

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

April 7, 2022

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

Re: **Notice of Exempt Modification – Facility Modification
160 Deer Run Road, Wilton, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground near the base of the tower. The tower and Cellco’s use of the tower were approved by the Siting Council (“Council”) in August of 2006 (Docket No. 308). A copy of the Council’s Docket No. 308 Decision and Order is included in [Attachment 1](#).

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) new MX06FRO660-03 antennas on its existing antenna mounting structure. Cellco also intends to remove six (6) remote radio heads (“RRHs”) and install six (6) new RRHs behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and the specifications for Cellco’s new antennas and RRHs are included in [Attachment 2](#).

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Wilton’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
April 7, 2022
Page 2

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's new antennas will be installed on its existing antenna mounting structure.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

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

Melanie A. Bachman, Esq.
April 7, 2022
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Lynne Vanderslice, Wilton First Selectwoman
Michael Wrinn, Director of Planning & Land Use Management/Town Planner
Westport Broadcasting Co. LLC, Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 308 – Westport Broadcasting Co., LLC, Optasite, Inc., and New Cingular Wireless PCS, LLC application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a wireless telecommunications facility located at 160 Deer Run Road, Wilton, Connecticut.

Connecticut

Siting

Council

August 31, 2006

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate, either alone or cumulatively with other effects, when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Westport Broadcasting Co., LLC (WBC), Optasite, Inc. (Optasite) and New Cingular Wireless PCS, LLC (New Cingular), hereinafter referred to as the Certificate Holder, for a telecommunications facility at 160 Deer Run Road, Wilton, Connecticut.

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

1. The tower shall be constructed as a self-supporting lattice tower, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of New Cingular and other entities, both public and private, but such tower shall not exceed a height of 118 feet above ground level. The height at the top of the antennas shall not exceed 122 feet above ground level.
2. Whip antennas that are to be relocated onto the replacement structure shall be combined into shared antennas, where possible.
3. The Certificate Holder shall remove the existing guyed lattice tower upon commencement of operation of the 120-foot self-supporting lattice tower.
4. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Wilton for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a. a final site plan(s) of site development to include specifications for the tower including a yield point, tower foundation, antennas, expanded equipment compound, radio equipment, placement of cables within the tower, utility line, and landscaping; and
 - b. construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
5. The Certificate Holder shall notify the Council, parties and intervenors in this proceeding within ten business days of receiving notice from the Connecticut Department of Environmental Protection that use of the existing access road will be terminated. At which time the Certificate Holder shall submit a D&M Plan for the new access road extending from Deer Run Road.

6. The Certificate Holder shall, prior to commencement of construction of the new access road, provide the Council, parties and intervenors with a D&M Plan for the new access road, including construction plans for clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
7. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
8. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
9. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
10. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Wilton public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
11. If the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
12. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
13. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.
14. Any request for extension of the time periods referred to in Conditions 7 & 8 shall be filed with the Council not later than sixty days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list. Any proposed modifications to this Decision and Order shall likewise be so served.

15. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Wilton Bulletin, The Norwalk Hour, and The Wilton Villager.

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

The parties and intervenors to this proceeding are:

Applicant

Westport Broadcasting Co., LLC
Optasite, Inc.
New Cingular Wireless PCS, LLC

Representatives

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
90 Maple Avenue
White Plains, NY 10601

Dennis Morrissey, P.E., Esq.
3380 Main Street – Suite 201
Stratford, CT 06614

Party

Wilton Environmental Trust

Representative

Keith R. Ainsworth, Esq.
Evans Feldman & Boyer, LLC # 101240
261 Bradley Street
P.O. Box 1694
New Haven, CT 06507-1694

Party

Town of Wilton

Representatives

Carrie L. Larson, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604

Monte E. Frank, Esq.
Cohen and Wolf, P.C.
158 Deer Hill Avenue
Danbury, CT 06810

Intervenor

Omnipoint Communications, Inc.
(T-Mobile USA, Inc.)

Representative

Kenneth Ira Spigle
687 Highland Avenue, Suite 1
Needham, MA 02494

Intervenor

Cellco Partnership d/b/a Verizon Wireless (Cellco)

Representative

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

ATTACHMENT 2



SITE NAME: WILTON_WEST_CT

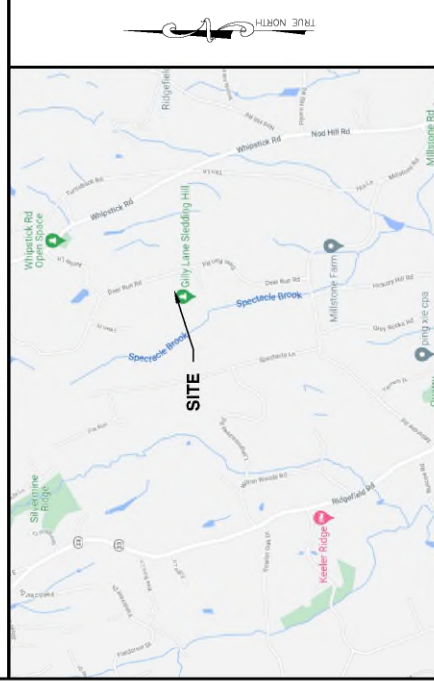
160 DEER RUN ROAD
WILTON, CT 06897
TOWN OF WILTON
FAIRFIELD COUNTY



SITE INFORMATION

SITE ADDRESS: 160 DEER RUN ROAD
WILTON, CT 06897
LATITUDE (NAD 83): 41-14-28.93827N (41.2413727)
LONGITUDE (NAD 83): 73-28-11.60049W (-73.4698891)
JURISDICTION: TOWN OF WILTON
FAIRFIELD COUNTY
PARCEL NUMBER: 1928504
PROPERTY OWNER: WESTPORT BROADCASTING CO
PO BOX 1041
VIRGINIA BEACH, VA 23451
TOWER OWNER: SBA COMMUNICATIONS CORPORATION
10000 WILSON ROAD
BOCA RATON, FL 33487-1307
VZM SITE ID: 328159
STRUCTURE TYPE: SELF SUPPORT TOWER
CONSTRUCTION TYPE: II B
USE GROUP: U

VICINITY MAP



SCOPE OF WORK

PROJECT CONSISTS OF INSTALLING: (3) PROPOSED DUAL ANTENNAS, (3) PROPOSED TOWERS, AND (6) PROPOSED PDS TO AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT: [HTTPS://PML.VZW.COM](https://pml.vzw.com)
SMART TOOL VENDOR PROJECT NUMBER: 100765
VERIZON LOCATION CODE (PSLC): 467920
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED

YES

VERIZON APPROVED VENDORS

* REFER TO MOUNT MODIFICATION DRAWINGS.

DRAWING INDEX

T-1	TITLE SHEET
C-1	COMPOUND PLAN
C-2	ELEVATION
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A-2	PROPOSED ANTENNA PLAN & SCHEDULE
A-3	ANTENNA DETAILS & PLUMBING DIAGRAM
A-4	EQUIPMENT SPECIFICATIONS & DETAILS
A-5	SCOPE OF WORK
G-1	GROUNDING DETAILS & NOTES
GN-1	PMI REQUIREMENTS MODIFICATION DRAWINGS ATTACHED

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 27"x34". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE GROUND. ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

APPROVAL BLOCK

APPROVED	DATE	CONSTRUCTION MANAGER	DATE
AS NOTED	DATE	SITE ACQUISITION	DATE
DISAPPROVED/REVISE	DATE	RF ENGINEER	DATE
	DATE	LESSOR/LESSOR REP	DATE



WILTON_WEST_CT
160 DEER RUN ROAD
WILTON, CT 06897
TOWN OF WILTON
FAIRFIELD COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
0	09/24/22	FINAL CD	CHE



DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER, LIC. #34055

TITLE SHEET

T-1

REVISIONS

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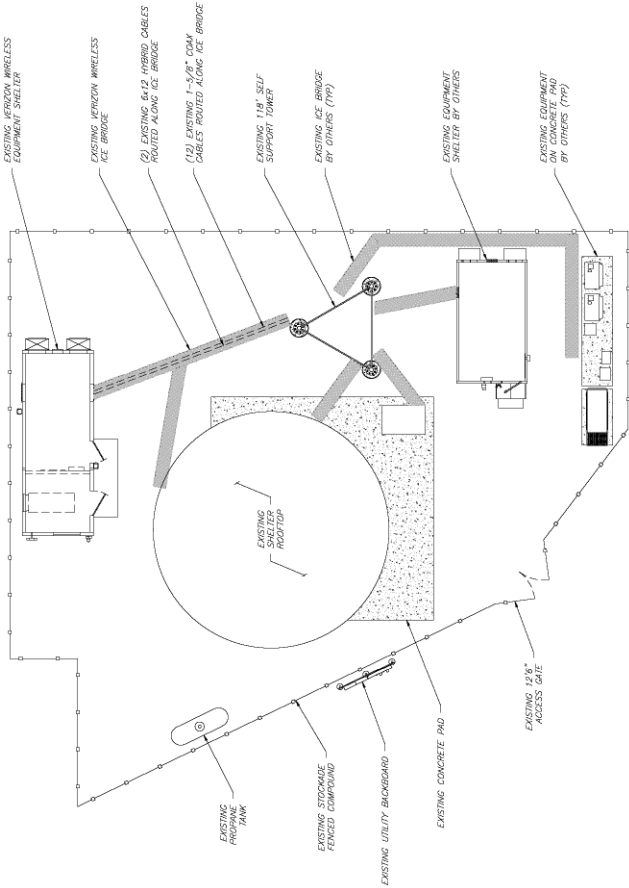
DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

COMPOUND PLAN

C-1

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CHANGES TO THE PROJECT PRIOR TO THE SUBMISSION OF BID OR PERFORMANCE OF WORK. WORK OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL CONSTRUCT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL STRUCTURAL ELEMENTS SHALL BE HOT DIP GALVANIZED STEEL.
- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
- IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE FACILITY, THE CONTRACTOR SHALL CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
- THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.



1 COMPOUND PLAN
SCALE: 1" = 20' (1X11.7)
C-1



WILTON_WEST_CT
160 DEER RUN ROAD
WILTON, CT 06897
TOWN OF WILTON
FAIRFIELD COUNTY

REVISIONS

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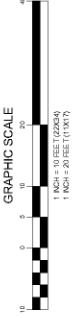
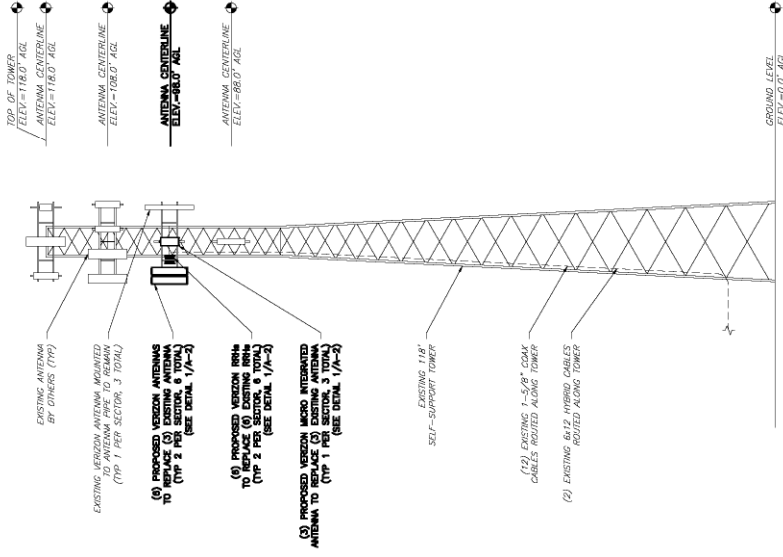
DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

ELEVATION

C-2

NOTE:
POST-MODIFICATION INSPECTION (PMI) REQUIRED ON INSTALL. ON OCCUR, PLEASE REFER TO THE MOUNTING BRACKET AND ANTENNA DETAIL PREPARED BY NBC ENGINEERING AND ARCHITECTURE PROFESSIONAL CORPORATION DATED 10/19/2021 FOR ADDITIONAL DETAIL.

NOTE:
MOUNT MODIFICATIONS ARE REQUIRED BEFORE ANY INSTALL. ON OCCUR, PLEASE REFER TO THE MOUNTING BRACKET AND ANTENNA DETAIL PREPARED BY NBC ENGINEERING AND ARCHITECTURE PROFESSIONAL CORPORATION DATED 10/19/2021.



