	X	12.386	3
98	MP4C	Z	0	3
99	MP4C	Mx	0.001	3
100	MP5A	X	5.794	4
101	MP5A	Z	0	4
102	MP5A	Mx	0.001	4
103	MP5B	X	5.794	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5B	Z	0	4
105	MP5B	Mx	0.001	4
106	MP5C	X	5.794	4
107	MP5C	Z	0	4
108	MP5C	Mx	0.001	4
109	MP5A	X	5.794	4
110	MP5A	Z	0	4
111	MP5A	Mx	0.004	4
112	MP5B	X	5.794	4
113	MP5B	Z	0	4
114	MP5B	Mx	0.004	4
115	MP5C	X	5.794	4
116	MP5C	Z	0	4
117	MP5C	Mx	0.004	4
118	MP1A	X	15.499	1.6
119	MP1A	Z	0	1.6
120	MP1A	Mx	-0.001	1.6
121	MP1B	X	15.499	1.6
122	MP1B	Z	0	1.6
123	MP1B	Mx	0.001	1.6
124	MP1C	X	9.516	1.6
125	MP1C	Z	0	1.6
126	MP1C	Mx	0.005	1.6
127	DONOR	X	9.516	1.6
128	DONOR	Z	0	1.6
129	DONOR	Mx	-0.005	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	25.634	0.5
2	MP5A	Z	14.8	0.5
3	MP5A	Mx	-0.021	0.5
4	MP5A	X	25.634	4.5
5	MP5A	Z	14.8	4.5
6	MP5A	Mx	-0.021	4.5
7	MP5B	X	30.917	0.5
8	MP5B	Z	17.85	0.5
9	MP5B	Mx	0.027	0.5
10	MP5B	X	30.917	4.5
11	MP5B	Z	17.85	4.5
12	MP5B	Mx	0.027	4.5
13	MP5C	X	29.193	0.5
14	MP5C	Z	16.855	0.5
15	MP5C	Mx	-0.004	0.5
16	MP5C	X	29.193	4.5
17	MP5C	Z	16.855	4.5
18	MP5C	Mx	-0.004	4.5
19	MP5A	X	25.634	0.5
20	MP5A	Z	14.8	0.5
21	MP5A	Mx	-0.004	0.5
22	MP5A	X	25.634	4.5
23	MP5A	Z	14.8	4.5
24	MP5A	Mx	-0.004	4.5
25	MP5B	X	30.917	0.5
26	MP5B	Z	17.85	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP5B	Mx	-0.009	0.5
28	MP5B	X	30.917	4.5
29	MP5B	Z	17.85	4.5
30	MP5B	Mx	-0.009	4.5
31	MP5C	X	29.193	0.5
32	MP5C	Z	16.855	0.5
33	MP5C	Mx	0.026	0.5
34	MP5C	X	29.193	4.5
35	MP5C	Z	16.855	4.5
36	MP5C	Mx	0.026	4.5
37	MP2A	X	8.422	1.5
38	MP2A	Z	4.862	1.5
39	MP2A	Mx	-0.004	1.5
40	MP2B	X	13.979	1.5
41	MP2B	Z	8.071	1.5
42	MP2B	Mx	0.004	1.5
43	MP2C	X	12.165	1.5
44	MP2C	Z	7.023	1.5
45	MP2C	Mx	0.005	1.5
46	RADIOA	X	9.998	0.5
47	RADIOA	Z	5.772	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	4.131	3
50	MP2A	Z	2.385	3
51	MP2A	Mx	0.002	3
52	MP2B	X	5.484	3
53	MP2B	Z	3.166	3
54	MP2B	Mx	-0.002	3
55	MP2C	X	5.042	3
56	MP2C	Z	2.911	3
57	MP2C	Mx	-0.002	3
58	MP3A	X	3.85	3
59	MP3A	Z	2.223	3
60	MP3A	Mx	0.002	3
61	MP3B	X	4.45	3
62	MP3B	Z	2.569	3
63	MP3B	Mx	-0.001	3
64	MP3C	X	4.254	3
65	MP3C	Z	2.456	3
66	MP3C	Mx	-0.002	3
67	RADIOB	X	9.998	0.5
68	RADIOB	Z	5.772	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	9.998	0.5
71	RADIOC	Z	5.772	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	5.937	1.5
74	MP3A	Z	3.428	1.5
75	MP3A	Mx	-0.003	1.5
76	MP3A	X	5.937	3.5
77	MP3A	Z	3.428	3.5
78	MP3A	Mx	-0.003	3.5
79	MP3B	X	8.967	1.5
80	MP3B	Z	5.177	1.5
81	MP3B	Mx	0.003	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP3B	X	8.967	3.5
83	MP3B	Z	5.177	3.5
84	MP3B	Mx	0.003	3.5
85	MP3C	X	7.978	1.5
86	MP3C	Z	4.606	1.5
87	MP3C	Mx	0.003	1.5
88	MP3C	X	7.978	3.5
89	MP3C	Z	4.606	3.5
90	MP3C	Mx	0.003	3.5
91	MP4A	X	7.657	3
92	MP4A	Z	4.421	3
93	MP4A	Mx	-0.004	3
94	MP4B	X	10.031	3
95	MP4B	Z	5.791	3
96	MP4B	Mx	0.003	3
97	MP4C	X	9.514	3
98	MP4C	Z	5.493	3
99	MP4C	Mx	0.004	3
100	MP5A	X	3.163	4
101	MP5A	Z	1.826	4
102	MP5A	Mx	-0.000668	4
103	MP5B	X	3.163	4
104	MP5B	Z	1.826	4
105	MP5B	Mx	-0.000668	4
106	MP5C	X	3.163	4
107	MP5C	Z	1.826	4
108	MP5C	Mx	-0.000668	4
109	MP5A	X	3.163	4
110	MP5A	Z	1.826	4
111	MP5A	Mx	0.002	4
112	MP5B	X	3.163	4
113	MP5B	Z	1.826	4
114	MP5B	Mx	0.002	4
115	MP5C	X	3.163	4
116	MP5C	Z	1.826	4
117	MP5C	Mx	0.002	4
118	MP1A	X	12.944	1.6
119	MP1A	Z	7.473	1.6
120	MP1A	Mx	0.003	1.6
121	MP1B	X	12.944	1.6
122	MP1B	Z	7.473	1.6
123	MP1B	Mx	-0.003	1.6
124	MP1C	X	8.72	1.6
125	MP1C	Z	5.035	1.6
126	MP1C	Mx	0.005	1.6
127	DONOR	X	8.72	1.6
128	DONOR	Z	5.035	1.6
129	DONOR	Mx	-0.005	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	17.85	0.5
2	MP5A	Z	30.917	0.5
3	MP5A	Mx	-0.027	0.5
4	MP5A	X	17.85	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP5A	Z	30.917	4.5
6	MP5A	Mx	-0.027	4.5
7	MP5B	X	19.375	0.5
8	MP5B	Z	33.559	0.5
9	MP5B	Mx	0.023	0.5
10	MP5B	X	19.375	4.5
11	MP5B	Z	33.559	4.5
12	MP5B	Mx	0.023	4.5
13	MP5C	X	13.989	0.5
14	MP5C	Z	24.229	0.5
15	MP5C	Mx	0.008	0.5
16	MP5C	X	13.989	4.5
17	MP5C	Z	24.229	4.5
18	MP5C	Mx	0.008	4.5
19	MP5A	X	17.85	0.5
20	MP5A	Z	30.917	0.5
21	MP5A	Mx	0.009	0.5
22	MP5A	X	17.85	4.5
23	MP5A	Z	30.917	4.5
24	MP5A	Mx	0.009	4.5
25	MP5B	X	19.375	0.5
26	MP5B	Z	33.559	0.5
27	MP5B	Mx	-0.023	0.5
28	MP5B	X	19.375	4.5
29	MP5B	Z	33.559	4.5
30	MP5B	Mx	-0.023	4.5
31	MP5C	X	13.989	0.5
32	MP5C	Z	24.229	0.5
33	MP5C	Mx	0.019	0.5
34	MP5C	X	13.989	4.5
35	MP5C	Z	24.229	4.5
36	MP5C	Mx	0.019	4.5
37	MP2A	X	8.071	1.5
38	MP2A	Z	13.979	1.5
39	MP2A	Mx	-0.004	1.5
40	MP2B	X	9.675	1.5
41	MP2B	Z	16.757	1.5
42	MP2B	Mx	0	1.5
43	MP2C	X	4.009	1.5
44	MP2C	Z	6.943	1.5
45	MP2C	Mx	0.004	1.5
46	RADIOA	X	6.248	0.5
47	RADIOA	Z	10.822	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	3.166	3
50	MP2A	Z	5.484	3
51	MP2A	Mx	0.002	3
52	MP2B	X	3.557	3
53	MP2B	Z	6.16	3
54	MP2B	Mx	0	3
55	MP2C	X	2.177	3
56	MP2C	Z	3.771	3
57	MP2C	Mx	-0.002	3
58	MP3A	X	2.569	3
59	MP3A	Z	4.45	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3A	Mx	0.001	3
61	MP3B	X	2.742	3
62	MP3B	Z	4.749	3
63	MP3B	Mx	0	3
64	MP3C	X	2.131	3
65	MP3C	Z	3.691	3
66	MP3C	Mx	-0.002	3
67	RADIOB	X	6.248	0.5
68	RADIOB	Z	10.822	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	6.248	0.5
71	RADIOC	Z	10.822	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	5.177	1.5
74	MP3A	Z	8.967	1.5
75	MP3A	Mx	-0.003	1.5
76	MP3A	X	5.177	3.5
77	MP3A	Z	8.967	3.5
78	MP3A	Mx	-0.003	3.5
79	MP3B	X	6.052	1.5
80	MP3B	Z	10.482	1.5
81	MP3B	Mx	0	1.5
82	MP3B	X	6.052	3.5
83	MP3B	Z	10.482	3.5
84	MP3B	Mx	0	3.5
85	MP3C	X	2.962	1.5
86	MP3C	Z	5.131	1.5
87	MP3C	Mx	0.003	1.5
88	MP3C	X	2.962	3.5
89	MP3C	Z	5.131	3.5
90	MP3C	Mx	0.003	3.5
91	MP4A	X	4.877	3
92	MP4A	Z	8.448	3
93	MP4A	Mx	-0.004	3
94	MP4B	X	6.248	3
95	MP4B	Z	10.822	3
96	MP4B	Mx	0	3
97	MP4C	X	4.634	3
98	MP4C	Z	8.027	3
99	MP4C	Mx	0.004	3
100	MP5A	X	1.29	4
101	MP5A	Z	2.235	4
102	MP5A	Mx	-0.001	4
103	MP5B	X	1.29	4
104	MP5B	Z	2.235	4
105	MP5B	Mx	-0.001	4
106	MP5C	X	1.29	4
107	MP5C	Z	2.235	4
108	MP5C	Mx	-0.001	4
109	MP5A	X	1.29	4
110	MP5A	Z	2.235	4
111	MP5A	Mx	0.001	4
112	MP5B	X	1.29	4
113	MP5B	Z	2.235	4
114	MP5B	Mx	0.001	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
115	MP5C	X	1.29	4
116	MP5C	Z	2.235	4
117	MP5C	Mx	0.001	4
118	MP1A	X	5.977	1.6
119	MP1A	Z	10.353	1.6
120	MP1A	Mx	0.005	1.6
121	MP1B	X	5.977	1.6
122	MP1B	Z	10.353	1.6
123	MP1B	Mx	-0.005	1.6
124	MP1C	X	6.53	1.6
125	MP1C	Z	11.311	1.6
126	MP1C	Mx	0.004	1.6
127	DONOR	X	6.53	1.6
128	DONOR	Z	11.311	1.6
129	DONOR	Mx	-0.004	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	0	0.5
2	MP5A	Z	38.751	0.5
3	MP5A	Mx	-0.023	0.5
4	MP5A	X	0	4.5
5	MP5A	Z	38.751	4.5
6	MP5A	Mx	-0.023	4.5
7	MP5B	X	0	0.5
8	MP5B	Z	35.7	0.5
9	MP5B	Mx	0.009	0.5
10	MP5B	X	0	4.5
11	MP5B	Z	35.7	4.5
12	MP5B	Mx	0.009	4.5
13	MP5C	X	0	0.5
14	MP5C	Z	26.918	0.5
15	MP5C	Mx	0.016	0.5
16	MP5C	X	0	4.5
17	MP5C	Z	26.918	4.5
18	MP5C	Mx	0.016	4.5
19	MP5A	X	0	0.5
20	MP5A	Z	38.751	0.5
21	MP5A	Mx	0.023	0.5
22	MP5A	X	0	4.5
23	MP5A	Z	38.751	4.5
24	MP5A	Mx	0.023	4.5
25	MP5B	X	0	0.5
26	MP5B	Z	35.7	0.5
27	MP5B	Mx	-0.027	0.5
28	MP5B	X	0	4.5
29	MP5B	Z	35.7	4.5
30	MP5B	Mx	-0.027	4.5
31	MP5C	X	0	0.5
32	MP5C	Z	26.918	0.5
33	MP5C	Mx	0.011	0.5
34	MP5C	X	0	4.5
35	MP5C	Z	26.918	4.5
36	MP5C	Mx	0.011	4.5
37	MP2A	X	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2A	Z	19.349	1.5
39	MP2A	Mx	0	1.5
40	MP2B	X	0	1.5
41	MP2B	Z	16.141	1.5
42	MP2B	Mx	-0.004	1.5
43	MP2C	X	0	1.5
44	MP2C	Z	6.903	1.5
45	MP2C	Mx	0.003	1.5
46	RADIOA	X	0	0.5
47	RADIOA	Z	11.544	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	0	3
50	MP2A	Z	7.113	3
51	MP2A	Mx	0	3
52	MP2B	X	0	3
53	MP2B	Z	6.332	3
54	MP2B	Mx	0.002	3
55	MP2C	X	0	3
56	MP2C	Z	4.083	3
57	MP2C	Mx	-0.002	3
58	MP3A	X	0	3
59	MP3A	Z	5.484	3
60	MP3A	Mx	0	3
61	MP3B	X	0	3
62	MP3B	Z	5.138	3
63	MP3B	Mx	0.001	3
64	MP3C	X	0	3
65	MP3C	Z	4.142	3
66	MP3C	Mx	-0.002	3
67	RADIOB	X	0	0.5
68	RADIOB	Z	11.544	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	0	0.5
71	RADIOC	Z	11.544	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	0	1.5
74	MP3A	Z	12.104	1.5
75	MP3A	Mx	0	1.5
76	MP3A	X	0	3.5
77	MP3A	Z	12.104	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	1.5
80	MP3B	Z	10.355	1.5
81	MP3B	Mx	-0.003	1.5
82	MP3B	X	0	3.5
83	MP3B	Z	10.355	3.5
84	MP3B	Mx	-0.003	3.5
85	MP3C	X	0	1.5
86	MP3C	Z	5.317	1.5
87	MP3C	Mx	0.003	1.5
88	MP3C	X	0	3.5
89	MP3C	Z	5.317	3.5
90	MP3C	Mx	0.003	3.5
91	MP4A	X	0	3
92	MP4A	Z	11.582	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP4A	Mx	-0.003	3
94	MP4B	X	0	3
95	MP4B	Z	11.582	3
96	MP4B	Mx	-0.003	3
97	MP4C	X	0	3
98	MP4C	Z	8.951	3
99	MP4C	Mx	0.004	3
100	MP5A	X	0	4
101	MP5A	Z	3.652	4
102	MP5A	Mx	-0.002	4
103	MP5B	X	0	4
104	MP5B	Z	3.652	4
105	MP5B	Mx	-0.002	4
106	MP5C	X	0	4
107	MP5C	Z	3.652	4
108	MP5C	Mx	-0.002	4
109	MP5A	X	0	4
110	MP5A	Z	3.652	4
111	MP5A	Mx	0.000668	4
112	MP5B	X	0	4
113	MP5B	Z	3.652	4
114	MP5B	Mx	0.000668	4
115	MP5C	X	0	4
116	MP5C	Z	3.652	4
117	MP5C	Mx	0.000668	4
118	MP1A	X	0	1.6
119	MP1A	Z	9.516	1.6
120	MP1A	Mx	0.005	1.6
121	MP1B	X	0	1.6
122	MP1B	Z	9.516	1.6
123	MP1B	Mx	-0.005	1.6
124	MP1C	X	0	1.6
125	MP1C	Z	15.499	1.6
126	MP1C	Mx	0.001	1.6
127	DONOR	X	0	1.6
128	DONOR	Z	15.499	1.6
129	DONOR	Mx	-0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-17.85	0.5
2	MP5A	Z	30.917	0.5
3	MP5A	Mx	-0.009	0.5
4	MP5A	X	-17.85	4.5
5	MP5A	Z	30.917	4.5
6	MP5A	Mx	-0.009	4.5
7	MP5B	X	-14.8	0.5
8	MP5B	Z	25.634	0.5
9	MP5B	Mx	-0.004	0.5
10	MP5B	X	-14.8	4.5
11	MP5B	Z	25.634	4.5
12	MP5B	Mx	-0.004	4.5
13	MP5C	X	-15.795	0.5
14	MP5C	Z	27.359	0.5
15	MP5C	Mx	0.024	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP5C	X	-15.795	4.5
17	MP5C	Z	27.359	4.5
18	MP5C	Mx	0.024	4.5
19	MP5A	X	-17.85	0.5
20	MP5A	Z	30.917	0.5
21	MP5A	Mx	0.027	0.5
22	MP5A	X	-17.85	4.5
23	MP5A	Z	30.917	4.5
24	MP5A	Mx	0.027	4.5
25	MP5B	X	-14.8	0.5
26	MP5B	Z	25.634	0.5
27	MP5B	Mx	-0.021	0.5
28	MP5B	X	-14.8	4.5
29	MP5B	Z	25.634	4.5
30	MP5B	Mx	-0.021	4.5
31	MP5C	X	-15.795	0.5
32	MP5C	Z	27.359	0.5
33	MP5C	Mx	0.000255	0.5
34	MP5C	X	-15.795	4.5
35	MP5C	Z	27.359	4.5
36	MP5C	Mx	0.000255	4.5
37	MP2A	X	-8.071	1.5
38	MP2A	Z	13.979	1.5
39	MP2A	Mx	0.004	1.5
40	MP2B	X	-4.862	1.5
41	MP2B	Z	8.422	1.5
42	MP2B	Mx	-0.004	1.5
43	MP2C	X	-5.909	1.5
44	MP2C	Z	10.235	1.5
45	MP2C	Mx	0.005	1.5
46	RADIOA	X	-4.82	0.5
47	RADIOA	Z	8.349	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-3.166	3
50	MP2A	Z	5.484	3
51	MP2A	Mx	-0.002	3
52	MP2B	X	-2.385	3
53	MP2B	Z	4.131	3
54	MP2B	Mx	0.002	3
55	MP2C	X	-2.64	3
56	MP2C	Z	4.572	3
57	MP2C	Mx	-0.002	3
58	MP3A	X	-2.569	3
59	MP3A	Z	4.45	3
60	MP3A	Mx	-0.001	3
61	MP3B	X	-2.223	3
62	MP3B	Z	3.85	3
63	MP3B	Mx	0.002	3
64	MP3C	X	-2.336	3
65	MP3C	Z	4.046	3
66	MP3C	Mx	-0.002	3
67	RADIOB	X	-4.82	0.5
68	RADIOB	Z	8.349	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-4.82	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	RADIOC	Z	8.349	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-5.177	1.5
74	MP3A	Z	8.967	1.5
75	MP3A	Mx	0.003	1.5
76	MP3A	X	-5.177	3.5
77	MP3A	Z	8.967	3.5
78	MP3A	Mx	0.003	3.5
79	MP3B	X	-3.428	1.5
80	MP3B	Z	5.937	1.5
81	MP3B	Mx	-0.003	1.5
82	MP3B	X	-3.428	3.5
83	MP3B	Z	5.937	3.5
84	MP3B	Mx	-0.003	3.5
85	MP3C	X	-3.999	1.5
86	MP3C	Z	6.926	1.5
87	MP3C	Mx	0.003	1.5
88	MP3C	X	-3.999	3.5
89	MP3C	Z	6.926	3.5
90	MP3C	Mx	0.003	3.5
91	MP4A	X	-6.248	3
92	MP4A	Z	10.822	3
93	MP4A	Mx	0	3
94	MP4B	X	-4.877	3
95	MP4B	Z	8.448	3
96	MP4B	Mx	-0.004	3
97	MP4C	X	-5.176	3
98	MP4C	Z	8.964	3
99	MP4C	Mx	0.004	3
100	MP5A	X	-2.897	4
101	MP5A	Z	5.018	4
102	MP5A	Mx	-0.004	4
103	MP5B	X	-2.897	4
104	MP5B	Z	5.018	4
105	MP5B	Mx	-0.004	4
106	MP5C	X	-2.897	4
107	MP5C	Z	5.018	4
108	MP5C	Mx	-0.004	4
109	MP5A	X	-2.897	4
110	MP5A	Z	5.018	4
111	MP5A	Mx	-0.001	4
112	MP5B	X	-2.897	4
113	MP5B	Z	5.018	4
114	MP5B	Mx	-0.001	4
115	MP5C	X	-2.897	4
116	MP5C	Z	5.018	4
117	MP5C	Mx	-0.001	4
118	MP1A	X	-5.035	1.6
119	MP1A	Z	8.72	1.6
120	MP1A	Mx	0.005	1.6
121	MP1B	X	-5.035	1.6
122	MP1B	Z	8.72	1.6
123	MP1B	Mx	-0.005	1.6
124	MP1C	X	-7.473	1.6
125	MP1C	Z	12.944	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
126	MP1C	Mx	-0.003	1.6
127	DONOR	X	-7.473	1.6
128	DONOR	Z	12.944	1.6
129	DONOR	Mx	0.003	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-25.634	0.5
2	MP5A	Z	14.8	0.5
3	MP5A	Mx	0.004	0.5
4	MP5A	X	-25.634	4.5
5	MP5A	Z	14.8	4.5
6	MP5A	Mx	0.004	4.5
7	MP5B	X	-22.993	0.5
8	MP5B	Z	13.275	0.5
9	MP5B	Mx	-0.013	0.5
10	MP5B	X	-22.993	4.5
11	MP5B	Z	13.275	4.5
12	MP5B	Mx	-0.013	4.5
13	MP5C	X	-32.323	0.5
14	MP5C	Z	18.662	0.5
15	MP5C	Mx	0.027	0.5
16	MP5C	X	-32.323	4.5
17	MP5C	Z	18.662	4.5
18	MP5C	Mx	0.027	4.5
19	MP5A	X	-25.634	0.5
20	MP5A	Z	14.8	0.5
21	MP5A	Mx	0.021	0.5
22	MP5A	X	-25.634	4.5
23	MP5A	Z	14.8	4.5
24	MP5A	Mx	0.021	4.5
25	MP5B	X	-22.993	0.5
26	MP5B	Z	13.275	0.5
27	MP5B	Mx	-0.013	0.5
28	MP5B	X	-22.993	4.5
29	MP5B	Z	13.275	4.5
30	MP5B	Mx	-0.013	4.5
31	MP5C	X	-32.323	0.5
32	MP5C	Z	18.662	0.5
33	MP5C	Mx	-0.014	0.5
34	MP5C	X	-32.323	4.5
35	MP5C	Z	18.662	4.5
36	MP5C	Mx	-0.014	4.5
37	MP2A	X	-8.422	1.5
38	MP2A	Z	4.862	1.5
39	MP2A	Mx	0.004	1.5
40	MP2B	X	-5.643	1.5
41	MP2B	Z	3.258	1.5
42	MP2B	Mx	-0.003	1.5
43	MP2C	X	-15.457	1.5
44	MP2C	Z	8.924	1.5
45	MP2C	Mx	0.003	1.5
46	RADIOA	X	-7.525	0.5
47	RADIOA	Z	4.344	0.5
48	RADIOA	Mx	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2A	X	-4.131	3
50	MP2A	Z	2.385	3
51	MP2A	Mx	-0.002	3
52	MP2B	X	-3.454	3
53	MP2B	Z	1.994	3
54	MP2B	Mx	0.002	3
55	MP2C	X	-5.844	3
56	MP2C	Z	3.374	3
57	MP2C	Mx	-0.001	3
58	MP3A	X	-3.85	3
59	MP3A	Z	2.223	3
60	MP3A	Mx	-0.002	3
61	MP3B	X	-3.551	3
62	MP3B	Z	2.05	3
63	MP3B	Mx	0.002	3
64	MP3C	X	-4.609	3
65	MP3C	Z	2.661	3
66	MP3C	Mx	-0.00091	3
67	RADIOB	X	-7.525	0.5
68	RADIOB	Z	4.344	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-7.525	0.5
71	RADIOC	Z	4.344	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-5.937	1.5
74	MP3A	Z	3.428	1.5
75	MP3A	Mx	0.003	1.5
76	MP3A	X	-5.937	3.5
77	MP3A	Z	3.428	3.5
78	MP3A	Mx	0.003	3.5
79	MP3B	X	-4.422	1.5
80	MP3B	Z	2.553	1.5
81	MP3B	Mx	-0.003	1.5
82	MP3B	X	-4.422	3.5
83	MP3B	Z	2.553	3.5
84	MP3B	Mx	-0.003	3.5
85	MP3C	X	-9.774	1.5
86	MP3C	Z	5.643	1.5
87	MP3C	Mx	0.002	1.5
88	MP3C	X	-9.774	3.5
89	MP3C	Z	5.643	3.5
90	MP3C	Mx	0.002	3.5
91	MP4A	X	-10.031	3
92	MP4A	Z	5.791	3
93	MP4A	Mx	0.003	3
94	MP4B	X	-7.657	3
95	MP4B	Z	4.421	3
96	MP4B	Mx	-0.004	3
97	MP4C	X	-10.452	3
98	MP4C	Z	6.034	3
99	MP4C	Mx	0.002	3
100	MP5A	X	-5.945	4
101	MP5A	Z	3.432	4
102	MP5A	Mx	-0.003	4
103	MP5B	X	-5.945	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5B	Z	3.432	4
105	MP5B	Mx	-0.003	4
106	MP5C	X	-5.945	4
107	MP5C	Z	3.432	4
108	MP5C	Mx	-0.003	4
109	MP5A	X	-5.945	4
110	MP5A	Z	3.432	4
111	MP5A	Mx	-0.003	4
112	MP5B	X	-5.945	4
113	MP5B	Z	3.432	4
114	MP5B	Mx	-0.003	4
115	MP5C	X	-5.945	4
116	MP5C	Z	3.432	4
117	MP5C	Mx	-0.003	4
118	MP1A	X	-11.311	1.6
119	MP1A	Z	6.53	1.6
120	MP1A	Mx	0.004	1.6
121	MP1B	X	-11.311	1.6
122	MP1B	Z	6.53	1.6
123	MP1B	Mx	-0.004	1.6
124	MP1C	X	-10.353	1.6
125	MP1C	Z	5.977	1.6
126	MP1C	Mx	-0.005	1.6
127	DONOR	X	-10.353	1.6
128	DONOR	Z	5.977	1.6
129	DONOR	Mx	0.005	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-26.55	0.5
2	MP5A	Z	0	0.5
3	MP5A	Mx	0.013	0.5
4	MP5A	X	-26.55	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	0.013	4.5
7	MP5B	X	-29.6	0.5
8	MP5B	Z	0	0.5
9	MP5B	Mx	-0.021	0.5
10	MP5B	X	-29.6	4.5
11	MP5B	Z	0	4.5
12	MP5B	Mx	-0.021	4.5
13	MP5C	X	-38.383	0.5
14	MP5C	Z	0	0.5
15	MP5C	Mx	0.019	0.5
16	MP5C	X	-38.383	4.5
17	MP5C	Z	0	4.5
18	MP5C	Mx	0.019	4.5
19	MP5A	X	-26.55	0.5
20	MP5A	Z	0	0.5
21	MP5A	Mx	0.013	0.5
22	MP5A	X	-26.55	4.5
23	MP5A	Z	0	4.5
24	MP5A	Mx	0.013	4.5
25	MP5B	X	-29.6	0.5
26	MP5B	Z	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP5B	Mx	-0.004	0.5
28	MP5B	X	-29.6	4.5
29	MP5B	Z	0	4.5
30	MP5B	Mx	-0.004	4.5
31	MP5C	X	-38.383	0.5
32	MP5C	Z	0	0.5
33	MP5C	Mx	-0.025	0.5
34	MP5C	X	-38.383	4.5
35	MP5C	Z	0	4.5
36	MP5C	Mx	-0.025	4.5
37	MP2A	X	-6.516	1.5
38	MP2A	Z	0	1.5
39	MP2A	Mx	0.003	1.5
40	MP2B	X	-9.724	1.5
41	MP2B	Z	0	1.5
42	MP2B	Mx	-0.004	1.5
43	MP2C	X	-18.962	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	-0.002	1.5
46	RADIOA	X	-9.641	0.5
47	RADIOA	Z	0	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-3.989	3
50	MP2A	Z	0	3
51	MP2A	Mx	-0.002	3
52	MP2B	X	-4.77	3
53	MP2B	Z	0	3
54	MP2B	Mx	0.002	3
55	MP2C	X	-7.019	3
56	MP2C	Z	0	3
57	MP2C	Mx	0.000609	3
58	MP3A	X	-4.1	3
59	MP3A	Z	0	3
60	MP3A	Mx	-0.002	3
61	MP3B	X	-4.446	3
62	MP3B	Z	0	3
63	MP3B	Mx	0.002	3
64	MP3C	X	-5.442	3
65	MP3C	Z	0	3
66	MP3C	Mx	0.000472	3
67	RADIOB	X	-9.641	0.5
68	RADIOB	Z	0	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-9.641	0.5
71	RADIOC	Z	0	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-5.106	1.5
74	MP3A	Z	0	1.5
75	MP3A	Mx	0.003	1.5
76	MP3A	X	-5.106	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	0.003	3.5
79	MP3B	X	-6.856	1.5
80	MP3B	Z	0	1.5
81	MP3B	Mx	-0.003	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP3B	X	-6.856	3.5
83	MP3B	Z	0	3.5
84	MP3B	Mx	-0.003	3.5
85	MP3C	X	-11.893	1.5
86	MP3C	Z	0	1.5
87	MP3C	Mx	-0.001	1.5
88	MP3C	X	-11.893	3.5
89	MP3C	Z	0	3.5
90	MP3C	Mx	-0.001	3.5
91	MP4A	X	-9.755	3
92	MP4A	Z	0	3
93	MP4A	Mx	0.004	3
94	MP4B	X	-9.755	3
95	MP4B	Z	0	3
96	MP4B	Mx	-0.004	3
97	MP4C	X	-12.386	3
98	MP4C	Z	0	3
99	MP4C	Mx	-0.001	3
100	MP5A	X	-5.794	4
101	MP5A	Z	0	4
102	MP5A	Mx	-0.001	4
103	MP5B	X	-5.794	4
104	MP5B	Z	0	4
105	MP5B	Mx	-0.001	4
106	MP5C	X	-5.794	4
107	MP5C	Z	0	4
108	MP5C	Mx	-0.001	4
109	MP5A	X	-5.794	4
110	MP5A	Z	0	4
111	MP5A	Mx	-0.004	4
112	MP5B	X	-5.794	4
113	MP5B	Z	0	4
114	MP5B	Mx	-0.004	4
115	MP5C	X	-5.794	4
116	MP5C	Z	0	4
117	MP5C	Mx	-0.004	4
118	MP1A	X	-15.499	1.6
119	MP1A	Z	0	1.6
120	MP1A	Mx	0.001	1.6
121	MP1B	X	-15.499	1.6
122	MP1B	Z	0	1.6
123	MP1B	Mx	-0.001	1.6
124	MP1C	X	-9.516	1.6
125	MP1C	Z	0	1.6
126	MP1C	Mx	-0.005	1.6
127	DONOR	X	-9.516	1.6
128	DONOR	Z	0	1.6
129	DONOR	Mx	0.005	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-25.634	0.5
2	MP5A	Z	-14.8	0.5
3	MP5A	Mx	0.021	0.5
4	MP5A	X	-25.634	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP5A	Z	-14.8	4.5
6	MP5A	Mx	0.021	4.5
7	MP5B	X	-30.917	0.5
8	MP5B	Z	-17.85	0.5
9	MP5B	Mx	-0.027	0.5
10	MP5B	X	-30.917	4.5
11	MP5B	Z	-17.85	4.5
12	MP5B	Mx	-0.027	4.5
13	MP5C	X	-29.193	0.5
14	MP5C	Z	-16.855	0.5
15	MP5C	Mx	0.004	0.5
16	MP5C	X	-29.193	4.5
17	MP5C	Z	-16.855	4.5
18	MP5C	Mx	0.004	4.5
19	MP5A	X	-25.634	0.5
20	MP5A	Z	-14.8	0.5
21	MP5A	Mx	0.004	0.5
22	MP5A	X	-25.634	4.5
23	MP5A	Z	-14.8	4.5
24	MP5A	Mx	0.004	4.5
25	MP5B	X	-30.917	0.5
26	MP5B	Z	-17.85	0.5
27	MP5B	Mx	0.009	0.5
28	MP5B	X	-30.917	4.5
29	MP5B	Z	-17.85	4.5
30	MP5B	Mx	0.009	4.5
31	MP5C	X	-29.193	0.5
32	MP5C	Z	-16.855	0.5
33	MP5C	Mx	-0.026	0.5
34	MP5C	X	-29.193	4.5
35	MP5C	Z	-16.855	4.5
36	MP5C	Mx	-0.026	4.5
37	MP2A	X	-8.422	1.5
38	MP2A	Z	-4.862	1.5
39	MP2A	Mx	0.004	1.5
40	MP2B	X	-13.979	1.5
41	MP2B	Z	-8.071	1.5
42	MP2B	Mx	-0.004	1.5
43	MP2C	X	-12.165	1.5
44	MP2C	Z	-7.023	1.5
45	MP2C	Mx	-0.005	1.5
46	RADIOA	X	-9.998	0.5
47	RADIOA	Z	-5.772	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-4.131	3
50	MP2A	Z	-2.385	3
51	MP2A	Mx	-0.002	3
52	MP2B	X	-5.484	3
53	MP2B	Z	-3.166	3
54	MP2B	Mx	0.002	3
55	MP2C	X	-5.042	3
56	MP2C	Z	-2.911	3
57	MP2C	Mx	0.002	3
58	MP3A	X	-3.85	3
59	MP3A	Z	-2.223	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3A	Mx	-0.002	3
61	MP3B	X	-4.45	3
62	MP3B	Z	-2.569	3
63	MP3B	Mx	0.001	3
64	MP3C	X	-4.254	3
65	MP3C	Z	-2.456	3
66	MP3C	Mx	0.002	3
67	RADIOB	X	-9.998	0.5
68	RADIOB	Z	-5.772	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-9.998	0.5
71	RADIOC	Z	-5.772	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-5.937	1.5
74	MP3A	Z	-3.428	1.5
75	MP3A	Mx	0.003	1.5
76	MP3A	X	-5.937	3.5
77	MP3A	Z	-3.428	3.5
78	MP3A	Mx	0.003	3.5
79	MP3B	X	-8.967	1.5
80	MP3B	Z	-5.177	1.5
81	MP3B	Mx	-0.003	1.5
82	MP3B	X	-8.967	3.5
83	MP3B	Z	-5.177	3.5
84	MP3B	Mx	-0.003	3.5
85	MP3C	X	-7.978	1.5
86	MP3C	Z	-4.606	1.5
87	MP3C	Mx	-0.003	1.5
88	MP3C	X	-7.978	3.5
89	MP3C	Z	-4.606	3.5
90	MP3C	Mx	-0.003	3.5
91	MP4A	X	-7.657	3
92	MP4A	Z	-4.421	3
93	MP4A	Mx	0.004	3
94	MP4B	X	-10.031	3
95	MP4B	Z	-5.791	3
96	MP4B	Mx	-0.003	3
97	MP4C	X	-9.514	3
98	MP4C	Z	-5.493	3
99	MP4C	Mx	-0.004	3
100	MP5A	X	-3.163	4
101	MP5A	Z	-1.826	4
102	MP5A	Mx	0.000668	4
103	MP5B	X	-3.163	4
104	MP5B	Z	-1.826	4
105	MP5B	Mx	0.000668	4
106	MP5C	X	-3.163	4
107	MP5C	Z	-1.826	4
108	MP5C	Mx	0.000668	4
109	MP5A	X	-3.163	4
110	MP5A	Z	-1.826	4
111	MP5A	Mx	-0.002	4
112	MP5B	X	-3.163	4
113	MP5B	Z	-1.826	4
114	MP5B	Mx	-0.002	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
115	MP5C	X	-3.163	4
116	MP5C	Z	-1.826	4
117	MP5C	Mx	-0.002	4
118	MP1A	X	-12.944	1.6
119	MP1A	Z	-7.473	1.6
120	MP1A	Mx	-0.003	1.6
121	MP1B	X	-12.944	1.6
122	MP1B	Z	-7.473	1.6
123	MP1B	Mx	0.003	1.6
124	MP1C	X	-8.72	1.6
125	MP1C	Z	-5.035	1.6
126	MP1C	Mx	-0.005	1.6
127	DONOR	X	-8.72	1.6
128	DONOR	Z	-5.035	1.6
129	DONOR	Mx	0.005	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-17.85	0.5
2	MP5A	Z	-30.917	0.5
3	MP5A	Mx	0.027	0.5
4	MP5A	X	-17.85	4.5
5	MP5A	Z	-30.917	4.5
6	MP5A	Mx	0.027	4.5
7	MP5B	X	-19.375	0.5
8	MP5B	Z	-33.559	0.5
9	MP5B	Mx	-0.023	0.5
10	MP5B	X	-19.375	4.5
11	MP5B	Z	-33.559	4.5
12	MP5B	Mx	-0.023	4.5
13	MP5C	X	-13.989	0.5
14	MP5C	Z	-24.229	0.5
15	MP5C	Mx	-0.008	0.5
16	MP5C	X	-13.989	4.5
17	MP5C	Z	-24.229	4.5
18	MP5C	Mx	-0.008	4.5
19	MP5A	X	-17.85	0.5
20	MP5A	Z	-30.917	0.5
21	MP5A	Mx	-0.009	0.5
22	MP5A	X	-17.85	4.5
23	MP5A	Z	-30.917	4.5
24	MP5A	Mx	-0.009	4.5
25	MP5B	X	-19.375	0.5
26	MP5B	Z	-33.559	0.5
27	MP5B	Mx	0.023	0.5
28	MP5B	X	-19.375	4.5
29	MP5B	Z	-33.559	4.5
30	MP5B	Mx	0.023	4.5
31	MP5C	X	-13.989	0.5
32	MP5C	Z	-24.229	0.5
33	MP5C	Mx	-0.019	0.5
34	MP5C	X	-13.989	4.5
35	MP5C	Z	-24.229	4.5
36	MP5C	Mx	-0.019	4.5
37	MP2A	X	-8.071	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2A	Z	-13.979	1.5
39	MP2A	Mx	0.004	1.5
40	MP2B	X	-9.675	1.5
41	MP2B	Z	-16.757	1.5
42	MP2B	Mx	0	1.5
43	MP2C	X	-4.009	1.5
44	MP2C	Z	-6.943	1.5
45	MP2C	Mx	-0.004	1.5
46	RADIOA	X	-6.248	0.5
47	RADIOA	Z	-10.822	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-3.166	3
50	MP2A	Z	-5.484	3
51	MP2A	Mx	-0.002	3
52	MP2B	X	-3.557	3
53	MP2B	Z	-6.16	3
54	MP2B	Mx	0	3
55	MP2C	X	-2.177	3
56	MP2C	Z	-3.771	3
57	MP2C	Mx	0.002	3
58	MP3A	X	-2.569	3
59	MP3A	Z	-4.45	3
60	MP3A	Mx	-0.001	3
61	MP3B	X	-2.742	3
62	MP3B	Z	-4.749	3
63	MP3B	Mx	0	3
64	MP3C	X	-2.131	3
65	MP3C	Z	-3.691	3
66	MP3C	Mx	0.002	3
67	RADIOB	X	-6.248	0.5
68	RADIOB	Z	-10.822	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-6.248	0.5
71	RADIOC	Z	-10.822	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-5.177	1.5
74	MP3A	Z	-8.967	1.5
75	MP3A	Mx	0.003	1.5
76	MP3A	X	-5.177	3.5
77	MP3A	Z	-8.967	3.5
78	MP3A	Mx	0.003	3.5
79	MP3B	X	-6.052	1.5
80	MP3B	Z	-10.482	1.5
81	MP3B	Mx	0	1.5
82	MP3B	X	-6.052	3.5
83	MP3B	Z	-10.482	3.5
84	MP3B	Mx	0	3.5
85	MP3C	X	-2.962	1.5
86	MP3C	Z	-5.131	1.5
87	MP3C	Mx	-0.003	1.5
88	MP3C	X	-2.962	3.5
89	MP3C	Z	-5.131	3.5
90	MP3C	Mx	-0.003	3.5
91	MP4A	X	-4.877	3
92	MP4A	Z	-8.448	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP4A	Mx	0.004	3
94	MP4B	X	-6.248	3
95	MP4B	Z	-10.822	3
96	MP4B	Mx	0	3
97	MP4C	X	-4.634	3
98	MP4C	Z	-8.027	3
99	MP4C	Mx	-0.004	3
100	MP5A	X	-1.29	4
101	MP5A	Z	-2.235	4
102	MP5A	Mx	0.001	4
103	MP5B	X	-1.29	4
104	MP5B	Z	-2.235	4
105	MP5B	Mx	0.001	4
106	MP5C	X	-1.29	4
107	MP5C	Z	-2.235	4
108	MP5C	Mx	0.001	4
109	MP5A	X	-1.29	4
110	MP5A	Z	-2.235	4
111	MP5A	Mx	-0.001	4
112	MP5B	X	-1.29	4
113	MP5B	Z	-2.235	4
114	MP5B	Mx	-0.001	4
115	MP5C	X	-1.29	4
116	MP5C	Z	-2.235	4
117	MP5C	Mx	-0.001	4
118	MP1A	X	-5.977	1.6
119	MP1A	Z	-10.353	1.6
120	MP1A	Mx	-0.005	1.6
121	MP1B	X	-5.977	1.6
122	MP1B	Z	-10.353	1.6
123	MP1B	Mx	0.005	1.6
124	MP1C	X	-6.53	1.6
125	MP1C	Z	-11.311	1.6
126	MP1C	Mx	-0.004	1.6
127	DONOR	X	-6.53	1.6
128	DONOR	Z	-11.311	1.6
129	DONOR	Mx	0.004	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	0	0.5
2	MP5A	Z	-9.164	0.5
3	MP5A	Mx	0.005	0.5
4	MP5A	X	0	4.5
5	MP5A	Z	-9.164	4.5
6	MP5A	Mx	0.005	4.5
7	MP5B	X	0	0.5
8	MP5B	Z	-7.794	0.5
9	MP5B	Mx	-0.002	0.5
10	MP5B	X	0	4.5
11	MP5B	Z	-7.794	4.5
12	MP5B	Mx	-0.002	4.5
13	MP5C	X	0	0.5
14	MP5C	Z	-3.851	0.5
15	MP5C	Mx	-0.002	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP5C	X	0	4.5
17	MP5C	Z	-3.851	4.5
18	MP5C	Mx	-0.002	4.5
19	MP5A	X	0	0.5
20	MP5A	Z	-9.164	0.5
21	MP5A	Mx	-0.005	0.5
22	MP5A	X	0	4.5
23	MP5A	Z	-9.164	4.5
24	MP5A	Mx	-0.005	4.5
25	MP5B	X	0	0.5
26	MP5B	Z	-7.794	0.5
27	MP5B	Mx	0.006	0.5
28	MP5B	X	0	4.5
29	MP5B	Z	-7.794	4.5
30	MP5B	Mx	0.006	4.5
31	MP5C	X	0	0.5
32	MP5C	Z	-3.851	0.5
33	MP5C	Mx	-0.002	0.5
34	MP5C	X	0	4.5
35	MP5C	Z	-3.851	4.5
36	MP5C	Mx	-0.002	4.5
37	MP2A	X	0	1.5
38	MP2A	Z	-6.042	1.5
39	MP2A	Mx	0	1.5
40	MP2B	X	0	1.5
41	MP2B	Z	-4.968	1.5
42	MP2B	Mx	0.001	1.5
43	MP2C	X	0	1.5
44	MP2C	Z	-1.877	1.5
45	MP2C	Mx	-0.000924	1.5
46	RADIOA	X	0	0.5
47	RADIOA	Z	-2.865	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	0	3
50	MP2A	Z	-1.45	3
51	MP2A	Mx	0	3
52	MP2B	X	0	3
53	MP2B	Z	-1.259	3
54	MP2B	Mx	-0.000315	3
55	MP2C	X	0	3
56	MP2C	Z	-0.708	3
57	MP2C	Mx	0.000349	3
58	MP3A	X	0	3
59	MP3A	Z	-1.349	3
60	MP3A	Mx	0	3
61	MP3B	X	0	3
62	MP3B	Z	-1.271	3
63	MP3B	Mx	-0.000318	3
64	MP3C	X	0	3
65	MP3C	Z	-1.047	3
66	MP3C	Mx	0.000516	3
67	RADIOB	X	0	0.5
68	RADIOB	Z	-2.865	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	RADIOC	Z	-2.865	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	0	1.5
74	MP3A	Z	-3.182	1.5
75	MP3A	Mx	0	1.5
76	MP3A	X	0	3.5
77	MP3A	Z	-3.182	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	1.5
80	MP3B	Z	-2.666	1.5
81	MP3B	Mx	0.000666	1.5
82	MP3B	X	0	3.5
83	MP3B	Z	-2.666	3.5
84	MP3B	Mx	0.000666	3.5
85	MP3C	X	0	1.5
86	MP3C	Z	-1.18	1.5
87	MP3C	Mx	-0.000581	1.5
88	MP3C	X	0	3.5
89	MP3C	Z	-1.18	3.5
90	MP3C	Mx	-0.000581	3.5
91	MP4A	X	0	3
92	MP4A	Z	-3.467	3
93	MP4A	Mx	0.000867	3
94	MP4B	X	0	3
95	MP4B	Z	-3.467	3
96	MP4B	Mx	0.000867	3
97	MP4C	X	0	3
98	MP4C	Z	-2.604	3
99	MP4C	Mx	-0.001	3
100	MP5A	X	0	4
101	MP5A	Z	-1.935	4
102	MP5A	Mx	0.001	4
103	MP5B	X	0	4
104	MP5B	Z	-1.935	4
105	MP5B	Mx	0.001	4
106	MP5C	X	0	4
107	MP5C	Z	-1.935	4
108	MP5C	Mx	0.001	4
109	MP5A	X	0	4
110	MP5A	Z	-1.935	4
111	MP5A	Mx	-0.000354	4
112	MP5B	X	0	4
113	MP5B	Z	-1.935	4
114	MP5B	Mx	-0.000354	4
115	MP5C	X	0	4
116	MP5C	Z	-1.935	4
117	MP5C	Mx	-0.000354	4
118	MP1A	X	0	1.6
119	MP1A	Z	-2.768	1.6
120	MP1A	Mx	-0.001	1.6
121	MP1B	X	0	1.6
122	MP1B	Z	-2.768	1.6
123	MP1B	Mx	0.001	1.6
124	MP1C	X	0	1.6
125	MP1C	Z	-4.77	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
126	MP1C	Mx	-0.000414	1.6
127	DONOR	X	0	1.6
128	DONOR	Z	-4.77	1.6
129	DONOR	Mx	0.000414	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	3.897	0.5
2	MP5A	Z	-6.75	0.5
3	MP5A	Mx	0.002	0.5
4	MP5A	X	3.897	4.5
5	MP5A	Z	-6.75	4.5
6	MP5A	Mx	0.002	4.5
7	MP5B	X	2.528	0.5
8	MP5B	Z	-4.378	0.5
9	MP5B	Mx	0.000715	0.5
10	MP5B	X	2.528	4.5
11	MP5B	Z	-4.378	4.5
12	MP5B	Mx	0.000715	4.5
13	MP5C	X	2.975	0.5
14	MP5C	Z	-5.152	0.5
15	MP5C	Mx	-0.005	0.5
16	MP5C	X	2.975	4.5
17	MP5C	Z	-5.152	4.5
18	MP5C	Mx	-0.005	4.5
19	MP5A	X	3.897	0.5
20	MP5A	Z	-6.75	0.5
21	MP5A	Mx	-0.006	0.5
22	MP5A	X	3.897	4.5
23	MP5A	Z	-6.75	4.5
24	MP5A	Mx	-0.006	4.5
25	MP5B	X	2.528	0.5
26	MP5B	Z	-4.378	0.5
27	MP5B	Mx	0.004	0.5
28	MP5B	X	2.528	4.5
29	MP5B	Z	-4.378	4.5
30	MP5B	Mx	0.004	4.5
31	MP5C	X	2.975	0.5
32	MP5C	Z	-5.152	0.5
33	MP5C	Mx	-4.8e-5	0.5
34	MP5C	X	2.975	4.5
35	MP5C	Z	-5.152	4.5
36	MP5C	Mx	-4.8e-5	4.5
37	MP2A	X	2.484	1.5
38	MP2A	Z	-4.303	1.5
39	MP2A	Mx	-0.001	1.5
40	MP2B	X	1.41	1.5
41	MP2B	Z	-2.443	1.5
42	MP2B	Mx	0.001	1.5
43	MP2C	X	1.761	1.5
44	MP2C	Z	-3.05	1.5
45	MP2C	Mx	-0.001	1.5
46	RADIOA	X	1.176	0.5
47	RADIOA	Z	-2.036	0.5
48	RADIOA	Mx	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2A	X	0.629	3
50	MP2A	Z	-1.09	3
51	MP2A	Mx	0.000314	3
52	MP2B	X	0.438	3
53	MP2B	Z	-0.759	3
54	MP2B	Mx	-0.000379	3
55	MP2C	X	0.501	3
56	MP2C	Z	-0.867	3
57	MP2C	Mx	0.000383	3
58	MP3A	X	0.636	3
59	MP3A	Z	-1.101	3
60	MP3A	Mx	0.000318	3
61	MP3B	X	0.558	3
62	MP3B	Z	-0.966	3
63	MP3B	Mx	-0.000483	3
64	MP3C	X	0.583	3
65	MP3C	Z	-1.01	3
66	MP3C	Mx	0.000447	3
67	RADIOB	X	1.176	0.5
68	RADIOB	Z	-2.036	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	1.176	0.5
71	RADIOC	Z	-2.036	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	1.333	1.5
74	MP3A	Z	-2.309	1.5
75	MP3A	Mx	-0.000666	1.5
76	MP3A	X	1.333	3.5
77	MP3A	Z	-2.309	3.5
78	MP3A	Mx	-0.000666	3.5
79	MP3B	X	0.817	1.5
80	MP3B	Z	-1.415	1.5
81	MP3B	Mx	0.000708	1.5
82	MP3B	X	0.817	3.5
83	MP3B	Z	-1.415	3.5
84	MP3B	Mx	0.000708	3.5
85	MP3C	X	0.985	1.5
86	MP3C	Z	-1.707	1.5
87	MP3C	Mx	-0.000755	1.5
88	MP3C	X	0.985	3.5
89	MP3C	Z	-1.707	3.5
90	MP3C	Mx	-0.000755	3.5
91	MP4A	X	1.883	3
92	MP4A	Z	-3.262	3
93	MP4A	Mx	0	3
94	MP4B	X	1.434	3
95	MP4B	Z	-2.483	3
96	MP4B	Mx	0.001	3
97	MP4C	X	1.532	3
98	MP4C	Z	-2.653	3
99	MP4C	Mx	-0.001	3
100	MP5A	X	0.969	4
101	MP5A	Z	-1.678	4
102	MP5A	Mx	0.001	4
103	MP5B	X	0.969	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5B	Z	-1.678	4
105	MP5B	Mx	0.001	4
106	MP5C	X	0.969	4
107	MP5C	Z	-1.678	4
108	MP5C	Mx	0.001	4
109	MP5A	X	0.969	4
110	MP5A	Z	-1.678	4
111	MP5A	Mx	0.000355	4
112	MP5B	X	0.969	4
113	MP5B	Z	-1.678	4
114	MP5B	Mx	0.000355	4
115	MP5C	X	0.969	4
116	MP5C	Z	-1.678	4
117	MP5C	Mx	0.000355	4
118	MP1A	X	1.477	1.6
119	MP1A	Z	-2.557	1.6
120	MP1A	Mx	-0.001	1.6
121	MP1B	X	1.477	1.6
122	MP1B	Z	-2.557	1.6
123	MP1B	Mx	0.001	1.6
124	MP1C	X	2.292	1.6
125	MP1C	Z	-3.97	1.6
126	MP1C	Mx	0.000784	1.6
127	DONOR	X	2.292	1.6
128	DONOR	Z	-3.97	1.6
129	DONOR	Mx	-0.000784	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	4.378	0.5
2	MP5A	Z	-2.528	0.5
3	MP5A	Mx	-0.000714	0.5
4	MP5A	X	4.378	4.5
5	MP5A	Z	-2.528	4.5
6	MP5A	Mx	-0.000714	4.5
7	MP5B	X	3.192	0.5
8	MP5B	Z	-1.843	0.5
9	MP5B	Mx	0.002	0.5
10	MP5B	X	3.192	4.5
11	MP5B	Z	-1.843	4.5
12	MP5B	Mx	0.002	4.5
13	MP5C	X	7.381	0.5
14	MP5C	Z	-4.262	0.5
15	MP5C	Mx	-0.006	0.5
16	MP5C	X	7.381	4.5
17	MP5C	Z	-4.262	4.5
18	MP5C	Mx	-0.006	4.5
19	MP5A	X	4.378	0.5
20	MP5A	Z	-2.528	0.5
21	MP5A	Mx	-0.004	0.5
22	MP5A	X	4.378	4.5
23	MP5A	Z	-2.528	4.5
24	MP5A	Mx	-0.004	4.5
25	MP5B	X	3.192	0.5
26	MP5B	Z	-1.843	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP5B	Mx	0.002	0.5
28	MP5B	X	3.192	4.5
29	MP5B	Z	-1.843	4.5
30	MP5B	Mx	0.002	4.5
31	MP5C	X	7.381	0.5
32	MP5C	Z	-4.262	0.5
33	MP5C	Mx	0.003	0.5
34	MP5C	X	7.381	4.5
35	MP5C	Z	-4.262	4.5
36	MP5C	Mx	0.003	4.5
37	MP2A	X	2.443	1.5
38	MP2A	Z	-1.41	1.5
39	MP2A	Mx	-0.001	1.5
40	MP2B	X	1.513	1.5
41	MP2B	Z	-0.874	1.5
42	MP2B	Mx	0.000874	1.5
43	MP2C	X	4.798	1.5
44	MP2C	Z	-2.77	1.5
45	MP2C	Mx	-0.000947	1.5
46	RADIOA	X	1.814	0.5
47	RADIOA	Z	-1.047	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	0.759	3
50	MP2A	Z	-0.438	3
51	MP2A	Mx	0.00038	3
52	MP2B	X	0.593	3
53	MP2B	Z	-0.342	3
54	MP2B	Mx	-0.000342	3
55	MP2C	X	1.178	3
56	MP2C	Z	-0.68	3
57	MP2C	Mx	0.000233	3
58	MP3A	X	0.966	3
59	MP3A	Z	-0.558	3
60	MP3A	Mx	0.000483	3
61	MP3B	X	0.899	3
62	MP3B	Z	-0.519	3
63	MP3B	Mx	-0.000519	3
64	MP3C	X	1.137	3
65	MP3C	Z	-0.656	3
66	MP3C	Mx	0.000224	3
67	RADIOB	X	1.814	0.5
68	RADIOB	Z	-1.047	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	1.814	0.5
71	RADIOC	Z	-1.047	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	1.415	1.5
74	MP3A	Z	-0.817	1.5
75	MP3A	Mx	-0.000708	1.5
76	MP3A	X	1.415	3.5
77	MP3A	Z	-0.817	3.5
78	MP3A	Mx	-0.000708	3.5
79	MP3B	X	0.968	1.5
80	MP3B	Z	-0.559	1.5
81	MP3B	Mx	0.000559	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP3B	X	0.968	3.5
83	MP3B	Z	-0.559	3.5
84	MP3B	Mx	0.000559	3.5
85	MP3C	X	2.547	1.5
86	MP3C	Z	-1.47	1.5
87	MP3C	Mx	-0.000503	1.5
88	MP3C	X	2.547	3.5
89	MP3C	Z	-1.47	3.5
90	MP3C	Mx	-0.000503	3.5
91	MP4A	X	3.002	3
92	MP4A	Z	-1.733	3
93	MP4A	Mx	-0.000867	3
94	MP4B	X	2.224	3
95	MP4B	Z	-1.284	3
96	MP4B	Mx	0.001	3
97	MP4C	X	3.14	3
98	MP4C	Z	-1.813	3
99	MP4C	Mx	-0.00062	3
100	MP5A	X	1.679	4
101	MP5A	Z	-0.97	4
102	MP5A	Mx	0.00097	4
103	MP5B	X	1.679	4
104	MP5B	Z	-0.97	4
105	MP5B	Mx	0.00097	4
106	MP5C	X	1.679	4
107	MP5C	Z	-0.97	4
108	MP5C	Mx	0.00097	4
109	MP5A	X	1.679	4
110	MP5A	Z	-0.97	4
111	MP5A	Mx	0.000969	4
112	MP5B	X	1.679	4
113	MP5B	Z	-0.97	4
114	MP5B	Mx	0.000969	4
115	MP5C	X	1.679	4
116	MP5C	Z	-0.97	4
117	MP5C	Mx	0.000969	4
118	MP1A	X	3.424	1.6
119	MP1A	Z	-1.977	1.6
120	MP1A	Mx	-0.001	1.6
121	MP1B	X	3.424	1.6
122	MP1B	Z	-1.977	1.6
123	MP1B	Mx	0.001	1.6
124	MP1C	X	3.104	1.6
125	MP1C	Z	-1.792	1.6
126	MP1C	Mx	0.001	1.6
127	DONOR	X	3.104	1.6
128	DONOR	Z	-1.792	1.6
129	DONOR	Mx	-0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	3.686	0.5
2	MP5A	Z	0	0.5
3	MP5A	Mx	-0.002	0.5
4	MP5A	X	3.686	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP5A	Z	0	4.5
6	MP5A	Mx	-0.002	4.5
7	MP5B	X	5.055	0.5
8	MP5B	Z	0	0.5
9	MP5B	Mx	0.004	0.5
10	MP5B	X	5.055	4.5
11	MP5B	Z	0	4.5
12	MP5B	Mx	0.004	4.5
13	MP5C	X	8.999	0.5
14	MP5C	Z	0	0.5
15	MP5C	Mx	-0.004	0.5
16	MP5C	X	8.999	4.5
17	MP5C	Z	0	4.5
18	MP5C	Mx	-0.004	4.5
19	MP5A	X	3.686	0.5
20	MP5A	Z	0	0.5
21	MP5A	Mx	-0.002	0.5
22	MP5A	X	3.686	4.5
23	MP5A	Z	0	4.5
24	MP5A	Mx	-0.002	4.5
25	MP5B	X	5.055	0.5
26	MP5B	Z	0	0.5
27	MP5B	Mx	0.000715	0.5
28	MP5B	X	5.055	4.5
29	MP5B	Z	0	4.5
30	MP5B	Mx	0.000715	4.5
31	MP5C	X	8.999	0.5
32	MP5C	Z	0	0.5
33	MP5C	Mx	0.006	0.5
34	MP5C	X	8.999	4.5
35	MP5C	Z	0	4.5
36	MP5C	Mx	0.006	4.5
37	MP2A	X	1.747	1.5
38	MP2A	Z	0	1.5
39	MP2A	Mx	-0.000874	1.5
40	MP2B	X	2.821	1.5
41	MP2B	Z	0	1.5
42	MP2B	Mx	0.001	1.5
43	MP2C	X	5.913	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	0.000513	1.5
46	RADIOA	X	2.351	0.5
47	RADIOA	Z	0	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	0.685	3
50	MP2A	Z	0	3
51	MP2A	Mx	0.000343	3
52	MP2B	X	0.876	3
53	MP2B	Z	0	3
54	MP2B	Mx	-0.000379	3
55	MP2C	X	1.427	3
56	MP2C	Z	0	3
57	MP2C	Mx	-0.000124	3
58	MP3A	X	1.038	3
59	MP3A	Z	0	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3A	Mx	0.000519	3
61	MP3B	X	1.116	3
62	MP3B	Z	0	3
63	MP3B	Mx	-0.000483	3
64	MP3C	X	1.34	3
65	MP3C	Z	0	3
66	MP3C	Mx	-0.000116	3
67	RADIOB	X	2.351	0.5
68	RADIOB	Z	0	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	2.351	0.5
71	RADIOC	Z	0	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	1.118	1.5
74	MP3A	Z	0	1.5
75	MP3A	Mx	-0.000559	1.5
76	MP3A	X	1.118	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	-0.000559	3.5
79	MP3B	X	1.634	1.5
80	MP3B	Z	0	1.5
81	MP3B	Mx	0.000708	1.5
82	MP3B	X	1.634	3.5
83	MP3B	Z	0	3.5
84	MP3B	Mx	0.000708	3.5
85	MP3C	X	3.12	1.5
86	MP3C	Z	0	1.5
87	MP3C	Mx	0.000271	1.5
88	MP3C	X	3.12	3.5
89	MP3C	Z	0	3.5
90	MP3C	Mx	0.000271	3.5
91	MP4A	X	2.868	3
92	MP4A	Z	0	3
93	MP4A	Mx	-0.001	3
94	MP4B	X	2.868	3
95	MP4B	Z	0	3
96	MP4B	Mx	0.001	3
97	MP4C	X	3.73	3
98	MP4C	Z	0	3
99	MP4C	Mx	0.000324	3
100	MP5A	X	1.938	4
101	MP5A	Z	0	4
102	MP5A	Mx	0.000355	4
103	MP5B	X	1.938	4
104	MP5B	Z	0	4
105	MP5B	Mx	0.000355	4
106	MP5C	X	1.938	4
107	MP5C	Z	0	4
108	MP5C	Mx	0.000355	4
109	MP5A	X	1.938	4
110	MP5A	Z	0	4
111	MP5A	Mx	0.001	4
112	MP5B	X	1.938	4
113	MP5B	Z	0	4
114	MP5B	Mx	0.001	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
115	MP5C	X	1.938	4
116	MP5C	Z	0	4
117	MP5C	Mx	0.001	4
118	MP1A	X	4.77	1.6
119	MP1A	Z	0	1.6
120	MP1A	Mx	-0.000414	1.6
121	MP1B	X	4.77	1.6
122	MP1B	Z	0	1.6
123	MP1B	Mx	0.000414	1.6
124	MP1C	X	2.768	1.6
125	MP1C	Z	0	1.6
126	MP1C	Mx	0.001	1.6
127	DONOR	X	2.768	1.6
128	DONOR	Z	0	1.6
129	DONOR	Mx	-0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	4.378	0.5
2	MP5A	Z	2.528	0.5
3	MP5A	Mx	-0.004	0.5
4	MP5A	X	4.378	4.5
5	MP5A	Z	2.528	4.5
6	MP5A	Mx	-0.004	4.5
7	MP5B	X	6.75	0.5
8	MP5B	Z	3.897	0.5
9	MP5B	Mx	0.006	0.5
10	MP5B	X	6.75	4.5
11	MP5B	Z	3.897	4.5
12	MP5B	Mx	0.006	4.5
13	MP5C	X	5.976	0.5
14	MP5C	Z	3.45	0.5
15	MP5C	Mx	-0.000866	0.5
16	MP5C	X	5.976	4.5
17	MP5C	Z	3.45	4.5
18	MP5C	Mx	-0.000866	4.5
19	MP5A	X	4.378	0.5
20	MP5A	Z	2.528	0.5
21	MP5A	Mx	-0.000714	0.5
22	MP5A	X	4.378	4.5
23	MP5A	Z	2.528	4.5
24	MP5A	Mx	-0.000714	4.5
25	MP5B	X	6.75	0.5
26	MP5B	Z	3.897	0.5
27	MP5B	Mx	-0.002	0.5
28	MP5B	X	6.75	4.5
29	MP5B	Z	3.897	4.5
30	MP5B	Mx	-0.002	4.5
31	MP5C	X	5.976	0.5
32	MP5C	Z	3.45	0.5
33	MP5C	Mx	0.005	0.5
34	MP5C	X	5.976	4.5
35	MP5C	Z	3.45	4.5
36	MP5C	Mx	0.005	4.5
37	MP2A	X	2.443	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2A	Z	1.41	1.5
39	MP2A	Mx	-0.001	1.5
40	MP2B	X	4.303	1.5
41	MP2B	Z	2.484	1.5
42	MP2B	Mx	0.001	1.5
43	MP2C	X	3.696	1.5
44	MP2C	Z	2.134	1.5
45	MP2C	Mx	0.001	1.5
46	RADIOA	X	2.481	0.5
47	RADIOA	Z	1.433	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	0.759	3
50	MP2A	Z	0.438	3
51	MP2A	Mx	0.00038	3
52	MP2B	X	1.09	3
53	MP2B	Z	0.629	3
54	MP2B	Mx	-0.000315	3
55	MP2C	X	0.982	3
56	MP2C	Z	0.567	3
57	MP2C	Mx	-0.000364	3
58	MP3A	X	0.966	3
59	MP3A	Z	0.558	3
60	MP3A	Mx	0.000483	3
61	MP3B	X	1.101	3
62	MP3B	Z	0.636	3
63	MP3B	Mx	-0.000318	3
64	MP3C	X	1.057	3
65	MP3C	Z	0.61	3
66	MP3C	Mx	-0.000392	3
67	RADIOB	X	2.481	0.5
68	RADIOB	Z	1.433	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	2.481	0.5
71	RADIOC	Z	1.433	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	1.415	1.5
74	MP3A	Z	0.817	1.5
75	MP3A	Mx	-0.000708	1.5
76	MP3A	X	1.415	3.5
77	MP3A	Z	0.817	3.5
78	MP3A	Mx	-0.000708	3.5
79	MP3B	X	2.309	1.5
80	MP3B	Z	1.333	1.5
81	MP3B	Mx	0.000667	1.5
82	MP3B	X	2.309	3.5
83	MP3B	Z	1.333	3.5
84	MP3B	Mx	0.000667	3.5
85	MP3C	X	2.017	1.5
86	MP3C	Z	1.165	1.5
87	MP3C	Mx	0.000749	1.5
88	MP3C	X	2.017	3.5
89	MP3C	Z	1.165	3.5
90	MP3C	Mx	0.000749	3.5
91	MP4A	X	2.224	3
92	MP4A	Z	1.284	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP4A	Mx	-0.001	3
94	MP4B	X	3.002	3
95	MP4B	Z	1.733	3
96	MP4B	Mx	0.000867	3
97	MP4C	X	2.833	3
98	MP4C	Z	1.636	3
99	MP4C	Mx	0.001	3
100	MP5A	X	1.676	4
101	MP5A	Z	0.967	4
102	MP5A	Mx	-0.000354	4
103	MP5B	X	1.676	4
104	MP5B	Z	0.967	4
105	MP5B	Mx	-0.000354	4
106	MP5C	X	1.676	4
107	MP5C	Z	0.967	4
108	MP5C	Mx	-0.000354	4
109	MP5A	X	1.676	4
110	MP5A	Z	0.967	4
111	MP5A	Mx	0.001	4
112	MP5B	X	1.676	4
113	MP5B	Z	0.967	4
114	MP5B	Mx	0.001	4
115	MP5C	X	1.676	4
116	MP5C	Z	0.967	4
117	MP5C	Mx	0.001	4
118	MP1A	X	3.97	1.6
119	MP1A	Z	2.292	1.6
120	MP1A	Mx	0.000784	1.6
121	MP1B	X	3.97	1.6
122	MP1B	Z	2.292	1.6
123	MP1B	Mx	-0.000784	1.6
124	MP1C	X	2.557	1.6
125	MP1C	Z	1.477	1.6
126	MP1C	Mx	0.001	1.6
127	DONOR	X	2.557	1.6
128	DONOR	Z	1.477	1.6
129	DONOR	Mx	-0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	3.897	0.5
2	MP5A	Z	6.75	0.5
3	MP5A	Mx	-0.006	0.5
4	MP5A	X	3.897	4.5
5	MP5A	Z	6.75	4.5
6	MP5A	Mx	-0.006	4.5
7	MP5B	X	4.582	0.5
8	MP5B	Z	7.936	0.5
9	MP5B	Mx	0.005	0.5
10	MP5B	X	4.582	4.5
11	MP5B	Z	7.936	4.5
12	MP5B	Mx	0.005	4.5
13	MP5C	X	2.163	0.5
14	MP5C	Z	3.747	0.5
15	MP5C	Mx	0.001	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP5C	X	2.163	4.5
17	MP5C	Z	3.747	4.5
18	MP5C	Mx	0.001	4.5
19	MP5A	X	3.897	0.5
20	MP5A	Z	6.75	0.5
21	MP5A	Mx	0.002	0.5
22	MP5A	X	3.897	4.5
23	MP5A	Z	6.75	4.5
24	MP5A	Mx	0.002	4.5
25	MP5B	X	4.582	0.5
26	MP5B	Z	7.936	0.5
27	MP5B	Mx	-0.005	0.5
28	MP5B	X	4.582	4.5
29	MP5B	Z	7.936	4.5
30	MP5B	Mx	-0.005	4.5
31	MP5C	X	2.163	0.5
32	MP5C	Z	3.747	0.5
33	MP5C	Mx	0.003	0.5
34	MP5C	X	2.163	4.5
35	MP5C	Z	3.747	4.5
36	MP5C	Mx	0.003	4.5
37	MP2A	X	2.484	1.5
38	MP2A	Z	4.303	1.5
39	MP2A	Mx	-0.001	1.5
40	MP2B	X	3.021	1.5
41	MP2B	Z	5.233	1.5
42	MP2B	Mx	0	1.5
43	MP2C	X	1.125	1.5
44	MP2C	Z	1.948	1.5
45	MP2C	Mx	0.001	1.5
46	RADIOA	X	1.561	0.5
47	RADIOA	Z	2.704	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	0.629	3
50	MP2A	Z	1.09	3
51	MP2A	Mx	0.000314	3
52	MP2B	X	0.725	3
53	MP2B	Z	1.256	3
54	MP2B	Mx	0	3
55	MP2C	X	0.387	3
56	MP2C	Z	0.671	3
57	MP2C	Mx	-0.000364	3
58	MP3A	X	0.636	3
59	MP3A	Z	1.101	3
60	MP3A	Mx	0.000318	3
61	MP3B	X	0.675	3
62	MP3B	Z	1.169	3
63	MP3B	Mx	0	3
64	MP3C	X	0.537	3
65	MP3C	Z	0.93	3
66	MP3C	Mx	-0.000505	3
67	RADIOB	X	1.561	0.5
68	RADIOB	Z	2.704	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	1.561	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	RADIOC	Z	2.704	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	1.333	1.5
74	MP3A	Z	2.309	1.5
75	MP3A	Mx	-0.000666	1.5
76	MP3A	X	1.333	3.5
77	MP3A	Z	2.309	3.5
78	MP3A	Mx	-0.000666	3.5
79	MP3B	X	1.591	1.5
80	MP3B	Z	2.756	1.5
81	MP3B	Mx	0	1.5
82	MP3B	X	1.591	3.5
83	MP3B	Z	2.756	3.5
84	MP3B	Mx	0	3.5
85	MP3C	X	0.68	1.5
86	MP3C	Z	1.177	1.5
87	MP3C	Mx	0.000639	1.5
88	MP3C	X	0.68	3.5
89	MP3C	Z	1.177	3.5
90	MP3C	Mx	0.000639	3.5
91	MP4A	X	1.434	3
92	MP4A	Z	2.483	3
93	MP4A	Mx	-0.001	3
94	MP4B	X	1.883	3
95	MP4B	Z	3.262	3
96	MP4B	Mx	0	3
97	MP4C	X	1.354	3
98	MP4C	Z	2.345	3
99	MP4C	Mx	0.001	3
100	MP5A	X	0.967	4
101	MP5A	Z	1.674	4
102	MP5A	Mx	-0.000966	4
103	MP5B	X	0.967	4
104	MP5B	Z	1.674	4
105	MP5B	Mx	-0.000966	4
106	MP5C	X	0.967	4
107	MP5C	Z	1.674	4
108	MP5C	Mx	-0.000966	4
109	MP5A	X	0.967	4
110	MP5A	Z	1.674	4
111	MP5A	Mx	0.000967	4
112	MP5B	X	0.967	4
113	MP5B	Z	1.674	4
114	MP5B	Mx	0.000967	4
115	MP5C	X	0.967	4
116	MP5C	Z	1.674	4
117	MP5C	Mx	0.000967	4
118	MP1A	X	1.792	1.6
119	MP1A	Z	3.104	1.6
120	MP1A	Mx	0.001	1.6
121	MP1B	X	1.792	1.6
122	MP1B	Z	3.104	1.6
123	MP1B	Mx	-0.001	1.6
124	MP1C	X	1.977	1.6
125	MP1C	Z	3.424	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
126	MP1C	Mx	0.001	1.6
127	DONOR	X	1.977	1.6
128	DONOR	Z	3.424	1.6
129	DONOR	Mx	-0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	0	0.5
2	MP5A	Z	9.164	0.5
3	MP5A	Mx	-0.005	0.5
4	MP5A	X	0	4.5
5	MP5A	Z	9.164	4.5
6	MP5A	Mx	-0.005	4.5
7	MP5B	X	0	0.5
8	MP5B	Z	7.794	0.5
9	MP5B	Mx	0.002	0.5
10	MP5B	X	0	4.5
11	MP5B	Z	7.794	4.5
12	MP5B	Mx	0.002	4.5
13	MP5C	X	0	0.5
14	MP5C	Z	3.851	0.5
15	MP5C	Mx	0.002	0.5
16	MP5C	X	0	4.5
17	MP5C	Z	3.851	4.5
18	MP5C	Mx	0.002	4.5
19	MP5A	X	0	0.5
20	MP5A	Z	9.164	0.5
21	MP5A	Mx	0.005	0.5
22	MP5A	X	0	4.5
23	MP5A	Z	9.164	4.5
24	MP5A	Mx	0.005	4.5
25	MP5B	X	0	0.5
26	MP5B	Z	7.794	0.5
27	MP5B	Mx	-0.006	0.5
28	MP5B	X	0	4.5
29	MP5B	Z	7.794	4.5
30	MP5B	Mx	-0.006	4.5
31	MP5C	X	0	0.5
32	MP5C	Z	3.851	0.5
33	MP5C	Mx	0.002	0.5
34	MP5C	X	0	4.5
35	MP5C	Z	3.851	4.5
36	MP5C	Mx	0.002	4.5
37	MP2A	X	0	1.5
38	MP2A	Z	6.042	1.5
39	MP2A	Mx	0	1.5
40	MP2B	X	0	1.5
41	MP2B	Z	4.968	1.5
42	MP2B	Mx	-0.001	1.5
43	MP2C	X	0	1.5
44	MP2C	Z	1.877	1.5
45	MP2C	Mx	0.000924	1.5
46	RADIOA	X	0	0.5
47	RADIOA	Z	2.865	0.5
48	RADIOA	Mx	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2A	X	0	3
50	MP2A	Z	1.45	3
51	MP2A	Mx	0	3
52	MP2B	X	0	3
53	MP2B	Z	1.259	3
54	MP2B	Mx	0.000315	3
55	MP2C	X	0	3
56	MP2C	Z	0.708	3
57	MP2C	Mx	-0.000349	3
58	MP3A	X	0	3
59	MP3A	Z	1.349	3
60	MP3A	Mx	0	3
61	MP3B	X	0	3
62	MP3B	Z	1.271	3
63	MP3B	Mx	0.000318	3
64	MP3C	X	0	3
65	MP3C	Z	1.047	3
66	MP3C	Mx	-0.000516	3
67	RADIOB	X	0	0.5
68	RADIOB	Z	2.865	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	0	0.5
71	RADIOC	Z	2.865	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	0	1.5
74	MP3A	Z	3.182	1.5
75	MP3A	Mx	0	1.5
76	MP3A	X	0	3.5
77	MP3A	Z	3.182	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	1.5
80	MP3B	Z	2.666	1.5
81	MP3B	Mx	-0.000666	1.5
82	MP3B	X	0	3.5
83	MP3B	Z	2.666	3.5
84	MP3B	Mx	-0.000666	3.5
85	MP3C	X	0	1.5
86	MP3C	Z	1.18	1.5
87	MP3C	Mx	0.000581	1.5
88	MP3C	X	0	3.5
89	MP3C	Z	1.18	3.5
90	MP3C	Mx	0.000581	3.5
91	MP4A	X	0	3
92	MP4A	Z	3.467	3
93	MP4A	Mx	-0.000867	3
94	MP4B	X	0	3
95	MP4B	Z	3.467	3
96	MP4B	Mx	-0.000867	3
97	MP4C	X	0	3
98	MP4C	Z	2.604	3
99	MP4C	Mx	0.001	3
100	MP5A	X	0	4
101	MP5A	Z	1.935	4
102	MP5A	Mx	-0.001	4
103	MP5B	X	0	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5B	Z	1.935	4
105	MP5B	Mx	-0.001	4
106	MP5C	X	0	4
107	MP5C	Z	1.935	4
108	MP5C	Mx	-0.001	4
109	MP5A	X	0	4
110	MP5A	Z	1.935	4
111	MP5A	Mx	0.000354	4
112	MP5B	X	0	4
113	MP5B	Z	1.935	4
114	MP5B	Mx	0.000354	4
115	MP5C	X	0	4
116	MP5C	Z	1.935	4
117	MP5C	Mx	0.000354	4
118	MP1A	X	0	1.6
119	MP1A	Z	2.768	1.6
120	MP1A	Mx	0.001	1.6
121	MP1B	X	0	1.6
122	MP1B	Z	2.768	1.6
123	MP1B	Mx	-0.001	1.6
124	MP1C	X	0	1.6
125	MP1C	Z	4.77	1.6
126	MP1C	Mx	0.000414	1.6
127	DONOR	X	0	1.6
128	DONOR	Z	4.77	1.6
129	DONOR	Mx	-0.000414	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-3.897	0.5
2	MP5A	Z	6.75	0.5
3	MP5A	Mx	-0.002	0.5
4	MP5A	X	-3.897	4.5
5	MP5A	Z	6.75	4.5
6	MP5A	Mx	-0.002	4.5
7	MP5B	X	-2.528	0.5
8	MP5B	Z	4.378	0.5
9	MP5B	Mx	-0.000715	0.5
10	MP5B	X	-2.528	4.5
11	MP5B	Z	4.378	4.5
12	MP5B	Mx	-0.000715	4.5
13	MP5C	X	-2.975	0.5
14	MP5C	Z	5.152	0.5
15	MP5C	Mx	0.005	0.5
16	MP5C	X	-2.975	4.5
17	MP5C	Z	5.152	4.5
18	MP5C	Mx	0.005	4.5
19	MP5A	X	-3.897	0.5
20	MP5A	Z	6.75	0.5
21	MP5A	Mx	0.006	0.5
22	MP5A	X	-3.897	4.5
23	MP5A	Z	6.75	4.5
24	MP5A	Mx	0.006	4.5
25	MP5B	X	-2.528	0.5
26	MP5B	Z	4.378	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
27	MP5B	Mx	-0.004	0.5
28	MP5B	X	-2.528	4.5
29	MP5B	Z	4.378	4.5
30	MP5B	Mx	-0.004	4.5
31	MP5C	X	-2.975	0.5
32	MP5C	Z	5.152	0.5
33	MP5C	Mx	4.8e-5	0.5
34	MP5C	X	-2.975	4.5
35	MP5C	Z	5.152	4.5
36	MP5C	Mx	4.8e-5	4.5
37	MP2A	X	-2.484	1.5
38	MP2A	Z	4.303	1.5
39	MP2A	Mx	0.001	1.5
40	MP2B	X	-1.41	1.5
41	MP2B	Z	2.443	1.5
42	MP2B	Mx	-0.001	1.5
43	MP2C	X	-1.761	1.5
44	MP2C	Z	3.05	1.5
45	MP2C	Mx	0.001	1.5
46	RADIOA	X	-1.176	0.5
47	RADIOA	Z	2.036	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-0.629	3
50	MP2A	Z	1.09	3
51	MP2A	Mx	-0.000314	3
52	MP2B	X	-0.438	3
53	MP2B	Z	0.759	3
54	MP2B	Mx	0.000379	3
55	MP2C	X	-0.501	3
56	MP2C	Z	0.867	3
57	MP2C	Mx	-0.000383	3
58	MP3A	X	-0.636	3
59	MP3A	Z	1.101	3
60	MP3A	Mx	-0.000318	3
61	MP3B	X	-0.558	3
62	MP3B	Z	0.966	3
63	MP3B	Mx	0.000483	3
64	MP3C	X	-0.583	3
65	MP3C	Z	1.01	3
66	MP3C	Mx	-0.000447	3
67	RADIOB	X	-1.176	0.5
68	RADIOB	Z	2.036	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-1.176	0.5
71	RADIOC	Z	2.036	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-1.333	1.5
74	MP3A	Z	2.309	1.5
75	MP3A	Mx	0.000666	1.5
76	MP3A	X	-1.333	3.5
77	MP3A	Z	2.309	3.5
78	MP3A	Mx	0.000666	3.5
79	MP3B	X	-0.817	1.5
80	MP3B	Z	1.415	1.5
81	MP3B	Mx	-0.000708	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
82	MP3B	X	-0.817	3.5
83	MP3B	Z	1.415	3.5
84	MP3B	Mx	-0.000708	3.5
85	MP3C	X	-0.985	1.5
86	MP3C	Z	1.707	1.5
87	MP3C	Mx	0.000755	1.5
88	MP3C	X	-0.985	3.5
89	MP3C	Z	1.707	3.5
90	MP3C	Mx	0.000755	3.5
91	MP4A	X	-1.883	3
92	MP4A	Z	3.262	3
93	MP4A	Mx	0	3
94	MP4B	X	-1.434	3
95	MP4B	Z	2.483	3
96	MP4B	Mx	-0.001	3
97	MP4C	X	-1.532	3
98	MP4C	Z	2.653	3
99	MP4C	Mx	0.001	3
100	MP5A	X	-0.969	4
101	MP5A	Z	1.678	4
102	MP5A	Mx	-0.001	4
103	MP5B	X	-0.969	4
104	MP5B	Z	1.678	4
105	MP5B	Mx	-0.001	4
106	MP5C	X	-0.969	4
107	MP5C	Z	1.678	4
108	MP5C	Mx	-0.001	4
109	MP5A	X	-0.969	4
110	MP5A	Z	1.678	4
111	MP5A	Mx	-0.000355	4
112	MP5B	X	-0.969	4
113	MP5B	Z	1.678	4
114	MP5B	Mx	-0.000355	4
115	MP5C	X	-0.969	4
116	MP5C	Z	1.678	4
117	MP5C	Mx	-0.000355	4
118	MP1A	X	-1.477	1.6
119	MP1A	Z	2.557	1.6
120	MP1A	Mx	0.001	1.6
121	MP1B	X	-1.477	1.6
122	MP1B	Z	2.557	1.6
123	MP1B	Mx	-0.001	1.6
124	MP1C	X	-2.292	1.6
125	MP1C	Z	3.97	1.6
126	MP1C	Mx	-0.000784	1.6
127	DONOR	X	-2.292	1.6
128	DONOR	Z	3.97	1.6
129	DONOR	Mx	0.000784	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-4.378	0.5
2	MP5A	Z	2.528	0.5
3	MP5A	Mx	0.000714	0.5
4	MP5A	X	-4.378	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP5A	Z	2.528	4.5
6	MP5A	Mx	0.000714	4.5
7	MP5B	X	-3.192	0.5
8	MP5B	Z	1.843	0.5
9	MP5B	Mx	-0.002	0.5
10	MP5B	X	-3.192	4.5
11	MP5B	Z	1.843	4.5
12	MP5B	Mx	-0.002	4.5
13	MP5C	X	-7.381	0.5
14	MP5C	Z	4.262	0.5
15	MP5C	Mx	0.006	0.5
16	MP5C	X	-7.381	4.5
17	MP5C	Z	4.262	4.5
18	MP5C	Mx	0.006	4.5
19	MP5A	X	-4.378	0.5
20	MP5A	Z	2.528	0.5
21	MP5A	Mx	0.004	0.5
22	MP5A	X	-4.378	4.5
23	MP5A	Z	2.528	4.5
24	MP5A	Mx	0.004	4.5
25	MP5B	X	-3.192	0.5
26	MP5B	Z	1.843	0.5
27	MP5B	Mx	-0.002	0.5
28	MP5B	X	-3.192	4.5
29	MP5B	Z	1.843	4.5
30	MP5B	Mx	-0.002	4.5
31	MP5C	X	-7.381	0.5
32	MP5C	Z	4.262	0.5
33	MP5C	Mx	-0.003	0.5
34	MP5C	X	-7.381	4.5
35	MP5C	Z	4.262	4.5
36	MP5C	Mx	-0.003	4.5
37	MP2A	X	-2.443	1.5
38	MP2A	Z	1.41	1.5
39	MP2A	Mx	0.001	1.5
40	MP2B	X	-1.513	1.5
41	MP2B	Z	0.874	1.5
42	MP2B	Mx	-0.000874	1.5
43	MP2C	X	-4.798	1.5
44	MP2C	Z	2.77	1.5
45	MP2C	Mx	0.000947	1.5
46	RADIOA	X	-1.814	0.5
47	RADIOA	Z	1.047	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-0.759	3
50	MP2A	Z	0.438	3
51	MP2A	Mx	-0.00038	3
52	MP2B	X	-0.593	3
53	MP2B	Z	0.342	3
54	MP2B	Mx	0.000342	3
55	MP2C	X	-1.178	3
56	MP2C	Z	0.68	3
57	MP2C	Mx	-0.000233	3
58	MP3A	X	-0.966	3
59	MP3A	Z	0.558	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3A	Mx	-0.000483	3
61	MP3B	X	-0.899	3
62	MP3B	Z	0.519	3
63	MP3B	Mx	0.000519	3
64	MP3C	X	-1.137	3
65	MP3C	Z	0.656	3
66	MP3C	Mx	-0.000224	3
67	RADIOB	X	-1.814	0.5
68	RADIOB	Z	1.047	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-1.814	0.5
71	RADIOC	Z	1.047	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-1.415	1.5
74	MP3A	Z	0.817	1.5
75	MP3A	Mx	0.000708	1.5
76	MP3A	X	-1.415	3.5
77	MP3A	Z	0.817	3.5
78	MP3A	Mx	0.000708	3.5
79	MP3B	X	-0.968	1.5
80	MP3B	Z	0.559	1.5
81	MP3B	Mx	-0.000559	1.5
82	MP3B	X	-0.968	3.5
83	MP3B	Z	0.559	3.5
84	MP3B	Mx	-0.000559	3.5
85	MP3C	X	-2.547	1.5
86	MP3C	Z	1.47	1.5
87	MP3C	Mx	0.000503	1.5
88	MP3C	X	-2.547	3.5
89	MP3C	Z	1.47	3.5
90	MP3C	Mx	0.000503	3.5
91	MP4A	X	-3.002	3
92	MP4A	Z	1.733	3
93	MP4A	Mx	0.000867	3
94	MP4B	X	-2.224	3
95	MP4B	Z	1.284	3
96	MP4B	Mx	-0.001	3
97	MP4C	X	-3.14	3
98	MP4C	Z	1.813	3
99	MP4C	Mx	0.00062	3
100	MP5A	X	-1.679	4
101	MP5A	Z	0.97	4
102	MP5A	Mx	-0.00097	4
103	MP5B	X	-1.679	4
104	MP5B	Z	0.97	4
105	MP5B	Mx	-0.00097	4
106	MP5C	X	-1.679	4
107	MP5C	Z	0.97	4
108	MP5C	Mx	-0.00097	4
109	MP5A	X	-1.679	4
110	MP5A	Z	0.97	4
111	MP5A	Mx	-0.000969	4
112	MP5B	X	-1.679	4
113	MP5B	Z	0.97	4
114	MP5B	Mx	-0.000969	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
115	MP5C	X	-1.679	4
116	MP5C	Z	0.97	4
117	MP5C	Mx	-0.000969	4
118	MP1A	X	-3.424	1.6
119	MP1A	Z	1.977	1.6
120	MP1A	Mx	0.001	1.6
121	MP1B	X	-3.424	1.6
122	MP1B	Z	1.977	1.6
123	MP1B	Mx	-0.001	1.6
124	MP1C	X	-3.104	1.6
125	MP1C	Z	1.792	1.6
126	MP1C	Mx	-0.001	1.6
127	DONOR	X	-3.104	1.6
128	DONOR	Z	1.792	1.6
129	DONOR	Mx	0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-3.686	0.5
2	MP5A	Z	0	0.5
3	MP5A	Mx	0.002	0.5
4	MP5A	X	-3.686	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	0.002	4.5
7	MP5B	X	-5.055	0.5
8	MP5B	Z	0	0.5
9	MP5B	Mx	-0.004	0.5
10	MP5B	X	-5.055	4.5
11	MP5B	Z	0	4.5
12	MP5B	Mx	-0.004	4.5
13	MP5C	X	-8.999	0.5
14	MP5C	Z	0	0.5
15	MP5C	Mx	0.004	0.5
16	MP5C	X	-8.999	4.5
17	MP5C	Z	0	4.5
18	MP5C	Mx	0.004	4.5
19	MP5A	X	-3.686	0.5
20	MP5A	Z	0	0.5
21	MP5A	Mx	0.002	0.5
22	MP5A	X	-3.686	4.5
23	MP5A	Z	0	4.5
24	MP5A	Mx	0.002	4.5
25	MP5B	X	-5.055	0.5
26	MP5B	Z	0	0.5
27	MP5B	Mx	-0.000715	0.5
28	MP5B	X	-5.055	4.5
29	MP5B	Z	0	4.5
30	MP5B	Mx	-0.000715	4.5
31	MP5C	X	-8.999	0.5
32	MP5C	Z	0	0.5
33	MP5C	Mx	-0.006	0.5
34	MP5C	X	-8.999	4.5
35	MP5C	Z	0	4.5
36	MP5C	Mx	-0.006	4.5
37	MP2A	X	-1.747	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2A	Z	0	1.5
39	MP2A	Mx	0.000874	1.5
40	MP2B	X	-2.821	1.5
41	MP2B	Z	0	1.5
42	MP2B	Mx	-0.001	1.5
43	MP2C	X	-5.913	1.5
44	MP2C	Z	0	1.5
45	MP2C	Mx	-0.000513	1.5
46	RADIOA	X	-2.351	0.5
47	RADIOA	Z	0	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-0.685	3
50	MP2A	Z	0	3
51	MP2A	Mx	-0.000343	3
52	MP2B	X	-0.876	3
53	MP2B	Z	0	3
54	MP2B	Mx	0.000379	3
55	MP2C	X	-1.427	3
56	MP2C	Z	0	3
57	MP2C	Mx	0.000124	3
58	MP3A	X	-1.038	3
59	MP3A	Z	0	3
60	MP3A	Mx	-0.000519	3
61	MP3B	X	-1.116	3
62	MP3B	Z	0	3
63	MP3B	Mx	0.000483	3
64	MP3C	X	-1.34	3
65	MP3C	Z	0	3
66	MP3C	Mx	0.000116	3
67	RADIOB	X	-2.351	0.5
68	RADIOB	Z	0	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-2.351	0.5
71	RADIOC	Z	0	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-1.118	1.5
74	MP3A	Z	0	1.5
75	MP3A	Mx	0.000559	1.5
76	MP3A	X	-1.118	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	0.000559	3.5
79	MP3B	X	-1.634	1.5
80	MP3B	Z	0	1.5
81	MP3B	Mx	-0.000708	1.5
82	MP3B	X	-1.634	3.5
83	MP3B	Z	0	3.5
84	MP3B	Mx	-0.000708	3.5
85	MP3C	X	-3.12	1.5
86	MP3C	Z	0	1.5
87	MP3C	Mx	-0.000271	1.5
88	MP3C	X	-3.12	3.5
89	MP3C	Z	0	3.5
90	MP3C	Mx	-0.000271	3.5
91	MP4A	X	-2.868	3
92	MP4A	Z	0	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
93	MP4A	Mx	0.001	3
94	MP4B	X	-2.868	3
95	MP4B	Z	0	3
96	MP4B	Mx	-0.001	3
97	MP4C	X	-3.73	3
98	MP4C	Z	0	3
99	MP4C	Mx	-0.000324	3
100	MP5A	X	-1.938	4
101	MP5A	Z	0	4
102	MP5A	Mx	-0.000355	4
103	MP5B	X	-1.938	4
104	MP5B	Z	0	4
105	MP5B	Mx	-0.000355	4
106	MP5C	X	-1.938	4
107	MP5C	Z	0	4
108	MP5C	Mx	-0.000355	4
109	MP5A	X	-1.938	4
110	MP5A	Z	0	4
111	MP5A	Mx	-0.001	4
112	MP5B	X	-1.938	4
113	MP5B	Z	0	4
114	MP5B	Mx	-0.001	4
115	MP5C	X	-1.938	4
116	MP5C	Z	0	4
117	MP5C	Mx	-0.001	4
118	MP1A	X	-4.77	1.6
119	MP1A	Z	0	1.6
120	MP1A	Mx	0.000414	1.6
121	MP1B	X	-4.77	1.6
122	MP1B	Z	0	1.6
123	MP1B	Mx	-0.000414	1.6
124	MP1C	X	-2.768	1.6
125	MP1C	Z	0	1.6
126	MP1C	Mx	-0.001	1.6
127	DONOR	X	-2.768	1.6
128	DONOR	Z	0	1.6
129	DONOR	Mx	0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-4.378	0.5
2	MP5A	Z	-2.528	0.5
3	MP5A	Mx	0.004	0.5
4	MP5A	X	-4.378	4.5
5	MP5A	Z	-2.528	4.5
6	MP5A	Mx	0.004	4.5
7	MP5B	X	-6.75	0.5
8	MP5B	Z	-3.897	0.5
9	MP5B	Mx	-0.006	0.5
10	MP5B	X	-6.75	4.5
11	MP5B	Z	-3.897	4.5
12	MP5B	Mx	-0.006	4.5
13	MP5C	X	-5.976	0.5
14	MP5C	Z	-3.45	0.5
15	MP5C	Mx	0.000866	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP5C	X	-5.976	4.5
17	MP5C	Z	-3.45	4.5
18	MP5C	Mx	0.000866	4.5
19	MP5A	X	-4.378	0.5
20	MP5A	Z	-2.528	0.5
21	MP5A	Mx	0.000714	0.5
22	MP5A	X	-4.378	4.5
23	MP5A	Z	-2.528	4.5
24	MP5A	Mx	0.000714	4.5
25	MP5B	X	-6.75	0.5
26	MP5B	Z	-3.897	0.5
27	MP5B	Mx	0.002	0.5
28	MP5B	X	-6.75	4.5
29	MP5B	Z	-3.897	4.5
30	MP5B	Mx	0.002	4.5
31	MP5C	X	-5.976	0.5
32	MP5C	Z	-3.45	0.5
33	MP5C	Mx	-0.005	0.5
34	MP5C	X	-5.976	4.5
35	MP5C	Z	-3.45	4.5
36	MP5C	Mx	-0.005	4.5
37	MP2A	X	-2.443	1.5
38	MP2A	Z	-1.41	1.5
39	MP2A	Mx	0.001	1.5
40	MP2B	X	-4.303	1.5
41	MP2B	Z	-2.484	1.5
42	MP2B	Mx	-0.001	1.5
43	MP2C	X	-3.696	1.5
44	MP2C	Z	-2.134	1.5
45	MP2C	Mx	-0.001	1.5
46	RADIOA	X	-2.481	0.5
47	RADIOA	Z	-1.433	0.5
48	RADIOA	Mx	0	0.5
49	MP2A	X	-0.759	3
50	MP2A	Z	-0.438	3
51	MP2A	Mx	-0.00038	3
52	MP2B	X	-1.09	3
53	MP2B	Z	-0.629	3
54	MP2B	Mx	0.000315	3
55	MP2C	X	-0.982	3
56	MP2C	Z	-0.567	3
57	MP2C	Mx	0.000364	3
58	MP3A	X	-0.966	3
59	MP3A	Z	-0.558	3
60	MP3A	Mx	-0.000483	3
61	MP3B	X	-1.101	3
62	MP3B	Z	-0.636	3
63	MP3B	Mx	0.000318	3
64	MP3C	X	-1.057	3
65	MP3C	Z	-0.61	3
66	MP3C	Mx	0.000392	3
67	RADIOB	X	-2.481	0.5
68	RADIOB	Z	-1.433	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-2.481	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	RADIOC	Z	-1.433	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-1.415	1.5
74	MP3A	Z	-0.817	1.5
75	MP3A	Mx	0.000708	1.5
76	MP3A	X	-1.415	3.5
77	MP3A	Z	-0.817	3.5
78	MP3A	Mx	0.000708	3.5
79	MP3B	X	-2.309	1.5
80	MP3B	Z	-1.333	1.5
81	MP3B	Mx	-0.000667	1.5
82	MP3B	X	-2.309	3.5
83	MP3B	Z	-1.333	3.5
84	MP3B	Mx	-0.000667	3.5
85	MP3C	X	-2.017	1.5
86	MP3C	Z	-1.165	1.5
87	MP3C	Mx	-0.000749	1.5
88	MP3C	X	-2.017	3.5
89	MP3C	Z	-1.165	3.5
90	MP3C	Mx	-0.000749	3.5
91	MP4A	X	-2.224	3
92	MP4A	Z	-1.284	3
93	MP4A	Mx	0.001	3
94	MP4B	X	-3.002	3
95	MP4B	Z	-1.733	3
96	MP4B	Mx	-0.000867	3
97	MP4C	X	-2.833	3
98	MP4C	Z	-1.636	3
99	MP4C	Mx	-0.001	3
100	MP5A	X	-1.676	4
101	MP5A	Z	-0.967	4
102	MP5A	Mx	0.000354	4
103	MP5B	X	-1.676	4
104	MP5B	Z	-0.967	4
105	MP5B	Mx	0.000354	4
106	MP5C	X	-1.676	4
107	MP5C	Z	-0.967	4
108	MP5C	Mx	0.000354	4
109	MP5A	X	-1.676	4
110	MP5A	Z	-0.967	4
111	MP5A	Mx	-0.001	4
112	MP5B	X	-1.676	4
113	MP5B	Z	-0.967	4
114	MP5B	Mx	-0.001	4
115	MP5C	X	-1.676	4
116	MP5C	Z	-0.967	4
117	MP5C	Mx	-0.001	4
118	MP1A	X	-3.97	1.6
119	MP1A	Z	-2.292	1.6
120	MP1A	Mx	-0.000784	1.6
121	MP1B	X	-3.97	1.6
122	MP1B	Z	-2.292	1.6
123	MP1B	Mx	0.000784	1.6
124	MP1C	X	-2.557	1.6
125	MP1C	Z	-1.477	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
126	MP1C	Mx	-0.001	1.6
127	DONOR	X	-2.557	1.6
128	DONOR	Z	-1.477	1.6
129	DONOR	Mx	0.001	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	-3.897	0.5
2	MP5A	Z	-6.75	0.5
3	MP5A	Mx	0.006	0.5
4	MP5A	X	-3.897	4.5
5	MP5A	Z	-6.75	4.5
6	MP5A	Mx	0.006	4.5
7	MP5B	X	-4.582	0.5
8	MP5B	Z	-7.936	0.5
9	MP5B	Mx	-0.005	0.5
10	MP5B	X	-4.582	4.5
11	MP5B	Z	-7.936	4.5
12	MP5B	Mx	-0.005	4.5
13	MP5C	X	-2.163	0.5
14	MP5C	Z	-3.747	0.5
15	MP5C	Mx	-0.001	0.5
16	MP5C	X	-2.163	4.5
17	MP5C	Z	-3.747	4.5
18	MP5C	Mx	-0.001	4.5
19	MP5A	X	-3.897	0.5
20	MP5A	Z	-6.75	0.5
21	MP5A	Mx	-0.002	0.5
22	MP5A	X	-3.897	4.5
23	MP5A	Z	-6.75	4.5
24	MP5A	Mx	-0.002	4.5
25	MP5B	X	-4.582	0.5
26	MP5B	Z	-7.936	0.5
27	MP5B	Mx	0.005	0.5
28	MP5B	X	-4.582	4.5
29	MP5B	Z	-7.936	4.5
30	MP5B	Mx	0.005	4.5
31	MP5C	X	-2.163	0.5
32	MP5C	Z	-3.747	0.5
33	MP5C	Mx	-0.003	0.5
34	MP5C	X	-2.163	4.5
35	MP5C	Z	-3.747	4.5
36	MP5C	Mx	-0.003	4.5
37	MP2A	X	-2.484	1.5
38	MP2A	Z	-4.303	1.5
39	MP2A	Mx	0.001	1.5
40	MP2B	X	-3.021	1.5
41	MP2B	Z	-5.233	1.5
42	MP2B	Mx	0	1.5
43	MP2C	X	-1.125	1.5
44	MP2C	Z	-1.948	1.5
45	MP2C	Mx	-0.001	1.5
46	RADIOA	X	-1.561	0.5
47	RADIOA	Z	-2.704	0.5
48	RADIOA	Mx	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2A	X	-0.629	3
50	MP2A	Z	-1.09	3
51	MP2A	Mx	-0.000314	3
52	MP2B	X	-0.725	3
53	MP2B	Z	-1.256	3
54	MP2B	Mx	0	3
55	MP2C	X	-0.387	3
56	MP2C	Z	-0.671	3
57	MP2C	Mx	0.000364	3
58	MP3A	X	-0.636	3
59	MP3A	Z	-1.101	3
60	MP3A	Mx	-0.000318	3
61	MP3B	X	-0.675	3
62	MP3B	Z	-1.169	3
63	MP3B	Mx	0	3
64	MP3C	X	-0.537	3
65	MP3C	Z	-0.93	3
66	MP3C	Mx	0.000505	3
67	RADIOB	X	-1.561	0.5
68	RADIOB	Z	-2.704	0.5
69	RADIOB	Mx	0	0.5
70	RADIOC	X	-1.561	0.5
71	RADIOC	Z	-2.704	0.5
72	RADIOC	Mx	0	0.5
73	MP3A	X	-1.333	1.5
74	MP3A	Z	-2.309	1.5
75	MP3A	Mx	0.000666	1.5
76	MP3A	X	-1.333	3.5
77	MP3A	Z	-2.309	3.5
78	MP3A	Mx	0.000666	3.5
79	MP3B	X	-1.591	1.5
80	MP3B	Z	-2.756	1.5
81	MP3B	Mx	0	1.5
82	MP3B	X	-1.591	3.5
83	MP3B	Z	-2.756	3.5
84	MP3B	Mx	0	3.5
85	MP3C	X	-0.68	1.5
86	MP3C	Z	-1.177	1.5
87	MP3C	Mx	-0.000639	1.5
88	MP3C	X	-0.68	3.5
89	MP3C	Z	-1.177	3.5
90	MP3C	Mx	-0.000639	3.5
91	MP4A	X	-1.434	3
92	MP4A	Z	-2.483	3
93	MP4A	Mx	0.001	3
94	MP4B	X	-1.883	3
95	MP4B	Z	-3.262	3
96	MP4B	Mx	0	3
97	MP4C	X	-1.354	3
98	MP4C	Z	-2.345	3
99	MP4C	Mx	-0.001	3
100	MP5A	X	-0.967	4
101	MP5A	Z	-1.674	4
102	MP5A	Mx	0.000966	4
103	MP5B	X	-0.967	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
104	MP5B	Z	-1.674	4
105	MP5B	Mx	0.000966	4
106	MP5C	X	-0.967	4
107	MP5C	Z	-1.674	4
108	MP5C	Mx	0.000966	4
109	MP5A	X	-0.967	4
110	MP5A	Z	-1.674	4
111	MP5A	Mx	-0.000967	4
112	MP5B	X	-0.967	4
113	MP5B	Z	-1.674	4
114	MP5B	Mx	-0.000967	4
115	MP5C	X	-0.967	4
116	MP5C	Z	-1.674	4
117	MP5C	Mx	-0.000967	4
118	MP1A	X	-1.792	1.6
119	MP1A	Z	-3.104	1.6
120	MP1A	Mx	-0.001	1.6
121	MP1B	X	-1.792	1.6
122	MP1B	Z	-3.104	1.6
123	MP1B	Mx	0.001	1.6
124	MP1C	X	-1.977	1.6
125	MP1C	Z	-3.424	1.6
126	MP1C	Mx	-0.001	1.6
127	DONOR	X	-1.977	1.6
128	DONOR	Z	-3.424	1.6
129	DONOR	Mx	0.001	1.6