1 ELEVATION
C-2
SCALE: 1" = 10' (22834)
SCALE: 1" = 20' (11417)

REVISIONS

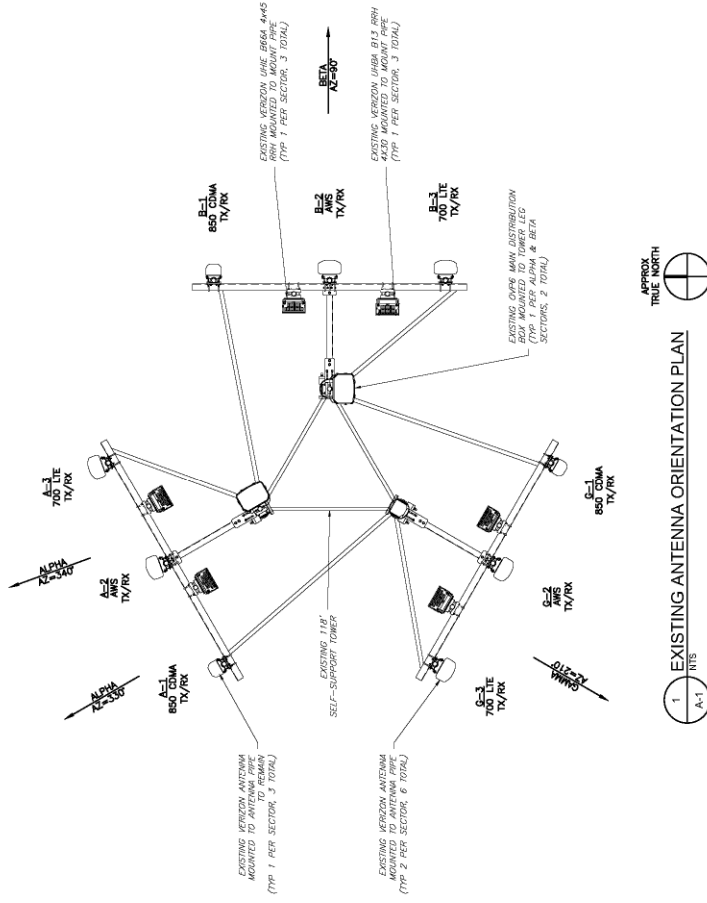
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DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

EXISTING
ANTENNA PLAN
& SCHEDULE

A-1



ANTENNA POSITION	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER	DOWN TILT		RRH QUANTITY & MODEL	TECHNOLOGY	CABLE SIZE, LENGTH & QUANTITY
				MECH	ELEC			
A-1	AMPHENOL	BXA-803902/B	96.00'	330'	2'	0'	AMS	4) 1-5/8" COAX CABLES (140'±)
A-2	ANDREW	SBNH-1085B	96.00'	340'	0'	2'	AMS	1) UWB B13 RRH 4x45 (140'±)
A-3	ANDREW	SBNH-1085B	96.00'	340'	0'	2'	AMS	1) UWB B13 RRH 4x30 (140'±)
B-1	AMPHENOL	BXA-803902/B	96.00'	90'	2'	0'	AMS	4) 1-5/8" COAX CABLES (140'±)
B-2	ANDREW	SBNH-1085B	96.00'	90'	0'	2'	AMS	1) UWB B13 RRH 4x45 (140'±)
B-3	ANDREW	SBNH-1085B	96.00'	90'	0'	2'	AMS	1) UWB B13 RRH 4x30 (140'±)
C-1	AMPHENOL	BXA-803902/B	96.00'	210'	2'	0'	AMS	4) 1-5/8" COAX CABLES (140'±)
C-2	ANDREW	SBNH-1085B	96.00'	210'	0'	1'	AMS	1) UWB B13 RRH 4x45 (140'±)
C-3	ANDREW	SBNH-1085B	96.00'	210'	0'	1'	AMS	1) UWB B13 RRH 4x30 (140'±)

NOTES:
1. ANTENNAS PREPARED FOR BY SHEET A-101. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.



WILTON_WEST_CT
160 DEER RUN ROAD
WILTON, CT 06897
TOWN OF WILTON
FAIRFIELD COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
0	09/20/21	FINAL CD	CHE



DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC #34055

**ANTENNA DETAILS
& PLUMBING
DIAGRAM**

A-3

ENGINEER

APPLICANT

SITE INFORMATION

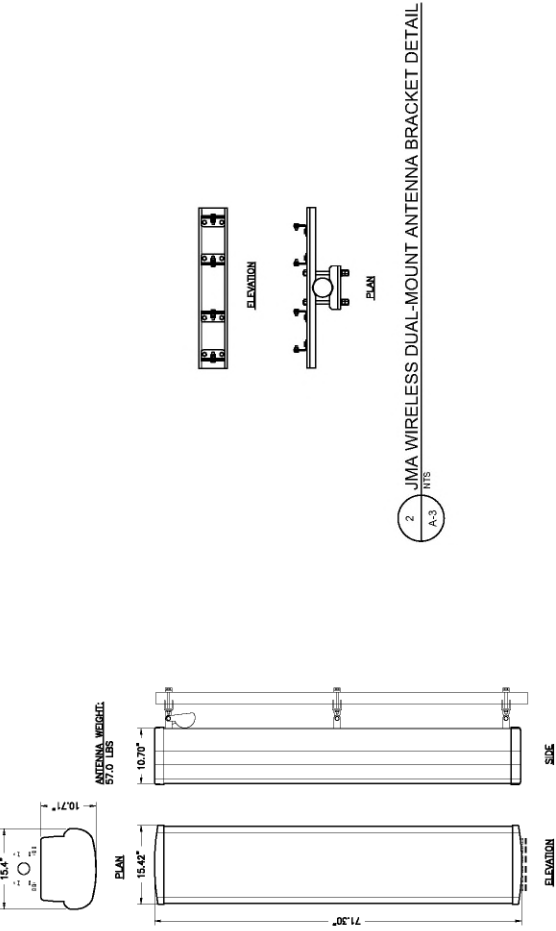
DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

SHEET NUMBER



2 JMA WIRELESS DUAL-MOUNT ANTENNA BRACKET DETAIL
A-3

EXISTING ANTENNA SPECIFICATIONS

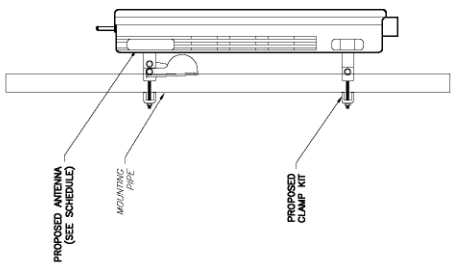
ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
ANDREW	* SR9944-1285B	6	72.9"	11.9"	7.1"	42.7 LBS
AMPHENOL	BVA-60090/8	3	94.7"	8.1"	5.2"	23.0 LBS

* TO BE REMOVED

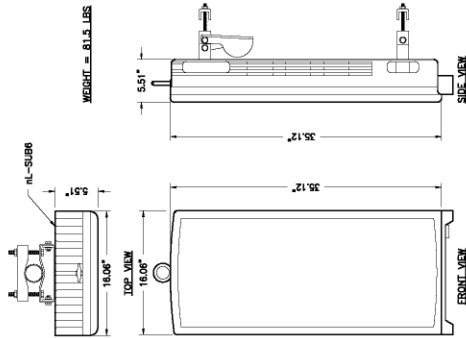
PROPOSED ANTENNA SPECIFICATIONS

ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
JMA WIRELESS	MX06FRO660-3	6	71.30"	15.42"	10.70"	57.0 LBS
SAMSUNG	MT6407-77A	3	35.12"	16.08"	5.51"	81.5 LBS

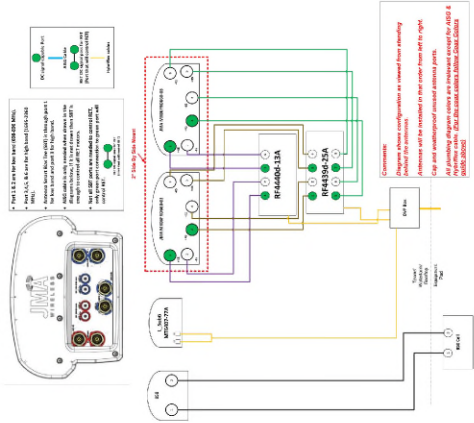
1 MX06FRO660-03 ANTENNA DETAILS
A-3



4 ANTENNA MOUNTING DETAILS
A-3



3 MT6407-77A INTEGRATED ANTENNA
A-3



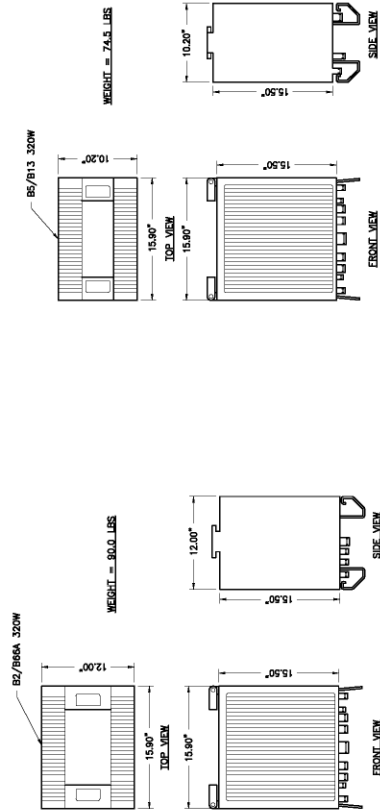
RFDS DATED 09/24/21, 11:52:06

EXISTING RRH EQUIPMENT SPECIFICATIONS							
MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
NOKIA	*L968A B13 RRH 4x30	TOWER	3	21.6"	15.0"	9.0"	56.7 LBS
NOKIA	*L96E BR66A RRH 4x45	TOWER	3	25.8"	14.8"	7.2"	67.0 LBS

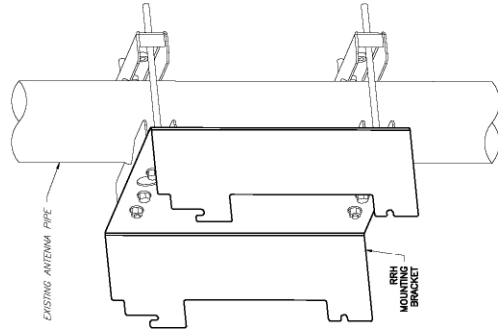
* TO BE REMOVED

PROPOSED RRH EQUIPMENT SPECIFICATIONS							
MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
SAMSUNG	RF44400-13A	TOWER	3	15.50"	15.50"	10.20"	74.5 LBS
SAMSUNG	RF44394-25A	TOWER	3	15.50"	15.50"	12.00"	90.0 LBS




EXISTING DISTRIBUTION EQUIPMENT SPECIFICATIONS							
MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
N/A	6 DWP	TOWER	2	28.83"	15.71"	10.3"	52.0 LBS



- 1 B2/BR6A RF4439D-25A (REMOTE RADIO HEAD) NTS A-4
- 2 B5/B13 RF4440D-13A (REMOTE RADIO HEAD) NTS A-4



3 RRH MOUNTING DETAIL NTS A-4

	 118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581	WILTON_WEST_CT 160 DEER RUN ROAD WILTON, CT 06897 TOWN OF WILTON FAIRFIELD COUNTY	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td>0</td> <td>03/20/22</td> <td>FINAL CD</td> <td>CHE</td> </tr> </table>	REV	DATE	DESCRIPTION	BY	0	03/20/22	FINAL CD	CHE		DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC. #34055	EQUIPMENT SPECIFICATIONS & DETAILS	A-4
REV	DATE	DESCRIPTION	BY												
0	03/20/22	FINAL CD	CHE												
ENGINEER	APPLICANT	SITE INFORMATION	DESIGN RECORD	PROFESSIONAL STAMP	ENGINEER	SHEET TITLE	SHEET NUMBER								

VERIZON WIRELESS CONTRACTOR SCOPE OF WORK

- VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL THE PROPOSED CABLE JUMPER (WITH LC TO LC CONNECTORS) FROM THE PROPOSED FIBER TRAYS TO THE PROPOSED MAIN DISTRIBUTION BOX (BOTTOM).
- VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL ALL MOUNTING HARDWARE AND 1/2" ANTENNA JUMPER CABLES AS REQUIRED DURING CONSTRUCTION.
- VERIZON WIRELESS CONTRACTOR IS TO INSTALL (12) RUNS OF HELIAX 1/1 HYBRID CABLE FROM THE EXISTING MAIN DISTRIBUTION BOXES TO THE REMOTE RADIO HEAD UNITS.
- VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL 1/2" ANTENNA JUMPERS FROM EACH PROPOSED REMOTE RADIO HEAD UNIT (RRH) TO THE PROPOSED ANTENNAS IN ALL SECTORS (36 TOTAL 1/2" ANTENNA JUMPERS).
- VERIZON WIRELESS CONTRACTOR IS TO INSTALL THE PROPOSED REMOTE RADIO HEAD UNITS IN ALL SECTORS ON THE ANTENNA PIPE.
- VERIZON WIRELESS CONTRACTOR IS TO GROUND ALL REMOTE RADIO HEAD UNITS (RRH) TO THE EXISTING GROUND BARS AS REQUIRED DURING CONSTRUCTION.
- VERIZON WIRELESS CONTRACTOR IS TO GROUND ALL PROPOSED ANTENNAS TO THE EXISTING GROUND BARS AS REQUIRED DURING CONSTRUCTION.
- VERIZON WIRELESS CONTRACTOR IS TO COMPLETE THE INSTALLATION OF THE PROPOSED ANTENNAS.
- VERIZON WIRELESS CONTRACTOR IS TO PERFORM THE FOLLOWING OPTICAL SWEEP TESTS: OTR AND OPTICAL LOSS. RECOMMENDED UNITS – ANRITSU MT9090, JDSU, EXFO FTB-1/FTB-720 OTR.
- VERIZON WIRELESS CONTRACTOR IS TO PERFORM THE FOLLOWING ANTENNA SYSTEM SWEEP TESTS: SYSTEM VZWR / GB RL.
- VERIZON WIRELESS CONTRACTOR IS TO PROVIDE ALL CLOSE OUT DOCUMENTS AS REQUIRED BY VERIZON WIRELESS.

SAMSUNG RRH

- DUAL RRH B2/B66A RF4439d-25A HELIAX 1/1 HYBRID CABLE CABLE MUST BE CONNECTED TO THE L0 PRIMARY PORT AND (1) EXTRA PAIR OF FIBER CONNECTED TO L1 SECONDARY PORT.
- DUAL RRH B5/B13 RF4440d-13A HELIAX 1/1 HYBRID CABLE MUST BE CONNECTED TO THE L0 PRIMARY PORT.

INTEGRATED ANTENNA

- MT6407-77A 1/1 HYBRID CABLE MUST BE CONNECTED TO OPT1 PORT AND (3) EXTRA FIBER CABLE TO THE SECONDARY OPT2 PORT.

MOP FOR RET INSTALLS



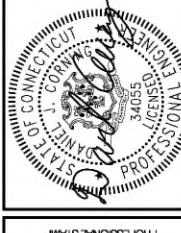
- ANTENNA CREW**
1. REVIEW ANTENNA SCHEDULE WITH CELL TECH FOR EACH SECTOR, LAY ANTENNAS OUT ON THE GROUND AS THEY WILL BE INSTALLED ACCORDING TO THE ANTENNA SCHEDULE
 3. LABEL EACH ANTENNA WITH FACE AND POSITION WITH A SHARPIE (EX:"ALPHA-4")
 4. LABEL ALL MOTORS WITH SHARPIE WITH BAND AND TECHNOLOGY (EX:"700LTE", "ANSLTE", "PCSLTE", "850VOICE", ETC)
 5. CONNECT ALL AISG CABLES (INCLUDING JUMPERS THAT WILL BE USED IN FINAL ASSEMBLY) PER THE ANTENNA SCHEDULE
 - A. WHEN DASY CHAINING IS INEVITABLE, AS A GENERAL RULE
 - I. KEEP LOW AND HIGH BANDS ON SEPARATE AISG CHAINS AS MUCH AS POSSIBLE
 - II. MINIMIZE AMOUNT OF MOTORS PER CHAIN AS MUCH AS POSSIBLE (MAX IS 6)
 - B. WHEN COMPLETED ALL RET MOTOR PORTS NEED TO BE CONNECTED, INCLUDING THE MOTORS NOT BEING USED YET. THE ONLY UNUSED PORT WILL BE THE LAST IN THE DAISY CHAIN, WHICH NEEDS TO BE CAPPED AND WEATHERPROOFED.
 6. ON LAPTOP, FILL OUT THE SOFTCOPY OF THE RET DEPLOYMENT FORM AND SAVE IT, REPLACING THE "#####" WITH THE 6-DIGIT ENB NUMBER IN THE FILENAME (EX: RET DEPLOYMENT FORM_0981234.XLSX")
 7. GIVE A SOFTCOPY OF THE RET DEPLOYMENT FORM TO VZW CELL TECH AND GC/CONSULTANT (EITHER BY EMAIL OR USB STICK)
 8. USING THE SAME LAPTOP WHICH HAS THE RET DEPLOYMENT FORM OPENED, CONNECT THE CONTROL MODULE AND PROVISION EACH MOTOR RESPECTIVELY

NOTE: CREWS MUST USE SOFTWARE THAT IS SPECIFIC TO THE MOTOR TYPE BEING PROVISIONED (IE- JMA SOFTWARE SHOULD ONLY BE SUED FOR JMA MOTORS)

 - A. COPY AND PASTE "RET FRIENDLY NAME" FROM SPREADSHEET (COLUMN A) TO THE "SECTOR ID" FIELD OF EACH MOTOR
 - B. POPULATE "SET RET TILT"
 - C. POPULATE "MECHANICAL TILT"
 9. CALIBRATE ALL MOTORS
 10. DISCONNECT NECESSARY AISG JUMPERS TO TRANSPORT ANTENNAS SAFELY TO ASSEMBLY
 11. INSTALL ANTENNAS ACCORDING TO THE ANTENNA SCHEDULE, USING THE SHARPIE LABELS AS REFERENCE
 12. RECONNECT ALL AISG JUMPERS
 13. BEFORE PLUGGING INTO EACH RRH, CONNECT MAIN AISG CABLE INTO CONTROLLER TO ENSURE ALL MOTORS ARE STILL SEEN IN THE DAISY CHAIN
 14. PLUG AISG INTO RRH AND NOTIFY VZW TECH OF COMPLETION

VZW TECH (USER HELP GUIDE: \\WIN-VZWNWET\NORTHEAST\PAWM_IMPLEMENTATION\SYSTEM

15. PERFORMANCE\USERS\MOSERGA\RET)
15. POWER ON RADIO EQUIPMENT AND RUN ANY NECESSARY WOS
16. "DISCOVER" THE RETS
 - A. LOG INTO SAM
 - I. VERIFY RET LICENSE ALLOCATION IN SAM
 - ENBEQUIPMENT>ENB>ACTIVATIONSERVICE>SAISGALLOWED=CHECKED
 - II. GO TO TREE VIEW AND HIGHLIGHT RET SUBUNIT
 - III. ENABLE BUS SCAN
 - CONFIGURATION>ENABLE AISG BUS SCAN
 - III. ALLOCATE CONFIG RIGHTS
 - CONFIGURATION>ALLOCATION CONFIGURATION RIGHTS
 - IV. VERIFY CORRECT NUMBER OF RETS ARE DISCOVERED
17. "COMMISSION" THE RETS
 - A. LOG INTO NEM LOCAL
 - I. STILL IN TREE VIEW, RIGHT CLICK ON "HW MODULES"
 - II. SELECT "CREATE RET MO"
 - III. RELEASE CONFIG RIGHTS
 - CONFIGURATION>RELEASE CONFIGURATION RIGHTS
 - IV. VERIFY RETSUBUNIT:SECTORNAME, ELECTRICAL TILT, AND MECHANICAL TILT ARE POPULATED
18. "PROVISION" THE RETS
 - A. LOG INTO SAM
 - I. OPEN UP THE ENB PROPERTIES AND COMPLETE A FULL RESYNC
 - II. IN THE SEARCH TEXTBOX, SEARCH FOR "RETSUBUNIT"
 - III. VERIFY ALL RETS ARE ACCOUNTED FOR AND "RETSUBUNIT:SECTORNAME", "ANTENNAELECTICALTILT", AND "RETSUBUNIT:MECHANICALTILT" * ARE ACCURATE

	 <p>118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581</p>	<p>WILTON_WEST_CT 160 DEER RUN ROAD WILTON, CT 06897 TOWN OF WILTON FAIRFIELD COUNTY</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>09/26/22</td> <td>FINAL CD</td> <td>CHE</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	0	09/26/22	FINAL CD	CHE		<p>DANIEL J. CORNING P.E. CT PROFESSIONAL ENGINEER LIC. #34055</p>	<p>SCOPE OF WORK</p>	<p>A-5</p>
REV	DATE	DESCRIPTION	BY												
0	09/26/22	FINAL CD	CHE												
ENGINEER	APPLICANT	SITE INFORMATION	DESIGN RECORD	PROFESSIONAL STAMP	ENGINEER	SHEET TITLE	SHEET NUMBER								

REVISIONS

REV	DATE	DESCRIPTION	BY
0	02/24/22	FINAL CD	CHE



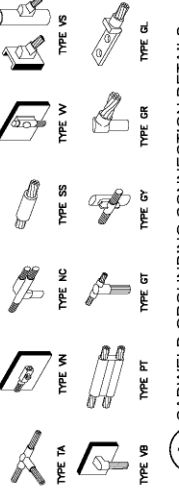
DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

GROUNDING
DETAILS & NOTES

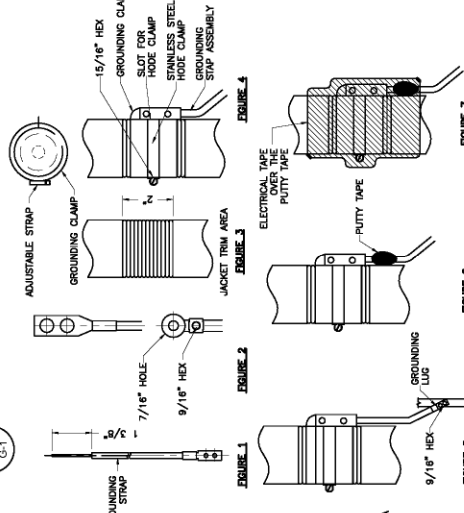
G-1

GROUNDING NOTES

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THIN/THIN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, WELDED METAL STRUCTURES, AND CONCRETE REINFORCING BARS SHALL BE MADE USING COPPER-BRAZED OR COPPER-PLATED WIRE. ALL GROUNDING WIRES ARE TO BE GALVANIZED SURFACES, SPRAY GAINED WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE (INCLUDING SPOKE SET). CLEAN GROUND BARS TO SHINY METAL AFTER MECHANICAL CONNECTION. TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- TO GROUNDING CONDUCTORS FOR GROUND BARS LOCATIONS, GROUNDING CONNECTIONS SHALL BE MADE USING COPPER-BRAZED OR COPPER-PLATED WIRE. ALL GROUNDING WIRES ARE TO BE GALVANIZED SURFACES, SPRAY GAINED WITH GALVANIZING PAINT.
- ALL GROUNDING LEADS EXCEPT THOSE TO THE EQUIPMENT, ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUNDING BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.), PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS. APPLY KOPR-SHIELD ON EQUAL REMOVAL. ALL PAINT IS TO BE REMOVED FROM CONNECTIONS BY FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDATION PAINT.

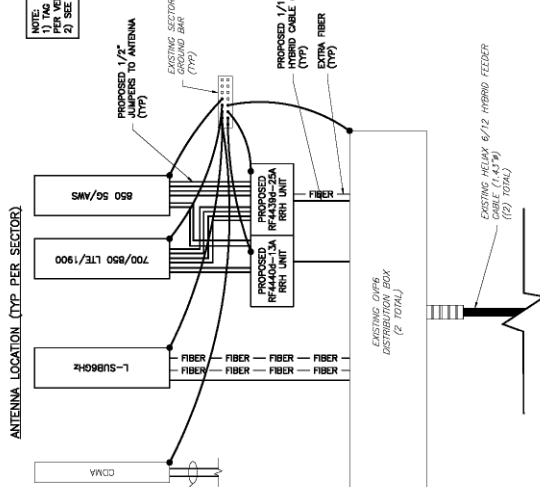


2 CADWELD GROUNDING CONNECTION DETAILS

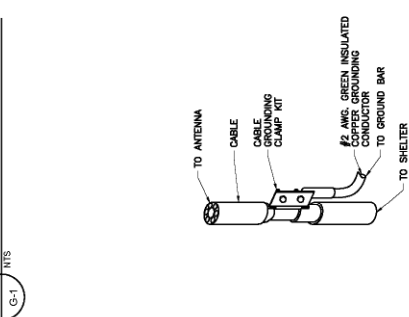


6 GROUNDING STRAP WEATHERPROOFING DETAIL

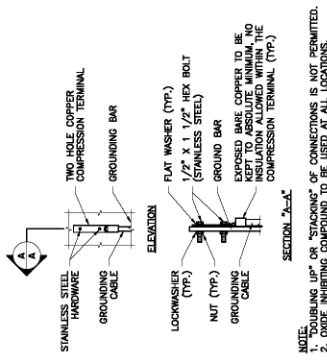
NOTE:
1) TAG ALL EXISTING AND PROPOSED CABLES/JUMPERS WITH IDENTIFICATION TAGS (ELECTRICAL ONLY).
2) SEE A-1 & A-2 FOR CABLE LENGTHS.



1 GROUNDING RISER DIAGRAM



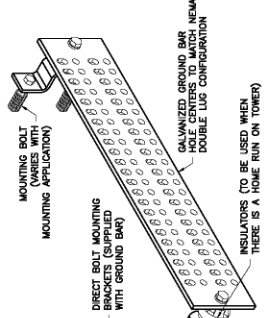
4 CABLE GROUNDING DETAIL



3 GROUND BAR CONNECTION DETAIL

NOTE:
1. "TOURNING UP" OR "STUCKING" OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

5 GROUND BAR DETAIL



GROUNDING STRAP WEATHERPROOFING DETAIL

POST-MODIFICATION INSPECTION (PMI) REQUIREMENT

1. PMI REQUIRED FOR ALL SITES, REFER TO VERIZON NSTD-446 SECTIONS 1.5 AND 2.3 FOR MORE INFORMATION.
2. REFER TO THE MOUNT ANALYSIS BY GPD ENGINEERING AND ARCHITECTURE PROFESSIONAL CORPORATION DATED 10/19/2021 FOR ADDITIONAL DETAILS.
3. GENERAL CONTRACTOR SHALL PROVIDE THE BELOW DOCUMENTATION TO THE ENGINEER OF RECORD VIA EMAIL TO vzwmounts@nbc.com, DROPBOX, OR OTHER FILESHARE METHOD. PROVIDE HIGH RESOLUTION PHOTOS (DO NOT COMPRESS).

4. ENGINEER OF RECORD WILL CONDUCT A REVIEW OF THE PROVIDED DOCUMENTS TO PREPARE A PMI REPORT. ENGINEER OF RECORD WILL NOTIFY GENERAL CONTRACTOR IF ANY ADDITIONAL DOCUMENTATION IS REQUIRED TO COMPLETE THE PMI.
5. PMI DOCUMENTATION SHALL BE SUFFICIENT TO CONFIRM THE UPGRADE WAS BUILT AS DESIGNED, INCLUDING EQUIPMENT CHANGES AND STRUCTURAL MODIFICATIONS, AND IS IN ADDITION TO ANY OTHER REQUIRED CLOSEOUT PACKAGE DOCUMENTATION.
6. REQUIRED DOCUMENTATION FOR PMI INCLUDES THE FOLLOWING AT A MINIMUM. REFER TO THE MOUNT ANALYSIS FOR POSSIBLE ADDITIONAL INFORMATION. IF STRUCTURAL MODIFICATIONS ARE REQUIRED, REFER TO THE MODIFICATION DRAWINGS FOR POSSIBLE ADDITIONAL REQUIREMENTS.