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	LIVE1	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	LIVE2	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	Y	-1.651	0.5
2	MP5A	My	-0.000826	0.5
3	MP5A	Mz	-0.000963	0.5
4	MP5A	Y	-1.651	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
5	MP5A	My	-0.000826	4.5
6	MP5A	Mz	-0.000963	4.5
7	MP5B	Y	-1.651	0.5
8	MP5B	My	0.001	0.5
9	MP5B	Mz	0.000421	0.5
10	MP5B	Y	-1.651	4.5
11	MP5B	My	0.001	4.5
12	MP5B	Mz	0.000421	4.5
13	MP5C	Y	-1.651	0.5
14	MP5C	My	-0.000805	0.5
15	MP5C	Mz	0.00098	0.5
16	MP5C	Y	-1.651	4.5
17	MP5C	My	-0.000805	4.5
18	MP5C	Mz	0.00098	4.5
19	MP5A	Y	-1.651	0.5
20	MP5A	My	-0.000826	0.5
21	MP5A	Mz	0.000963	0.5
22	MP5A	Y	-1.651	4.5
23	MP5A	My	-0.000826	4.5
24	MP5A	Mz	0.000963	4.5
25	MP5B	Y	-1.651	0.5
26	MP5B	My	0.000233	0.5
27	MP5B	Mz	-0.001	0.5
28	MP5B	Y	-1.651	4.5
29	MP5B	My	0.000233	4.5
30	MP5B	Mz	-0.001	4.5
31	MP5C	Y	-1.651	0.5
32	MP5C	My	0.001	0.5
33	MP5C	Mz	0.000646	0.5
34	MP5C	Y	-1.651	4.5
35	MP5C	My	0.001	4.5
36	MP5C	Mz	0.000646	4.5
37	MP2A	Y	-0.667	1.5
38	MP2A	My	-0.000334	1.5
39	MP2A	Mz	0	1.5
40	MP2B	Y	-0.667	1.5
41	MP2B	My	0.000289	1.5
42	MP2B	Mz	-0.000167	1.5
43	MP2C	Y	-0.667	1.5
44	MP2C	My	5.8e-5	1.5
45	MP2C	Mz	0.000328	1.5
46	RADIOA	Y	-3.475	0.5
47	RADIOA	My	0	0.5
48	RADIOA	Mz	0	0.5
49	MP2A	Y	-0.77	3
50	MP2A	My	0.000385	3
51	MP2A	Mz	0	3
52	MP2B	Y	-0.77	3
53	MP2B	My	-0.000333	3
54	MP2B	Mz	0.000192	3
55	MP2C	Y	-0.77	3
56	MP2C	My	-6.7e-5	3
57	MP2C	Mz	-0.000379	3
58	MP3A	Y	-0.856	3
59	MP3A	My	0.000428	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
60	MP3A	Mz	0	3
61	MP3B	Y	-0.856	3
62	MP3B	My	-0.000371	3
63	MP3B	Mz	0.000214	3
64	MP3C	Y	-0.856	3
65	MP3C	My	-7.4e-5	3
66	MP3C	Mz	-0.000422	3
67	RADIOB	Y	-3.475	0.5
68	RADIOB	My	0	0.5
69	RADIOB	Mz	0	0.5
70	RADIOC	Y	-3.475	0.5
71	RADIOC	My	0	0.5
72	RADIOC	Mz	0	0.5
73	MP3A	Y	-1.18	1.5
74	MP3A	My	-0.00059	1.5
75	MP3A	Mz	0	1.5
76	MP3A	Y	-1.18	3.5
77	MP3A	My	-0.00059	3.5
78	MP3A	Mz	0	3.5
79	MP3B	Y	-1.18	1.5
80	MP3B	My	0.000511	1.5
81	MP3B	Mz	-0.000295	1.5
82	MP3B	Y	-1.18	3.5
83	MP3B	My	0.000511	3.5
84	MP3B	Mz	-0.000295	3.5
85	MP3C	Y	-1.18	1.5
86	MP3C	My	0.000102	1.5
87	MP3C	Mz	0.000581	1.5
88	MP3C	Y	-1.18	3.5
89	MP3C	My	0.000102	3.5
90	MP3C	Mz	0.000581	3.5
91	MP4A	Y	-3.257	3
92	MP4A	My	-0.001	3
93	MP4A	Mz	-0.000814	3
94	MP4B	Y	-3.257	3
95	MP4B	My	0.001	3
96	MP4B	Mz	-0.000814	3
97	MP4C	Y	-3.257	3
98	MP4C	My	0.000283	3
99	MP4C	Mz	0.002	3
100	MP5A	Y	-0.725	4
101	MP5A	My	0.000133	4
102	MP5A	Mz	-0.000495	4
103	MP5B	Y	-0.725	4
104	MP5B	My	0.000133	4
105	MP5B	Mz	-0.000495	4
106	MP5C	Y	-0.725	4
107	MP5C	My	0.000133	4
108	MP5C	Mz	-0.000495	4
109	MP5A	Y	-0.725	4
110	MP5A	My	0.000495	4
111	MP5A	Mz	0.000133	4
112	MP5B	Y	-0.725	4
113	MP5B	My	0.000495	4
114	MP5B	Mz	0.000133	4