6A. PROVIDE PRE-AND-POST CONSTRUCTION PHOTOS OF EACH SECTOR FROM THE MOUNT ELEVATION AND THE GROUND. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PHOTOS PROVIDED PROVIDE POSITIVE CONFIRMATION THAT THE MODIFICATION/UPGRADE WAS COMPLETED IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS AND ANY STRUCTURAL/MOUNT MODIFICATION DRAWINGS. CONTRACTOR SHALL RELAY ANY DATA THAT CAN IMPACT THE PERFORMANCE OF THE MOUNT OR MOUNT MODIFICATION, INCLUDING SAFETY ISSUES. PHOTOS SHALL HAVE A DATE/TIME STAMP IN THE PHOTO. REFER TO THE MOUNT ANALYSIS FOR FILE STRUCTURE SCHEDULE OF PHOTOS. PROVIDE PHOTOS OF THE GATE SIGNS AND CARRIER SHELTER TO IDENTIFY THE TOWER OWNER, SITE NAME, SITE NUMBER, ETC.

6B. VERIFICATION OF THE MEMBER CONNECTIONS, BRACING, AND RELEVANT DIMENSIONS.

6C. VERIFICATION OF THE ANTENNA AND OTHER EQUIPMENT CONFIGURATION (PHOTOS OF MODEL NUMBERS/TAGS FOR ALL EQUIPMENT, AS WELL AS THE FEEDLINE CONFIGURATION). TAKE PHOTOS OF THE BACK SIDE OF EACH SECTOR AS WELL AS CLOSE-UPS OF ALL EQUIPMENT. PHOTOS SHOULD CONFIRM THE HORIZONTAL AND VERTICAL POSITIONING OF THE ANTENNAS AND EQUIPMENT AND SHALL HAVE TAPE MEASURES IN THE PHOTOS TO CONFIRM.

6D. FOR TIE-BACKS, STRUTS, MOUNT PIPES, PHOTOS TO CONFIRM THE ANGLES AND LOCATION OF ATTACHMENT POINT AT BOTH ENDS OF MEMBER, AS WELL AS DIMENSIONS, THICKNESS, AND LENGTHS OF THE MEMBERS. REFER TO THE CHECKLIST IN THE MOUNT ANALYSIS FOR ADDITIONAL INFORMATION.

6E. MOUNT ATTACHMENT TO THE SUPPORTING STRUCTURE, INCLUDING ANY KICKERS OR SUPPORTS, OR TIEBACKS.

6F. MATERIALS USED (TYPE, STRENGTH, DIMENSIONS, ETC). PROVIDE BILL OF MATERIALS AND MATERIAL SPEC TO CONFIRM MATERIAL GRADES AND SIZES. PROVIDE DOCUMENTATION FOR GALVANIZATION OF MEMBERS WHETHER HOT-DIPPED OR COLD-GALVANIZED. IF MATERIALS DIFFER FROM THOSE SPECIFIED ON THESE DRAWINGS, PROVIDE DOCUMENTATION THAT THE "EQUIVALENT" MATERIAL HAS THE SAME SPECIFICATIONS.

6G. MOUNT ORIENTATION/AZIMUTH AND ELEVATION. PROVIDE TAPE DROP PHOTOS OF ANTENNA CENTERLINE(S) AND MOUNT ATTACHMENT POINTS TO THE SUPPORTING STRUCTURE. IF THERE ARE MULTIPLE RAD CENTERS, PROVIDE PHOTOS OF ALL ELEVATIONS.

POST-MODIFICATION INSPECTION (PMI) REQUIREMENT CONT.

- 6H. VERIFICATION THAT THE INSTALL HAS NOT CAUSED DAMAGE TO OR UNPLANNED OBSTRUCTION OF THE FOLLOWING:
 - CLIMBING FACILITIES
 - SAFETY CLIMB IF PRESENT, INCLUDING PHOTOS ABOVE AND BELOW THE MOUNT.
 - LIGHTING SYSTEM
 - OTHER INSTALLED SYSTEMS ON THE STRUCTURE.
- CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS SUPPORTED AND NOT ADVERSELY AFFECTED BY THE INSTALLATION OF NEW COMPONENTS. THIS MAY INVOLVE THE INSTALLATION OF WIRE ROPE GUIDES OR OTHER ITEMS TO PROTECT THE WIRE ROPE.

6I. OTHER ITEMS DETERMINED BY THE STRUCTURAL ENGINEER TO ENSURE THE MOUNT WILL PERFORM AS DESIGNED. PHOTOS OF RELEVANT MEASUREMENTS, WITH SUFFICIENT DETAILS TO CONFIRM CONNECTION DETAILS, PLACEMENT OF EQUIPMENT, WALL ANCHOR DETAILS, BALLAST QUANTITIES, STRUCTURAL MODIFICATIONS ETC. DIAMETERS AND THICKNESSES OF BOLTS/THEADED RODS/ANGLES/TUBES ETC SHALL HAVE PHOTOS CONFIRMING CALIPER MEASUREMENTS.

- CONFIRMATION THAT ALL HARDWARE WAS PROPERLY INSTALLED, AND EXISTING HARDWARE WAS INSPECTED FOR ANY ISSUES.
- FOR BALLAST SLEDS, DOCUMENTATION OF THE WEIGHT OF BALLAST IN EACH SECTOR.
- FOR WALL ANCHORS, PHOTOS AND MEASUREMENTS OF OUTSIDE AND INSIDE OF CONNECTIONS. DOCUMENTATION OF ADHESIVE USED, SIZE AND LENGTH OF ANCHORS, EFFECTIVE EMBEDMENT DEPTH OF THE ANCHORS, GROUING OF HOLLOW WALLS, SPACING AND EDGE DISTANCE MEASUREMENTS, AND ANY THROUGH-BOLTS OR BACKING PLATES.
- FOR STUD WELD CONNECTIONS, DOCUMENTATION TO CONFIRM SURFACE PREPARATION, STUD WELD SIZE, GRADE, LENGTH, AND SPACING.
- FOR FABRICATED PARTS, SHOP DRAWINGS TO BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- FOR WELDED PARTS, CERTIFIED WELD INSPECTION.
- FOR BOLTED PARTS, BOLT INSTALLATION AND TORQUE.

7. CONTRACTOR SHALL PROVIDE, IN ADDITION TO THE ABOVE, AS-BUILT CDS WITH REDLINES IDENTIFYING ANY CHANGES. THE AS-BUILTS SHALL THE CONTRACTOR'S NAME, PREPARER'S SIGNATURE, AND DATE.

8. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED PMI"), THE CONTRACTOR SHALL WORK WITH THE ENGINEER OF RECORD TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

8A. CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENTAL PMI.

8B. OR, WITH THE EOR'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT/UPGRADE USING THE AS-BUILT CONDITION.

9. NOTE: IF LOADING IS DIFFERENT THAN THAT SHOWN IN THESE CONSTRUCTION DRAWINGS OR STRUCTURAL/MOUNT MODIFICATION DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY FOR RESOLUTION.

10. THE ENGINEERING FIRM PERFORMING AN ANALYSIS SHALL PROVIDE A CONTRACTOR'S PHOTO LOG AND CHECKLIST TO BE COMPLETED BY THE INSTALLING CONTRACTOR. THE CONTRACTOR SHALL THEN PROVIDE POST-INSTALLATION INFORMATION TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL REVIEW THE DOCUMENTS FOR ANY DEFICIENCIES THAT CAN BE DETERMINED FROM THE DESKTOP REVIEW OF THE DATA. THE ENGINEERING FIRM SHALL THEN PROVIDE DOCUMENTATION TO VZW THAT THE SITE IS COMPLETED, AND THE PMI REPORT IS APPROVED.



WILTON_WEST_CT
160 DEER RUN ROAD
WILTON, CT 06897
TOWN OF WILTON
FAIRFIELD COUNTY

REVISIONS			
NO.	DATE	DESCRIPTION	BY
0	09/02/22	FINAL CD	CHE



DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER, #34055

PMI REQUIREMENTS

GN-1

ENGINEER	APPLICANT	SITE INFORMATION	DESIGN RECORD	PROFESSIONAL STAMP	ENGINEER	SHEET TITLE	SHEET NUMBER
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WILTON WEST CT

SITE #: 467920

SMART TOOL PROJECT #: 10108062



MOUNT INFORMATION:

MOUNT TYPE: 10'-6" T-FRAME
 SITE LOCATION:
 LAT.: 41.241372°
 LONG.: -73.469889°
 STREET ADDRESS: 160 DEER RUN ROAD
 CITY, STATE ZIP: WILTON, CT 06897
 COUNTY: FAIRFIELD
 TOWER OWNER: SBA
 TOWER SITE NUMBER: CT98078

CODE COMPLIANCE:

GOVERNING CODES: TIA-222-H
 WIND SPEEDS: 116 MPH 3-SECOND GUST
 50 MPH 3-SECOND GUST (W/ ICE)
 ICE THICKNESS: 1"
 RISK CATEGORY: II
 EXPOSURE CATEGORY: B
 TOPO CATEGORY: 1
 SEISMIC CRITERIA:
 SITE CLASS: D
 RESPONSE COEFFICIENT (R): 2
 1-SECOND SPECTRAL RESPONSE ACCELERATION (S₁): 0.057
 SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (S_s): 0.243

PROJECT CONTACTS:

MASER CONSULTING CONTACT:
 PETER ALBANO
 PETER.ALBANO@COLLIERSENGINEERING.COM
 (856) 371-9457
 PROJECT #: 21777786

ENGINEER CONTACT:
 GPD ENGINEERING AND ARCHITECTURE
 PROFESSIONAL CORPORATION
 520 SOUTH MAIN STREET, SUITE 2531
 AKRON, OH 44311
 (330)572-2100
 FOR QUESTIONS PLEASE EMAIL:
 GPDMODS@GPDGROUP.COM

SHEET INDEX:

- T-01: TITLE SHEET
- N-01: PROJECT NOTES & INSPECTION CHECKLIST
- S-01: BILL OF MATERIALS
- S-02: CLIMBING FACILITY DETAIL
- S-03: MODIFICATION SCHEDULE & DETAILS
- S-04: DETAILS/PARTS
- P-01: MOUNT PHOTOS

CONTRACTOR PMI REQUIREMENTS:

PMI LOCATION: [HTTPS://PMI.VZWSMART.COM](https://pmi.vzwsmart.com)
 SMART TOOL PROJECT #: 10108062
 VZW LOCATION CODE (PSLC): 467920
 FUZE ID: 16092793

REFERENCED DOCUMENTS:

PASSING MOUNT ANALYSIS REPORT
 SMART TOOL PROJECT #: 10108062
 GPD PROJECT #: 2021740.467920.02
 ANALYSIS DATE: 10/19/2021

WILTON WEST CT
 160 DEER RUN ROAD
 WILTON, CT 06897

TITLE SHEET

ISSUED FOR	10/19/2021
PERMIT	10/19/2021
BID	
CONSTRUCTION	
RECORD	

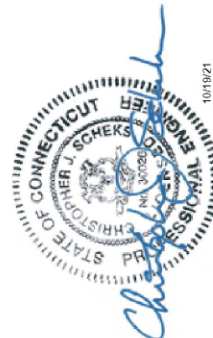
ENGINEER	DESIGNER
DATE	DATE
PROJECT NUMBER	APPROVED BY
DATE	DATE

JOB NO.
2021740.467920.02

T-01



REF	DATE	DESCRIPTION
0	10/19/21	FINAL RELEASE



BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT	WEIGHT
12	VZWSMART	VZWSMARTMSK1	CROSSOVER PLATE ASSEMBLY		14	168
1	SITE PRO 1	12U-2030317	SAFETY CLIMB UNIVERSAL STAND-OFF ASSEMBLY		2	2
3		8-0"FP2.5 STD PIPE	MOUNT PIPE	SEE PAGE N-01 FOR STEEL GRADE REQUIREMENTS.	46	138
3		7-3/4"FP2 STD PIPE	STABILIZER PIPE	FIELD VERIFY REQUIRED LENGTH - SEE PAGE N-01 FOR STEEL GRADE REQUIREMENTS.	27	81
TOTAL						380

OTHER REQUIRED KITS

VZWSMART KITS - APPROVED VENDORS	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 394-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT FRAMLEY
PHONE	(706) 335-7046 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-8173
EMAIL	WIRELESSALES@PERFECTVISION.COM
WEBSITE	WWW.PERFECTVISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-8937
EMAIL	AWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPROT.COM

NOTES:
 1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. THE MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGNED MODIFICATIONS. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.