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
115	MP5C	Y	-0.725	4
116	MP5C	My	0.000495	4
117	MP5C	Mz	0.000133	4
118	MP1A	Y	-2.162	1.6
119	MP1A	My	-0.000188	1.6
120	MP1A	Mz	0.001	1.6
121	MP1B	Y	-2.162	1.6
122	MP1B	My	0.000188	1.6
123	MP1B	Mz	-0.001	1.6
124	MP1C	Y	-2.162	1.6
125	MP1C	My	0.001	1.6
126	MP1C	Mz	0.000188	1.6
127	DONOR	Y	-2.162	1.6
128	DONOR	My	-0.001	1.6
129	DONOR	Mz	-0.000188	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	Z	-4.128	0.5
2	MP5A	Mx	0.002	0.5
3	MP5A	Z	-4.128	4.5
4	MP5A	Mx	0.002	4.5
5	MP5B	Z	-4.128	0.5
6	MP5B	Mx	-0.001	0.5
7	MP5B	Z	-4.128	4.5
8	MP5B	Mx	-0.001	4.5
9	MP5C	Z	-4.128	0.5
10	MP5C	Mx	-0.002	0.5
11	MP5C	Z	-4.128	4.5
12	MP5C	Mx	-0.002	4.5
13	MP5A	Z	-4.128	0.5
14	MP5A	Mx	-0.002	0.5
15	MP5A	Z	-4.128	4.5
16	MP5A	Mx	-0.002	4.5
17	MP5B	Z	-4.128	0.5
18	MP5B	Mx	0.003	0.5
19	MP5B	Z	-4.128	4.5
20	MP5B	Mx	0.003	4.5
21	MP5C	Z	-4.128	0.5
22	MP5C	Mx	-0.002	0.5
23	MP5C	Z	-4.128	4.5
24	MP5C	Mx	-0.002	4.5
25	MP2A	Z	-1.668	1.5
26	MP2A	Mx	0	1.5
27	MP2B	Z	-1.668	1.5
28	MP2B	Mx	0.000417	1.5
29	MP2C	Z	-1.668	1.5
30	MP2C	Mx	-0.000821	1.5
31	RADIOA	Z	-8.688	0.5
32	RADIOA	Mx	0	0.5
33	MP2A	Z	-1.925	3
34	MP2A	Mx	0	3
35	MP2B	Z	-1.925	3
36	MP2B	Mx	-0.000481	3
37	MP2C	Z	-1.925	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
38	MP2C	Mx	0.000948	3
39	MP3A	Z	-2.141	3
40	MP3A	Mx	0	3
41	MP3B	Z	-2.141	3
42	MP3B	Mx	-0.000535	3
43	MP3C	Z	-2.141	3
44	MP3C	Mx	0.001	3
45	RADIOB	Z	-8.688	0.5
46	RADIOB	Mx	0	0.5
47	RADIOC	Z	-8.688	0.5
48	RADIOC	Mx	0	0.5
49	MP3A	Z	-2.949	1.5
50	MP3A	Mx	0	1.5
51	MP3A	Z	-2.949	3.5
52	MP3A	Mx	0	3.5
53	MP3B	Z	-2.949	1.5
54	MP3B	Mx	0.000737	1.5
55	MP3B	Z	-2.949	3.5
56	MP3B	Mx	0.000737	3.5
57	MP3C	Z	-2.949	1.5
58	MP3C	Mx	-0.001	1.5
59	MP3C	Z	-2.949	3.5
60	MP3C	Mx	-0.001	3.5
61	MP4A	Z	-8.142	3
62	MP4A	Mx	0.002	3
63	MP4B	Z	-8.142	3
64	MP4B	Mx	0.002	3
65	MP4C	Z	-8.142	3
66	MP4C	Mx	-0.004	3
67	MP5A	Z	-1.812	4
68	MP5A	Mx	0.001	4
69	MP5B	Z	-1.812	4
70	MP5B	Mx	0.001	4
71	MP5C	Z	-1.812	4
72	MP5C	Mx	0.001	4
73	MP5A	Z	-1.812	4
74	MP5A	Mx	-0.000332	4
75	MP5B	Z	-1.812	4
76	MP5B	Mx	-0.000332	4
77	MP5C	Z	-1.812	4
78	MP5C	Mx	-0.000332	4
79	MP1A	Z	-5.404	1.6
80	MP1A	Mx	-0.003	1.6
81	MP1B	Z	-5.404	1.6
82	MP1B	Mx	0.003	1.6
83	MP1C	Z	-5.404	1.6
84	MP1C	Mx	-0.000469	1.6
85	DONOR	Z	-5.404	1.6
86	DONOR	Mx	0.000469	1.6