DESIGN DRAWING PREPARED FOR
Verizon
 SMART TOOL PROJECT # 1010002
 WILTON WEST CT
 SITE # 49290

REV	DATE	DESCRIPTION
0	10/19/21	INITIAL RELEASE

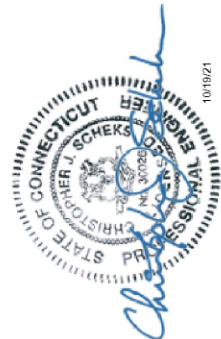
WILTON WEST CT
 160 DEER RUN ROAD
 WILTON, CT 06897

SUBJECT FOR	10/19/21
PERMIT	10/19/21
ISO	
CONSTRUCTION	
RECORD	

ENGINEER	DESIGNER
PROJECT MANAGER	APPROVED BY
DP	C/S

JOB NO
 2021740-467920.02

S-01



REV	DATE	DESCRIPTION
0	10/25/21	INITIAL RELEASE

WILTON WEST CT
 160 DEER RUN ROAD
 WILTON, CT 06897
CLIMBING FACILITY DETAIL

SUBJECT FOR PERMIT	10/19/21
ISSUED FOR	10/19/21
CONSTRUCTION RECORD	

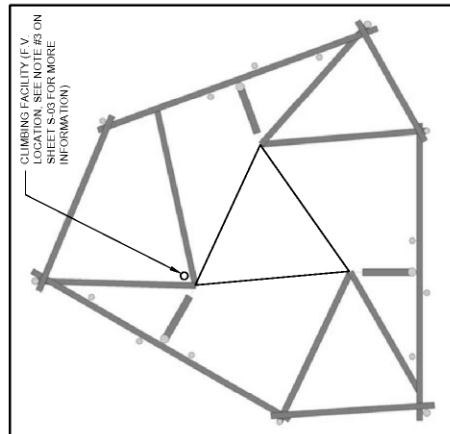
ENGINEER	DESIGNER
PROJECT MANAGER	APPROVED BY

JOB NO
 2021740-467920-02

S-02



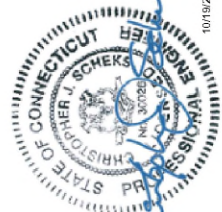
CLIMBING FACILITY PHOTO



CLIMBING FACILITY (V.V. LOCATION SEE NOTE #3 ON SHEET S-03 FOR MORE INFORMATION)

CLIMBING FACILITY LOCATION

- NOTES
- CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE CONNECTIONS AND SAFETY CLIMB WIRE ROPE. CONTRACTOR SHALL NOT CAUSE HARM TO THE STRUCTURE. CLIMBING FACILITY SHALL BE INSTALLED ON THE STRUCTURE. CONTRACTOR SHALL PROVIDE SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE OWNER (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCE.


Christopher J. Scheeks
 10/19/21

REV	DATE	DESCRIPTION
0	10/19/21	WFLM RELEASE

WILTON WEST CT
 160 DEER RUN ROAD
 WILTON, CT 06897

SUBJECT FOR	010/2021
PERMIT	
ISS	
CONSTRUCTION	
RECORD	

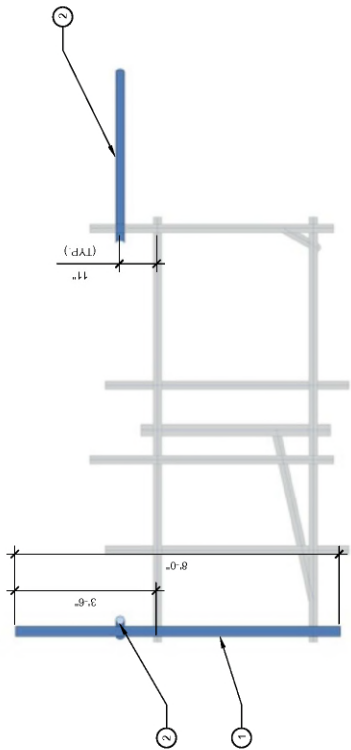
ENGINEER	DESIGNER
DATE	DATE
PROJECT MANAGER	APPROVED BY
DP	CLS

JOB NO
 2021740-467920.02

S-03

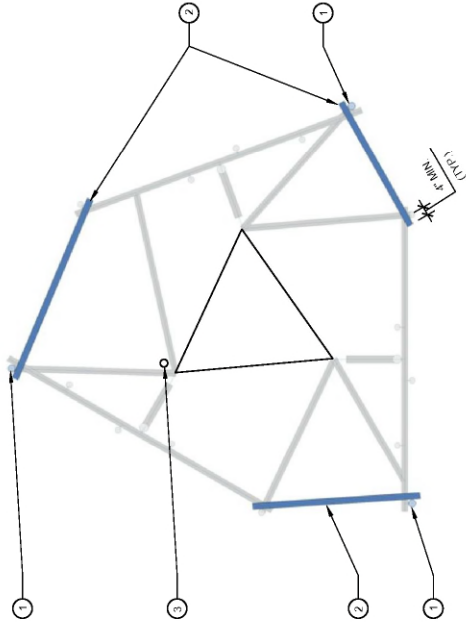
MOUNT MODIFICATION SCHEDULE			
NO.	ELEVATION	QUANTITY	DESCRIPTION
1		3	REPLACEMENT MOUNT PIPE (P2.5 STD)
2	96'-02"	3	PROPOSED STABILIZER PIPE (P2 STD)
3		1	SAFETY CLIMB UNIVERSAL STABILIZER PIPE (PART # 120-203317)

NOTES
 1. ANY SUBSTITUTION OF PARTS SPECIFIED IN THIS DESIGN PACKAGE SHALL REQUIRE ENGINEER APPROVAL PRIOR TO FABRICATION.
 2. ALL MATERIAL REMOVED FROM MOUNT SHALL BE DISPOSED OF BY CONTRACTOR ON SITE.
 3. ALL MATERIALS SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.

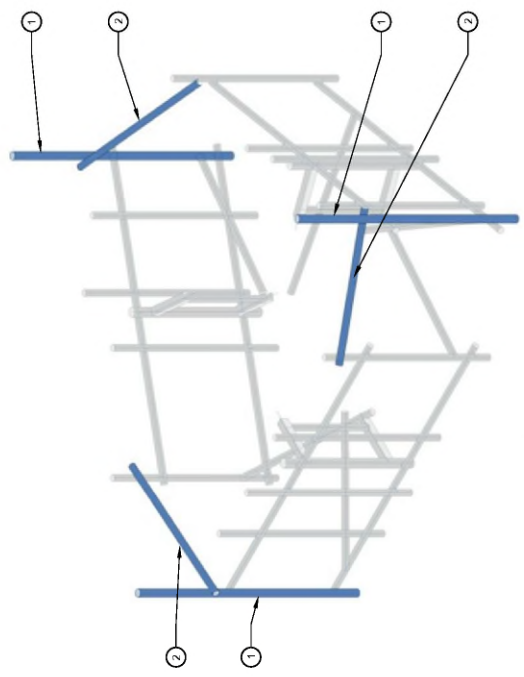


1 ELEVATION VIEW
 S-03

NOTE
 1. DETAIL IS TYPICAL FOR ALL THREE SECTORS. ONLY ONE SECTOR SHOWN FOR DETAIL CLARITY.



2 PLAN VIEW
 S-03



3 ISOMETRIC VIEW
 S-03

REV	DATE	DESCRIPTION
0	10/25/17	INITIAL RELEASE

WILTON WEST CT
 160 DEER RUN ROAD
 WILTON, CT 06897

SHEET FOR	10/25/2017
PERMIT	
END	
CONSTRUCTION	
RECORD	
DESIGNER	OSMAN
DRAWN	OSMAN
PROJECT MANAGER	APPROVED BY
DATE	DATE

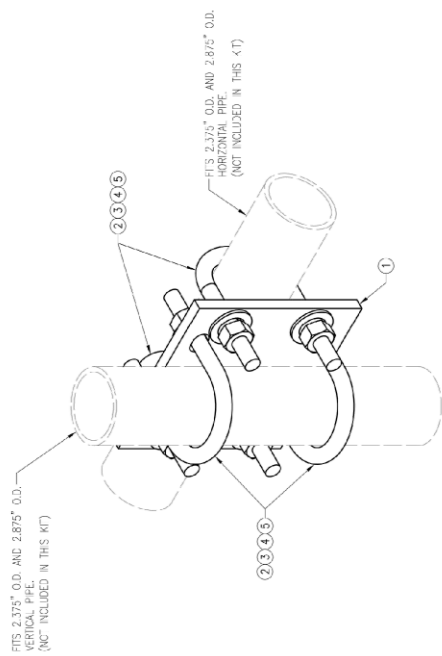
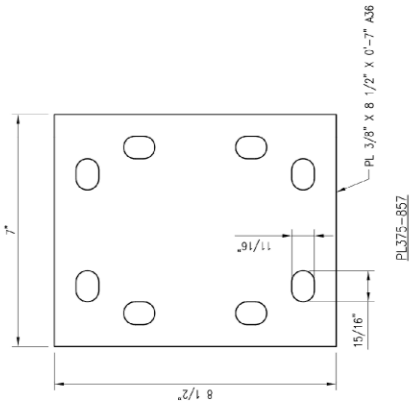
JOB NO
 2021740.467920.02

S-04

VzW
SMART Tool
Vendor
verizon

OWNER: ETHRIP	DESIGNED BY: AMA
REV: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____
DATE: _____	BY: _____ DATE: _____

SHEET TITLE	VZWSMART-MSK1 CROSSOVER PLATE
REV #	0
SHEET NUMBER	VZWSMART-MSK1



REFERENCE ONLY

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	1	PL375-857	PL 3/8" X 8 1/2" X 0"-7" A36	MSK1-1	6	
2	4	MS02-622-300-500	RL-BOLT 5/8" X 3" L.W. X 5" TL A36 (OR EQUV.)	REC-1	5	
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1	
4	8	LW-625	5/8" HDG LOCK WASHER	---	0	
5	8	NUT-625	5/8" HDG HEX NUT	---	1	
					GALVANIZED WT	14

NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.



DESIGN DRAWINGS
PREPARED FOR
WILTON WEST CT
SITE # 49220
SMART TOOL PROJECT # 1010002

VERIZON

REV	DATE	DESCRIPTION
0	10/9/21	INITIAL RELEASE

WILTON WEST CT
160 DEER RUN ROAD
WILTON, CT 06897

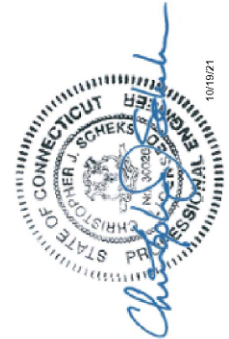
MOUNT PHOTOS

SUBJECT FOR PERMIT	10119221
END	
CONSTRUCTION RECORD	

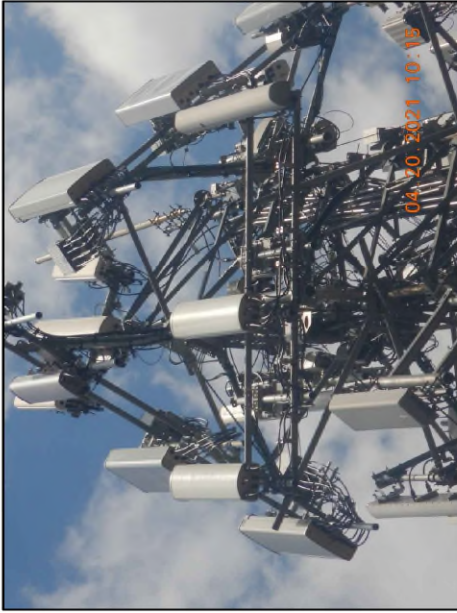
ENGINEER	DESIGNER
GAN	GAN
PROJECT MANAGER	APPROVED BY
DP	C/S

JOB NO
2021740-467920.02

P-01



10119221



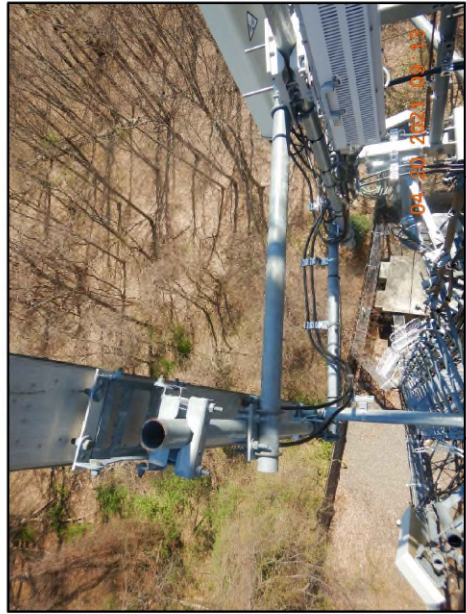
MOUNT PHOTO



MOUNT PHOTO



MOUNT PHOTO



MOUNT PHOTO

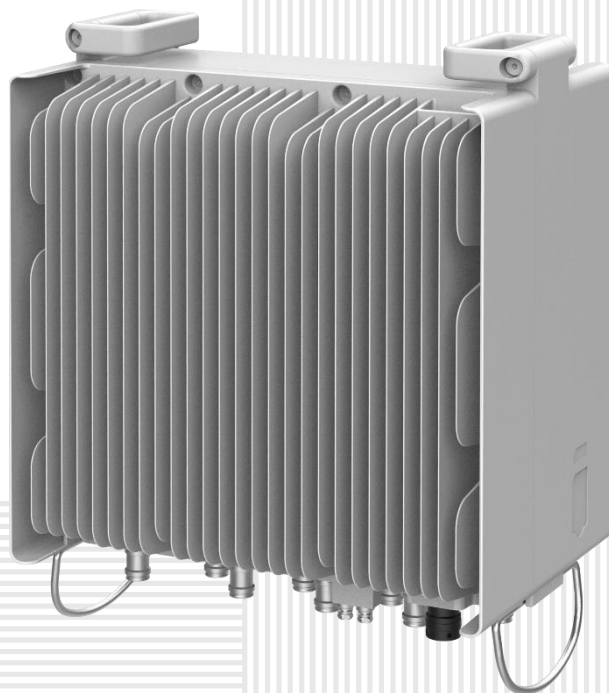
SAMSUNG

AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage
samsungnetworks.com

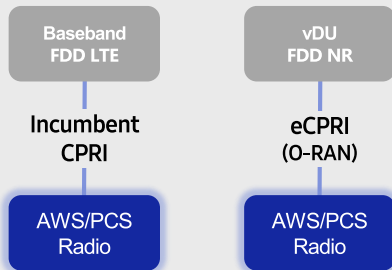


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

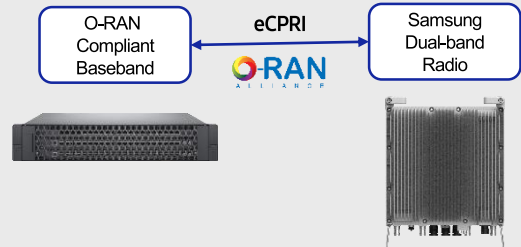
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