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP5A	X	4.128	0.5
2	MP5A	Mx	-0.002	0.5
3	MP5A	X	4.128	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
4	MP5A	Mx	-0.002	4.5
5	MP5B	X	4.128	0.5
6	MP5B	Mx	0.003	0.5
7	MP5B	X	4.128	4.5
8	MP5B	Mx	0.003	4.5
9	MP5C	X	4.128	0.5
10	MP5C	Mx	-0.002	0.5
11	MP5C	X	4.128	4.5
12	MP5C	Mx	-0.002	4.5
13	MP5A	X	4.128	0.5
14	MP5A	Mx	-0.002	0.5
15	MP5A	X	4.128	4.5
16	MP5A	Mx	-0.002	4.5
17	MP5B	X	4.128	0.5
18	MP5B	Mx	0.000583	0.5
19	MP5B	X	4.128	4.5
20	MP5B	Mx	0.000583	4.5
21	MP5C	X	4.128	0.5
22	MP5C	Mx	0.003	0.5
23	MP5C	X	4.128	4.5
24	MP5C	Mx	0.003	4.5
25	MP2A	X	1.668	1.5
26	MP2A	Mx	-0.000834	1.5
27	MP2B	X	1.668	1.5
28	MP2B	Mx	0.000722	1.5
29	MP2C	X	1.668	1.5
30	MP2C	Mx	0.000145	1.5
31	RADIOA	X	8.688	0.5
32	RADIOA	Mx	0	0.5
33	MP2A	X	1.925	3
34	MP2A	Mx	0.000962	3
35	MP2B	X	1.925	3
36	MP2B	Mx	-0.000833	3
37	MP2C	X	1.925	3
38	MP2C	Mx	-0.000167	3
39	MP3A	X	2.141	3
40	MP3A	Mx	0.001	3
41	MP3B	X	2.141	3
42	MP3B	Mx	-0.000927	3
43	MP3C	X	2.141	3
44	MP3C	Mx	-0.000186	3
45	RADIOB	X	8.688	0.5
46	RADIOB	Mx	0	0.5
47	RADIOC	X	8.688	0.5
48	RADIOC	Mx	0	0.5
49	MP3A	X	2.949	1.5
50	MP3A	Mx	-0.001	1.5
51	MP3A	X	2.949	3.5
52	MP3A	Mx	-0.001	3.5
53	MP3B	X	2.949	1.5
54	MP3B	Mx	0.001	1.5
55	MP3B	X	2.949	3.5
56	MP3B	Mx	0.001	3.5
57	MP3C	X	2.949	1.5
58	MP3C	Mx	0.000256	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
59	MP3C	X	2.949	3.5
60	MP3C	Mx	0.000256	3.5
61	MP4A	X	8.142	3
62	MP4A	Mx	-0.004	3
63	MP4B	X	8.142	3
64	MP4B	Mx	0.004	3
65	MP4C	X	8.142	3
66	MP4C	Mx	0.000707	3
67	MP5A	X	1.812	4
68	MP5A	Mx	0.000332	4
69	MP5B	X	1.812	4
70	MP5B	Mx	0.000332	4
71	MP5C	X	1.812	4
72	MP5C	Mx	0.000332	4
73	MP5A	X	1.812	4
74	MP5A	Mx	0.001	4
75	MP5B	X	1.812	4
76	MP5B	Mx	0.001	4
77	MP5C	X	1.812	4
78	MP5C	Mx	0.001	4
79	MP1A	X	5.404	1.6
80	MP1A	Mx	-0.000469	1.6
81	MP1B	X	5.404	1.6
82	MP1B	Mx	0.000469	1.6
83	MP1C	X	5.404	1.6
84	MP1C	Mx	0.003	1.6
85	DONOR	X	5.404	1.6
86	DONOR	Mx	-0.003	1.6

Member Area Loads (BLC 39 : Structure D)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N209	N211	N33	N21	Y	Two Way	-0.005
2	N209	N210	N27	N21	Y	Two Way	-0.005
3	N211	N210	N27	N33	Y	Two Way	-0.005

Member Area Loads (BLC 40 : Structure Di)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N210	N209	N21	N27	Y	Two Way	-0.01
2	N210	N211	N33	N27	Y	Two Way	-0.01
3	N209	N211	N33	N21	Y	Two Way	-0.01

Member Area Loads (BLC 84 : Structure Ev)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N209	N211	N33	N21	Y	Two Way	-0.000214
2	N209	N210	N27	N21	Y	Two Way	-0.000214
3	N211	N210	N27	N33	Y	Two Way	-0.000214

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

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N209	N211	N33	N21	Z	Two Way	-0.000535
2	N209	N210	N27	N21	Z	Two Way	-0.000535
3	N211	N210	N27	N33	Z	Two Way	-0.000535

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

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N209	N211	N33	N21	X	Two Way	0.000535
2	N209	N210	N27	N21	X	Two Way	0.000535
3	N211	N210	N27	N33	X	Two Way	0.000535

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
0	N18	max	3413.443	12	271.03	12	0.504	11	0	75	0	75	0	75
1		min	-3380.863	6	-2754.085	18	-0.504	5	0	1	0	1	0	1
2	N30	max	1684.763	6	537.04	12	2927.898	12	0	75	0	75	0	75
3		min	-1690.087	12	-2762.43	18	-2918.677	6	0	1	0	1	0	1
4	N24	max	2168.882	6	496.841	12	3756.613	6	0	75	0	75	0	75
5		min	-2178.028	12	-3136.99	18	-3772.455	12	0	1	0	1	0	1
6	N25	max	2042.96	6	1555.595	6	3538.51	6	0	75	0	75	0	75
7		min	-2047.553	12	-1735.003	12	-3546.466	12	0	1	0	1	0	1
8	N31	max	1752.123	6	1535.453	6	3030.64	12	0	75	0	75	0	75
9		min	-1749.405	12	-1724.58	12	-3035.348	6	0	1	0	1	0	1
10	N19A	max	3472.84	12	1491.939	6	0.504	11	0	75	0	75	0	75
11		min	-3475.163	6	-1689.657	12	-0.504	5	0	1	0	1	0	1
12	N89	max	476.247	8	690.637	23	268.834	2	0	75	0	75	0	75
13		min	-160.092	2	223.146	68	-794.188	8	0	1	0	1	0	1
14	N90	max	121.548	1	577.5	15	231.143	1	0	75	0	75	0	75
15		min	-385.755	7	192.498	72	-675.837	7	0	1	0	1	0	1
16	N91	max	321.939	10	839.863	18	27.254	1	0	75	0	75	0	75
17		min	-1050.067	4	276.21	75	-41.483	7	0	1	0	1	0	1
18	N92	max	116.769	9	545.36	22	595.069	3	0	75	0	75	0	75
19		min	-350.91	3	180.091	67	-182.657	9	0	1	0	1	0	1
20	N93	max	524.406	12	717.124	15	954.211	12	0	75	0	75	0	75
21		min	-228.125	6	233.328	72	-402.952	6	0	1	0	1	0	1
22	N94	max	657.144	23	631.437	18	40.069	1	0	75	0	75	0	75
23		min	-118.068	5	206.747	75	-41.798	7	0	1	0	1	0	1
24	N95	max	-12.7	8	16.689	19	622.698	14	0	75	0	75	0	75
25		min	-371.506	14	4.988	64	21.146	8	0	1	0	1	0	1
26	N96	max	303.046	13	16.86	19	525.966	1	0	75	0	75	0	75
27		min	-51.149	7	4.985	64	-91.157	7	0	1	0	1	0	1
28	N97	max	847.278	21	16.624	15	19.66	1	0	75	0	75	0	75
29		min	75.335	4	4.98	71	-10.834	7	0	1	0	1	0	1
30	N98	max	272.373	21	16.923	15	70.23	3	0	75	0	75	0	75
31		min	-42.486	3	4.995	72	-475.131	21	0	1	0	1	0	1
32	N99	max	26.255	12	16.68	23	47.803	12	0	75	0	75	0	75
33		min	-359.619	18	4.982	68	-642.906	17	0	1	0	1	0	1
34	N100	max	12.989	11	16.782	23	16.995	1	0	75	0	75	0	75
35		min	-605.692	17	4.978	68	-14.001	7	0	1	0	1	0	1
36	N212	max	3598.497	6	1744.465	12	221.788	1	0	75	0	75	0	75
37		min	-3596.689	12	-1519.634	6	-988.22	19	0	1	0	1	0	1
38	N213	max	1655.075	12	1792.645	12	4004.904	12	0	75	0	75	0	75
39		min	-2603.812	6	-1589.293	6	-3453.332	6	0	1	0	1	0	1

Envelope Node Reactions (Continued)

Node Label			X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
40	N214	max	2561.876	12	1782.707	12	3046.584	6	0	75	0	75	0	75
41		min	-1996.839	6	-1566.282	6	-2701.099	12	0	1	0	1	0	1
42	N215A	max	3489.7	6	4268.169	18	2738.19	1	0	75	0	75	0	75
43		min	-3540.158	12	541.576	12	-804.63	7	0	1	0	1	0	1
44	N216A	max	3402.233	12	4916.588	18	3371.629	12	0	75	0	75	0	75
45		min	-1393.203	6	185.437	12	-4508.641	6	0	1	0	1	0	1
46	N217A	max	2364.948	12	4290.354	18	1754.693	6	0	75	0	75	0	75
47		min	-3949.353	6	85.372	12	-2660.952	12	0	1	0	1	0	1
48	Totals:	max	5789.361	10	8916.177	14	6099.341	1						
49		min	-5789.359	4	2982.162	74	-6099.339	7						

Node Reactions

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
0	1	N18	2511.596	-185.474	0	0	0	0
1	1	N30	-962.374	-69.365	1667.888	0	0	0
2	1	N24	-1501.088	9.909	-2598.953	0	0	0
3	1	N25	-1386.414	-1205.307	-2400.332	0	0	0
4	1	N31	-1036.507	-1173.369	1796.29	0	0	0
5	1	N19A	2410.803	-1163.475	0	0	0	0
6	1	N89	-143.403	349.077	257.876	0	0	0
7	1	N90	121.548	285.35	231.143	0	0	0
8	1	N91	-645.563	367.121	27.254	0	0	0
9	1	N92	-138.739	245.504	260.757	0	0	0
10	1	N93	370.38	364.9	691.426	0	0	0
11	1	N94	321.521	241.642	40.069	0	0	0
12	1	N95	-283.147	6.753	473.894	0	0	0
13	1	N96	301.315	6.746	525.966	0	0	0
14	1	N97	132.798	7.037	19.66	0	0	0
15	1	N98	122.198	6.955	-207.574	0	0	0
16	1	N99	-61.084	7.021	-106.604	0	0	0
17	1	N100	-174.318	6.975	16.995	0	0	0
18	1	N212	-2502.154	1204.576	221.788	0	0	0
19	1	N213	661.311	1248.99	2973.63	0	0	0
20	1	N214	1613.84	1215.909	-1513.393	0	0	0
21	1	N215A	-2621.708	974.241	2738.19	0	0	0
22	1	N216A	1836.94	654.913	2612.948	0	0	0
23	1	N217A	1052.433	760.207	-1629.577	0	0	0
24	1	Totals:	0.182	4166.838	6099.341			
25	1	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
26	2	N18	-1025.527	-1737.072	0.291	0	0	0
27	2	N30	998.564	-1795.86	-1729.563	0	0	0
28	2	N24	554.543	-1675.358	961.078	0	0	0
29	2	N25	599.506	471.137	1038.956	0	0	0
30	2	N31	904.297	515.8	-1566.288	0	0	0
31	2	N19A	-1201.326	498.767	0.291	0	0	0
32	2	N89	-160.092	312.98	268.834	0	0	0
33	2	N90	-4.244	299.635	50.492	0	0	0
34	2	N91	-784.891	377.448	19.322	0	0	0
35	2	N92	-294.855	238.13	518.486	0	0	0
36	2	N93	143.772	375.377	314.864	0	0	0
37	2	N94	281.209	267.615	27.013	0	0	0
38	2	N95	-295.35	6.763	497.066	0	0	0
39	2	N96	224.285	6.827	404.402	0	0	0
40	2	N97	139.199	7.033	13.137	0	0	0
41	2	N98	-0.057	7.063	0.1	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
42	2	N99	-192.929	6.856	-321.952	0	0	0
43	2	N100	-178.126	6.972	12.125	0	0	0
44	2	N212	1243.19	-501.709	155.515	0	0	0
45	2	N213	-1576.066	-472.897	-520.649	0	0	0
46	2	N214	-707.021	-519.5	1819.366	0	0	0
47	2	N215A	1048.817	2501.866	2472.881	0	0	0
48	2	N216A	-876.335	2391.275	-804.56	0	0	0
49	2	N217A	-1785.831	2577.691	1469.94	0	0	0
50	2	Totals:	-2945.269	4166.838	5101.146			
51	2	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
52	3	N18	-415.746	-1493.737	0.504	0	0	0
53	3	N30	749.681	-1685.962	-1299.493	0	0	0
54	3	N24	499.789	-1584.209	865.659	0	0	0
55	3	N25	464.081	310.751	803.812	0	0	0
56	3	N31	652.149	354.779	-1130.563	0	0	0
57	3	N19A	-596.217	314.371	0.504	0	0	0
58	3	N89	-18.813	281.204	11.292	0	0	0
59	3	N90	-102.928	302.04	-96.816	0	0	0
60	3	N91	-1006.333	382.025	-3.035	0	0	0
61	3	N92	-350.91	229.223	595.069	0	0	0
62	3	N93	25.478	372.349	127.542	0	0	0
63	3	N94	150.279	291.888	9.319	0	0	0
64	3	N95	-213.698	6.882	355.238	0	0	0
65	3	N96	170.898	6.879	325.421	0	0	0
66	3	N97	76.658	7.065	3.318	0	0	0
67	3	N98	-42.486	7.096	70.23	0	0	0
68	3	N99	-253.627	6.795	-418.07	0	0	0
69	3	N100	-289.827	6.905	3.824	0	0	0
70	3	N212	589.83	-311.554	-53.781	0	0	0
71	3	N213	-1472.562	-308.672	-264.469	0	0	0
72	3	N214	-715.856	-354.553	1193.736	0	0	0
73	3	N215A	372.113	2194.862	1850.085	0	0	0
74	3	N216A	-964.305	2331.538	-644.734	0	0	0
75	3	N217A	-2274.791	2498.872	563.124	0	0	0
76	3	Totals:	-4967.142	4166.838	2867.715			
77	3	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
78	4	N18	2235.558	-327.062	0	0	0	0
79	4	N30	-664.061	-594.177	1149.606	0	0	0
80	4	N24	-653.467	-565.548	-1131.257	0	0	0
81	4	N25	-734.26	-791.826	-1271.194	0	0	0
82	4	N31	-707.998	-762.358	1225.707	0	0	0
83	4	N19A	2040.856	-814.919	0	0	0	0
84	4	N89	122.37	263.448	-259.877	0	0	0
85	4	N90	-134.168	288.725	-173.989	0	0	0
86	4	N91	-1050.067	402.324	-18.824	0	0	0
87	4	N92	-291.433	216.458	447.991	0	0	0
88	4	N93	-46.126	364.208	-21.973	0	0	0
89	4	N94	-73.462	307.095	0.18	0	0	0
90	4	N95	-116.66	6.997	173.104	0	0	0
91	4	N96	159.869	6.893	297.626	0	0	0
92	4	N97	75.335	7.065	1.332	0	0	0
93	4	N98	-4.421	7.055	-14.566	0	0	0
94	4	N99	-266.06	6.772	-456.687	0	0	0
95	4	N100	-482.425	6.787	0.81	0	0	0
96	4	N212	-2164.935	848.863	-390.428	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
97	4	N213	-182.607	823.042	1852.115	0	0	0
98	4	N214	539.344	792.654	-1374.162	0	0	0
99	4	N215A	-2413.485	950.786	995.346	0	0	0
100	4	N216A	375.484	1333.262	1326.504	0	0	0
101	4	N217A	-1352.541	1390.295	-2357.282	0	0	0
102	4	Totals:	-5789.359	4166.838	0.081			
103	4	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
104	5	N18	452.794	-1000.127	-0.504	0	0	0
105	5	N30	31.433	-1279.477	-54.443	0	0	0
106	5	N24	313.854	-1391.566	544.617	0	0	0
107	5	N25	211.086	-31.227	366.618	0	0	0
108	5	N31	60.265	-23.644	-104.381	0	0	0
109	5	N19A	259.801	-78.057	-0.504	0	0	0
110	5	N89	197.51	256.534	-410.081	0	0	0
111	5	N90	-227.644	274.711	-369.957	0	0	0
112	5	N91	-712.654	427.805	-20.954	0	0	0
113	5	N92	-235.62	219.5	331.729	0	0	0
114	5	N93	-174.042	347.561	-289.999	0	0	0
115	5	N94	-118.068	326.429	-9.856	0	0	0
116	5	N95	-87.387	7.028	112.979	0	0	0
117	5	N96	88.583	6.973	155.889	0	0	0
118	5	N97	278.787	6.948	2.134	0	0	0
119	5	N98	17.289	7.033	-64.494	0	0	0
120	5	N99	-307.528	6.704	-546.493	0	0	0
121	5	N100	-528.521	6.75	0.294	0	0	0
122	5	N212	-300.89	92.627	-729.766	0	0	0
123	5	N213	-999.86	41.13	30.656	0	0	0
124	5	N214	-308.825	34.293	-30.442	0	0	0
125	5	N215A	-533.891	1599.297	76.032	0	0	0
126	5	N216A	-214.348	2238.046	-701.299	0	0	0
127	5	N217A	-2356.83	2071.566	-1286.95	0	0	0
128	5	Totals:	-5194.707	4166.838	-2999.176			
129	5	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
130	6	N18	-3380.863	-2542.253	-0.291	0	0	0
131	6	N30	1684.763	-2750.024	-2918.677	0	0	0
132	6	N24	2168.882	-3031.359	3756.613	0	0	0
133	6	N25	2042.96	1555.595	3538.51	0	0	0
134	6	N31	1752.123	1535.453	-3035.348	0	0	0
135	6	N19A	-3475.163	1491.939	-0.291	0	0	0
136	6	N89	307.231	260.994	-581.379	0	0	0
137	6	N90	-372.284	267.162	-629.234	0	0	0
138	6	N91	-286.427	428.582	-31.645	0	0	0
139	6	N92	-202.901	242.298	301.682	0	0	0
140	6	N93	-228.125	319.713	-402.952	0	0	0
141	6	N94	67.68	345.703	-30.014	0	0	0
142	6	N95	-76.176	7.032	106.999	0	0	0
143	6	N96	-29.049	7.09	-49.074	0	0	0
144	6	N97	518.315	6.806	-6.439	0	0	0
145	6	N98	24.87	7.032	-66.393	0	0	0
146	6	N99	-326.602	6.702	-576.927	0	0	0
147	6	N100	-411.091	6.821	-6.672	0	0	0
148	6	N212	3598.497	-1519.634	-933.123	0	0	0
149	6	N213	-2603.812	-1589.293	-3453.332	0	0	0
150	6	N214	-1996.839	-1566.282	3046.584	0	0	0
151	6	N215A	3489.7	3168.166	-603.664	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
152	6	N216A	-1393.203	3976.475	-4508.641	0	0	0
153	6	N217A	-3949.353	3532.119	1754.693	0	0	0
154	6	Totals:	-3076.866	4166.838	-5329.012			
155	6	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
156	7	N18	-2448.929	-2070.921	0	0	0	0
157	7	N30	936.514	-2130.759	-1623.097	0	0	0
158	7	N24	1479.923	-2529.686	2562.294	0	0	0
159	7	N25	1366.055	1013.15	2365.069	0	0	0
160	7	N31	1023.509	967.932	-1773.776	0	0	0
161	7	N19A	-2381.023	952.077	0	0	0	0
162	7	N89	453.04	283.254	-787.834	0	0	0
163	7	N90	-385.755	256.405	-675.837	0	0	0
164	7	N91	-79.907	409.964	-41.483	0	0	0
165	7	N92	-96.565	262.195	150.018	0	0	0
166	7	N93	-67.939	293.709	-141.18	0	0	0
167	7	N94	216.9	342.507	-41.798	0	0	0
168	7	N95	-27.768	7.074	42.429	0	0	0
169	7	N96	-51.149	7.11	-91.157	0	0	0
170	7	N97	585.366	6.771	-10.834	0	0	0
171	7	N98	103.748	6.959	-187.512	0	0	0
172	7	N99	-236.325	6.832	-423.624	0	0	0
173	7	N100	-340.76	6.868	-14.001	0	0	0
174	7	N212	2472.122	-965.708	-984.004	0	0	0
175	7	N213	-1598.632	-1032.539	-2393.76	0	0	0
176	7	N214	-1030.347	-982.719	1827.43	0	0	0
177	7	N215A	2543.619	2720.342	-804.63	0	0	0
178	7	N216A	172.109	3491.403	-3730.228	0	0	0
179	7	N217A	-2607.982	2844.615	678.177	0	0	0
180	7	Totals:	-0.178	4166.838	-6099.339			
181	7	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
182	8	N18	1047.323	-527.845	-0.291	0	0	0
183	8	N30	-1014.503	-418.862	1757.17	0	0	0
184	8	N24	-567.495	-855.907	-983.511	0	0	0
185	8	N25	-606.592	-654.722	-1051.23	0	0	0
186	8	N31	-903.93	-709.708	1565.652	0	0	0
187	8	N19A	1206.152	-695.178	-0.291	0	0	0
188	8	N89	476.247	319.001	-794.188	0	0	0
189	8	N90	-256.556	242.13	-500.638	0	0	0
190	8	N91	56.945	399.765	-29.268	0	0	0
191	8	N92	60.252	269.467	-104.92	0	0	0
192	8	N93	159.536	283.351	228.532	0	0	0
193	8	N94	255.366	316.897	-29.353	0	0	0
194	8	N95	-12.7	7.089	21.146	0	0	0
195	8	N96	28.689	7.041	27.34	0	0	0
196	8	N97	578.246	6.77	-1.426	0	0	0
197	8	N98	225.843	6.834	-393.067	0	0	0
198	8	N99	-105.013	6.974	-211.634	0	0	0
199	8	N100	-337.996	6.876	-10.227	0	0	0
200	8	N212	-1240.617	725.17	-919.712	0	0	0
201	8	N213	621.495	680.564	1084.363	0	0	0
202	8	N214	1269.345	740.831	-1487.788	0	0	0
203	8	N215A	-1065.399	1199.926	-540.514	0	0	0
204	8	N216A	2865.281	1766.488	-306.701	0	0	0
205	8	N217A	205.351	1043.884	-2420.59	0	0	0
206	8	Totals:	2945.271	4166.838	-5101.146			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
207	8	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
208	9	N18	450.71	-767.142	-0.504	0	0	0
209	9	N30	-769.072	-524.865	1333.078	0	0	0
210	9	N24	-517.982	-941.977	-897.172	0	0	0
211	9	N25	-476.486	-498.899	-825.297	0	0	0
212	9	N31	-656.844	-552.405	1138.695	0	0	0
213	9	N19A	611.243	-516.067	-0.504	0	0	0
214	9	N89	333.792	351.013	-538.045	0	0	0
215	9	N90	-158.667	239.739	-352.895	0	0	0
216	9	N91	279.108	394.833	-6.674	0	0	0
217	9	N92	116.769	278.367	-182.657	0	0	0
218	9	N93	277.489	286.333	416.623	0	0	0
219	9	N94	386.4	292.555	-11.21	0	0	0
220	9	N95	-95.147	6.983	162.481	0	0	0
221	9	N96	81.695	6.997	106.822	0	0	0
222	9	N97	640.71	6.727	8.323	0	0	0
223	9	N98	268.554	6.791	-463.798	0	0	0
224	9	N99	-44.274	7.032	-114.948	0	0	0
225	9	N100	-226.357	6.942	-1.446	0	0	0
226	9	N212	-599.141	540.451	-710.897	0	0	0
227	9	N213	525.11	521.018	836.354	0	0	0
228	9	N214	1284.451	579.699	-869.543	0	0	0
229	9	N215A	-405.864	1502.882	81.358	0	0	0
230	9	N216A	2962.075	1820.904	-459.869	0	0	0
231	9	N217A	698.873	1118.925	-1515.99	0	0	0
232	9	Totals:	4967.145	4166.838	-2867.714			
233	9	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
234	10	N18	-2206.784	-1939.404	0	0	0	0
235	10	N30	645.617	-1620.459	-1117.66	0	0	0
236	10	N24	644.162	-1962.546	1115.139	0	0	0
237	10	N25	725.701	609.44	1256.37	0	0	0
238	10	N31	707.707	566.129	-1225.204	0	0	0
239	10	N19A	-2034.351	617.214	0	0	0	0
240	10	N89	190.247	368.801	-265.134	0	0	0
241	10	N90	-127.388	253.169	-274.135	0	0	0
242	10	N91	321.939	374.14	3.239	0	0	0
243	10	N92	53.698	291.231	-35.407	0	0	0
244	10	N93	352.165	294.625	566.518	0	0	0
245	10	N94	610.62	277.177	-4.21	0	0	0
246	10	N95	-192.812	6.847	345.983	0	0	0
247	10	N96	92.362	6.983	135.787	0	0	0
248	10	N97	641.282	6.744	7.79	0	0	0
249	10	N98	228.227	6.844	-379.442	0	0	0
250	10	N99	-29.948	7.053	-76.625	0	0	0
251	10	N100	-32.714	7.046	0.235	0	0	0
252	10	N212	2163.709	-624.074	-367.735	0	0	0
253	10	N213	-773.055	-616.621	-1289.622	0	0	0
254	10	N214	30.205	-568.929	1705.236	0	0	0
255	10	N215A	2383.805	2753.845	950.255	0	0	0
256	10	N216A	1604.862	2820.255	-2455.736	0	0	0
257	10	N217A	-209.895	2231.329	1404.279	0	0	0
258	10	Totals:	5789.361	4166.838	-0.08			
259	10	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
260	11	N18	-423.622	-1266.053	0.504	0	0	0
261	11	N30	-48.277	-932.761	83.618	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
262	11	N24	-327.491	-1136.783	-568.238	0	0	0
263	11	N25	-220.553	-153.375	-383.015	0	0	0
264	11	N31	-61.65	-172.212	106.78	0	0	0
265	11	N19A	-251.845	-120.213	0.504	0	0	0
266	11	N89	115.625	375.65	-116.004	0	0	0
267	11	N90	-34.113	267.076	-78.885	0	0	0
268	11	N91	-14.719	349.203	9.14	0	0	0
269	11	N92	-0.291	288.303	80.873	0	0	0
270	11	N93	477.441	310.877	834.202	0	0	0
271	11	N94	654.411	257.772	7.836	0	0	0
272	11	N95	-222.201	6.81	405.082	0	0	0
273	11	N96	163.764	6.902	276.801	0	0	0
274	11	N97	438.817	6.879	8.593	0	0	0
275	11	N98	207.895	6.877	-329.469	0	0	0
276	11	N99	10.245	7.11	13.636	0	0	0
277	11	N100	12.989	7.067	2.116	0	0	0
278	11	N212	298.098	132.748	-32.769	0	0	0
279	11	N213	48.333	167.571	534.746	0	0	0
280	11	N214	876.055	189.04	360.758	0	0	0
281	11	N215A	503.942	2105.078	1858.817	0	0	0
282	11	N216A	2207.684	1916.235	-416.493	0	0	0
283	11	N217A	784.17	1547.037	340.043	0	0	0
284	11	Totals:	5194.71	4166.838	2999.176			
285	11	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
286	12	N18	3413.443	271.03	0.291	0	0	0
287	12	N30	-1690.087	537.04	2927.898	0	0	0
288	12	N24	-2178.028	496.841	-3772.455	0	0	0
289	12	N25	-2047.553	-1735.003	-3546.466	0	0	0
290	12	N31	-1749.405	-1724.58	3030.64	0	0	0
291	12	N19A	3472.84	-1689.657	0.291	0	0	0
292	12	N89	4.054	371.485	50.052	0	0	0
293	12	N90	105.126	274.64	182.768	0	0	0
294	12	N91	-436.968	348.653	18.649	0	0	0
295	12	N92	-30.636	265.709	110.346	0	0	0
296	12	N93	524.406	338.371	954.211	0	0	0
297	12	N94	472.279	238.491	30.228	0	0	0
298	12	N95	-234.678	6.803	409.235	0	0	0
299	12	N96	277.276	6.775	482.443	0	0	0
300	12	N97	201.512	7.005	15.078	0	0	0
301	12	N98	202.537	6.885	-327.374	0	0	0
302	12	N99	26.255	7.136	47.803	0	0	0
303	12	N100	-102.788	7.011	10.864	0	0	0
304	12	N212	-3596.689	1744.465	165.753	0	0	0
305	12	N213	1655.075	1792.645	4004.904	0	0	0
306	12	N214	2561.876	1782.707	-2701.099	0	0	0
307	12	N215A	-3540.158	541.576	2524.278	0	0	0
308	12	N216A	3402.233	185.437	3371.629	0	0	0
309	12	N217A	2364.948	85.372	-2660.952	0	0	0
310	12	Totals:	3076.868	4166.838	5329.012			
311	12	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
312	13	N18	502.286	-2270.521	0	0	0	0
313	13	N30	-169.174	-2196.81	293.273	0	0	0
314	13	N24	-311.27	-2474.716	-538.88	0	0	0
315	13	N25	-287.161	-436.781	-497.122	0	0	0
316	13	N31	-184.091	-439.157	319.11	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
317	13	N19A	466.289	-438.177	0	0	0	0
318	13	N89	254.87	680.473	-421.55	0	0	0
319	13	N90	-202.384	573.155	-341.846	0	0	0
320	13	N91	-850.579	819.925	-2.868	0	0	0
321	13	N92	-251.795	532.812	445.469	0	0	0
322	13	N93	379.287	713.068	687.097	0	0	0
323	13	N94	576.306	604.296	9.686	0	0	0
324	13	N95	-371.079	16.493	621.322	0	0	0
325	13	N96	303.046	16.661	521.712	0	0	0
326	13	N97	712.035	16.594	16.069	0	0	0
327	13	N98	228.799	16.846	-398.456	0	0	0
328	13	N99	-295.022	16.608	-528.935	0	0	0
329	13	N100	-503.034	16.731	6.66	0	0	0
330	13	N212	-478.361	476.042	-626.182	0	0	0
331	13	N213	-816.601	472.283	1161.728	0	0	0
332	13	N214	894.905	477.702	91.003	0	0	0
333	13	N215A	-523.539	3832	2560.528	0	0	0
334	13	N216A	2231.867	4185.719	-521.903	0	0	0
335	13	N217A	-1305.565	3704.931	-1139.91	0	0	0
336	13	Totals:	0.037	8916.176	1716.004			
337	13	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
338	14	N18	-210.94	-2584.575	0.074	0	0	0
339	14	N30	241.237	-2557.54	-417.834	0	0	0
340	14	N24	123.197	-2821.25	213.53	0	0	0
341	14	N25	129.382	-90.16	224.244	0	0	0
342	14	N31	220.71	-88.714	-382.282	0	0	0
343	14	N19A	-272.372	-95.892	0.074	0	0	0
344	14	N89	248.482	671.389	-418.222	0	0	0
345	14	N90	-233.004	576.982	-382.424	0	0	0
346	14	N91	-903.486	824.248	-5.485	0	0	0
347	14	N92	-289.042	530.011	506.102	0	0	0
348	14	N93	323.556	716.806	596.146	0	0	0
349	14	N94	557.727	610.873	5.768	0	0	0
350	14	N95	-371.506	16.499	622.698	0	0	0
351	14	N96	286	16.696	495.944	0	0	0
352	14	N97	704.342	16.603	13.356	0	0	0
353	14	N98	199.367	16.905	-349.341	0	0	0
354	14	N99	-326.669	16.528	-578.73	0	0	0
355	14	N100	-513.346	16.718	5.677	0	0	0
356	14	N212	286.026	124.737	-644.469	0	0	0
357	14	N213	-1303.716	116.267	438.39	0	0	0
358	14	N214	385.399	117.645	771.891	0	0	0
359	14	N215A	214.954	4137.127	2494.456	0	0	0
360	14	N216A	1613.455	4540.832	-1223.968	0	0	0
361	14	N217A	-1956.032	4087.44	-519.836	0	0	0
362	14	Totals:	-846.278	8916.177	1465.756			
363	14	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
364	15	N18	46.947	-2477.634	0.127	0	0	0
365	15	N30	128.465	-2488.637	-222.763	0	0	0
366	15	N24	65.714	-2757.313	113.819	0	0	0
367	15	N25	51.647	-170.731	89.455	0	0	0
368	15	N31	110.305	-169.707	-191.309	0	0	0
369	15	N19A	-25.311	-183.682	0.127	0	0	0
370	15	N89	282.553	663.37	-480.71	0	0	0
371	15	N90	-258.742	577.5	-420.679	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
372	15	N91	-958.828	827.823	-12.067	0	0	0
373	15	N92	-303.418	527.522	524.755	0	0	0
374	15	N93	286.08	717.124	536.263	0	0	0
375	15	N94	519.485	617.686	0.726	0	0	0
376	15	N95	-349.337	16.564	584.009	0	0	0
377	15	N96	272.221	16.723	476.025	0	0	0
378	15	N97	686.329	16.624	10.733	0	0	0
379	15	N98	189.402	16.923	-332.869	0	0	0
380	15	N99	-342.925	16.493	-604.637	0	0	0
381	15	N100	-548.187	16.674	3.141	0	0	0
382	15	N212	23.244	215.125	-707.612	0	0	0
383	15	N213	-1237.526	198.899	584.042	0	0	0
384	15	N214	416.506	200.741	520.939	0	0	0
385	15	N215A	-65.147	4009.846	2316.829	0	0	0
386	15	N216A	1618.878	4482.89	-1094.739	0	0	0
387	15	N217A	-2056.959	4025.355	-857.267	0	0	0
388	15	Totals:	-1448.601	8916.176	836.34			
389	15	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
390	16	N18	584.125	-2240.534	0	0	0	0
391	16	N30	-164.909	-2271.664	285.483	0	0	0
392	16	N24	-154.144	-2563.916	-266.838	0	0	0
393	16	N25	-182.077	-388.709	-315.219	0	0	0
394	16	N31	-168.702	-392.054	292.054	0	0	0
395	16	N19A	506.864	-409.54	0	0	0	0
396	16	N89	321.844	657.871	-555.933	0	0	0
397	16	N90	-270.244	573.737	-447.667	0	0	0
398	16	N91	-960.536	833.408	-16.018	0	0	0
399	16	N92	-291.129	524.533	491.294	0	0	0
400	16	N93	259.345	713.912	483.149	0	0	0
401	16	N94	465.175	622.137	-1.602	0	0	0
402	16	N95	-325.663	16.631	538.356	0	0	0
403	16	N96	264.947	16.739	461.073	0	0	0
404	16	N97	693.935	16.611	10.802	0	0	0
405	16	N98	197.053	16.902	-350.69	0	0	0
406	16	N99	-349.562	16.472	-621.152	0	0	0
407	16	N100	-594.949	16.616	2.25	0	0	0
408	16	N212	-533.06	447.239	-809.851	0	0	0
409	16	N213	-978.645	422.574	991.703	0	0	0
410	16	N214	656.533	429.08	-16.747	0	0	0
411	16	N215A	-631.862	3753.374	2066.477	0	0	0
412	16	N216A	1890.033	4298.867	-728.047	0	0	0
413	16	N217A	-1910.663	3805.89	-1492.857	0	0	0
414	16	Totals:	-1676.292	8916.176	0.019			
415	16	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
416	17	N18	67.637	-2437.53	-0.127	0	0	0
417	17	N30	35.786	-2467.98	-61.983	0	0	0
418	17	N24	120.62	-2799.335	209.175	0	0	0
419	17	N25	83.79	-172.176	145.384	0	0	0
420	17	N31	50.474	-182.159	-87.423	0	0	0
421	17	N19A	-1.991	-199.335	-0.127	0	0	0
422	17	N89	348.665	655.97	-608.42	0	0	0
423	17	N90	-295.304	569.882	-500.464	0	0	0
424	17	N91	-876.409	839.184	-16.935	0	0	0
425	17	N92	-276.066	525.351	459.645	0	0	0
426	17	N93	230.565	707.667	419.338	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
427	17	N94	454.308	626.886	-4.989	0	0	0
428	17	N95	-316.738	16.652	520.937	0	0	0
429	17	N96	244.777	16.788	420.605	0	0	0
430	17	N97	748.217	16.54	10.46	0	0	0
431	17	N98	202.834	16.886	-364.866	0	0	0
432	17	N99	-359.416	16.441	-642.906	0	0	0
433	17	N100	-605.692	16.602	2.185	0	0	0
434	17	N212	-1.079	231.445	-910.392	0	0	0
435	17	N213	-1201.909	199.984	476.678	0	0	0
436	17	N214	416.141	213.598	367.093	0	0	0
437	17	N215A	-86.663	3946.264	1808.106	0	0	0
438	17	N216A	1735.767	4556.845	-1313.133	0	0	0
439	17	N217A	-2190.369	4001.706	-1177.733	0	0	0
440	17	Totals:	-1472.054	8916.176	-849.894			
441	17	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
442	18	N18	-742.606	-2754.085	-0.074	0	0	0
443	18	N30	364.571	-2762.43	-631.603	0	0	0
444	18	N24	503.035	-3136.99	871.282	0	0	0
445	18	N25	461.069	153.247	798.594	0	0	0
446	18	N31	392.625	135.613	-680.194	0	0	0
447	18	N19A	-782.139	122.66	-0.074	0	0	0
448	18	N89	381.956	658.855	-660.177	0	0	0
449	18	N90	-329.632	567.812	-563.591	0	0	0
450	18	N91	-770.391	839.863	-19.814	0	0	0
451	18	N92	-262.405	531.235	443.548	0	0	0
452	18	N93	225.268	700.118	402.268	0	0	0
453	18	N94	496.505	631.437	-11.25	0	0	0
454	18	N95	-309.711	16.662	513.836	0	0	0
455	18	N96	217.561	16.849	371.717	0	0	0
456	18	N97	803.416	16.471	7.723	0	0	0
457	18	N98	209.582	16.874	-374.301	0	0	0
458	18	N99	-359.619	16.446	-642.685	0	0	0
459	18	N100	-580.749	16.632	0.259	0	0	0
460	18	N212	814.578	-99.24	-970.668	0	0	0
461	18	N213	-1505.608	-134.38	-256.033	0	0	0
462	18	N214	82.821	-112.585	992.453	0	0	0
463	18	N215A	768.959	4268.169	1620.775	0	0	0
464	18	N216A	1552.2	4916.588	-2135.684	0	0	0
465	18	N217A	-2491.142	4290.354	-565.57	0	0	0
466	18	Totals:	-859.857	8916.176	-1489.263			
467	18	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
468	19	N18	-440.346	-2604.127	0	0	0	0
469	19	N30	136.802	-2572.622	-237.203	0	0	0
470	19	N24	291.736	-2979.603	505.047	0	0	0
471	19	N25	255.284	-13.769	441.911	0	0	0
472	19	N31	173.612	-38.238	-300.96	0	0	0
473	19	N19A	-440.061	-43.663	0	0	0	0
474	19	N89	420.187	666.131	-712.571	0	0	0
475	19	N90	-332.873	564.891	-576.035	0	0	0
476	19	N91	-702.757	835.61	-22.697	0	0	0
477	19	N92	-233.078	537.087	402.337	0	0	0
478	19	N93	264.893	693.652	467.794	0	0	0
479	19	N94	535.266	630.725	-14.21	0	0	0
480	19	N95	-296.502	16.689	495.955	0	0	0
481	19	N96	212.187	16.86	361.871	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
482	19	N97	821.632	16.45	6.727	0	0	0
483	19	N98	232.973	16.83	-409.627	0	0	0
484	19	N99	-335.496	16.516	-601.665	0	0	0
485	19	N100	-562.38	16.655	-1.896	0	0	0
486	19	N212	461.997	71.456	-988.22	0	0	0
487	19	N213	-1202.466	37.089	66.574	0	0	0
488	19	N214	370.817	66.156	626.527	0	0	0
489	19	N215A	459.87	4122.383	1556.604	0	0	0
490	19	N216A	2007.651	4762.581	-1881.697	0	0	0
491	19	N217A	-2098.982	4080.438	-900.568	0	0	0
492	19	Totals:	-0.031	8916.176	-1716.003			
493	19	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
494	20	N18	270.793	-2290.412	-0.074	0	0	0
495	20	N30	-273.133	-2212.671	473.08	0	0	0
496	20	N24	-142.4	-2633.613	-246.791	0	0	0
497	20	N25	-160.622	-360.035	-278.353	0	0	0
498	20	N31	-230.543	-388.113	399.312	0	0	0
499	20	N19A	297.428	-385.193	-0.074	0	0	0
500	20	N89	426.972	675.196	-715.663	0	0	0
501	20	N90	-302.078	561.067	-535.754	0	0	0
502	20	N91	-650.028	831.282	-19.823	0	0	0
503	20	N92	-195.758	539.878	341.846	0	0	0
504	20	N93	320.649	689.925	558.349	0	0	0
505	20	N94	553.75	624.171	-10.335	0	0	0
506	20	N95	-295.897	16.685	494.676	0	0	0
507	20	N96	229.383	16.826	387.47	0	0	0
508	20	N97	829.268	16.441	9.594	0	0	0
509	20	N98	262.42	16.77	-458.61	0	0	0
510	20	N99	-303.895	16.594	-552.044	0	0	0
511	20	N100	-552.142	16.669	-0.983	0	0	0
512	20	N212	-300.76	421.985	-970.091	0	0	0
513	20	N213	-716.189	392.741	789.237	0	0	0
514	20	N214	879.213	425.629	-53.578	0	0	0
515	20	N215A	-275.346	3817.491	1622.595	0	0	0
516	20	N216A	2625.079	4408.004	-1179	0	0	0
517	20	N217A	-1449.879	3698.86	-1520.742	0	0	0
518	20	Totals:	846.284	8916.176	-1465.755			
519	20	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
520	21	N18	13.569	-2397.231	-0.127	0	0	0
521	21	N30	-160.467	-2281.465	278.192	0	0	0
522	21	N24	-85.077	-2697.291	-147.358	0	0	0
523	21	N25	-83.106	-279.621	-143.944	0	0	0
524	21	N31	-120.331	-307.248	208.674	0	0	0
525	21	N19A	50.761	-297.649	-0.127	0	0	0
526	21	N89	392.793	683.239	-653.268	0	0	0
527	21	N90	-276.4	560.553	-497.462	0	0	0
528	21	N91	-594.612	827.671	-13.295	0	0	0
529	21	N92	-181.392	542.366	323.107	0	0	0
530	21	N93	358.118	689.601	618.292	0	0	0
531	21	N94	592.01	617.351	-5.273	0	0	0
532	21	N95	-318.139	16.62	533.347	0	0	0
533	21	N96	243.129	16.8	407.432	0	0	0
534	21	N97	847.278	16.419	12.185	0	0	0
535	21	N98	272.373	16.75	-475.131	0	0	0
536	21	N99	-287.618	16.629	-526.101	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
537	21	N100	-517.286	16.712	1.582	0	0	0
538	21	N212	-38.51	331.85	-906.927	0	0	0
539	21	N213	-782.065	310.272	643.836	0	0	0
540	21	N214	848.44	342.664	197.156	0	0	0
541	21	N215A	3.747	3944.668	1800.315	0	0	0
542	21	N216A	2620.001	4465.651	-1308.251	0	0	0
543	21	N217A	-1348.609	3760.864	-1183.193	0	0	0
544	21	Totals:	1448.606	8916.176	-836.339			
545	21	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
546	22	N18	-523.725	-2634.556	0	0	0	0
547	22	N30	132.789	-2498.512	-229.85	0	0	0
548	22	N24	135.116	-2890.629	233.881	0	0	0
549	22	N25	150.677	-61.455	260.833	0	0	0
550	22	N31	158.772	-84.981	-274.854	0	0	0
551	22	N19A	-481.604	-71.676	0	0	0	0
552	22	N89	353.347	688.742	-577.918	0	0	0
553	22	N90	-264.895	564.326	-470.395	0	0	0
554	22	N91	-592.984	822.065	-9.666	0	0	0
555	22	N92	-193.869	545.36	356.582	0	0	0
556	22	N93	385.059	692.817	671.434	0	0	0
557	22	N94	646.309	612.883	-3.07	0	0	0
558	22	N95	-341.84	16.552	579.075	0	0	0
559	22	N96	250.394	16.784	422.461	0	0	0
560	22	N97	839.614	16.434	11.982	0	0	0
561	22	N98	264.6	16.772	-457.334	0	0	0
562	22	N99	-280.868	16.65	-509.596	0	0	0
563	22	N100	-470.471	16.769	2.386	0	0	0
564	22	N212	517.964	99.617	-804.3	0	0	0
565	22	N213	-1041.287	86.403	235.937	0	0	0
566	22	N214	608.626	114.408	734.924	0	0	0
567	22	N215A	570.496	4201.462	2051.47	0	0	0
568	22	N216A	2348.029	4649.544	-1676.035	0	0	0
569	22	N217A	-1493.951	3980.397	-547.963	0	0	0
570	22	Totals:	1676.298	8916.176	-0.018			
571	22	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
572	23	N18	-7.492	-2437.716	0.127	0	0	0
573	23	N30	-67.586	-2302.119	117.063	0	0	0
574	23	N24	-139.791	-2655.402	-242.381	0	0	0
575	23	N25	-115.08	-278.003	-199.579	0	0	0
576	23	N31	-60.322	-294.681	104.48	0	0	0
577	23	N19A	27.008	-281.778	0.127	0	0	0
578	23	N89	326.585	690.637	-525.542	0	0	0
579	23	N90	-239.873	568.175	-417.65	0	0	0
580	23	N91	-677.041	816.337	-8.483	0	0	0
581	23	N92	-208.802	544.551	388.243	0	0	0
582	23	N93	413.592	699.03	735.237	0	0	0
583	23	N94	657.144	608.129	0.47	0	0	0
584	23	N95	-350.774	16.53	596.417	0	0	0
585	23	N96	270.549	16.735	462.869	0	0	0
586	23	N97	785.423	16.506	12.426	0	0	0
587	23	N98	258.925	16.789	-443.146	0	0	0
588	23	N99	-271.129	16.68	-487.805	0	0	0
589	23	N100	-459.742	16.782	2.561	0	0	0
590	23	N212	-13.792	315.306	-704.105	0	0	0
591	23	N213	-817.864	309.008	750.856	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
592	23	N214	848.669	329.69	351.362	0	0	0
593	23	N215A	25.515	4008.749	2308.97	0	0	0
594	23	N216A	2503.162	4391.812	-1090.44	0	0	0
595	23	N217A	-1215.223	3784.428	-862.185	0	0	0
596	23	Totals:	1472.06	8916.176	849.896			
597	23	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
598	24	N18	803.424	-2121.259	0.074	0	0	0
599	24	N30	-395.951	-2007.484	685.954	0	0	0
600	24	N24	-522.115	-2317.937	-904.33	0	0	0
601	24	N25	-492.29	-603.29	-852.671	0	0	0
602	24	N31	-402.453	-612.26	697.216	0	0	0
603	24	N19A	806.994	-603.962	0.074	0	0	0
604	24	N89	293.161	687.766	-474.102	0	0	0
605	24	N90	-205.832	570.239	-354.358	0	0	0
606	24	N91	-782.795	815.682	-5.666	0	0	0
607	24	N92	-222.352	538.68	404.298	0	0	0
608	24	N93	418.531	706.561	752.726	0	0	0
609	24	N94	615.151	603.58	6.854	0	0	0
610	24	N95	-357.88	16.519	603.403	0	0	0
611	24	N96	297.534	16.673	511.812	0	0	0
612	24	N97	730.348	16.573	15.047	0	0	0
613	24	N98	252.296	16.802	-433.73	0	0	0
614	24	N99	-271.069	16.677	-487.813	0	0	0
615	24	N100	-484.595	16.753	4.595	0	0	0
616	24	N212	-829.672	646.186	-644.071	0	0	0
617	24	N213	-513.781	643.233	1483.117	0	0	0
618	24	N214	1182.116	655.674	-273.485	0	0	0
619	24	N215A	-831.834	3686.958	2495.53	0	0	0
620	24	N216A	2687.75	4032.353	-268.761	0	0	0
621	24	N217A	-914.826	3495.457	-1472.447	0	0	0
622	24	Totals:	859.862	8916.176	1489.264			
623	24	COG (ft):	X: -0.185	Y: -1.092	Z: 0.107			
624	25	N18	178.692	-1059.512	0	0	0	0
625	25	N30	-74.733	-1097.832	129.503	0	0	0
626	25	N24	-108.485	-1850.577	-187.838	0	0	0
627	25	N25	-71.206	-127.11	-123.27	0	0	0
628	25	N31	-70.553	-162.171	122.264	0	0	0
629	25	N19A	174.639	-171.29	0	0	0	0
630	25	N89	223.924	500.548	-374.356	0	0	0
631	25	N90	-141.02	330.506	-240.768	0	0	0
632	25	N91	-376.163	382.626	-3.737	0	0	0
633	25	N92	-116.782	249.31	205.363	0	0	0
634	25	N93	163.219	328.52	294.012	0	0	0
635	25	N94	287.366	302.683	1.405	0	0	0
636	25	N95	-255.347	6.65	427.446	0	0	0
637	25	N96	162.721	6.867	279.41	0	0	0
638	25	N97	340.538	6.924	6.245	0	0	0
639	25	N98	110.706	6.96	-193.34	0	0	0
640	25	N99	-139.326	6.931	-249.787	0	0	0
641	25	N100	-272.506	6.91	2.181	0	0	0
642	25	N212	-178.765	186.797	-172.288	0	0	0
643	25	N213	-884.705	133.562	674.362	0	0	0
644	25	N214	323.326	177.024	22.736	0	0	0
645	25	N215A	-185.72	1778.74	1026.635	0	0	0
646	25	N216A	1629.709	3128.145	-674.753	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
647	25	N217A	-719.518	1845.625	-590.218	0	0	0
648	25	Totals:	0.012	4916.837	381.207			
649	25	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
650	26	N18	-41.015	-1156.17	0.018	0	0	0
651	26	N30	47.473	-1205.238	-82.226	0	0	0
652	26	N24	19.803	-1955.498	34.336	0	0	0
653	26	N25	52.427	-22.754	90.843	0	0	0
654	26	N31	50.279	-56.992	-87.086	0	0	0
655	26	N19A	-50.242	-67.874	0.018	0	0	0
656	26	N89	222.637	498.295	-373.854	0	0	0
657	26	N90	-149	331.412	-251.887	0	0	0
658	26	N91	-384.804	383.267	-4.361	0	0	0
659	26	N92	-126.56	248.852	221.384	0	0	0
660	26	N93	149.029	329.171	270.681	0	0	0
661	26	N94	284.898	304.297	0.601	0	0	0
662	26	N95	-256.126	6.65	428.871	0	0	0
663	26	N96	157.851	6.873	271.907	0	0	0
664	26	N97	340.951	6.924	5.754	0	0	0
665	26	N98	103.076	6.968	-180.429	0	0	0
666	26	N99	-147.542	6.921	-263.14	0	0	0
667	26	N100	-272.728	6.91	1.917	0	0	0
668	26	N212	54.275	80.642	-176.361	0	0	0
669	26	N213	-1023.853	26.374	456.801	0	0	0
670	26	N214	178.957	68.966	230.397	0	0	0
671	26	N215A	41.694	1873.937	1010.078	0	0	0
672	26	N216A	1460.561	3236.253	-888.835	0	0	0
673	26	N217A	-896.121	1958.652	-396.609	0	0	0
674	26	Totals:	-184.082	4916.837	318.818			
675	26	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
676	27	N18	-3.313	-1141.093	0.031	0	0	0
677	27	N30	32.027	-1198.475	-55.535	0	0	0
678	27	N24	16.53	-1949.914	28.631	0	0	0
679	27	N25	44.134	-32.632	76.443	0	0	0
680	27	N31	34.679	-66.942	-60.129	0	0	0
681	27	N19A	-12.745	-79.241	0.031	0	0	0
682	27	N89	231.52	496.342	-389.926	0	0	0
683	27	N90	-155.141	331.561	-261.105	0	0	0
684	27	N91	-398.662	383.563	-5.764	0	0	0
685	27	N92	-130.077	248.295	226.205	0	0	0
686	27	N93	141.647	328.986	258.954	0	0	0
687	27	N94	276.71	305.815	-0.518	0	0	0
688	27	N95	-251.016	6.661	420.036	0	0	0
689	27	N96	154.523	6.876	266.956	0	0	0
690	27	N97	337.045	6.927	5.142	0	0	0
691	27	N98	100.415	6.97	-176.027	0	0	0
692	27	N99	-151.338	6.918	-269.166	0	0	0
693	27	N100	-279.706	6.906	1.383	0	0	0
694	27	N212	13.806	92.364	-189.45	0	0	0
695	27	N213	-1017.597	36.489	472.518	0	0	0
696	27	N214	178.191	79.158	191.518	0	0	0
697	27	N215A	-0.07	1854.884	971.194	0	0	0
698	27	N216A	1454.786	3232.603	-878.994	0	0	0
699	27	N217A	-926.794	1953.817	-453.193	0	0	0
700	27	Totals:	-310.443	4916.837	179.236			
701	27	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
702	28	N18	162.444	-1068.067	0	0	0	0
703	28	N30	-56.311	-1130.159	97.496	0	0	0
704	28	N24	-55.835	-1886.209	-96.673	0	0	0
705	28	N25	-30.794	-101.603	-53.301	0	0	0
706	28	N31	-50.399	-136.762	87.257	0	0	0
707	28	N19A	152.205	-149.91	0	0	0	0
708	28	N89	240.463	495.28	-406.919	0	0	0
709	28	N90	-157.08	330.717	-265.977	0	0	0
710	28	N91	-401.366	384.842	-6.578	0	0	0
711	28	N92	-126.255	247.494	217.012	0	0	0
712	28	N93	137.084	328.476	249.597	0	0	0
713	28	N94	262.711	306.765	-1.022	0	0	0
714	28	N95	-244.991	6.673	408.613	0	0	0
715	28	N96	153.827	6.877	265.183	0	0	0
716	28	N97	336.989	6.926	5.091	0	0	0
717	28	N98	102.856	6.967	-181.308	0	0	0
718	28	N99	-152.177	6.916	-271.578	0	0	0
719	28	N100	-291.763	6.898	1.228	0	0	0
720	28	N212	-158.524	164.982	-210.713	0	0	0
721	28	N213	-936.851	107.283	604.805	0	0	0
722	28	N214	256.538	150.858	30.906	0	0	0
723	28	N215A	-174.139	1776.985	917.374	0	0	0
724	28	N216A	1539.099	3170.167	-754.86	0	0	0
725	28	N217A	-869.568	1884.439	-635.627	0	0	0
726	28	Totals:	-361.837	4916.837	0.006			
727	28	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
728	29	N18	51.091	-1110.107	-0.031	0	0	0
729	29	N30	-12.919	-1173.01	22.377	0	0	0
730	29	N24	4.769	-1937.754	8.322	0	0	0
731	29	N25	28.274	-54.095	49.036	0	0	0
732	29	N31	-2.388	-90.634	4.136	0	0	0
733	29	N19A	40.916	-103.854	-0.031	0	0	0
734	29	N89	245.132	494.878	-416.315	0	0	0
735	29	N90	-162.921	329.847	-278.195	0	0	0
736	29	N91	-380.301	386.419	-6.822	0	0	0
737	29	N92	-122.819	247.681	209.741	0	0	0
738	29	N93	129.165	327.445	232.856	0	0	0
739	29	N94	259.941	307.971	-1.711	0	0	0
740	29	N95	-243.137	6.677	404.916	0	0	0
741	29	N96	149.38	6.883	256.347	0	0	0
742	29	N97	349.672	6.918	5.095	0	0	0
743	29	N98	104.175	6.965	-184.433	0	0	0
744	29	N99	-154.726	6.912	-277.198	0	0	0
745	29	N100	-294.636	6.896	1.159	0	0	0
746	29	N212	-42.019	117.715	-231.804	0	0	0
747	29	N213	-987.95	58.445	491.026	0	0	0
748	29	N214	203.618	103.503	114.844	0	0	0
749	29	N215A	-56.749	1817.486	860.236	0	0	0
750	29	N216A	1501.759	3226.605	-882.05	0	0	0
751	29	N217A	-931.992	1927.043	-568.944	0	0	0
752	29	Totals:	-324.667	4916.837	-187.446			
753	29	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
754	30	N18	-188.451	-1206.272	-0.018	0	0	0
755	30	N30	90.014	-1264.816	-155.944	0	0	0
756	30	N24	120.619	-2039.923	208.919	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
757	30	N25	142.528	44.75	246.866	0	0	0
758	30	N31	103.158	6.557	-178.711	0	0	0
759	30	N19A	-192.076	-5.774	-0.018	0	0	0
760	30	N89	252.006	495.176	-426.93	0	0	0
761	30	N90	-171.818	329.382	-294.457	0	0	0
762	30	N91	-353.784	386.461	-7.456	0	0	0
763	30	N92	-120.844	249.101	207.877	0	0	0
764	30	N93	125.991	325.711	225.588	0	0	0
765	30	N94	271.436	309.172	-3.042	0	0	0
766	30	N95	-242.346	6.677	404.642	0	0	0
767	30	N96	142.173	6.893	243.519	0	0	0
768	30	N97	364.569	6.91	4.622	0	0	0
769	30	N98	104.589	6.965	-184.562	0	0	0
770	30	N99	-155.82	6.912	-279.2	0	0	0
771	30	N100	-287.357	6.901	0.68	0	0	0
772	30	N212	201.472	16.994	-244.381	0	0	0
773	30	N213	-1088.074	-43.112	274.009	0	0	0
774	30	N214	98.24	3.727	306.59	0	0	0
775	30	N215A	195.144	1915.308	818.166	0	0	0
776	30	N216A	1427.441	3334.871	-1119.7	0	0	0
777	30	N217A	-1031.114	2018.267	-380.119	0	0	0
778	30	Totals:	-192.303	4916.837	-333.06			
779	30	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
780	31	N18	-131.145	-1177.273	0	0	0	0
781	31	N30	43.875	-1226.507	-76.057	0	0	0
782	31	N24	77.903	-2008.969	134.869	0	0	0
783	31	N25	100.721	11.274	174.39	0	0	0
784	31	N31	58.11	-28.413	-100.713	0	0	0
785	31	N19A	-124.692	-39.096	0	0	0	0
786	31	N89	261.196	496.608	-439.878	0	0	0
787	31	N90	-172.739	328.704	-297.42	0	0	0
788	31	N91	-340.814	385.303	-8.035	0	0	0
789	31	N92	-114.146	250.354	198.436	0	0	0
790	31	N93	135.822	324.07	241.979	0	0	0
791	31	N94	280.808	308.971	-3.72	0	0	0
792	31	N95	-239.351	6.682	400.609	0	0	0
793	31	N96	140.725	6.895	240.846	0	0	0
794	31	N97	368.813	6.908	4.341	0	0	0
795	31	N98	109.56	6.961	-192.091	0	0	0
796	31	N99	-150.267	6.919	-269.589	0	0	0
797	31	N100	-282.919	6.903	0.254	0	0	0
798	31	N212	132.047	51.184	-247.731	0	0	0
799	31	N213	-1025.624	-8.75	339.261	0	0	0
800	31	N214	158.072	39.685	231.361	0	0	0
801	31	N215A	136.885	1887.788	805.234	0	0	0
802	31	N216A	1525.282	3304.955	-1071.524	0	0	0
803	31	N217A	-948.132	1975.681	-446.028	0	0	0
804	31	Totals:	-0.01	4916.837	-381.206			
805	31	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
806	32	N18	88.403	-1080.647	-0.018	0	0	0
807	32	N30	-78.292	-1119.157	135.605	0	0	0
808	32	N24	-50.352	-1904.093	-87.249	0	0	0
809	32	N25	-22.861	-93.049	-39.633	0	0	0
810	32	N31	-62.669	-133.547	108.546	0	0	0
811	32	N19A	100.092	-142.453	-0.018	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
812	32	N89	262.508	498.861	-440.362	0	0	0
813	32	N90	-164.745	327.798	-286.323	0	0	0
814	32	N91	-332.183	384.663	-7.395	0	0	0
815	32	N92	-104.365	250.811	182.425	0	0	0
816	32	N93	150.015	323.419	265.284	0	0	0
817	32	N94	283.269	307.358	-2.918	0	0	0
818	32	N95	-238.561	6.682	399.192	0	0	0
819	32	N96	145.607	6.889	248.337	0	0	0
820	32	N97	368.397	6.908	4.843	0	0	0
821	32	N98	117.189	6.953	-204.994	0	0	0
822	32	N99	-142.053	6.929	-256.249	0	0	0
823	32	N100	-282.702	6.904	0.514	0	0	0
824	32	N212	-100.865	157.279	-243.666	0	0	0
825	32	N213	-886.543	98.403	556.759	0	0	0
826	32	N214	302.359	147.697	23.769	0	0	0
827	32	N215A	-90.289	1792.619	821.786	0	0	0
828	32	N216A	1694.352	3196.891	-857.419	0	0	0
829	32	N217A	-771.626	1862.719	-639.635	0	0	0
830	32	Totals:	184.084	4916.837	-318.817			
831	32	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
832	33	N18	50.752	-1095.708	-0.031	0	0	0
833	33	N30	-62.859	-1125.905	108.937	0	0	0
834	33	N24	-47.1	-1909.656	-81.58	0	0	0
835	33	N25	-14.589	-83.188	-25.269	0	0	0
836	33	N31	-47.089	-123.612	81.624	0	0	0
837	33	N19A	62.634	-131.107	-0.031	0	0	0
838	33	N89	253.621	500.814	-424.296	0	0	0
839	33	N90	-158.608	327.649	-277.104	0	0	0
840	33	N91	-318.323	384.366	-5.99	0	0	0
841	33	N92	-100.847	251.368	177.601	0	0	0
842	33	N93	157.395	323.603	277.014	0	0	0
843	33	N94	291.457	305.84	-1.798	0	0	0
844	33	N95	-243.673	6.671	408.025	0	0	0
845	33	N96	148.933	6.885	253.29	0	0	0
846	33	N97	372.302	6.906	5.455	0	0	0
847	33	N98	119.851	6.951	-209.398	0	0	0
848	33	N99	-138.257	6.932	-250.221	0	0	0
849	33	N100	-275.724	6.908	1.05	0	0	0
850	33	N212	-60.443	145.578	-230.579	0	0	0
851	33	N213	-892.772	88.307	541.074	0	0	0
852	33	N214	303.149	137.52	62.619	0	0	0
853	33	N215A	-48.592	1811.657	860.667	0	0	0
854	33	N216A	1700.161	3200.52	-867.234	0	0	0
855	33	N217A	-740.935	1867.54	-583.059	0	0	0
856	33	Totals:	310.445	4916.837	-179.235			
857	33	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
858	34	N18	-115.029	-1168.756	0	0	0	0
859	34	N30	25.482	-1194.236	-44.1	0	0	0
860	34	N24	25.3	-1973.369	43.784	0	0	0
861	34	N25	60.355	-14.195	104.501	0	0	0
862	34	N31	38.006	-53.786	-65.792	0	0	0
863	34	N19A	-102.349	-60.423	0	0	0	0
864	34	N89	244.668	501.876	-407.296	0	0	0
865	34	N90	-156.669	328.493	-272.225	0	0	0
866	34	N91	-315.622	383.085	-5.199	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
867	34	N92	-104.683	252.17	186.794	0	0	0
868	34	N93	161.971	324.115	286.372	0	0	0
869	34	N94	305.458	304.888	-1.301	0	0	0
870	34	N95	-249.701	6.659	419.453	0	0	0
871	34	N96	149.627	6.884	255.068	0	0	0
872	34	N97	372.355	6.906	5.496	0	0	0
873	34	N98	117.402	6.954	-204.118	0	0	0
874	34	N99	-137.411	6.934	-247.81	0	0	0
875	34	N100	-263.663	6.915	1.2	0	0	0
876	34	N212	111.919	72.945	-209.291	0	0	0
877	34	N213	-973.55	17.489	408.75	0	0	0
878	34	N214	224.806	65.814	223.257	0	0	0
879	34	N215A	125.493	1889.583	914.542	0	0	0
880	34	N216A	1615.781	3262.96	-991.464	0	0	0
881	34	N217A	-798.109	1936.932	-400.626	0	0	0
882	34	Totals:	361.839	4916.837	-0.004			
883	34	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
884	35	N18	-3.674	-1126.716	0.031	0	0	0
885	35	N30	-17.903	-1151.376	31.009	0	0	0
886	35	N24	-35.321	-1921.825	-61.24	0	0	0
887	35	N25	1.282	-61.712	2.158	0	0	0
888	35	N31	-10.009	-99.913	17.336	0	0	0
889	35	N19A	8.945	-106.48	0.031	0	0	0
890	35	N89	240.001	502.278	-397.903	0	0	0
891	35	N90	-150.828	329.363	-260.01	0	0	0
892	35	N91	-336.684	381.511	-4.94	0	0	0
893	35	N92	-108.111	251.983	194.065	0	0	0
894	35	N93	169.879	325.144	303.112	0	0	0
895	35	N94	308.225	303.683	-0.605	0	0	0
896	35	N95	-251.555	6.655	423.147	0	0	0
897	35	N96	154.075	6.878	263.901	0	0	0
898	35	N97	359.677	6.914	5.498	0	0	0
899	35	N98	116.088	6.956	-200.993	0	0	0
900	35	N99	-134.867	6.937	-242.188	0	0	0
901	35	N100	-260.791	6.917	1.274	0	0	0
902	35	N212	-4.592	120.214	-188.216	0	0	0
903	35	N213	-922.434	66.336	522.541	0	0	0
904	35	N214	277.717	113.168	139.316	0	0	0
905	35	N215A	8.102	1849.08	971.638	0	0	0
906	35	N216A	1653.171	3206.525	-864.23	0	0	0
907	35	N217A	-735.725	1894.316	-467.285	0	0	0
908	35	Totals:	324.669	4916.837	187.447			
909	35	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
910	36	N18	235.881	-1030.57	0.018	0	0	0
911	36	N30	-120.791	-1059.573	209.252	0	0	0
912	36	N24	-151.154	-1819.68	-261.806	0	0	0
913	36	N25	-112.953	-160.536	-195.64	0	0	0
914	36	N31	-115.538	-197.078	200.155	0	0	0
915	36	N19A	241.897	-204.559	0.018	0	0	0
916	36	N89	233.12	501.981	-387.31	0	0	0
917	36	N90	-141.952	329.828	-243.738	0	0	0
918	36	N91	-363.185	381.469	-4.311	0	0	0
919	36	N92	-110.077	250.564	195.927	0	0	0
920	36	N93	173.025	326.876	310.407	0	0	0
921	36	N94	296.744	302.482	0.735	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
922	36	N95	-252.351	6.655	423.413	0	0	0
923	36	N96	161.266	6.869	276.731	0	0	0
924	36	N97	344.788	6.922	5.963	0	0	0
925	36	N98	115.683	6.956	-200.863	0	0	0
926	36	N99	-133.785	6.938	-240.172	0	0	0
927	36	N100	-268.063	6.913	1.76	0	0	0
928	36	N212	-248.065	220.933	-175.658	0	0	0
929	36	N213	-822.3	167.873	739.503	0	0	0
930	36	N214	383.086	212.917	-52.37	0	0	0
931	36	N215A	-243.871	1751.28	1013.653	0	0	0
932	36	N216A	1727.55	3098.289	-626.655	0	0	0
933	36	N217A	-636.648	1803.088	-655.951	0	0	0
934	36	Totals:	192.305	4916.837	333.061			
935	36	COG (ft):	X: -0.744	Y: -1.488	Z: 0.692			
936	37	N18	165.268	-1068.491	0	0	0	0
937	37	N30	-62.748	-1378.561	108.746	0	0	0
938	37	N24	-99.423	-1343.765	-172.142	0	0	0
939	37	N25	-96.727	-154.386	-167.474	0	0	0
940	37	N31	-73.12	-145.105	126.711	0	0	0
941	37	N19A	149.915	-161.244	0	0	0	0
942	37	N89	212.757	475.763	-355.475	0	0	0
943	37	N90	-223.029	520.647	-381.659	0	0	0
944	37	N91	-386.839	400.015	-3.868	0	0	0
945	37	N92	-119.822	254.089	210.694	0	0	0
946	37	N93	162.027	325.407	291.854	0	0	0
947	37	N94	276.51	291.02	1.434	0	0	0
948	37	N95	-232.785	6.71	389.688	0	0	0
949	37	N96	250.168	6.596	429.426	0	0	0
950	37	N97	361.397	6.906	6.548	0	0	0
951	37	N98	111.58	6.958	-194.886	0	0	0
952	37	N99	-140.216	6.931	-251.359	0	0	0
953	37	N100	-250.362	6.928	2.101	0	0	0
954	37	N212	-152.98	176.458	-189.654	0	0	0
955	37	N213	-365.505	166.787	441.223	0	0	0
956	37	N214	630.116	156.818	194.424	0	0	0
957	37	N215A	-171.791	1789.314	1042.758	0	0	0
958	37	N216A	1106.508	2253.125	-394.984	0	0	0
959	37	N217A	-1050.886	2317.916	-752.895	0	0	0
960	37	Totals:	0.012	4916.838	381.209			
961	37	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
962	38	N18	-54.449	-1165.15	0.018	0	0	0
963	38	N30	59.531	-1485.933	-103.11	0	0	0
964	38	N24	28.754	-1448.688	49.84	0	0	0
965	38	N25	26.928	-49.911	46.678	0	0	0
966	38	N31	47.7	-40.005	-82.619	0	0	0
967	38	N19A	-74.968	-57.831	0.018	0	0	0
968	38	N89	211.468	473.5	-354.953	0	0	0
969	38	N90	-231.067	521.575	-392.742	0	0	0
970	38	N91	-395.477	400.651	-4.488	0	0	0
971	38	N92	-129.596	253.632	226.716	0	0	0
972	38	N93	147.837	326.06	268.525	0	0	0
973	38	N94	274.041	292.634	0.635	0	0	0
974	38	N95	-233.573	6.71	391.092	0	0	0
975	38	N96	245.359	6.605	421.886	0	0	0
976	38	N97	361.803	6.906	6.048	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
977	38	N98	103.95	6.965	-181.975	0	0	0
978	38	N99	-148.434	6.922	-264.714	0	0	0
979	38	N100	-250.579	6.928	1.828	0	0	0
980	38	N212	80.055	70.306	-193.747	0	0	0