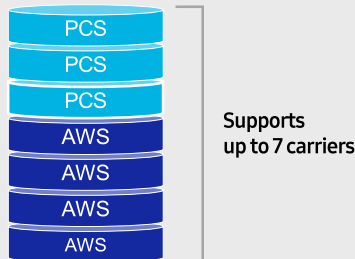
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

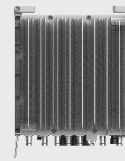
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



- 2 FH connectivity
- O-RAN capability
- More carriers and spectrum

Same as an incumbent radio volume

Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

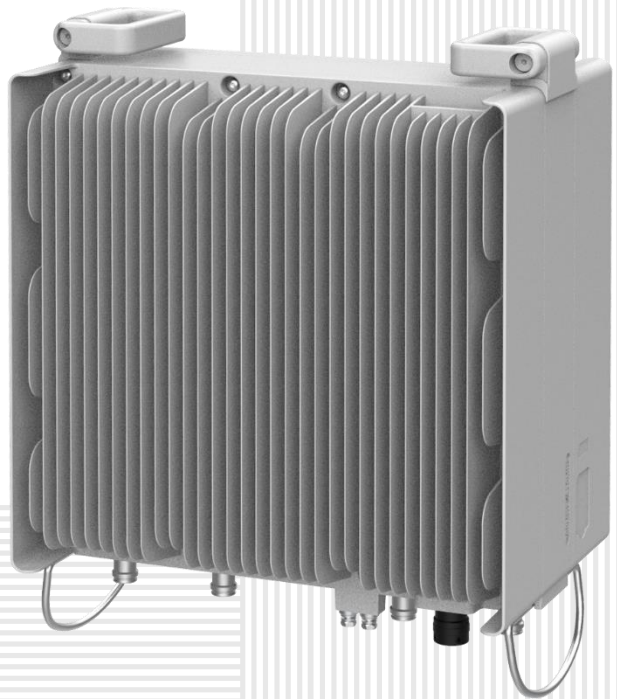
SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage
[samsungnetworks.com](https://www.samsungnetworks.com)

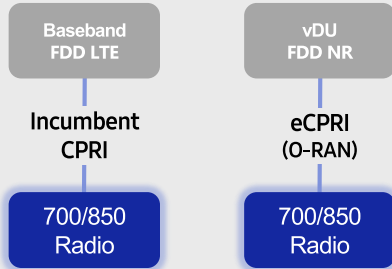


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

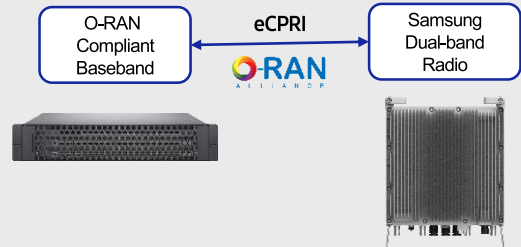
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

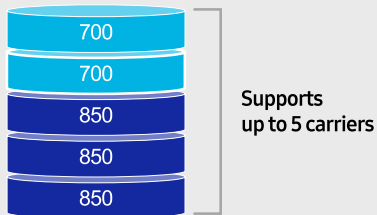
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

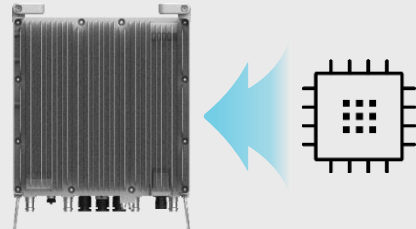
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

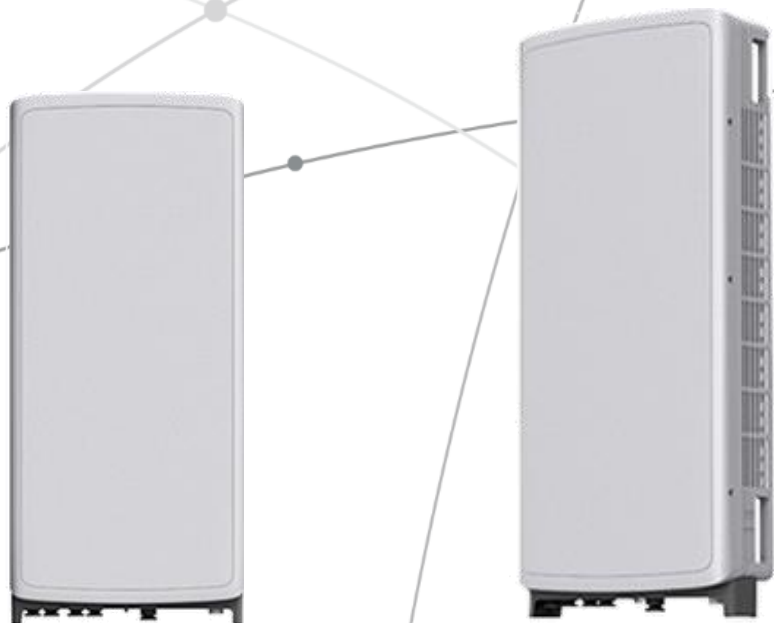
Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



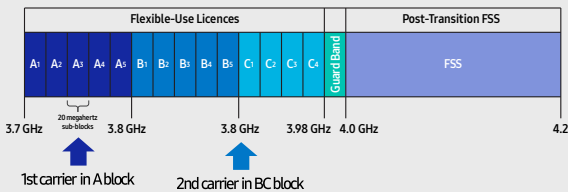
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

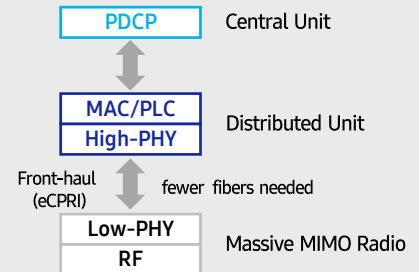
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

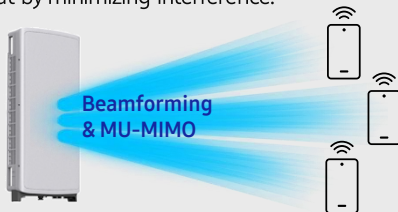


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

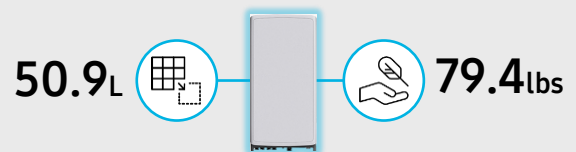
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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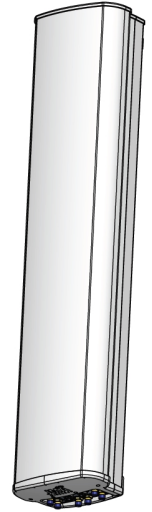
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 6 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs



NWAV™

Fast Roll-Off antennas increase data throughput without compromising coverage

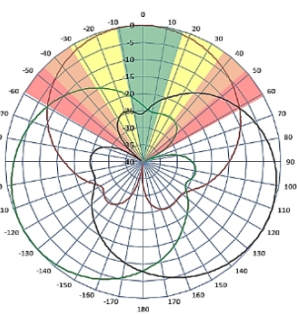
The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

Non-FRO antenna

Large traditional antenna pattern overlap creates harmful interference.

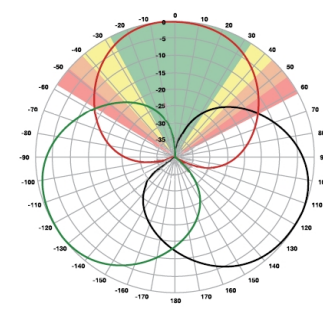
JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

JMA FRO antenna



LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

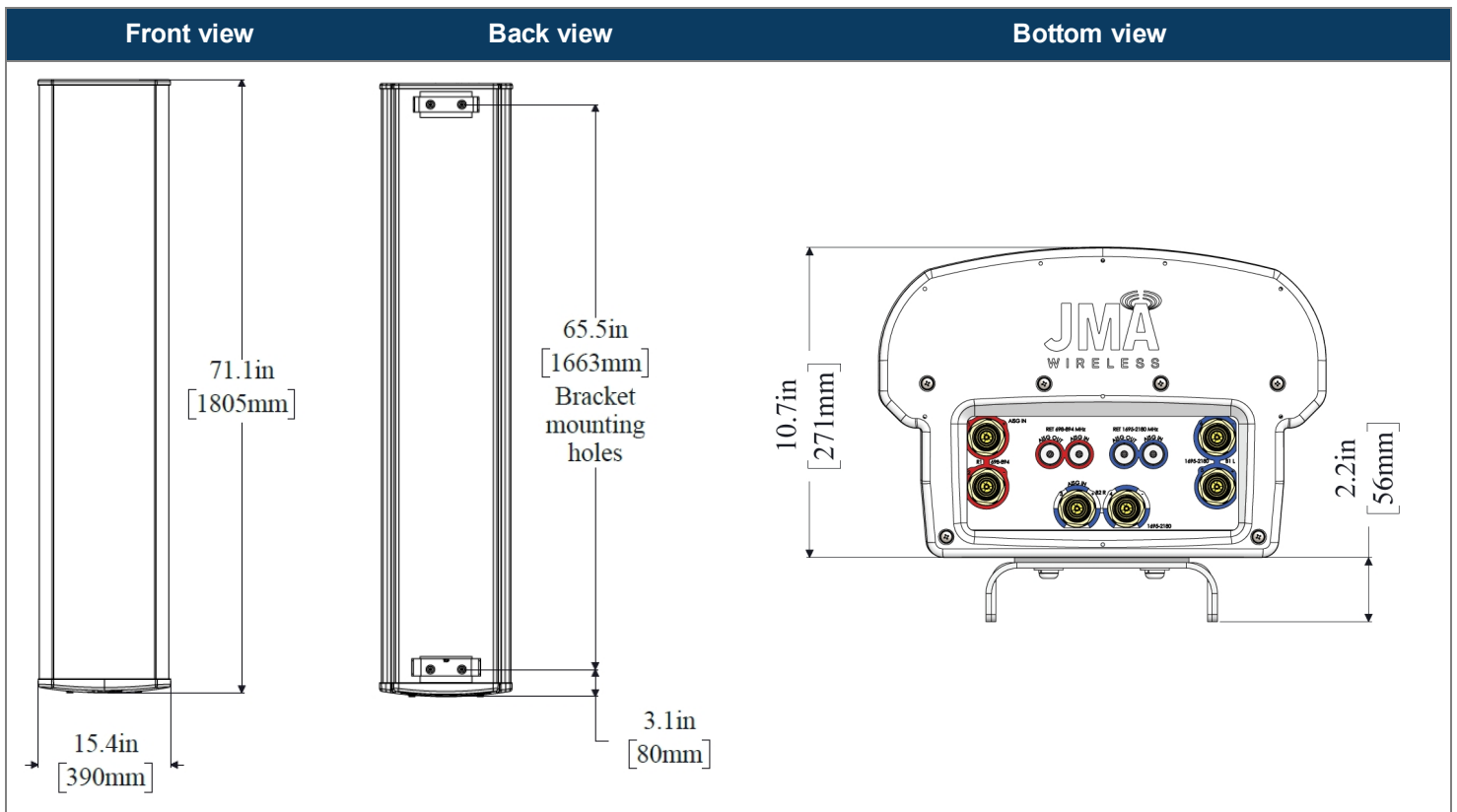
The LTE radio automatically selects the best throughput based on measured SINR.



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
	Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.0	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees	60.5	53.0	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>24	>24.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>15.0	>14.2	>18	>18	>15
Sector power ratio, percent	<3.5	<3.0	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees ¹	13.1	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤-15.0	≤-16.5	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB ¹	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

¹ Typical value over frequency and tilt

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf-in (10.85 N·m or 8 lbf-ft)
Net antenna weight, lb (kg)	60 (27.0)
Shipping weight, lb (kg)	90 (41.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.6



Ordering information	
Antenna model	Description
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

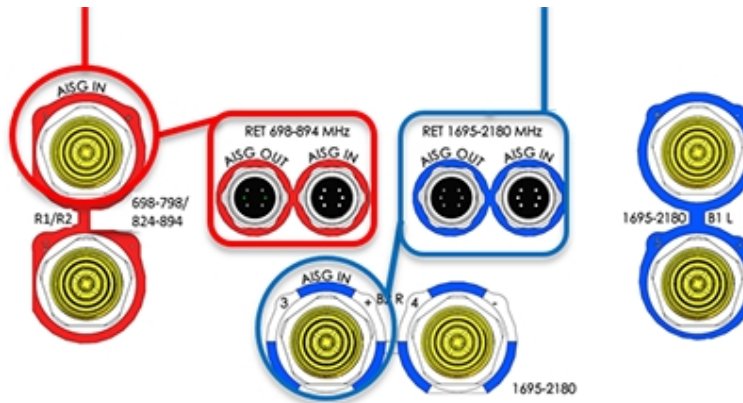
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:

RET device	Band	RF port
R1	698-798	1-2
R2	824-894	1-2

RET device	Band	RF port
B1/B2	1695-2180	3-6

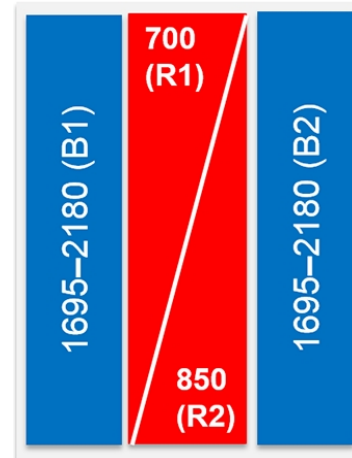


Array topology

3 sets of radiating arrays

R1/R2: 698-894 MHz
 B1: 1695-2180 MHz
 B2: 1695-2180 MHz

Band	RF port
1695-2180	3-4
698-894	1-2
1695-2180	5-6



ATTACHMENT 3

	General	Power	Density						
Site Name: Wilton W									
Tower Height: Verizon @ 98ft									
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.EXP.	FRACTION MPE	Total	
*AT&T - UMTS	1	546	110	850	0.018153902	0.566666667	0.00320363		
*AT&T - UMTS	2	1992	110	700	0.132463637	0.466666667	0.028385065		
*AT&T - UMTS LTE	4	2450	110	700	0.325839268	0.466666667	0.0698227		
*AT&T - UMTS LTE	4	3541	110	850	0.470937489	0.566666667	0.083106616		
*AT&T - UMTS 5G	4	3541	110	850	0.470937489	0.566666667	0.083106616		
*AT&T - UMTS LTE	4	6013	110	1900	0.79970266	1	0.079970266		
*T-Mobile	1	6444	118	2500	0.184741094	1	0.018474109		
*T-Mobile	1	6444	118	2500	0.184741094	1	0.018474109		
*T-Mobile	2	592	118	600	0.033943739	0.4	0.008485935		
*T-Mobile	1	1578	118	600	0.045239206	0.4	0.011309802		
*T-Mobile	2	695	118	700	0.039849491	0.466666667	0.008539177		
*T-Mobile	2	2105	118	1900	0.120695221	1	0.012069522		
*T-Mobile	2	1325	118	2100	0.075972051	1	0.007597205		
*T-Mobile	4	1029	118	1900	0.118000363	1	1.18%		
*T-Mobile	2	2057	118	1900	0.117943026	1	1.18%		
*T-Mobile	2	2308	118	2100	0.132334713	1	1.32%		
*Sprint	12	100	88	851	0.064179683	0.567333333	1.13%		
*Existing various antennas	field readings measured on March 16, 2006)							3.30%	
VZW 700	4	582	98	751	0.0087	0.5007	1.74%		
VZW CDMA	2	499	98	876.03	0.0037	0.5840	0.64%		
VZW Cellular	4	582	98	874	0.0087	0.5827	1.50%		
VZW PCS	4	1399	98	1980	0.0210	1.0000	2.10%		
VZW AWS	4	1570	98	2120	0.0235	1.0000	2.35%		
VZW CBRS	4	0	98	3625	0.0000	1.0000	0.00%		
VZW CBAND	2	19770	98	3730.08	0.1481	1.0000	14.81%		
								74.50%	
* Source: Siting Council									

ATTACHMENT 4

**Structural Analysis for
SBA Network Services, Inc.**

120.0' Self-Support Tower (120.0' AGL)

**SBA Site Name: Wilton, CT / Optasite
SBA Site ID: CT98078-L-03
Verizon Wireless Site Name: WILTON_WEST_CT
Verizon Wireless Site ID: 467920
Site Address: 160 Deer Run Rd, Wilton, CT 06897**

FDH Infrastructure Services, LLC Project Number PR-007866

Analysis Results


Tower Components	82.1%	Sufficient
Foundation	36.1%	Sufficient

Prepared By:



Deepak Reddy Devulapally, EIT
Project Engineer II

Reviewed By:



Krystyn M. Perez, PE
Vice President, Structural Engineering
CT License No. 32975

FDH Infrastructure Services, LLC

6521 Meridien Drive
Raleigh, NC, 27616
(919) 755-1012
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March 14, 2022



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EXECUTIVE SUMMARY

At the request of SBA Network Services, Inc., FDH Infrastructure Services, LLC performed a structural analysis of the existing Self-Support Tower located in Wilton, CT to determine whether the tower is structurally adequate to support the antenna configuration in place per **Table 1** pursuant to the *ANSI/TIA-222-G Structural Standard for Antenna Supporting Structures and Antennas and the 2018 Connecticut State Building Code*. Information pertaining to the antenna loading, current tower geometry, member sizes, and below grade parameters was obtained from:

Source	Document Type	Reference	Date
World Tower	Tower & Foundation Drawings	Drawing No. Q06515	October 16, 2006
JGI Eastern, Inc.	Geotechnical Report	Project No. 06517G	August 31, 2006
FDH Infrastructure Services, LLC	Tower Mapping Report	Project No. 18TBQN1500	December 12, 2018
FDH Infrastructure Services, LLC	Previous Structural Analysis	Project No. PR-005254	February 11, 2021
Verizon Wireless	Collocation Application	App ID: 188280 [Version 2]	February 21, 2022
SBA Network Services, Inc.			

This analysis has been performed in accordance with the *2018 Connecticut State Building Code* based upon an *ultimate 3-second gust wind speed* of 120 mph without ice converted to a *nominal 3-second gust wind speed* of 93 mph without ice per *Section 1609.3 and Appendix N* as required for use in the *TIA-222-G Standard per Exception #5 of Section 1609.1.1*. A *basic design wind speed* of 50 mph with 3/4" radial ice was used in this analysis. Ice is considered to increase with height. Exposure Category B with a maximum topographic factor, K_{zt} , of 1, Risk Category II, and Spectral Response Accelerations of $S_s=0.231$ and $S_1=0.068$ were used in this analysis.

Note: Per *Section 2.7.3* of the *ANSI/TIA-222-G Standard*, the seismic/earthquake loading effects can be ignored if the spectral response acceleration at short periods (S_s) is less than or equal to 1.00. The tower's location mandates a design S_s of less than 1.00, thus seismic loading was not considered as part of the analysis of this structure.

Conclusions

With the antenna configuration in place per **Table 1** we have determined the tower stress level to be sufficient and the foundation(s) to be sufficient pursuant to the requirements stipulated by *ANSI/TIA-222-G Structural Standard for Antenna Supporting Structures and Antennas and the 2018 Connecticut State Building Code* provided the **Recommendations** listed below are satisfied. For a more detailed description of the analysis of the tower, see the **Results** section of this report.

Our structural analysis has been performed assuming all information provided to FDH Infrastructure Services, LLC is accurate (i.e., the structure member information, tower layout, existing antenna loading, and proposed antenna loading) and that the tower has been properly erected and maintained per the original design drawings.

Recommendations

To ensure the requirements of the current analysis standards are met with the antenna configuration in place per **Table 1**, we have the following recommendations:

1. Feed lines to be installed as shown in **Figure 1** in the **Appendix**.
2. RRU/RRH Stipulation: The equipment may be installed in any arrangement as determined by the client.

APPURTENANCE LISTING

The antennas and equipment, with their corresponding feed lines, considered for this analysis are shown in **Table 1**. If the actual layout determined in the field deviates from the layout, FDH Infrastructure Services, LLC should be contacted to perform a revised analysis.

Table 1 - Appurtenance Loading

Existing Loading:

Antenna Elevation (ft)	Description	Feed Lines	Carrier	Mount Elevation (ft)	Mount Type
126.5	(2) 3" Ø x 12' Omni	(2) 7/8"	---	122.0	(3) 2.4" Ø x 7' Pipe Mounts
118.0	(3) Ericsson AIR6449 B41 (3) Ericsson AIR32 KRD901146-1_B66A_B2A (Octo) (3) RFS APXVAALL24-43-U-NA20 (3) Commscope SDX1926Q-43 (E14F05P86) (3) Ericsson KRY 112 71 (3) Ericsson Radio 4449 B71+B85 (3) Ericsson Radio 4415 B25	(7) 1-5/8" (6) Fiber	T-Mobile	118.0	(3) Sector Mounts [Sitepro1 P/N: VFA12-HD]
110.0	(3) Powerwave 7770 (3) Kathrein 800-10965 (3) Powerwave P65-16-XLH-RR (3) CCI OPA65R-BU6DA (6) Powerwave LGP 21401 (3) Powerwave TT19-08BP111-001 (3) Ericsson RRUS-11 (3) Ericsson RRUS 4478 B5 (3) Ericsson RRUS 4415 B25 (3) Ericsson RRUS 4478 B14 (2) Raycap DC6-48-60-18-8F	(12) 1-5/8" (4) 3/4" DC (2) 3/8" Fiber (2) 3/8" Alarm Cables (1) 3" Flex	AT&T	110.0	(3) 12' Sector Mounts [Sabre P/N: C10857001C]
98.0	(2) Raycap RC2DC-3315-PF48 (3) Alcatel Lucent B66A RRH4x45 (6) Andrew SBNHH-1D85B (6) RFS FDR6004 (3) RFS BXA-80090/8 (3) Alcatel Lucent B13 RRH4x30-4R	(12) 1-5/8" (2) 1-5/8" Hybrid	Verizon	96.5	(3) 10'x2' T-Frames
86.0	(3) 60"x12"x4.5" Panels	(9) 1-5/8" (2) 1-1/2"	Sprint	86.0	(3) 2.7' Stand-Offs
57.0	(1) Scala PR-850 (1) Scala PR-850	(1) 7/8"		57.0	Direct
51.0	(1) Scala PR-850	(2) 7/8"		55.0	(1) 1.9"x9.8' Pipe Mount

Proposed Carrier Final Loading:

Antenna Elevation (ft)	Description	Feed Lines	Carrier	Mount Elevation (ft)	Mount Type
98.0	(3) RFS BXA-80090/8 (6) JMA MX06FRO660-03 (3) Samsung MT6407-77A (3) Samsung RF4440d-13A (3) Samsung RF4439d-25A (2) Raycap RRFDC-3315-PF-48	(6) 1-5/8" (2) Hybrid	Verizon	96.5	(3) 10'x2' T-Frames

RESULTS

The following material grades for individual members were used for analysis:

Table 2 - Material Grade

Member Type	Material Grade
Legs	A572-50
Bracing	A36
Anchor Rods	A449

Table 3 and **Table 4** display the summary of capacities for the analyzed structure and its additional components. Values greater than 100% indicate locations where the maximum force in the member exceeds its capacity. **Table 5** displays the maximum dish rotations at service winds speeds.

If the assumptions outlined in this report differ from actual field conditions, FDH Infrastructure Services, LLC should be contacted to perform a revised analysis. Furthermore, as no information pertaining to the allowable twist and sway requirements for the appurtenances was provided, deflection and rotation were not taken into consideration when performing this analysis.

See the **Appendix** for detailed modeling information.

Table 3 - Structure Member Capacities

Section No.	Elevation (ft.)	Component Type	Size	% Capacity	Pass / Fail
T1	120 - 100	Leg	1 3/4	71.2	Pass
T2	100 - 80	Leg	2 1/2	61.8	Pass
T3	80 - 60	Leg	2 3/4	68.5	Pass
T4	60 - 40	Leg	3	70.2	Pass
T5	40 - 20	Leg	3 1/4	68.1	Pass
T6	20 - 0	Leg	3 1/2	64.2	Pass
T1	120 - 100	Diagonal	L2x2x3/16	28.2 43.9 (b)	Pass
T2	100 - 80	Diagonal	L2x2x3/16	52.9 82.1 (b)	Pass
T3	80 - 60	Diagonal	L2x2x3/16	39.9 52.8 (b)	Pass
T4	60 - 40	Diagonal	L2x2x3/16	59.3	Pass
T5	40 - 20	Diagonal	L3x3x1/4	37.6 51.9 (b)	Pass
T6	20 - 0	Diagonal	L3x3x1/4	42.7 49.8 (b)	Pass
T5	40 - 20	Secondary Horizontal	L2x2x1/8	57.5	Pass
T6	20 - 0	Secondary Horizontal	L2x2x1/8	80.1	Pass
T1	120 - 100	Top Girt	L2x2x1/8	10.4 10.9 (b)	Pass
T3	80 - 60	Top Girt	L2x2x1/8	39.1 41.8 (b)	Pass

Table 4 – Additional Structure Component Capacities

Elevation (ft.)	Component	% Capacity	Pass / Fail	Notes
0	Anchor Rods	65.6	Pass	-
0	Base Foundation (Soil Interaction)	36.1	Pass	-
0	Base Foundation (Structural)	32.5	Pass	-

Table 5 - Maximum Dish Rotations at Service Wind Speeds

Centerline Elevation (ft.)	Dish	Tilt (deg)*	Twist (deg)*
57.0	(2) Scala PR-850	0.0970	0.0195
51.0	(1) Scala PR-850	0.0852	0.0158

*Allowable tilt and twist to be reviewed by the carrier

GENERAL COMMENTS

This engineering analysis is based upon the theoretical capacity of the structure. It is not a condition assessment of the tower and its foundation. It is the responsibility of SBA Network Services, Inc. to verify that the tower modeled and analyzed is the correct structure (with accurate antenna loading information) modeled. If there are substantial modifications to be made or the assumptions made in this analysis are not accurate, FDH Infrastructure Services, LLC should be notified immediately to perform a revised analysis.