981	38	N213	-504.768	59.479	223.428	0	0	0
982	38	N214	485.809	48.843	401.942	0	0	0
983	38	N215A	55.638	1884.509	1026.208	0	0	0
984	38	N216A	937.569	2361.237	-608.669	0	0	0
985	38	N217A	-1227.612	2430.896	-559.024	0	0	0
986	38	Totals:	-184.082	4916.838	318.82			
987	38	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
988	39	N18	-16.739	-1150.066	0.031	0	0	0
989	39	N30	44.078	-1479.141	-76.408	0	0	0
990	39	N24	25.49	-1443.119	44.15	0	0	0
991	39	N25	18.627	-59.796	32.263	0	0	0
992	39	N31	32.095	-49.956	-55.653	0	0	0
993	39	N19A	-37.46	-69.202	0.031	0	0	0
994	39	N89	220.343	471.527	-371.015	0	0	0
995	39	N90	-237.211	521.742	-401.978	0	0	0
996	39	N91	-409.332	400.944	-5.892	0	0	0
997	39	N92	-133.112	253.074	231.535	0	0	0
998	39	N93	140.454	325.873	256.797	0	0	0
999	39	N94	265.852	294.152	-0.484	0	0	0
1000	39	N95	-228.457	6.721	382.25	0	0	0
1001	39	N96	242.032	6.61	416.951	0	0	0
1002	39	N97	357.895	6.908	5.438	0	0	0
1003	39	N98	101.29	6.967	-177.574	0	0	0
1004	39	N99	-152.23	6.918	-270.738	0	0	0
1005	39	N100	-257.557	6.924	1.295	0	0	0
1006	39	N212	39.574	82.033	-206.833	0	0	0
1007	39	N213	-498.497	69.601	239.179	0	0	0
1008	39	N214	485.043	59.038	363.066	0	0	0
1009	39	N215A	13.866	1865.447	987.318	0	0	0
1010	39	N216A	931.782	2357.62	-598.863	0	0	0
1011	39	N217A	-1258.268	2426.019	-615.63	0	0	0
1012	39	Totals:	-310.443	4916.838	179.238			
1013	39	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1014	40	N18	149.025	-1077.036	0	0	0	0
1015	40	N30	-44.305	-1410.814	76.702	0	0	0
1016	40	N24	-46.801	-1379.419	-81.026	0	0	0
1017	40	N25	-56.323	-128.834	-97.519	0	0	0
1018	40	N31	-52.98	-119.732	91.727	0	0	0
1019	40	N19A	127.496	-139.872	0	0	0	0
1020	40	N89	229.278	470.447	-388.007	0	0	0
1021	40	N90	-239.123	520.913	-406.894	0	0	0
1022	40	N91	-412.033	402.222	-6.708	0	0	0
1023	40	N92	-129.292	252.272	222.34	0	0	0
1024	40	N93	135.89	325.36	247.438	0	0	0
1025	40	N94	251.853	295.105	-0.991	0	0	0
1026	40	N95	-222.419	6.732	370.83	0	0	0
1027	40	N96	241.304	6.612	415.217	0	0	0
1028	40	N97	357.838	6.907	5.392	0	0	0
1029	40	N98	103.73	6.964	-182.854	0	0	0
1030	40	N99	-153.067	6.917	-273.148	0	0	0
1031	40	N100	-269.616	6.917	1.146	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1032	40	N212	-132.759	154.651	-228.081	0	0	0
1033	40	N213	-417.668	140.464	371.631	0	0	0
1034	40	N214	563.35	130.693	202.542	0	0	0
1035	40	N215A	-160.217	1787.542	933.488	0	0	0
1036	40	N216A	1015.956	2295.199	-474.992	0	0	0
1037	40	N217A	-1200.955	2356.625	-798.225	0	0	0
1038	40	Totals:	-361.838	4916.838	0.007			
1039	40	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1040	41	N18	37.663	-1119.082	-0.031	0	0	0
1041	41	N30	-0.878	-1453.644	1.521	0	0	0
1042	41	N24	13.756	-1430.974	23.889	0	0	0
1043	41	N25	2.753	-81.26	4.831	0	0	0
1044	41	N31	-4.972	-73.627	8.612	0	0	0
1045	41	N19A	16.202	-93.816	-0.031	0	0	0
1046	41	N89	233.939	470.024	-397.384	0	0	0
1047	41	N90	-244.999	520.073	-419.11	0	0	0
1048	41	N91	-390.965	403.794	-6.951	0	0	0
1049	41	N92	-125.855	252.46	215.071	0	0	0
1050	41	N93	127.972	324.332	230.699	0	0	0
1051	41	N94	249.087	296.315	-1.678	0	0	0
1052	41	N95	-220.565	6.736	367.116	0	0	0
1053	41	N96	236.889	6.621	406.372	0	0	0
1054	41	N97	370.517	6.899	5.391	0	0	0
1055	41	N98	105.049	6.963	-185.98	0	0	0
1056	41	N99	-155.619	6.913	-278.772	0	0	0
1057	41	N100	-272.488	6.915	1.073	0	0	0
1058	41	N212	-16.252	107.384	-249.179	0	0	0
1059	41	N213	-468.819	91.558	257.752	0	0	0
1060	41	N214	510.455	83.362	286.422	0	0	0
1061	41	N215A	-42.816	1828.052	876.351	0	0	0
1062	41	N216A	978.708	2351.642	-602.012	0	0	0
1063	41	N217A	-1263.429	2399.198	-731.418	0	0	0
1064	41	Totals:	-324.667	4916.838	-187.445			
1065	41	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1066	42	N18	-201.887	-1215.254	-0.018	0	0	0
1067	42	N30	102.121	-1545.421	-176.916	0	0	0
1068	42	N24	129.503	-1533.175	224.305	0	0	0
1069	42	N25	117.026	17.702	202.696	0	0	0
1070	42	N31	100.563	23.508	-174.217	0	0	0
1071	42	N19A	-216.79	4.261	-0.018	0	0	0
1072	42	N89	240.806	470.296	-407.969	0	0	0
1073	42	N90	-253.955	519.641	-435.347	0	0	0
1074	42	N91	-364.447	403.833	-7.582	0	0	0
1075	42	N92	-123.879	253.881	213.209	0	0	0
1076	42	N93	124.799	322.602	223.436	0	0	0
1077	42	N94	260.585	297.519	-3.005	0	0	0
1078	42	N95	-219.78	6.736	366.819	0	0	0
1079	42	N96	229.741	6.636	393.512	0	0	0
1080	42	N97	385.41	6.891	4.911	0	0	0
1081	42	N98	105.463	6.962	-186.111	0	0	0
1082	42	N99	-156.715	6.912	-280.778	0	0	0
1083	42	N100	-265.208	6.919	0.585	0	0	0
1084	42	N212	227.233	6.666	-261.769	0	0	0
1085	42	N213	-569.056	-10.123	40.524	0	0	0
1086	42	N214	405.137	-16.356	478.038	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1087	42	N215A	209.09	1925.886	834.287	0	0	0
1088	42	N216A	904.597	2459.941	-839.299	0	0	0
1089	42	N217A	-1362.663	2490.375	-542.354	0	0	0
1090	42	Totals:	-192.304	4916.838	-333.058			
1091	42	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1092	43	N18	-144.572	-1186.256	0	0	0	0
1093	43	N30	55.956	-1507.111	-96.982	0	0	0
1094	43	N24	86.819	-1502.248	150.312	0	0	0
1095	43	N25	75.208	-15.812	130.201	0	0	0
1096	43	N31	55.517	-11.431	-96.22	0	0	0
1097	43	N19A	-149.399	-29.064	0	0	0	0
1098	43	N89	249.989	471.715	-420.914	0	0	0
1099	43	N90	-254.861	518.968	-438.329	0	0	0
1100	43	N91	-351.479	402.677	-8.162	0	0	0
1101	43	N92	-117.182	255.135	203.768	0	0	0
1102	43	N93	134.63	320.96	239.827	0	0	0
1103	43	N94	269.957	297.319	-3.684	0	0	0
1104	43	N95	-216.778	6.74	362.787	0	0	0
1105	43	N96	228.275	6.639	390.855	0	0	0
1106	43	N97	389.656	6.889	4.632	0	0	0
1107	43	N98	110.435	6.958	-193.641	0	0	0
1108	43	N99	-151.161	6.92	-271.166	0	0	0
1109	43	N100	-260.773	6.921	0.162	0	0	0
1110	43	N212	157.802	40.859	-265.108	0	0	0
1111	43	N213	-506.572	24.275	105.862	0	0	0
1112	43	N214	464.954	19.57	402.853	0	0	0
1113	43	N215A	150.82	1898.368	821.352	0	0	0
1114	43	N216A	1002.385	2430.063	-791.254	0	0	0
1115	43	N217A	-1279.637	2447.784	-608.355	0	0	0
1116	43	Totals:	-0.011	4916.838	-381.204			
1117	43	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1118	44	N18	74.985	-1089.63	-0.018	0	0	0
1119	44	N30	-66.284	-1399.796	114.807	0	0	0
1120	44	N24	-41.326	-1397.37	-71.615	0	0	0
1121	44	N25	-48.396	-120.253	-83.861	0	0	0
1122	44	N31	-65.252	-116.486	113.02	0	0	0
1123	44	N19A	75.387	-132.418	-0.018	0	0	0
1124	44	N89	251.303	473.977	-421.418	0	0	0
1125	44	N90	-246.81	518.04	-427.267	0	0	0
1126	44	N91	-342.851	402.041	-7.526	0	0	0
1127	44	N92	-107.404	255.592	187.757	0	0	0
1128	44	N93	148.824	320.308	263.129	0	0	0
1129	44	N94	272.419	295.707	-2.887	0	0	0
1130	44	N95	-215.979	6.741	361.39	0	0	0
1131	44	N96	233.094	6.63	398.382	0	0	0
1132	44	N97	389.248	6.889	5.143	0	0	0
1133	44	N98	118.064	6.951	-206.543	0	0	0
1134	44	N99	-142.945	6.929	-257.824	0	0	0
1135	44	N100	-260.56	6.922	0.431	0	0	0
1136	44	N212	-75.106	146.951	-261.023	0	0	0
1137	44	N213	-367.376	131.549	323.594	0	0	0
1138	44	N214	609.179	127.498	195.403	0	0	0
1139	44	N215A	-76.369	1803.201	837.898	0	0	0
1140	44	N216A	1171.246	2321.996	-577.546	0	0	0
1141	44	N217A	-1103.009	2334.869	-802.223	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1142	44	Totals:	184.083	4916.838	-318.815			
1143	44	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1144	45	N18	37.327	-1104.698	-0.031	0	0	0
1145	45	N30	-50.844	-1406.573	88.127	0	0	0
1146	45	N24	-38.082	-1402.919	-65.96	0	0	0
1147	45	N25	-40.115	-110.385	-69.482	0	0	0
1148	45	N31	-49.667	-106.549	86.088	0	0	0
1149	45	N19A	37.919	-121.068	-0.031	0	0	0
1150	45	N89	242.424	475.951	-405.362	0	0	0
1151	45	N90	-240.669	517.873	-418.03	0	0	0
1152	45	N91	-328.993	401.747	-6.121	0	0	0
1153	45	N92	-103.887	256.15	182.933	0	0	0
1154	45	N93	156.205	320.495	274.86	0	0	0
1155	45	N94	280.608	294.188	-1.766	0	0	0
1156	45	N95	-221.098	6.73	370.229	0	0	0
1157	45	N96	236.42	6.624	403.32	0	0	0
1158	45	N97	393.155	6.886	5.753	0	0	0
1159	45	N98	120.726	6.948	-210.947	0	0	0
1160	45	N99	-139.149	6.933	-251.798	0	0	0
1161	45	N100	-253.582	6.926	0.966	0	0	0
1162	45	N212	-34.672	135.246	-247.939	0	0	0
1163	45	N213	-373.62	121.445	307.875	0	0	0
1164	45	N214	609.969	117.318	234.25	0	0	0
1165	45	N215A	-34.663	1822.248	876.784	0	0	0
1166	45	N216A	1177.067	2325.592	-587.326	0	0	0
1167	45	N217A	-1072.334	2339.731	-745.626	0	0	0
1168	45	Totals:	310.444	4916.838	-179.233			
1169	45	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1170	46	N18	-128.462	-1177.75	0	0	0	0
1171	46	N30	37.542	-1474.915	-64.988	0	0	0
1172	46	N24	34.244	-1466.627	59.276	0	0	0
1173	46	N25	34.85	-41.325	60.326	0	0	0
1174	46	N31	35.425	-36.768	-61.322	0	0	0
1175	46	N19A	-127.07	-50.383	0	0	0	0
1176	46	N89	233.48	477.03	-388.363	0	0	0
1177	46	N90	-238.757	518.702	-413.107	0	0	0
1178	46	N91	-326.295	400.468	-5.328	0	0	0
1179	46	N92	-107.721	256.952	192.129	0	0	0
1180	46	N93	160.781	321.008	284.22	0	0	0
1181	46	N94	294.608	293.235	-1.268	0	0	0
1182	46	N95	-227.138	6.718	381.655	0	0	0
1183	46	N96	237.146	6.623	405.058	0	0	0
1184	46	N97	393.209	6.887	5.789	0	0	0
1185	46	N98	118.277	6.951	-205.668	0	0	0
1186	46	N99	-138.305	6.934	-249.389	0	0	0
1187	46	N100	-241.519	6.933	1.11	0	0	0
1188	46	N212	137.693	62.612	-226.665	0	0	0
1189	46	N213	-454.481	50.558	175.387	0	0	0
1190	46	N214	531.666	45.658	394.801	0	0	0
1191	46	N215A	139.435	1900.179	930.67	0	0	0
1192	46	N216A	1092.826	2388.017	-711.293	0	0	0
1193	46	N217A	-1129.595	2409.14	-563.032	0	0	0
1194	46	Totals:	361.839	4916.838	-0.003			
1195	46	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1196	47	N18	-17.098	-1135.703	0.031	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1197	47	N30	-5.878	-1432.075	10.182	0	0	0
1198	47	N24	-26.331	-1415.073	-45.669	0	0	0
1199	47	N25	-24.23	-88.907	-42.03	0	0	0
1200	47	N31	-12.587	-82.872	21.801	0	0	0
1201	47	N19A	-15.771	-96.44	0.031	0	0	0
1202	47	N89	228.82	477.453	-378.99	0	0	0
1203	47	N90	-232.882	519.542	-400.894	0	0	0
1204	47	N91	-347.36	398.898	-5.07	0	0	0
1205	47	N92	-111.151	256.765	199.398	0	0	0
1206	47	N93	168.689	322.035	300.958	0	0	0
1207	47	N94	297.371	292.025	-0.573	0	0	0
1208	47	N95	-228.993	6.715	385.365	0	0	0
1209	47	N96	241.562	6.613	413.9	0	0	0
1210	47	N97	380.534	6.895	5.796	0	0	0
1211	47	N98	116.963	6.953	-202.543	0	0	0
1212	47	N99	-135.758	6.938	-243.763	0	0	0
1213	47	N100	-238.648	6.935	1.188	0	0	0
1214	47	N212	21.18	109.88	-205.585	0	0	0
1215	47	N213	-403.314	99.474	289.277	0	0	0
1216	47	N214	584.552	92.987	310.918	0	0	0
1217	47	N215A	22.033	1859.668	987.765	0	0	0
1218	47	N216A	1130.124	2331.577	-584.228	0	0	0
1219	47	N217A	-1067.16	2366.556	-629.814	0	0	0
1220	47	Totals:	324.668	4916.838	187.449			
1221	47	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1222	48	N18	222.466	-1039.55	0.018	0	0	0
1223	48	N30	-108.833	-1340.301	188.54	0	0	0
1224	48	N24	-142.06	-1312.896	-246.055	0	0	0
1225	48	N25	-138.484	-187.85	-239.862	0	0	0
1226	48	N31	-118.106	-179.98	204.602	0	0	0
1227	48	N19A	217.181	-194.516	0.018	0	0	0
1228	48	N89	221.947	477.183	-368.426	0	0	0
1229	48	N90	-223.947	519.974	-384.648	0	0	0
1230	48	N91	-373.863	398.86	-4.444	0	0	0
1231	48	N92	-113.118	255.344	201.258	0	0	0
1232	48	N93	171.834	323.764	308.248	0	0	0
1233	48	N94	285.888	290.82	0.763	0	0	0
1234	48	N95	-229.783	6.715	385.655	0	0	0
1235	48	N96	248.694	6.599	426.762	0	0	0
1236	48	N97	365.65	6.904	6.268	0	0	0
1237	48	N98	116.557	6.953	-202.41	0	0	0
1238	48	N99	-134.674	6.939	-241.743	0	0	0
1239	48	N100	-245.922	6.931	1.683	0	0	0
1240	48	N212	-222.288	210.596	-193.013	0	0	0
1241	48	N213	-303.066	201.134	506.451	0	0	0
1242	48	N214	689.861	192.678	119.361	0	0	0
1243	48	N215A	-229.953	1761.856	1029.773	0	0	0
1244	48	N216A	1204.296	2223.308	-347.017	0	0	0
1245	48	N217A	-967.973	2275.374	-818.72	0	0	0
1246	48	Totals:	192.305	4916.838	333.063			
1247	48	COG (ft):	X: 0.161	Y: -1.488	Z: 0.692			
1248	49	N18	22.976	-1136.039	0	0	0	0
1249	49	N30	-16.056	-1110.86	27.809	0	0	0
1250	49	N24	3.022	-1651.062	5.234	0	0	0
1251	49	N25	-7.051	-76.394	-12.212	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1252	49	N31	0.069	-94.485	-0.119	0	0	0
1253	49	N19A	17.174	-102.221	0	0	0	0
1254	49	N89	177.333	357.951	-297.707	0	0	0
1255	49	N90	-136.702	286.058	-234.52	0	0	0
1256	49	N91	-358.696	383.679	-5.884	0	0	0
1257	49	N92	-115.772	249.491	202.444	0	0	0
1258	49	N93	156.897	343.28	281.197	0	0	0
1259	49	N94	304.783	327.092	-1.259	0	0	0
1260	49	N95	-175.039	6.879	293.013	0	0	0
1261	49	N96	131.583	6.925	225.579	0	0	0
1262	49	N97	352.628	6.917	5.263	0	0	0
1263	49	N98	110.236	6.961	-192.9	0	0	0
1264	49	N99	-153.417	6.905	-275.145	0	0	0
1265	49	N100	-287.381	6.891	1.264	0	0	0
1266	49	N212	-15.119	115.792	-263.385	0	0	0
1267	49	N213	-875.915	84.235	517.135	0	0	0
1268	49	N214	176.14	108.034	104.873	0	0	0
1269	49	N215A	-23.686	1861.105	933.052	0	0	0
1270	49	N216A	1453.623	2731.981	-847.321	0	0	0
1271	49	N217A	-741.632	1822.722	-466.41	0	0	0
1272	49	Totals:	0.002	4541.838	0.001			
1273	49	COG (ft):	X: -0.733	Y: -1.294	Z: 0.423			
1274	50	N18	19.153	-1127.908	0	0	0	0
1275	50	N30	-15.808	-1267.502	27.381	0	0	0
1276	50	N24	-12.314	-1310.127	-21.329	0	0	0
1277	50	N25	-2.361	-87.496	-4.089	0	0	0
1278	50	N31	5.425	-79.029	-9.396	0	0	0
1279	50	N19A	-8.07	-93.942	0	0	0	0
1280	50	N89	203.711	413.78	-341.922	0	0	0
1281	50	N90	-185.161	397.298	-317.769	0	0	0
1282	50	N91	-366.838	397.516	-5.985	0	0	0
1283	50	N92	-117.182	249.955	204.931	0	0	0
1284	50	N93	152.751	332.553	273.746	0	0	0
1285	50	N94	274.919	293.865	-1.14	0	0	0
1286	50	N95	-197.027	6.813	329.826	0	0	0
1287	50	N96	182.95	6.8	313.627	0	0	0
1288	50	N97	366.16	6.904	5.452	0	0	0
1289	50	N98	109.963	6.961	-192.439	0	0	0
1290	50	N99	-149.388	6.916	-267.891	0	0	0
1291	50	N100	-257.278	6.924	1.144	0	0	0
1292	50	N212	11.192	107.399	-311.403	0	0	0
1293	50	N213	-554.306	99.018	322.183	0	0	0
1294	50	N214	302.469	90.648	191.137	0	0	0
1295	50	N215A	-19.759	1844.432	938.509	0	0	0
1296	50	N216A	1104.069	2151.35	-607.538	0	0	0
1297	50	N217A	-847.268	2088.71	-527.034	0	0	0
1298	50	Totals:	0.001	4541.838	0.001			
1299	50	COG (ft):	X: -0.169	Y: -1.294	Z: 0.423			
1300	51	N18	18.101	-1320.502	0	0	0	0
1301	51	N30	-10.416	-1289.889	18.041	0	0	0
1302	51	N24	-7.904	-1474.415	-13.691	0	0	0
1303	51	N25	-5.657	-107.619	-9.798	0	0	0
1304	51	N31	-1.101	-114.471	1.907	0	0	0
1305	51	N19A	5.278	-116.15	0	0	0	0
1306	51	N89	182.905	368.991	-307.141	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1307	51	N90	-152.788	316.137	-262.119	0	0	0
1308	51	N91	-424.492	453.512	-6.945	0	0	0
1309	51	N92	-137.819	296.272	241.006	0	0	0
1310	51	N93	177.396	384.433	317.92	0	0	0
1311	51	N94	313.693	341.04	-1.293	0	0	0
1312	51	N95	-180.614	8.048	302.338	0	0	0
1313	51	N96	147.235	8.07	252.417	0	0	0
1314	51	N97	418.751	8.027	6.246	0	0	0
1315	51	N98	131.322	8.095	-229.805	0	0	0
1316	51	N99	-173.44	8.036	-311.032	0	0	0
1317	51	N100	-300.845	8.052	1.334	0	0	0
1318	51	N212	-2.291	131.97	-444.504	0	0	0
1319	51	N213	-554.876	121.664	329.888	0	0	0
1320	51	N214	331.195	130.506	192.006	0	0	0
1321	51	N215A	-18.596	2158.82	1128.651	0	0	0
1322	51	N216A	1161.262	2422.727	-651.813	0	0	0
1323	51	N217A	-916.299	2109.959	-553.614	0	0	0
1324	51	Totals:	0.002	4861.311	0			
1325	51	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1326	52	N18	68.653	-1156.451	0.042	0	0	0
1327	52	N30	-20.449	-1123.397	35.46	0	0	0
1328	52	N24	-39.27	-1279.582	-67.975	0	0	0
1329	52	N25	-35.272	-117.605	-61.051	0	0	0
1330	52	N31	-16.475	-122.02	28.578	0	0	0
1331	52	N19A	50.788	-122.543	0.042	0	0	0
1332	52	N89	146.057	328.226	-244.026	0	0	0
1333	52	N90	-123.684	280.878	-210.965	0	0	0
1334	52	N91	-394.154	400.513	-5.177	0	0	0
1335	52	N92	-126.652	262.798	222.71	0	0	0
1336	52	N93	167.497	342.169	301.531	0	0	0
1337	52	N94	284.951	300.131	0.121	0	0	0
1338	52	N95	-166.441	7.151	279.169	0	0	0
1339	52	N96	138.811	7.163	238.627	0	0	0
1340	52	N97	361.456	7.148	6.029	0	0	0
1341	52	N98	114.373	7.194	-199.503	0	0	0
1342	52	N99	-150.196	7.153	-268.792	0	0	0
1343	52	N100	-258.414	7.162	1.73	0	0	0
1344	52	N212	-49.893	137.043	-353.825	0	0	0
1345	52	N213	-478.739	130.72	358.886	0	0	0
1346	52	N214	324.846	136.801	152.634	0	0	0
1347	52	N215A	-71.443	1904.184	1112.785	0	0	0
1348	52	N216A	1020.446	2115.662	-492.589	0	0	0
1349	52	N217A	-746.794	1849.306	-477.017	0	0	0
1350	52	Totals:	0.005	4309.805	357.423			
1351	52	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1352	53	N18	62.524	-1161.301	0.036	0	0	0
1353	53	N30	-10.709	-1134.936	18.549	0	0	0
1354	53	N24	-24.885	-1287.551	-43.029	0	0	0
1355	53	N25	-23.458	-109.634	-40.558	0	0	0
1356	53	N31	-6.269	-113.2	10.859	0	0	0
1357	53	N19A	41.913	-115.17	0.036	0	0	0
1358	53	N89	146.493	326.755	-246.017	0	0	0
1359	53	N90	-126.203	281.313	-214.349	0	0	0
1360	53	N91	-407.633	401.15	-5.527	0	0	0
1361	53	N92	-131.422	262.022	229.788	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1362	53	N93	158.305	342.759	285.997	0	0	0
1363	53	N94	275.133	300.819	-0.02	0	0	0
1364	53	N95	-165.519	7.153	277.056	0	0	0
1365	53	N96	137.75	7.164	237.226	0	0	0
1366	53	N97	357.496	7.15	5.881	0	0	0
1367	53	N98	110.555	7.197	-193.447	0	0	0
1368	53	N99	-154.265	7.148	-275.606	0	0	0
1369	53	N100	-265.464	7.158	1.686	0	0	0
1370	53	N212	-41.487	129.496	-359.786	0	0	0
1371	53	N213	-503.416	122.54	344.141	0	0	0
1372	53	N214	296.35	127.712	160.948	0	0	0
1373	53	N215A	-66.446	1907.32	1099.891	0	0	0
1374	53	N216A	966.817	2123.172	-497.447	0	0	0
1375	53	N217A	-804.864	1863.567	-486.78	0	0	0
1376	53	Totals:	-178.706	4309.805	309.528			
1377	53	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1378	54	N18	43.943	-1168.76	0.021	0	0	0
1379	54	N30	-0.573	-1148.871	0.951	0	0	0
1380	54	N24	-5.715	-1300.864	-9.815	0	0	0
1381	54	N25	-6.703	-97.858	-11.527	0	0	0
1382	54	N31	5.356	-101.237	-9.318	0	0	0
1383	54	N19A	23.059	-104.527	0.021	0	0	0
1384	54	N89	151.113	325.348	-255.027	0	0	0
1385	54	N90	-131.194	281.449	-222.553	0	0	0
1386	54	N91	-412.701	401.994	-6.046	0	0	0
1387	54	N92	-133.71	261.399	232.535	0	0	0
1388	54	N93	148.82	342.787	269.327	0	0	0
1389	54	N94	266.095	301.893	-0.462	0	0	0
1390	54	N95	-163.138	7.157	272.505	0	0	0
1391	54	N96	134.747	7.166	232.212	0	0	0
1392	54	N97	357.197	7.15	5.642	0	0	0
1393	54	N98	108.304	7.199	-190.137	0	0	0
1394	54	N99	-158.186	7.144	-282.431	0	0	0
1395	54	N100	-272.831	7.154	1.508	0	0	0
1396	54	N212	-22.507	118.6	-374.958	0	0	0
1397	54	N213	-525.037	110.436	315.566	0	0	0
1398	54	N214	267.135	115.402	171.76	0	0	0
1399	54	N215A	-48.064	1912.364	1060.459	0	0	0
1400	54	N216A	930.06	2137.439	-523.879	0	0	0
1401	54	N217A	-864.99	1879.841	-497.645	0	0	0
1402	54	Totals:	-309.523	4309.805	178.711			
1403	54	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1404	55	N18	17.891	-1176.832	0	0	0	0
1405	55	N30	7.243	-1161.467	-12.618	0	0	0
1406	55	N24	13.107	-1315.956	22.776	0	0	0
1407	55	N25	10.504	-85.43	18.267	0	0	0
1408	55	N31	15.286	-89.338	-26.549	0	0	0
1409	55	N19A	-0.723	-93.466	0	0	0	0
1410	55	N89	158.677	324.381	-268.645	0	0	0
1411	55	N90	-137.321	281.249	-233.377	0	0	0
1412	55	N91	-408	402.821	-6.593	0	0	0
1413	55	N92	-132.904	261.096	230.215	0	0	0
1414	55	N93	141.584	342.246	255.988	0	0	0
1415	55	N94	260.258	303.063	-1.086	0	0	0
1416	55	N95	-159.938	7.161	266.734	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1417	55	N96	130.607	7.171	224.927	0	0	0
1418	55	N97	360.638	7.148	5.373	0	0	0
1419	55	N98	108.222	7.199	-190.459	0	0	0
1420	55	N99	-160.909	7.14	-287.439	0	0	0
1421	55	N100	-278.543	7.15	1.244	0	0	0
1422	55	N212	1.961	107.274	-395.277	0	0	0
1423	55	N213	-537.812	97.649	280.813	0	0	0
1424	55	N214	245.027	103.169	182.172	0	0	0
1425	55	N215A	-21.228	1917.965	1005.05	0	0	0
1426	55	N216A	920.02	2154.643	-564.812	0	0	0
1427	55	N217A	-911.068	1893.77	-506.704	0	0	0
1428	55	Totals:	-357.419	4309.805	0			
1429	55	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1430	56	N18	-8.648	-1183.351	-0.021	0	0	0
1431	56	N30	10.641	-1169.348	-18.514	0	0	0
1432	56	N24	26.537	-1328.78	46.005	0	0	0
1433	56	N25	23.551	-75.682	40.834	0	0	0
1434	56	N31	20.858	-80.693	-36.211	0	0	0
1435	56	N19A	-23.056	-84.954	-0.021	0	0	0
1436	56	N89	167.159	324.114	-283.219	0	0	0
1437	56	N90	-142.941	280.766	-243.922	0	0	0
1438	56	N91	-394.786	403.407	-7.025	0	0	0
1439	56	N92	-129.218	261.193	223.448	0	0	0
1440	56	N93	138.538	341.281	249.556	0	0	0
1441	56	N94	259.188	304.017	-1.727	0	0	0
1442	56	N95	-156.774	7.165	261.291	0	0	0
1443	56	N96	126.44	7.175	217.324	0	0	0
1444	56	N97	366.897	7.144	5.148	0	0	0
1445	56	N98	110.332	7.197	-194.329	0	0	0
1446	56	N99	-161.702	7.14	-289.287	0	0	0
1447	56	N100	-281.068	7.149	0.963	0	0	0
1448	56	N212	25.358	98.556	-415.297	0	0	0
1449	56	N213	-538.313	87.608	249.199	0	0	0
1450	56	N214	235.958	94.295	189.391	0	0	0
1451	56	N215A	6.868	1922.619	948.517	0	0	0
1452	56	N216A	939.391	2170.169	-609.28	0	0	0
1453	56	N217A	-930.735	1901.617	-511.533	0	0	0
1454	56	Totals:	-309.527	4309.805	-178.712			
1455	56	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1456	57	N18	-28.562	-1186.569	-0.036	0	0	0
1457	57	N30	8.71	-1170.403	-15.159	0	0	0
1458	57	N24	30.976	-1335.9	53.653	0	0	0
1459	57	N25	28.942	-71.226	50.129	0	0	0
1460	57	N31	20.579	-77.618	-35.716	0	0	0
1461	57	N19A	-37.956	-81.27	-0.036	0	0	0
1462	57	N89	174.286	324.619	-294.844	0	0	0
1463	57	N90	-146.548	280.131	-251.361	0	0	0
1464	57	N91	-376.606	403.596	-7.224	0	0	0
1465	57	N92	-123.643	261.665	214.049	0	0	0
1466	57	N93	140.497	340.15	251.752	0	0	0
1467	57	N94	263.17	304.498	-2.212	0	0	0
1468	57	N95	-154.495	7.167	257.634	0	0	0
1469	57	N96	123.362	7.179	211.44	0	0	0
1470	57	N97	374.297	7.14	5.026	0	0	0
1471	57	N98	114.068	7.194	-200.708	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1472	57	N99	-160.354	7.141	-287.482	0	0	0
1473	57	N100	-279.73	7.149	0.741	0	0	0
1474	57	N212	41.413	94.783	-429.651	0	0	0
1475	57	N213	-526.411	83.002	229.196	0	0	0
1476	57	N214	242.353	91.156	191.48	0	0	0
1477	57	N215A	28.696	1925.079	906.013	0	0	0
1478	57	N216A	982.969	2179.859	-645.364	0	0	0
1479	57	N217A	-918.726	1901.283	-510.846	0	0	0
1480	57	Totals:	-178.712	4309.805	-309.528			
1481	57	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1482	58	N18	-36.524	-1185.626	-0.042	0	0	0
1483	58	N30	1.969	-1164.352	-3.453	0	0	0
1484	58	N24	25.237	-1335.409	43.67	0	0	0
1485	58	N25	25.235	-73.255	43.666	0	0	0
1486	58	N31	14.525	-80.935	-25.2	0	0	0
1487	58	N19A	-41.434	-83.4	-0.042	0	0	0
1488	58	N89	178.151	325.76	-300.407	0	0	0
1489	58	N90	-147.175	279.512	-253.705	0	0	0
1490	58	N91	-358.327	403.338	-7.138	0	0	0
1491	58	N92	-117.67	262.385	204.535	0	0	0
1492	58	N93	146.938	339.157	261.986	0	0	0
1493	58	N94	271.136	304.379	-2.412	0	0	0
1494	58	N95	-153.712	7.167	256.743	0	0	0
1495	58	N96	122.198	7.18	208.851	0	0	0
1496	58	N97	380.854	7.136	5.041	0	0	0
1497	58	N98	118.428	7.189	-207.887	0	0	0
1498	58	N99	-157.226	7.145	-282.506	0	0	0
1499	58	N100	-274.887	7.152	0.637	0	0	0
1500	58	N212	45.831	96.961	-434.497	0	0	0
1501	58	N213	-505.294	85.066	226.158	0	0	0
1502	58	N214	262.499	94.591	187.883	0	0	0
1503	58	N215A	38.42	1924.687	888.918	0	0	0
1504	58	N216A	1039.085	2181.116	-663.397	0	0	0
1505	58	N217A	-878.261	1892.859	-504.825	0	0	0
1506	58	Totals:	-0.002	4309.805	-357.422			
1507	58	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1508	59	N18	-30.398	-1180.775	-0.036	0	0	0
1509	59	N30	-7.774	-1152.816	13.465	0	0	0
1510	59	N24	10.854	-1327.438	18.727	0	0	0
1511	59	N25	13.421	-81.227	23.173	0	0	0
1512	59	N31	4.319	-89.756	-7.481	0	0	0
1513	59	N19A	-32.558	-90.773	-0.036	0	0	0
1514	59	N89	177.716	327.232	-298.414	0	0	0
1515	59	N90	-144.654	279.077	-250.323	0	0	0
1516	59	N91	-344.848	402.701	-6.787	0	0	0
1517	59	N92	-112.9	263.16	197.457	0	0	0
1518	59	N93	156.133	338.568	277.518	0	0	0
1519	59	N94	280.952	303.69	-2.273	0	0	0
1520	59	N95	-154.633	7.165	258.857	0	0	0
1521	59	N96	123.261	7.179	210.251	0	0	0
1522	59	N97	384.813	7.134	5.189	0	0	0
1523	59	N98	122.246	7.186	-213.942	0	0	0
1524	59	N99	-153.156	7.15	-275.694	0	0	0
1525	59	N100	-267.838	7.156	0.679	0	0	0
1526	59	N212	37.426	104.508	-428.533	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1527	59	N213	-480.62	93.246	240.904	0	0	0
1528	59	N214	290.996	103.681	179.566	0	0	0
1529	59	N215A	33.434	1921.549	901.82	0	0	0
1530	59	N216A	1092.703	2173.604	-658.537	0	0	0
1531	59	N217A	-820.186	1878.603	-495.077	0	0	0
1532	59	Totals:	178.709	4309.805	-309.527			
1533	59	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1534	60	N18	-11.83	-1173.318	-0.021	0	0	0
1535	60	N30	-17.906	-1138.887	31.056	0	0	0
1536	60	N24	-8.316	-1314.127	-14.488	0	0	0
1537	60	N25	-3.33	-93.003	-5.852	0	0	0
1538	60	N31	-7.302	-101.713	12.689	0	0	0
1539	60	N19A	-13.71	-101.411	-0.021	0	0	0
1540	60	N89	173.1	328.639	-289.402	0	0	0
1541	60	N90	-139.662	278.941	-242.123	0	0	0
1542	60	N91	-339.782	401.856	-6.266	0	0	0
1543	60	N92	-110.611	263.783	194.712	0	0	0
1544	60	N93	165.616	338.54	294.184	0	0	0
1545	60	N94	289.988	302.617	-1.831	0	0	0
1546	60	N95	-157.012	7.162	263.409	0	0	0
1547	60	N96	126.264	7.177	215.263	0	0	0
1548	60	N97	385.112	7.134	5.43	0	0	0
1549	60	N98	124.497	7.184	-217.25	0	0	0
1550	60	N99	-149.236	7.155	-268.87	0	0	0
1551	60	N100	-260.471	7.16	0.856	0	0	0
1552	60	N212	18.455	115.4	-413.363	0	0	0
1553	60	N213	-459.002	105.35	269.477	0	0	0
1554	60	N214	320.203	115.986	168.759	0	0	0
1555	60	N215A	15.074	1916.507	941.248	0	0	0
1556	60	N216A	1129.459	2159.339	-632.094	0	0	0
1557	60	N217A	-760.073	1862.335	-484.21	0	0	0
1558	60	Totals:	309.526	4309.805	-178.71			
1559	60	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1560	61	N18	14.213	-1165.251	0	0	0	0
1561	61	N30	-25.715	-1126.293	44.612	0	0	0
1562	61	N24	-27.14	-1299.038	-47.081	0	0	0
1563	61	N25	-20.535	-105.43	-35.641	0	0	0
1564	61	N31	-17.229	-113.608	29.914	0	0	0
1565	61	N19A	10.066	-112.468	0	0	0	0
1566	61	N89	165.536	329.606	-275.786	0	0	0
1567	61	N90	-133.536	279.142	-231.299	0	0	0
1568	61	N91	-344.483	401.03	-5.716	0	0	0
1569	61	N92	-111.416	264.087	197.033	0	0	0
1570	61	N93	172.849	339.081	307.522	0	0	0
1571	61	N94	295.824	301.447	-1.205	0	0	0
1572	61	N95	-160.213	7.157	269.179	0	0	0
1573	61	N96	130.404	7.172	222.547	0	0	0
1574	61	N97	381.671	7.137	5.699	0	0	0
1575	61	N98	124.58	7.184	-216.927	0	0	0
1576	61	N99	-146.515	7.158	-263.862	0	0	0
1577	61	N100	-254.76	7.164	1.122	0	0	0
1578	61	N212	-6.006	126.721	-393.048	0	0	0
1579	61	N213	-446.227	118.136	304.226	0	0	0
1580	61	N214	342.304	128.214	158.355	0	0	0
1581	61	N215A	-11.751	1910.911	996.646	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1582	61	N216A	1139.511	2142.14	-591.153	0	0	0
1583	61	N217A	-714.011	1848.409	-475.134	0	0	0
1584	61	Totals:	357.422	4309.805	0.001			
1585	61	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1586	62	N18	40.755	-1158.734	0.021	0	0	0
1587	62	N30	-29.109	-1118.409	50.503	0	0	0
1588	62	N24	-40.571	-1286.216	-70.313	0	0	0
1589	62	N25	-33.582	-115.177	-58.208	0	0	0
1590	62	N31	-22.8	-122.253	39.575	0	0	0
1591	62	N19A	32.398	-120.98	0.021	0	0	0
1592	62	N89	157.053	329.872	-261.213	0	0	0
1593	62	N90	-127.918	279.624	-220.753	0	0	0
1594	62	N91	-357.695	400.444	-5.284	0	0	0
1595	62	N92	-115.101	263.99	203.8	0	0	0
1596	62	N93	175.893	340.045	313.957	0	0	0
1597	62	N94	296.896	300.493	-0.563	0	0	0
1598	62	N95	-163.377	7.154	274.621	0	0	0
1599	62	N96	134.57	7.168	230.151	0	0	0
1600	62	N97	375.413	7.14	5.924	0	0	0
1601	62	N98	122.47	7.186	-213.058	0	0	0
1602	62	N99	-145.722	7.159	-262.013	0	0	0
1603	62	N100	-252.234	7.165	1.404	0	0	0
1604	62	N212	-29.403	135.438	-373.031	0	0	0
1605	62	N213	-445.723	128.177	335.839	0	0	0
1606	62	N214	351.374	137.089	151.14	0	0	0
1607	62	N215A	-39.857	1906.259	1053.172	0	0	0
1608	62	N216A	1120.151	2126.615	-546.688	0	0	0
1609	62	N217A	-694.349	1840.558	-470.29	0	0	0
1610	62	Totals:	309.529	4309.805	178.712			
1611	62	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1612	63	N18	60.682	-1155.513	0.036	0	0	0
1613	63	N30	-27.182	-1117.349	47.154	0	0	0
1614	63	N24	-45.01	-1279.095	-77.96	0	0	0
1615	63	N25	-38.976	-119.633	-67.509	0	0	0
1616	63	N31	-22.525	-125.332	39.087	0	0	0
1617	63	N19A	47.303	-124.668	0.036	0	0	0
1618	63	N89	149.923	329.367	-249.589	0	0	0
1619	63	N90	-124.312	280.26	-213.31	0	0	0
1620	63	N91	-375.874	400.255	-5.087	0	0	0
1621	63	N92	-120.677	263.518	213.198	0	0	0
1622	63	N93	173.934	341.176	311.764	0	0	0
1623	63	N94	292.916	300.011	-0.078	0	0	0
1624	63	N95	-165.657	7.151	278.277	0	0	0
1625	63	N96	137.647	7.164	236.036	0	0	0
1626	63	N97	368.014	7.145	6.044	0	0	0
1627	63	N98	118.735	7.19	-206.681	0	0	0
1628	63	N99	-147.069	7.157	-263.817	0	0	0
1629	63	N100	-253.572	7.165	1.626	0	0	0
1630	63	N212	-45.467	139.217	-358.675	0	0	0
1631	63	N213	-457.622	132.783	355.845	0	0	0
1632	63	N214	344.985	140.232	149.046	0	0	0
1633	63	N215A	-61.707	1903.796	1095.679	0	0	0
1634	63	N216A	1076.573	2116.924	-510.615	0	0	0
1635	63	N217A	-706.346	1840.885	-470.98	0	0	0
1636	63	Totals:	178.715	4309.805	309.529			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1637	63	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1638	64	N18	63.738	-796.342	0.042	0	0	0
1639	64	N30	-17.623	-771.526	30.566	0	0	0
1640	64	N24	-37.132	-877.306	-64.272	0	0	0
1641	64	N25	-33.755	-88.28	-58.424	0	0	0
1642	64	N31	-16.192	-90.77	28.087	0	0	0
1643	64	N19A	49.384	-90.832	0.042	0	0	0
1644	64	N89	96.041	227.301	-160.052	0	0	0
1645	64	N90	-81.928	194.445	-139.318	0	0	0
1646	64	N91	-278.088	276.454	-3.268	0	0	0
1647	64	N92	-88.975	181.79	156.837	0	0	0
1648	64	N93	118.977	236.942	214.557	0	0	0
1649	64	N94	199.197	206.866	0.467	0	0	0
1650	64	N95	-117.047	4.988	196.501	0	0	0
1651	64	N96	98.575	4.985	169.635	0	0	0
1652	64	N97	246.955	4.99	4.312	0	0	0
1653	64	N98	78.472	5.002	-136.691	0	0	0
1654	64	N99	-102.755	4.992	-183.698	0	0	0
1655	64	N100	-176.174	4.987	1.372	0	0	0
1656	64	N212	-49.313	101.015	-232.594	0	0	0
1657	64	N213	-327.27	97.578	268.918	0	0	0
1658	64	N214	234.472	101.178	100.191	0	0	0
1659	64	N215A	-66.369	1315.409	804.927	0	0	0
1660	64	N216A	703.596	1454.588	-314.728	0	0	0
1661	64	N217A	-496.784	1273.705	-325.984	0	0	0
1662	64	Totals:	0.004	2982.162	357.423			
1663	64	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1664	65	N18	57.599	-801.174	0.036	0	0	0
1665	65	N30	-7.879	-783.114	13.646	0	0	0
1666	65	N24	-22.744	-885.263	-39.322	0	0	0
1667	65	N25	-21.931	-80.3	-37.913	0	0	0
1668	65	N31	-5.975	-81.935	10.35	0	0	0
1669	65	N19A	40.495	-83.454	0.036	0	0	0
1670	65	N89	96.48	225.828	-162.041	0	0	0
1671	65	N90	-84.443	194.876	-142.7	0	0	0
1672	65	N91	-291.561	277.08	-3.623	0	0	0
1673	65	N92	-93.749	181.016	163.917	0	0	0
1674	65	N93	109.787	237.548	199.033	0	0	0
1675	65	N94	189.378	207.554	0.329	0	0	0
1676	65	N95	-116.128	4.99	194.387	0	0	0
1677	65	N96	97.509	4.985	168.231	0	0	0
1678	65	N97	242.992	4.991	4.168	0	0	0
1679	65	N98	74.657	5.004	-130.635	0	0	0
1680	65	N99	-106.827	4.988	-190.522	0	0	0
1681	65	N100	-183.222	4.985	1.326	0	0	0
1682	65	N212	-40.891	93.464	-238.546	0	0	0
1683	65	N213	-351.946	89.39	254.142	0	0	0
1684	65	N214	205.983	92.073	108.54	0	0	0
1685	65	N215A	-61.37	1318.512	792.02	0	0	0
1686	65	N216A	649.957	1462.082	-319.573	0	0	0
1687	65	N217A	-554.877	1288.036	-335.757	0	0	0
1688	65	Totals:	-178.706	2982.162	309.528			
1689	65	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1690	66	N18	39.007	-808.607	0.021	0	0	0
1691	66	N30	2.263	-797.095	-3.962	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1692	66	N24	-3.57	-898.591	-6.1	0	0	0
1693	66	N25	-5.163	-68.508	-8.858	0	0	0
1694	66	N31	5.664	-69.956	-9.852	0	0	0
1695	66	N19A	21.62	-72.803	0.021	0	0	0
1696	66	N89	101.1	224.411	-171.045	0	0	0
1697	66	N90	-89.43	195.006	-150.903	0	0	0
1698	66	N91	-296.627	277.923	-4.146	0	0	0
1699	66	N92	-96.041	180.394	166.666	0	0	0
1700	66	N93	100.304	237.595	182.376	0	0	0
1701	66	N94	180.338	208.626	-0.109	0	0	0
1702	66	N95	-113.751	4.992	189.832	0	0	0
1703	66	N96	94.5	4.987	163.214	0	0	0
1704	66	N97	242.693	4.991	3.933	0	0	0
1705	66	N98	72.409	5.006	-127.324	0	0	0
1706	66	N99	-110.75	4.985	-197.361	0	0	0
1707	66	N100	-190.585	4.982	1.145	0	0	0
1708	66	N212	-21.884	82.561	-253.698	0	0	0
1709	66	N213	-373.582	77.27	225.532	0	0	0
1710	66	N214	176.77	79.745	119.391	0	0	0
1711	66	N215A	-42.989	1323.509	752.567	0	0	0
1712	66	N216A	613.203	1476.368	-345.999	0	0	0
1713	66	N217A	-615.023	1304.372	-346.629	0	0	0
1714	66	Totals:	-309.524	2982.162	178.711			
1715	66	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1716	67	N18	12.944	-816.649	0	0	0	0
1717	67	N30	10.086	-809.723	-17.543	0	0	0
1718	67	N24	15.257	-913.718	26.499	0	0	0
1719	67	N25	12.06	-56.06	20.961	0	0	0
1720	67	N31	15.607	-58.041	-27.105	0	0	0
1721	67	N19A	-2.186	-61.734	0	0	0	0
1722	67	N89	108.664	223.429	-184.653	0	0	0
1723	67	N90	-95.552	194.799	-161.727	0	0	0
1724	67	N91	-291.928	278.755	-4.699	0	0	0
1725	67	N92	-95.239	180.091	164.346	0	0	0
1726	67	N93	93.068	237.07	169.047	0	0	0
1727	67	N94	174.5	209.794	-0.729	0	0	0
1728	67	N95	-110.552	4.995	184.055	0	0	0
1729	67	N96	90.354	4.99	155.926	0	0	0
1730	67	N97	246.14	4.99	3.67	0	0	0
1731	67	N98	72.33	5.006	-127.645	0	0	0
1732	67	N99	-113.474	4.983	-202.381	0	0	0
1733	67	N100	-196.293	4.979	0.876	0	0	0
1734	67	N212	2.613	71.228	-273.993	0	0	0
1735	67	N213	-386.383	64.462	190.75	0	0	0
1736	67	N214	154.659	67.496	129.838	0	0	0
1737	67	N215A	-16.155	1329.06	697.132	0	0	0
1738	67	N216A	603.175	1493.622	-386.933	0	0	0
1739	67	N217A	-661.115	1318.338	-355.692	0	0	0
1740	67	Totals:	-357.42	2982.162	-0.001			
1741	67	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1742	68	N18	-13.602	-823.143	-0.021	0	0	0
1743	68	N30	13.489	-817.61	-23.448	0	0	0
1744	68	N24	28.691	-926.59	49.735	0	0	0
1745	68	N25	25.117	-46.295	43.547	0	0	0
1746	68	N31	21.188	-49.388	-36.782	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1747	68	N19A	-24.539	-53.215	-0.021	0	0	0
1748	68	N89	117.144	223.146	-199.218	0	0	0
1749	68	N90	-101.17	194.313	-172.273	0	0	0
1750	68	N91	-278.722	279.354	-5.134	0	0	0
1751	68	N92	-91.556	180.188	157.578	0	0	0
1752	68	N93	90.021	236.114	162.622	0	0	0
1753	68	N94	173.429	210.747	-1.366	0	0	0
1754	68	N95	-107.388	4.998	178.605	0	0	0
1755	68	N96	86.183	4.993	148.321	0	0	0
1756	68	N97	252.409	4.987	3.449	0	0	0
1757	68	N98	74.442	5.004	-131.512	0	0	0
1758	68	N99	-114.268	4.982	-204.238	0	0	0
1759	68	N100	-198.814	4.978	0.592	0	0	0
1760	68	N212	26.034	62.506	-293.989	0	0	0
1761	68	N213	-386.915	54.401	159.12	0	0	0
1762	68	N214	145.581	58.612	137.076	0	0	0
1763	68	N215A	11.937	1333.676	640.576	0	0	0
1764	68	N216A	622.566	1509.217	-431.409	0	0	0
1765	68	N217A	-680.784	1326.187	-360.52	0	0	0
1766	68	Totals:	-309.527	2982.162	-178.712			
1767	68	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1768	69	N18	-33.518	-826.349	-0.036	0	0	0
1769	69	N30	11.561	-818.647	-20.096	0	0	0
1770	69	N24	33.132	-933.756	57.386	0	0	0
1771	69	N25	30.513	-41.828	52.85	0	0	0
1772	69	N31	20.911	-46.312	-36.291	0	0	0
1773	69	N19A	-39.45	-49.529	-0.036	0	0	0
1774	69	N89	124.268	223.637	-210.836	0	0	0
1775	69	N90	-104.776	193.676	-179.714	0	0	0
1776	69	N91	-260.551	279.56	-5.335	0	0	0
1777	69	N92	-85.981	180.659	148.177	0	0	0
1778	69	N93	91.979	234.983	164.819	0	0	0
1779	69	N94	177.41	211.227	-1.851	0	0	0
1780	69	N95	-105.107	4.999	174.942	0	0	0
1781	69	N96	83.104	4.996	142.438	0	0	0
1782	69	N97	259.818	4.984	3.329	0	0	0
1783	69	N98	78.178	5.002	-137.889	0	0	0
1784	69	N99	-112.919	4.984	-202.434	0	0	0
1785	69	N100	-197.474	4.978	0.369	0	0	0
1786	69	N212	42.102	58.729	-308.327	0	0	0
1787	69	N213	-375.04	49.782	139.119	0	0	0
1788	69	N214	151.966	55.473	139.165	0	0	0
1789	69	N215A	33.761	1336.119	598.059	0	0	0
1790	69	N216A	666.166	1518.974	-467.506	0	0	0
1791	69	N217A	-668.766	1325.819	-359.827	0	0	0
1792	69	Totals:	-178.712	2982.162	-309.528			
1793	69	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1794	70	N18	-41.475	-825.408	-0.042	0	0	0
1795	70	N30	4.818	-812.556	-8.387	0	0	0
1796	70	N24	27.392	-933.299	47.402	0	0	0
1797	70	N25	26.802	-43.855	46.381	0	0	0
1798	70	N31	14.852	-49.638	-25.766	0	0	0
1799	70	N19A	-42.926	-51.66	-0.042	0	0	0
1800	70	N89	128.129	224.771	-216.395	0	0	0
1801	70	N90	-105.406	193.059	-182.059	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1802	70	N91	-242.281	279.316	-5.247	0	0	0
1803	70	N92	-80.006	181.378	138.66	0	0	0
1804	70	N93	98.418	233.98	175.048	0	0	0
1805	70	N94	185.377	211.108	-2.052	0	0	0
1806	70	N95	-104.32	4.999	174.048	0	0	0
1807	70	N96	81.943	4.997	139.851	0	0	0
1808	70	N97	266.384	4.981	3.342	0	0	0
1809	70	N98	82.537	4.999	-145.067	0	0	0
1810	70	N99	-109.789	4.986	-197.454	0	0	0
1811	70	N100	-192.632	4.98	0.265	0	0	0
1812	70	N212	46.518	60.909	-313.169	0	0	0
1813	70	N213	-353.939	51.842	136.099	0	0	0
1814	70	N214	172.101	58.918	135.548	0	0	0
1815	70	N215A	43.483	1335.737	580.964	0	0	0
1816	70	N216A	722.3	1520.28	-485.554	0	0	0
1817	70	N217A	-628.283	1317.336	-353.797	0	0	0
1818	70	Totals:	-0.003	2982.162	-357.422			
1819	70	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1820	71	N18	-35.34	-820.574	-0.036	0	0	0
1821	71	N30	-4.93	-800.971	8.538	0	0	0
1822	71	N24	13.006	-925.339	22.454	0	0	0
1823	71	N25	14.979	-51.835	25.871	0	0	0
1824	71	N31	4.635	-58.473	-8.028	0	0	0
1825	71	N19A	-34.036	-59.038	-0.036	0	0	0
1826	71	N89	127.692	226.244	-214.404	0	0	0
1827	71	N90	-102.889	192.628	-178.679	0	0	0
1828	71	N91	-228.81	278.689	-4.893	0	0	0
1829	71	N92	-75.232	182.152	131.58	0	0	0
1830	71	N93	107.611	233.375	190.57	0	0	0
1831	71	N94	195.195	210.42	-1.915	0	0	0
1832	71	N95	-105.237	4.998	176.162	0	0	0
1833	71	N96	83.011	4.996	141.254	0	0	0
1834	71	N97	270.346	4.98	3.487	0	0	0
1835	71	N98	86.351	4.996	-151.121	0	0	0
1836	71	N99	-105.717	4.99	-190.631	0	0	0
1837	71	N100	-185.585	4.983	0.31	0	0	0
1838	71	N212	38.097	68.461	-307.215	0	0	0
1839	71	N213	-329.265	60.03	150.877	0	0	0
1840	71	N214	200.59	68.024	127.196	0	0	0
1841	71	N215A	38.495	1332.631	593.878	0	0	0
1842	71	N216A	775.928	1512.784	-480.706	0	0	0
1843	71	N217A	-570.186	1303.009	-344.039	0	0	0
1844	71	Totals:	178.708	2982.162	-309.527			
1845	71	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1846	72	N18	-16.761	-813.144	-0.021	0	0	0
1847	72	N30	-15.068	-786.995	26.14	0	0	0
1848	72	N24	-6.169	-912.014	-10.769	0	0	0
1849	72	N25	-1.787	-63.627	-3.179	0	0	0
1850	72	N31	-7	-70.447	12.167	0	0	0
1851	72	N19A	-15.167	-69.683	-0.021	0	0	0
1852	72	N89	123.074	227.66	-205.399	0	0	0
1853	72	N90	-97.902	192.498	-170.48	0	0	0
1854	72	N91	-223.745	277.847	-4.368	0	0	0
1855	72	N92	-72.939	182.774	128.833	0	0	0
1856	72	N93	117.093	233.328	207.224	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1857	72	N94	204.232	209.348	-1.478	0	0	0
1858	72	N95	-107.614	4.995	180.718	0	0	0
1859	72	N96	86.02	4.994	146.271	0	0	0
1860	72	N97	270.644	4.98	3.722	0	0	0
1861	72	N98	88.599	4.995	-154.431	0	0	0
1862	72	N99	-101.794	4.993	-183.794	0	0	0
1863	72	N100	-178.222	4.986	0.491	0	0	0
1864	72	N212	19.1	79.359	-292.065	0	0	0
1865	72	N213	-307.633	72.15	179.484	0	0	0
1866	72	N214	229.796	80.348	116.35	0	0	0
1867	72	N215A	20.135	1327.637	633.328	0	0	0
1868	72	N216A	812.682	1498.499	-454.27	0	0	0
1869	72	N217A	-510.052	1286.679	-333.164	0	0	0
1870	72	Totals:	309.526	2982.162	-178.71			
1871	72	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1872	73	N18	9.293	-805.107	0	0	0	0
1873	73	N30	-22.883	-774.37	39.708	0	0	0
1874	73	N24	-24.997	-896.891	-43.37	0	0	0
1875	73	N25	-19.006	-76.073	-32.992	0	0	0
1876	73	N31	-16.94	-82.357	29.414	0	0	0
1877	73	N19A	8.633	-80.748	0	0	0	0
1878	73	N89	115.512	228.642	-191.792	0	0	0
1879	73	N90	-91.78	192.705	-159.656	0	0	0
1880	73	N91	-228.443	277.014	-3.812	0	0	0
1881	73	N92	-73.74	183.078	131.154	0	0	0
1882	73	N93	124.326	233.852	220.551	0	0	0
1883	73	N94	210.07	208.18	-0.856	0	0	0
1884	73	N95	-110.813	4.993	186.494	0	0	0
1885	73	N96	90.166	4.991	153.558	0	0	0
1886	73	N97	267.198	4.982	3.986	0	0	0
1887	73	N98	88.679	4.995	-154.11	0	0	0
1888	73	N99	-99.072	4.995	-178.774	0	0	0
1889	73	N100	-172.515	4.988	0.761	0	0	0
1890	73	N212	-5.391	90.687	-271.774	0	0	0
1891	73	N213	-294.831	84.957	214.262	0	0	0
1892	73	N214	251.9	92.592	105.912	0	0	0
1893	73	N215A	-6.687	1322.091	688.752	0	0	0
1894	73	N216A	822.721	1481.249	-413.328	0	0	0
1895	73	N217A	-463.977	1272.716	-324.085	0	0	0
1896	73	Totals:	357.422	2982.162	0.001			
1897	73	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1898	74	N18	35.843	-798.614	0.021	0	0	0
1899	74	N30	-26.283	-766.48	45.607	0	0	0
1900	74	N24	-38.432	-884.021	-66.608	0	0	0
1901	74	N25	-32.064	-85.839	-55.579	0	0	0
1902	74	N31	-22.52	-91.011	39.09	0	0	0
1903	74	N19A	30.985	-89.267	0.021	0	0	0
1904	74	N89	107.03	228.925	-177.229	0	0	0
1905	74	N90	-86.164	193.191	-149.109	0	0	0
1906	74	N91	-241.647	276.416	-3.377	0	0	0
1907	74	N92	-77.422	182.981	137.922	0	0	0
1908	74	N93	127.37	234.808	226.978	0	0	0
1909	74	N94	211.142	207.227	-0.217	0	0	0
1910	74	N95	-113.977	4.99	191.943	0	0	0
1911	74	N96	94.336	4.988	161.163	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1912	74	N97	260.931	4.984	4.207	0	0	0
1913	74	N98	86.568	4.996	-150.243	0	0	0
1914	74	N99	-98.279	4.996	-176.916	0	0	0
1915	74	N100	-169.993	4.99	1.046	0	0	0
1916	74	N212	-28.813	99.41	-251.78	0	0	0
1917	74	N213	-294.297	95.017	245.89	0	0	0
1918	74	N214	260.978	101.475	98.677	0	0	0
1919	74	N215A	-34.79	1317.477	745.3	0	0	0
1920	74	N216A	803.341	1465.657	-368.854	0	0	0
1921	74	N217A	-444.312	1264.863	-319.242	0	0	0
1922	74	Totals:	309.529	2982.162	178.712			
1923	74	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			
1924	75	N18	55.772	-795.406	0.036	0	0	0
1925	75	N30	-24.358	-765.438	42.262	0	0	0
1926	75	N24	-42.873	-876.853	-74.258	0	0	0
1927	75	N25	-37.463	-90.306	-64.887	0	0	0
1928	75	N31	-22.247	-94.09	38.605	0	0	0
1929	75	N19A	45.9	-92.958	0.036	0	0	0
1930	75	N89	99.903	228.434	-165.612	0	0	0
1931	75	N90	-82.558	193.828	-141.665	0	0	0
1932	75	N91	-259.817	276.21	-3.178	0	0	0
1933	75	N92	-82.998	182.51	147.322	0	0	0
1934	75	N93	125.413	235.939	224.785	0	0	0
1935	75	N94	207.163	206.747	0.267	0	0	0
1936	75	N95	-116.259	4.988	195.606	0	0	0
1937	75	N96	97.414	4.986	167.047	0	0	0
1938	75	N97	253.522	4.987	4.326	0	0	0
1939	75	N98	82.832	4.999	-143.868	0	0	0
1940	75	N99	-99.627	4.995	-178.718	0	0	0
1941	75	N100	-171.332	4.989	1.27	0	0	0
1942	75	N212	-44.89	103.191	-237.44	0	0	0
1943	75	N213	-306.169	99.636	265.895	0	0	0
1944	75	N214	254.6	104.619	96.583	0	0	0
1945	75	N215A	-56.636	1315.031	787.821	0	0	0
1946	75	N216A	759.741	1455.898	-332.768	0	0	0
1947	75	N217A	-456.318	1265.224	-319.937	0	0	0
1948	75	Totals:	178.714	2982.162	309.529			
1949	75	COG (ft):	X: -0.184	Y: -1.066	Z: 0.107			

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

	Member	Shape	Code Check	Loc [ft]	LC Shear	Check Loc [ft]	Dir LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn		
0	M1	L3X3X4	0.494	2.99	7	0.206	0.712	y	19	4139.296	46656	1.688	2.672	1.5	H2-1
1	FACE	L3X3X4	0.476	2.99	32	0.284	4.413	z	13	4139.296	46656	1.688	2.672	1.5	H2-1
2	M3	L2X2X4	0.076	2.036	20	0.006	3.833	y	1	14537.716	30585.6	0.691	1.482	1.136	H2-1
3	M4	L2X2X4	0.05	1.917	7	0.004	3.833	z	7	14537.716	30585.6	0.691	1.482	1.136	H2-1
4	M5	L2X2X4	0.058	2.473	1	0.009	4.946	y	7	9068.043	30585.6	0.691	1.409	1.136	H2-1
5	M6	L2X2X4	0.063	2.638	1	0.033	5.276	y	14	7968.544	30585.6	0.691	1.389	1.136	H2-1
6	M7	L2X2X4	0.07	2.421	48	0.026	4.946	z	20	9068.043	30585.6	0.691	1.409	1.136	H2-1
7	M8	L3X3X4	0.423	2.847	3	0.347	0.712	y	21	4139.296	46656	1.688	2.672	1.5	H2-1
8	M9	L3X3X4	0.346	2.99	16	0.331	0.712	z	21	4139.296	46656	1.688	2.672	1.5	H2-1
9	M10	L3X3X4	0.46	2.847	11	0.363	0.712	y	17	4139.296	46656	1.688	2.672	1.5	H2-1
10	M11	L3X3X4	0.351	2.99	24	0.344	0.712	z	17	4139.296	46656	1.688	2.672	1.5	H2-1
11	M12	L3X3X4	0.395	0.195	12	0.234	0	y	12	19638.824	46656	1.688	3.363	1.5	H2-1
12	M13	L3X3X4	0.358	0.195	6	0.238	0	z	6	19638.824	46656	1.688	3.363	1.5	H2-1
13	M16	L3X3X4	0.458	0.195	12	0.299	0.13	y	12	19638.824	46656	1.688	3.363	1.5	H2-1

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

	Member	Shape	Code	CheckLoc[ft]	LC	Shear	CheckLoc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
14	M17	L3X3X4	0.398	0.195	6	0.281	0.13	z	12	19638.824	46656	1.688	3.363	1.5	H2-1
15	M20	L3X3X4	0.368	0.456	12	0.232	0	y	12	19638.824	46656	1.688	3.363	1.5	H2-1
16	M21	L3X3X4	0.349	0.195	12	0.24	0	z	6	19638.824	46656	1.688	3.363	1.5	H2-1
17	M24	PL1/2X6	0.078	0.577	16	0.028	0.289	y	8	86180.21	97200	1.012	12.15	1.187	H1-1b
18	M25	PL1/2X6	0.271	0.289	24	0.038	0.289	y	14	86180.21	97200	1.012	12.15	1.298	H1-1b
19	M26	PL1/2X6	0.056	0	14	0.024	0.289	y	3	86180.212	97200	1.012	12.15	1.19	H1-1b
20	M27	PL1/2X6	0.233	0.289	19	0.049	0.289	y	20	86180.212	97200	1.012	12.15	1.299	H1-1b
21	M28	PL1/2X6	0.074	0.577	18	0.033	0.289	y	12	86180.191	97200	1.012	12.15	1.322	H1-1b
22	M29	PL1/2X6	0.256	0.289	16	0.042	0.289	y	18	86180.224	97200	1.012	12.15	1.282	H1-1b
23	M30	L2X2X4	0.173	3.49	17	0.005	6.98	y	4	4552.44	30585.6	0.691	1.294	1.136	H2-1
24	M31	L2X2X4	0.186	3.49	13	0.006	6.98	y	12	4552.44	30585.6	0.691	1.294	1.136	H2-1
25	M32	L2X2X4	0.172	3.49	21	0.004	6.98	y	8	4552.44	30585.6	0.691	1.294	1.136	H2-1
26	EMPTYA	PIPE 2.0	0.106	4.479	36	0.016	4.479		36	23808.54	32130	1.872	1.872	1	H1-1b
27	RADIOA	PIPE 2.0	0.091	0.677	13	0.025	4.479		1	23808.54	32130	1.872	1.872	1	H1-1b
28	MP3A	PIPE 2.0	0.043	4.479	50	0.021	0.677		6	23808.54	32130	1.872	1.872	1	H1-1b
29	1A	PIPE 2.0	0.065	3.75	12	0.125	0.677		4	23808.54	32130	1.872	1.872	1	H1-1b
30	MP5A	PIPE 2.0	0.297	2.155	7	0.065	2.155		6	20616.322	32130	1.872	1.872	1	H1-1b
31	MP4A	PIPE 2.0	0.04	3.042	2	0.016	2.218		6	20616.322	32130	1.872	1.872	1	H1-1b
32	MP2A	PIPE 2.0	0.05	2.218	7	0.022	2.155		8	20616.322	32130	1.872	1.872	1	H1-1b
33	M54	L2X2X4	0.415	0.394	21	0.07	0	y	23	16811.759	30585.6	0.691	1.571	1.468	H2-1
34	M55	L2X2X4	0.068	1.827	23	0.002	3.438	z	20	16811.759	30585.6	0.691	1.507	1.125	H2-1
35	M56	L2X2X4	0.06	1.851	13	0.002	3.417	y	17	16935.796	30585.6	0.691	1.509	1.126	H2-1
36	M57	L2X2X4	0.351	0.427	13	0.059	0	z	15	16935.796	30585.6	0.691	1.571	1.458	H2-1
37	M58	L2X2X4	0.069	2.441	11	0.027	4.881	z	14	9309.422	30585.6	0.691	1.413	1.136	H2-1
38	M59	L2X2X4	0.066	2.434	3	0.006	4.868	y	24	9359.538	30585.6	0.691	1.414	1.136	H2-1
39	M60	L2X2X4	0.508	0.394	17	0.101	3.438	y	22	16811.753	30585.6	0.691	1.576	1.5	H2-1
40	M61	L2X2X4	0.075	1.827	19	0.002	3.438	z	24	16811.753	30585.6	0.691	1.507	1.125	H2-1
41	M62	L2X2X4	0.056	1.815	23	0.002	3.417	y	19	16935.792	30585.6	0.691	1.509	1.125	H2-1
42	M63	L2X2X4	0.332	0.427	21	0.056	0	z	22	16935.792	30585.6	0.691	1.57	1.455	H2-1
43	M64	L2X2X4	0.239	0	14	0.036	4.881	z	21	9309.42	30585.6	0.691	1.462	1.348	H2-1
44	M65	L2X2X4	0.065	2.434	11	0.006	4.868	y	20	9359.536	30585.6	0.691	1.414	1.136	H2-1
45	M66	L2X2X4	0.434	0.43	17	0.073	0	y	15	16811.754	30585.6	0.691	1.571	1.469	H2-1
46	M67	L2X2X4	0.068	1.827	17	0.002	3.438	z	16	16811.754	30585.6	0.691	1.508	1.126	H2-1
47	M68	L2X2X4	0.06	1.851	17	0.002	3.417	y	18	16935.792	30585.6	0.691	1.509	1.126	H2-1
48	M69	L2X2X4	0.383	0.427	17	0.065	0	z	18	16935.792	30585.6	0.691	1.572	1.463	H2-1
49	M70	L2X2X4	0.069	2.441	3	0.007	4.881	z	18	9309.421	30585.6	0.691	1.413	1.136	H2-1
50	M71	L2X2X4	0.068	2.434	7	0.007	4.868	y	16	9359.537	30585.6	0.691	1.414	1.136	H2-1
51	M72	PIPE 3.5	0.029	0.438	16	0.01	4.229		3	72060.228	78750	7.954	7.954	1	H1-1b
52	M73	PIPE 3.5	0.031	0.438	13	0.009	0.438		10	72060.228	78750	7.954	7.954	1	H1-1b
53	M74	PIPE 3.5	0.035	0.972	21	0.045	0.438		6	72060.228	78750	7.954	7.954	1	H1-1b
54	MP5C	PIPE 2.0	0.292	2.155	4	0.067	2.155		5	20616.322	32130	1.872	1.872	1	H1-1b
55	MP4C	PIPE 2.0	0.038	3.042	10	0.016	2.218		2	20616.322	32130	1.872	1.872	1	H1-1b
56	MP2C	PIPE 2.0	0.049	2.218	4	0.022	2.155		5	20616.322	32130	1.872	1.872	1	H1-1b
57	MP5B	PIPE 2.0	0.297	2.155	12	0.065	2.155		11	20616.322	32130	1.872	1.872	1	H1-1b
58	MP4B	PIPE 2.0	0.039	3.042	6	0.017	2.218		10	20616.322	32130	1.872	1.872	1	H1-1b
59	MP2B	PIPE 2.0	0.05	2.218	12	0.022	2.155		1	20616.322	32130	1.872	1.872	1	H1-1b
60	M93	L2X2X4	0.051	1.917	12	0.005	3.833	y	9	14537.716	30585.6	0.691	1.482	1.136	H2-1
61	M94	L2X2X4	0.048	1.917	3	0.003	3.833	z	3	14537.716	30585.6	0.691	1.482	1.136	H2-1
62	EMPTYC	PIPE 2.0	0.088	0.677	21	0.013	4.479		7	23808.54	32130	1.872	1.872	1	H1-1b
63	RADIOC	PIPE 2.0	0.032	0.677	21	0.023	4.479		9	23808.54	32130	1.872	1.872	1	H1-1b
64	MP3C	PIPE 2.0	0.039	0.677	4	0.021	0.677		3	23808.54	32130	1.872	1.872	1	H1-1b
65	M116	L2X2X4	0.055	1.917	12	0.005	3.833	y	5	14537.716	30585.6	0.691	1.482	1.136	H2-1
66	M117	L2X2X4	0.048	1.917	11	0.004	3.833	z	11	14537.716	30585.6	0.691	1.482	1.136	H2-1
67	EMPTYB	PIPE 2.0	0.097	0.677	14	0.013	4.479		2	23808.54	32130	1.872	1.872	1	H1-1b
68	RADIOB	PIPE 2.0	0.03	0.677	17	0.021	4.479		6	23808.54	32130	1.872	1.872	1	H1-1b

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

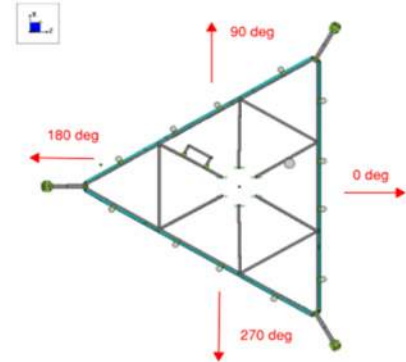
	Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
69	MP3B	PIPE 2.0	0.039	4.479	6	0.022	0.677		11	23808.54	32130	1.872	1.872	1	H1-1b		
70	1C	PIPE 2.0	0.058	3.75	9	0.12	0.677		12	23808.54	32130	1.872	1.872	1	H1-1b		
71	1B	PIPE 2.0	0.065	1.25	5	0.099	0.677		9	23808.54	32130	1.872	1.872	1	H1-1b		
72	M121B	L2X2X4	0.056	2.473	9	0.067	4.946	z	21	9068.043	30585.6	0.691	1.409	1.136	H2-1		
73	M122B	L2X2X4	0.063	2.638	9	0.021	5.276	y	22	7968.543	30585.6	0.691	1.389	1.136	H2-1		
74	M123	L2X2X4	0.068	2.473	9	0.05	4.946	z	18	9068.043	30585.6	0.691	1.409	1.136	H2-1		
75	M124A	L2X2X4	0.056	2.473	11	0.07	4.946	z	17	9068.044	30585.6	0.691	1.409	1.136	H2-1		
76	M125B	L2X2X4	0.066	2.638	5	0.023	5.276	y	18	7968.545	30585.6	0.691	1.389	1.136	H2-1		
77	M126A	L2X2X4	0.072	2.473	5	0.053	4.946	z	15	9068.044	30585.6	0.691	1.409	1.136	H2-1		
78	DONOR	PIPE 2.0	0.202	4.583	2	0.028	4.583		3	14916.096	32130	1.872	1.872	1	H1-1b		
79	M128	SR 0.625	0.563	0	6	0.142	0		18	8215.763	9940.196	0.104	0.104	1	H1-1b		
80	M131	SR 0.625	0.568	0	6	0.14	0		24	8215.763	9940.196	0.104	0.104	1	H1-1b		
81	M140	SR 0.625	0.442	0	18	0.133	0		14	8215.763	9940.196	0.104	0.104	1	H1-1b		
82	M141	SR 0.625	0.442	0	18	0.134	0		16	8215.763	9940.196	0.104	0.104	1	H1-1b		
83	M152	SR 0.625	0.546	0	4	0.128	0		16	8215.763	9940.196	0.104	0.104	1	H1-1b		
84	M153	SR 0.625	0.549	0	4	0.126	0		16	8215.763	9940.196	0.104	0.104	1	H1-1b		
85	M160	SR 0.625	0.414	0	16	0.124	0		14	8215.763	9940.196	0.104	0.104	1	H1-1b		
86	M161	SR 0.625	0.413	0	15	0.124	0		14	8215.763	9940.196	0.104	0.104	1	H1-1b		
87	MP1A	PIPE 2.0	0.185	4.583	4	0.044	4.583		4	14916.096	32130	1.872	1.872	1	H1-1b		
88	MP1C	PIPE 2.0	0.185	4.583	1	0.044	4.583		1	14916.096	32130	1.872	1.872	1	H1-1b		
89	M175	SR 0.625	0.409	0	22	0.123	0		19	8215.763	9940.196	0.104	0.104	1	H1-1b		
90	M180	SR 0.625	0.497	0	12	0.129	0		24	8215.763	9940.196	0.104	0.104	1	H1-1b		
91	M181	SR 0.625	0.499	0	12	0.127	0		13	8215.763	9940.196	0.104	0.104	1	H1-1b		
92	M186	SR 0.625	0.408	0	22	0.123	0		19	8215.763	9940.196	0.104	0.104	1	H1-1b		
93	MP1B	PIPE 2.0	0.185	4.583	10	0.039	4.583		9	14916.096	32130	1.872	1.872	1	H1-1b		
94	M196	SR 0.625	0.41	0	18	0.123	0		18	8215.763	9940.196	0.104	0.104	1	H1-1b		
95	M201	SR 0.625	0.435	0	9	0.127	0		21	8215.763	9940.196	0.104	0.104	1	H1-1b		
96	M202	SR 0.625	0.431	0	9	0.126	0		24	8215.763	9940.196	0.104	0.104	1	H1-1b		
97	M207	SR 0.625	0.409	0	18	0.124	0		18	8215.763	9940.196	0.104	0.104	1	H1-1b		

I. Mount-to-Tower Connection Check - Double Bolt

Custom Orientation Required

Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N24	300
N216A	300
N18	180
N215A	180
N30	60
N217A	60
N25	300
N213	300
N19A	180
N212	180
N31	60
N214	60



Tower Connection Bolt Checks

Yes

Bolt Orientation

Vertical (top)

Bolt Quantity per Reaction:

1

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

1.5

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

1.5

Bolt Type:

A325N

Bolt Diameter (in):

0.75

Required Tensile Strength / bolt (kips):

4.1

Required Shear Strength / bolt (kips):

4.7

Tensile Capacity / bolt (kips):

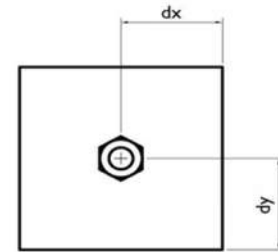
29.8

Shear Capacity / bolt (kips):

17.9

Bolt Overall Utilization:

26.9%



NO MOMENT RESISTANCE

Tower Connection Baseplate Checks

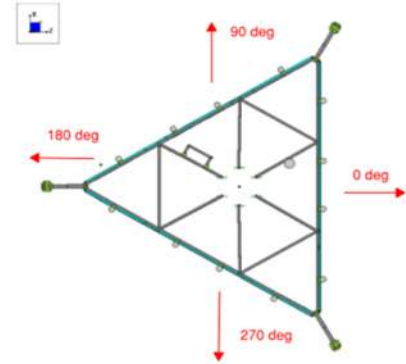
No

I. Mount-to-Tower Connection Check - Single Bolt

Custom Orientation Required

Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N95	340
N89	340
N94	280
N100	280
N99	220
N93	220
N92	140
N98	140
N97	85
N91	85
N90	20
N96	20



Tower Connection Bolt Checks

Yes

Bolt Orientation

Vertical (top)

Bolt Quantity per Reaction:

1

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

1.5

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

1.5

Bolt Type:

A325N

Bolt Diameter (in):

0.375

Required Tensile Strength / bolt (kips):

4.0

Required Shear Strength / bolt (kips):

3.8

Tensile Capacity / bolt (kips):

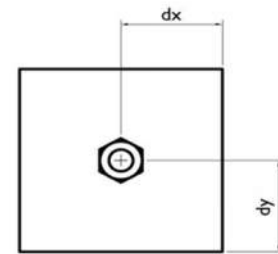
7.5

Shear Capacity / bolt (kips):

4.5

Bolt Overall Utilization:

85.0%



NO MOMENT RESISTANCE

Tower Connection Baseplate Checks

No



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Non-Ionizing Radiation (NIER) Study

Site Number:

302476

Site Name:

Wtbr - Waterbury

Location:

Waterbury, Connecticut

Tenants:

AT&T Mobility, Verizon Wireless

Prepared For:

**American Tower, Inc.
Woburn, Massachusetts**

September 5th, 2024

93979 P-440795

Prepared By:

Gautam J. Sopal, EIT.

Tower Engineering Professionals

Approved By:



Handwritten signature in blue ink
09/06/24



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Non-Ionizing Electromagnetic Radiation (NIER) Study

302476 Wtbr - Waterbury
Waterbury, 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 302476 Wtbr - Waterbury is located at 352 Garden Circle in Waterbury, Connecticut at coordinates 41.570667, -73.017600. The support structure is 155' monopole. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are AT&T Mobility (AT&T) & 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. Descriptions of RF signage can be found in Appendix 4, Barrier & Sign Types. A discussion regarding the FCC limits may be found in Appendix 5, Information Pertaining to MPE Studies. Prediction Models used in this study may be found in Appendix 6, 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 Load List at 302476 Wtbr - Waterbury. RF NIER Study 09/04/2024.
- 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 following points:

Site Entrance

1. Site ID Sign (tower owner defined)
2. RF Information Sign (Green)

Tower Access Point

1. RF Exposure Sign (Red)

Alpha Sector

No additional mitigation is required.

Beta Sector

No additional mitigation is required.

Gamma Sector

No additional mitigation is required

COMPLIANCE DETERMINATION

With the above mitigation implemented, this installation WILL BE in compliance with current FCC MPE limits as described in FCC OET-65.

Appendix 1 Site Photos



Aerial View of the Site

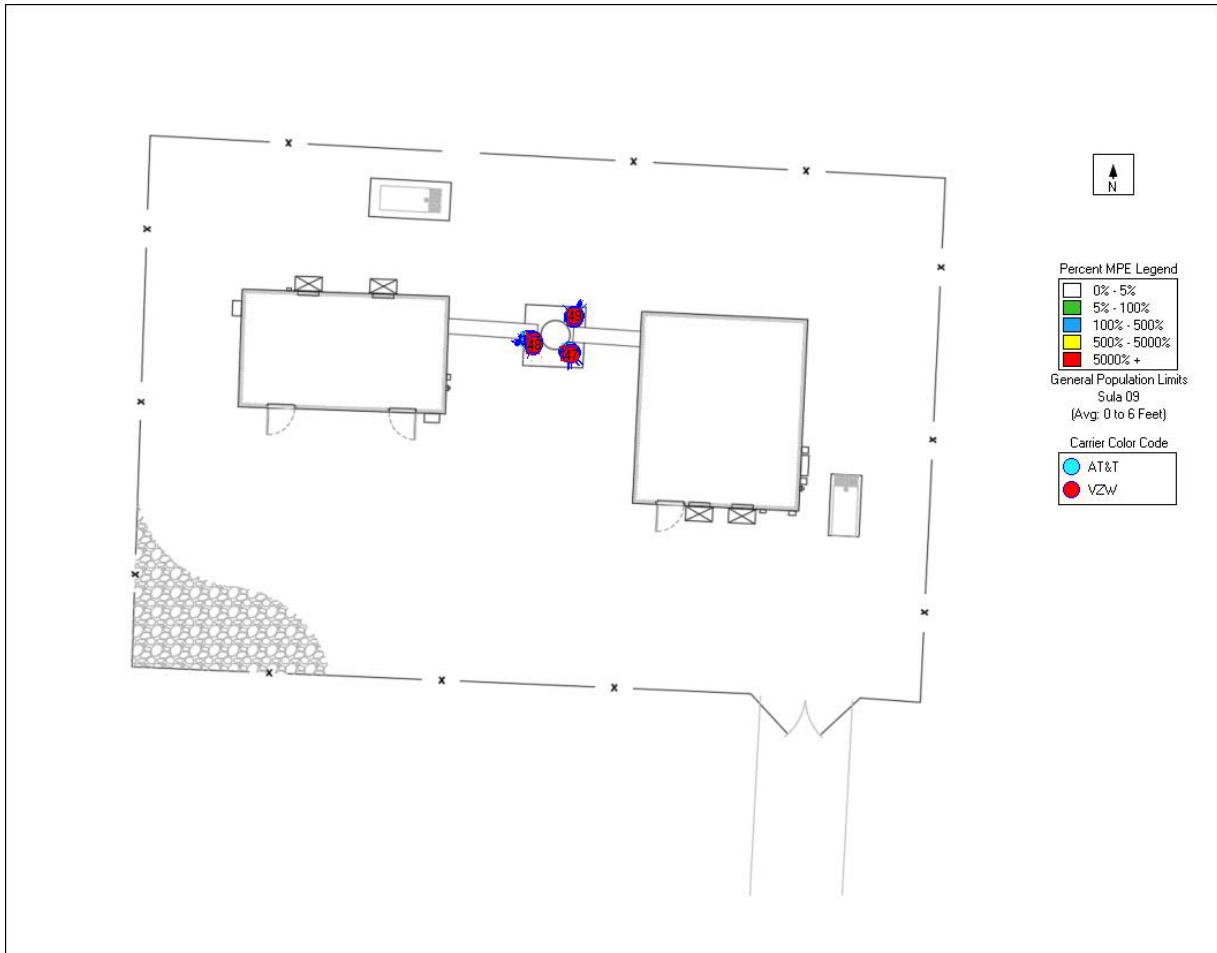
Appendix 2.1 Antenna Inventory

302476_Wtbr - Waterbury							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	AT&T	Ericsson	AIR 6449 B77D/ C-Band	3700	023	71639	156.0
2	AT&T	Ericsson	AIR 6449 B77D/ C-Band	3700	140	71639	156.0
3	AT&T	Ericsson	AIR 6449 B77D/ C-Band	3700	263	71639	156.0
4	AT&T	CCI	OPA-65R-LCUU-H6	700/800/1900	140	67006	154.0
5	AT&T	CCI	TPA-65R-LCUUUU-H8	700/1900	23	21627	154.0
6	AT&T	CCI	TPA-65R-LCUUUU-H8	700/1900	263	21627	154.0
7	AT&T	Quintel	QS66512-2	700/1900	140	14042	154.0
8	AT&T	Kathrein Scala	80010965	700/2100	140	16695	154.0
9	AT&T	CCI	OPA-65R-LCUU-H8 (92.7")	700/800/1900/2300	23	81418	154.0
10	AT&T	CCI	OPA-65R-LCUU-H8 (92.7")	700/800/1900/2300	263	81418	154.0
11	AT&T	Kathrein Scala	80010966	700/2100	23	18174	154.0
12	AT&T	Kathrein Scala	80010966	700/2100	263	18174	154.0
13	AT&T	Powerwave Allgon	7770	700/800/1900	140	40032	154.0
14	AT&T	Powerwave Allgon	7770.00	700/800/1900	263	40032	154.0
15	AT&T	Powerwave Allgon	7770.00	700/800/1900	23	40032	154.0
16	AT&T	Matsing	MS-MBA-3.2-H8-L4	700/800/1900	263	56098	154.0
17	AT&T	Kathrein Scala	80010966	700/2100	23	18174	154.0
18	AT&T	Kathrein Scala	80010965	700/2100	140	16695	154.0
19	AT&T	Quintel	QD6616-7	1700/1800	023	51632	154.0
20	AT&T	Quintel	QD6616-7	1700/1800	140	51632	154.0
21	AT&T	Quintel	QD6616-7	1700/1800	263	51632	154.0
22	AT&T	Matsing	MS-MBA-3.2-H8-L4	1700/1800	263	56098	154.0
23	AT&T	Kathrein Scala	80010965	700/2100	140	16695	154.0
24	AT&T	Kathrein Scala	80010966	700/2100	23	18174	154.0
25	AT&T	Ericsson	AIR 6472 B77G B77M (77.2lbs)	3700	023	120226	154.0

Appendix 2.2 Antenna Inventory

302476_Wtbr - Waterbury							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
26	AT&T	Ericsson	AIR 6472 B77G B77M (77.2lbs)	3700	140	120226	154.0
27	AT&T	Ericsson	AIR 6472 B77G B77M (77.2lbs)	3700	263	120226	154.0
28	AT&T	Quintel	QD8616-7	1700/1800	023	46543	154.0
29	AT&T	Quintel	QD8616-7	1700/1800	263	46543	154.0
30	AT&T	Quintel	QD6616-7	1700/1800	140	51632	154.0
31	AT&T	Ericsson	AIR 6419 B77G	3700	023	69206	152.0
32	AT&T	Ericsson	AIR 6419 B77G	3700	140	69206	152.0
33	AT&T	Ericsson	AIR 6419 B77G	3700	263	69206	152.0
34	VZW	CBNG	39GHz VectaStar NR gNB	39000	040	3069	131.0
35	VZW	CBNG	39GHz VectaStar NR gNB	39000	130	3069	131.0
36	VZW	CBNG	39GHz VectaStar NR gNB	39000	220	3069	131.0
37	VZW	CBNG	39GHz VectaStar NR gNB	39000	310	3069	131.0
38	VZW	Samsung	MT6413-77A	3700	030	95295	129.0
39	VZW	Samsung	MT6413-77A	3700	180	95295	129.0
40	VZW	Samsung	MT6413-77A	3700	290	95295	129.0
41	VZW	JMA Wireless	DX10FRO260-00/06	3500	030	1081	129.0
42	VZW	JMA Wireless	DX10FRO260-00/06	3500	180	1081	129.0
43	VZW	JMA Wireless	DX10FRO260-00/06	3500	290	1081	129.0
44	VZW	Commscope	JAHH-65C-R3B-V2	700/800/1900	030	46505	129.0
45	VZW	Commscope	JAHH-65C-R3B-V2	700/800/1900	180	46505	129.0
46	VZW	Commscope	JAHH-65C-R3B-V2	700/800/1900	290	46505	129.0
47	VZW	Commscope	JAHH-65C-R3B-V2	700/800/1900	030	46505	129.0
48	VZW	Commscope	JAHH-65C-R3B-V2	700/800/1900	180	46505	129.0
49	VZW	Commscope	JAHH-65C-R3B-V2	700/800/1900	290	46505	129.0

Appendix 3.1 MPE Limit Study General Population



Appendix 3.2 MPE Limit Study Occupational Limit





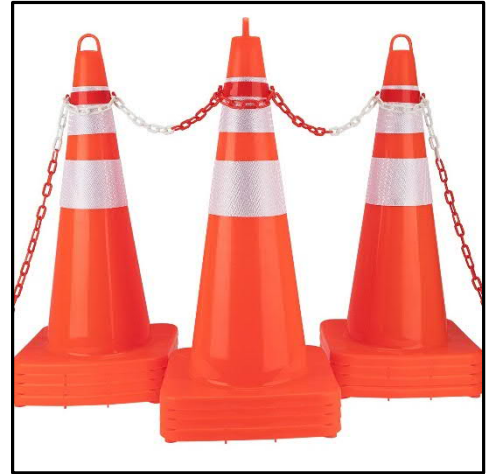
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Appendix 4.1 Barrier & Sign Types



Stanchion Type



Cone Type



A-Frame Type

Appendix 4.2 Barrier & Sign Types

RF Safety Exposure Categorization								
Exposure Conditions	Control Measures	Signage						
- Operational of the source(s) or locations where RF fields are too weak to cause exposures greater than General Public limit. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>1</td><td><20%</td><td><100%</td></tr> </table> - Green zone is where the time and spatial-average is below 20% of Occupational Worker limit or <100% of General Public limit.	Cat.	Occupational Worker	General Public	1	<20%	<100%	- RF Safety Guideline/NIER report must be submitted to RFSO for approval. - No special EME safety practices required in these areas. - No signage required except Information sign.	 *the antenna owner information and Antenna Structure Registration Number and must be displayed on the sign. INFORMATION sign for access to rooftop/access door.
Cat.	Occupational Worker	General Public						
1	<20%	<100%						
- Operational of the source(s) or locations where RF exposure could cause exposure greater than General Public limit but not the Occupational Worker limit to be exceeded in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General</th></tr> <tr> <td>2</td><td>≥20% but <100%</td><td>>100%</td></tr> </table> - Blue zone is where the spatial average is between 20%-100% of Occupational Worker limit. This limit MUST be less than the Occupational limit.	Cat.	Occupational Worker	General	2	≥20% but <100%	>100%	- RF Safety Guideline/NIER report must be submitted to RFSO for approval. - Recommended RF safety awareness training for all workers in this area. - Controlled areas with barriers and/or signage required in these areas. - Do not walk in front of the antenna face or no loitering in this controlled area. - Individual MUST have full control over any area where the exposure levels exceed the limit.	 NOTICE signage shall be posted on the barriers/stanchion to prevent anyone from entering into the area (must be cordon off around the antennas - 4 posts /3 signs). Or must be posted in location that can be easily viewed by individuals that enter the areas of concerns.
Cat.	Occupational Worker	General						
2	≥20% but <100%	>100%						
- Operational of the source(s) or locations where RF exposure exceeded the Occupational Worker limit in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>3</td><td>≥100%</td><td>≥500%</td></tr> </table> - Yellow zone is where the spatial average is above 100% of Occupational Worker limit.	Cat.	Occupational Worker	General Public	3	≥100%	≥500%	- RF Safety Guideline/NIER report must be submitted to RFSO for approval. - Individual shall not enter and work in these areas without RS approval - Required RF safety training and access area is restricted only for authorized worker. - Controlled areas with barriers and signage required in these areas. - Do not walk in front of the antenna face. - Require reduction of RF power and approval from Radiation Safety prior any work on the antennas.	 CAUTION signage shall be posted on the barriers/stanchion to prevent anyone from entering into the area (must be cordon off around the antennas - 4 posts /3 signs).
Cat.	Occupational Worker	General Public						
3	≥100%	≥500%						
- Exposure will exceed exposure limit in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>4</td><td>>500%</td><td>>1000%</td></tr> </table> - Red zone is where the time and spatial-averaged levels fall above 500% of Occupational Worker limit or is not feasible to prevent exposures.	Cat.	Occupational Worker	General Public	4	>500%	>1000%	- RF Safety Guideline/NIER report must be submitted to RFSO for approval. - MUST re-engineer site to reduce the EME fields. No access allowed-Prohibited access! There must be controls to detect any unauthorized enter and terminate the RF energy in the area. - Lock out tag out of transmitters during the maintenance of the antenna system. - PPE is not sufficient. - Special RF training and PPE are required. (Applies only to individuals trained by RS).	 RF WARNING & Pacemaker DANGER signage or appropriate DANGER sign shall be posted very near radiation RF sources or if appropriate DANGER sign.
Cat.	Occupational Worker	General Public						
4	>500%	>1000%						

Appendix 5 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 6 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.

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

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

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.



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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.

DOCKET NO. 44

AN APPLICATION SUBMITTED BY THE SOUTHERN : CONNECTICUT SITING
NEW ENGLAND TELEPHONE COMPANY FOR A :
CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY : COUNCIL
AND PUBLIC NEED FOR THE CONSTRUCTION,
MAINTENANCE AND OPERATION OF FACILITIES TO
PROVIDE CELLULAR SERVICE IN NEW HAVEN COUNTY : July 24, 1984

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut, revisions of 1958, revised to 1983, as amended, be issued to the Southern New England Telephone Company for the construction, operation, and maintenance of a telecommunications tower and associated equipment to provide cellular service at each of the following sites:

Jasudowich tract, Brushy Plain Road, Branford, Connecticut;
Town of Guilford tract, Tanner Marsh Road, Guilford, Connecticut;
Bridgeport Avenue, Milford, Connecticut;
Quagliaro tract, Farmdale Drive, Waterbury, Connecticut;
Pease Road, Woodbridge, Connecticut; and
Dwight Street, North Haven, Connecticut.

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

1. The towers including antennas shall be no taller than necessary to provide the proposed service and in no event shall exceed
 - a) 167' at the Branford site,
 - b) 167' at the Guilford site,
 - c) 117' at the Milford site,
 - d) 167' at the Waterbury site,
 - e) 167' at the Woodbridge site,
 - f) 167' at the North Haven site;
2. A fence not lower than eight feet shall surround each tower and its associated equipment;

3. The applicant or its successor shall notify the Council if and when directional antennas or any other equipment is added to any of these facilities;
4. The applicant or its successor shall permit, in accordance with representations made by it during the proceeding, public or private entities to share space on the facilities, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing;
5. Unless necessary to comply with condition number six, below, no lights shall be installed on any of these towers;
6. The facilities shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations;
7. The applicant shall submit a development and management plan (D&M) for the Branford, Milford, Woodbridge, and North Haven sites pursuant to sections 16-50j-85 through 16-50j-87 of the regulations of state agencies, except that irrelevant items in section 16-50j-86 need only be identified as such. The D&M plans shall include appropriate evergreen screening of the sites, erosion control measures, reseeding plans, and tree removal plans. The applicant shall comply with the reporting requirements of section 16-50j-87 for all sites;
8. Construction activities shall take place during daylight working hours;
9. This decision and order shall be void and the towers and associated equipment approved herein shall be dismantled and removed, or reapplication for any new use shall be made to the Connecticut

Siting Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction;

10. This decision and order shall be void if all construction authorized is not completed within three years of the issuance of this decision.

Pursuant to section 16-50p of the General Statutes, we hereby direct that a copy of the opinion and decision and order be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, New Haven Register, and the Waterbury Republican.

The parties to this proceeding are

The Southern New England Telephone Company Room 314 227 Church Street New Haven, Connecticut 06506	(Applicant)
--	-------------

ATTENTION: Mr. Peter J. Tyrrell Senior Attorney	(its attorney)
--	----------------

Town of Hamden Peter F. Villano, Mayor Shirley Gonzales, Town Planner	represented by: Mr. Hugh Manke, Esquire Office of the Town Attorney Memorial Town Hall 2372 Whitney Avenue Hamden, Connecticut 06518
---	--

Inland Wetlands Agency Town of Woodbridge	represented by: Robert J. Klancko Chairman Town Hall 11 Meeting House Lane Woodbridge, Connecticut 06525
--	---

Town Plan and Zoning
Commission
Town of Woodbridge

represented by:

Norman Fineberg
Chairman
Town Hall
11 Meeting House Lane
Woodbridge, Connecticut 06525

The Honorable Peter M. Lerner
State Representative
State of Connecticut
House of Representatives
State Capitol
Hartford, Connecticut 06115

John Menta
Felicia Tencza

represented by:

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Ms. Renee Robinson
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Hamden, Connecticut 06518

(service waived)

Irene L. Wong
Edson H. Mount
Dr. & Mrs. H.M. Fiskio
Dr. & Mrs. Alexander Gottschalk

represented by:

Dr. & Mrs. Alexander Gottschalk
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The Sleeping Giant Park Association

represented by:

Mr. Dag Pfeiffer
President
Box 14
Quinnipiac College
Hamden, Connecticut 06518

West Rock Ridge Park Association

represented by:

Mr. William L. Dohney, Jr., D.D.S.
President
220 Mountain Road
Hamden, Connecticut 06514

Sierra Club

represented by:

Ms. M. Kim Yanoshick
Executive Director
Hartford Chapter
118 Oak Street
Hartford, Connecticut 06106

Quinnipiac College

represented by:

Mr. Richard A. Terry
President
Hamden, Connecticut 06518

Guilford Conservation Commission

represented by:

Ms. Carolyn K. Evans
Chairman
Town Hall
Park Street
Guilford, Connecticut 06437

Mrs. Barbara R. Peterson
Mary & Phil Faust
Anita L. & Richard M. Sullivan

represented by:

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Mrs. Pauline H. Hoff

represented by:

Herbert L. Emanuelson, Jr.
Emanuelson and Wynne
205 Church Street
New Haven, Connecticut 06510

Hamden League of Women Voters

represented by:

Mrs. Sherrill Zoller
605 West Woods Road
Hamden, Connecticut 06518
(service waived)

Joan Rosenberg
230 Ridewood Avenue
Hamden, Connecticut 06517

Mr. & Mrs. Richard Sykes
110 Blue Trail
Hamden, Connecticut 06518

Thomas & Claudia Sullivan, Jr.
100 Blue Trail
Hamden, Connecticut 06518

Mr. William N. Pantalone
27 Pease Road
Woodbridge, Connecticut 06525

(service waived)

INTERVENORS

Metromedia TeleCommunications
Nutmeg Telecommunications, Inc.
CSI of New Haven
CSI of Stamford
Cellular Communications, Inc.
LIN Cellular Corp.
Cellular Mobile Services
Maxcell TeleCommunications, Inc.
Mobile Cellular Telephone, Inc.
Cellular Dynamics
Connecticut Corridor Cellular
Chase/Post Cellular

represented by:

Dwight A. Johnson
Murtha, Cullina, Richter
and Pinney
101 Pearl Street
P.O. Box 3197
Hartford, Connecticut 06103-0197

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 24th day of July, 1984.

<u>Council Members</u>	<u>Vote Cast</u>
_____ Gloria Dibble Pond Chairperson	Absent
_____ Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
_____ <i>Brian Emerick</i> Commissioner Stanley Pac Designee: Brian Emerick	Yes Absent Abstain
_____ <i>Owen L. Clark</i> Owen L. Clark	Yes
_____ <i>Fred J. Doocy</i> Fred J. Doocy	Yes
_____ <i>Mortimer A. Gelston</i> Mortimer A. Gelston	Yes
_____ <i>James G. Horsfall</i> James G. Horsfall	Yes
_____ Janet Sitty	Absent
_____ <i>Colin C. Tait</i> Colin C. Tait Acting Chairperson	Yes

STATE OF CONNECTICUT

)

:

COUNTY OF HARTFORD

)

ss. New Britain, July 24, 1984

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:


Christopher S. Wood, Executive Director
Connecticut Siting Council

EXHIBIT 7

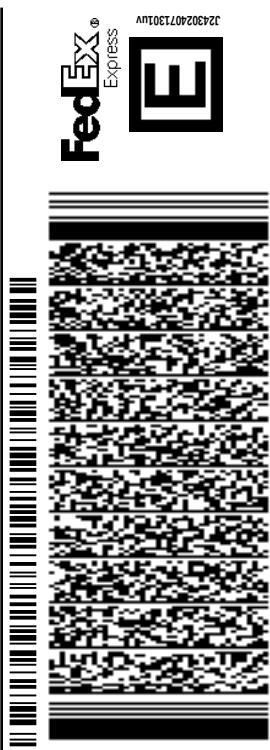


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PYRAMID NETWORK SERVICES LLC
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UNITED STATES US

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CITY HALL BUILDING
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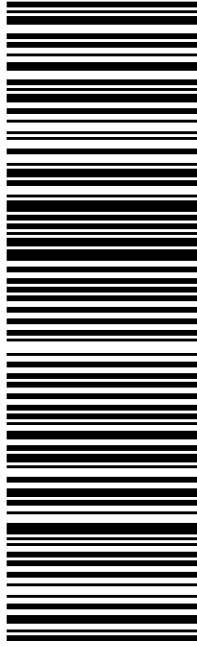
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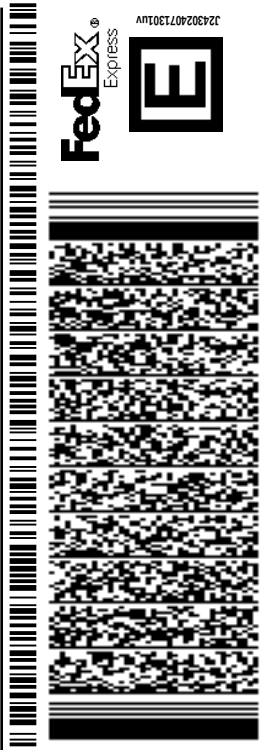
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CITY OF WATERBURY
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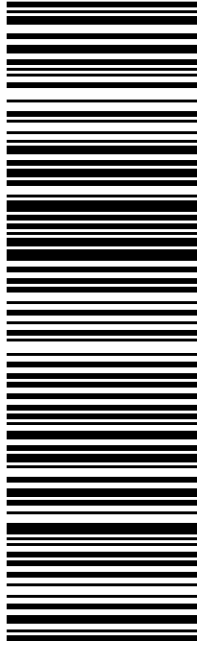
WATERBURY CT 06706
(203) 574-6817 REF: ATCNV2000 WATERBURYCT 14850265
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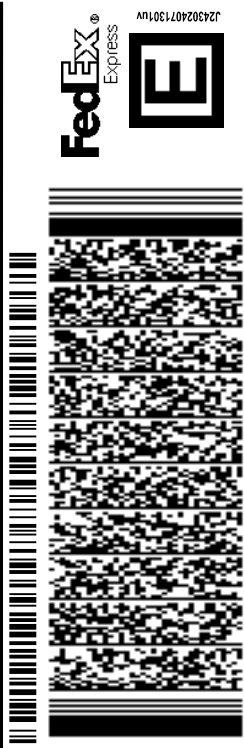
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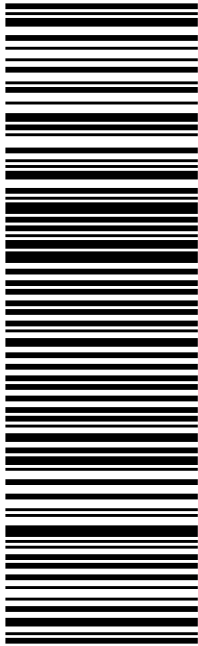
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