LIMITATIONS

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of FDH Infrastructure Services, LLC.

APPENDIX

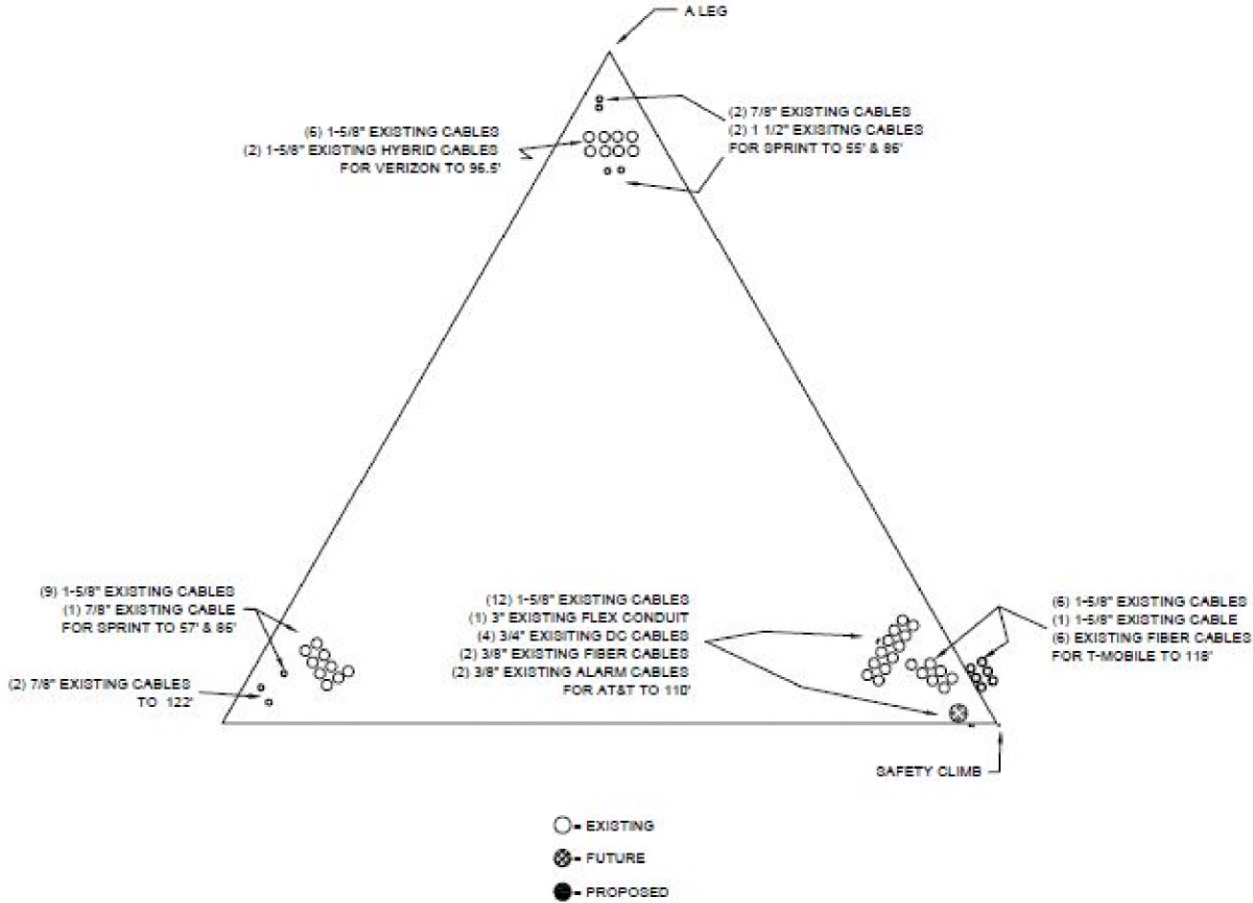


Figure 1- Feed Line Layout

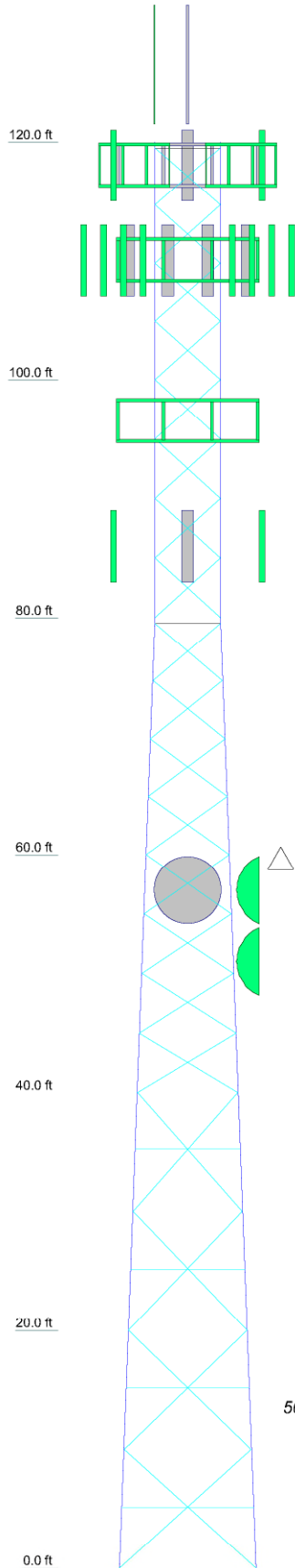
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-G Standard.
3. Tower designed for a 93 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 82.1%

Section	T1	T2	T3	T4	T5	T6
Legs	SR 1 3/4	SR 2 1/2	SR 2 3/4	SR 3	SR 3 1/4	SR 3 1/2
Leg Grade	A572-50					
Diagonals	L2x2x3/16					
Diagonal Grade	A36					
Top Girts	L2x2x1/8					
Sec. Horizontals	N.A.					
Face Width (ft)	7					
# Panels @ (ft)	4 @ 4.875					
Weight (K)	0.9					



ALL REACTIONS
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 199 K
SHEAR: 15 K

UPLIFT: -172 K
SHEAR: 13 K

AXIAL
86 K
SHEAR
7 K
MOMENT
623 kip-ft
TORQUE 5 kip-ft
50 mph WIND - 0.7500 in ICE

AXIAL
35 K
SHEAR
24 K
MOMENT
1866 kip-ft
TORQUE 14 kip-ft
REACTIONS - 93 mph WIND

FDH Infrastructure Services
 6521 Meridian Drive
 Raleigh, North Carolina 27616
 Phone: (919) 755-1012
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Job: **CT98078-L, Wilton, CT/Optasite**
 Project: **PR-007866**
 Client: SBA Network Services, Inc. Drawn by: Deepak Devulapally App'd:
 Code: TIA-222-G Date: 03/14/22 Scale: NTS
 Path: Dwg No. E-1

DESIGNED APPURTENANCE LOADING

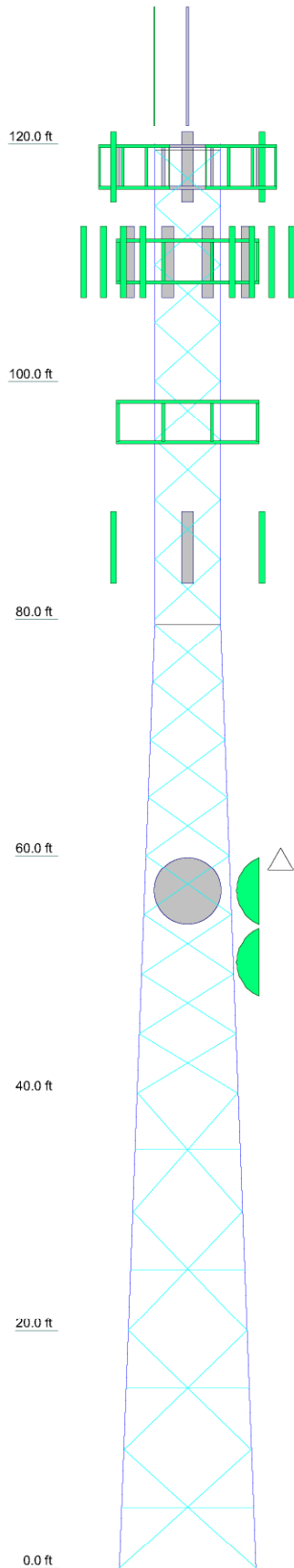
TYPE	ELEVATION	TYPE	ELEVATION
3"x12' Omni	122	P65-16-XLH-RR w/ Mount Pipe	110
3"x12' Omni	122	P65-16-XLH-RR w/ Mount Pipe	110
2.4" x 7' Pipe Mount	122	P65-16-XLH-RR w/ Mount Pipe	110
2.4" x 7' Pipe Mount	122	(2) LGP21401 TMA	110
2.4" x 7' Pipe Mount	122	(2) LGP21401 TMA	110
Lightning Rod	120	(2) LGP21401 TMA	110
Air 6449 B41 w/ Pipe Mount	118	TT19-08BP111-001	110
Air 6449 B41 w/ Pipe Mount	118	TT19-08BP111-001	110
Air 6449 B41 w/ Pipe Mount	118	TT19-08BP111-001	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	118	RRUS-11	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4478 B5	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4478 B5	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4478 B5	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4415 B25	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4415 B25	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	RRUS 4415 B25	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	DC6-48-60-18-8F	110
APXVAALL24_43-U-NA20 w/ Mount Pipe	118	DC6-48-60-18-8F	110
4449 B71 + B85	118	(3) 12' Sector Mounts [Sabre C1085/001C]	110
4449 B71 + B85	118	MT6407-77A w/Mount Pipe	96.5
4449 B71 + B85	118	MT6407-77A w/Mount Pipe	96.5
4415 B25	118	MT6407-77A w/Mount Pipe	96.5
4415 B25	118	MT6407-77A w/Mount Pipe	96.5
4415 B25	118	(2) MX06FRO660-03_TIA w/ Mount Pipe	96.5
SDX1926Q-43	118	(2) MX06FRO660-03_TIA w/ Mount Pipe	96.5
SDX1926Q-43	118	(2) MX06FRO660-03_TIA w/ Mount Pipe	96.5
SDX1926Q-43	118	(2) MX06FRO660-03_TIA w/ Mount Pipe	96.5
KRY 112 71	118	BXA-80090/8 w/ Mount Pipe	96.5
KRY 112 71	118	BXA-80090/8 w/ Mount Pipe	96.5
KRY 112 71	118	BXA-80090/8 w/ Mount Pipe	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	RF4439d-25A	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	RF4439d-25A	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	RF4439d-25A	96.5
Sector Frame (SitePro 1 P/N: VFA12-HD)	118	RF4440d-13A	96.5
OPA65R-BU6DA w/ Mount Pipe	110	RF4440d-13A	96.5
OPA65R-BU6DA w/ Mount Pipe	110	RF4440d-13A	96.5
OPA65R-BU6DA w/ Mount Pipe	110	RRFDC-3315-PF-48	96.5
RRUS 4478 B14	110	RRFDC-3315-PF-48	96.5
RRUS 4478 B14	110	(3) 10' x 2' T-Arms	96.5
RRUS 4478 B14	110	60" x 12" x 5" w/ Mount Pipe	86
7770 w/Mount Pipe	110	60" x 12" x 5" w/ Mount Pipe	86
7770 w/Mount Pipe	110	60" x 12" x 5" w/ Mount Pipe	86
7770 w/Mount Pipe	110	(3) 2.7' StandOffs	86
800 10965 w/ Mount Pipe	110	PR-850	57
800 10965 w/ Mount Pipe	110	1.9"Ø x 9.8' Pipe Mount	55
800 10965 w/ Mount Pipe	110	PR-850	55
800 10965 w/ Mount Pipe	110	PR-850	55

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-G Standard.
3. Tower designed for a 93 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft



Section	T1	T2	T3	T4	T5	T6
Legs	SR 1 3/4	SR 2 1/2	SR 2 3/4	SR 3	SR 3 1/4	SR 3 1/2
Diagonals	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16	L2x2x3/16
Diagonal Grade	A36	A36	A36	A36	A36	A36
Top Girts	L2x2x1/8	N.A.	L2x2x1/8	N.A.	N.A.	N.A.
Sec. Horizontals	L2x2x1/8	N.A.	L2x2x1/8	N.A.	N.A.	N.A.
Face Width (ft)	5.5	5.5	5.5	7	8.5	10
# Panels @ (ft)	4 @ 4.875	4 @ 5	4 @ 4.875	4 @ 5	4 @ 5	4 @ 10
Weight (K)	0.9	1.4	1.7	2.0	2.6	2.9

<p>FDH Infrastructure Services ENGINEERING INNOVATION FDH-IS</p>	<p>Job: CT98078-L, Wilton, CT/Optasite</p>	
	<p>6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031</p>	<p>Project: PR-007866</p> <p>Client: SBA Network Services, Inc. Drawn by: Deepak Devulapally</p> <p>Code: TIA-222-G Date: 03/14/22</p> <p>Path:</p>

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job CT98078-L, Wilton, CT/Optasite	Page 1 of 41
	Project PR-007866	Date 14:05:16 03/14/22
	Client SBA Network Services, Inc.	Designed by Deepak Devulapally

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 120.00 ft above the ground line.

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

The face width of the tower is 5.50 ft at the top and 11.50 ft at the base.

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

The following design criteria apply:

Tower is located in Fairfield County, Connecticut.

ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).

Basic wind speed of 93 mph.

Structure Class II.

Exposure Category B.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

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

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

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

Pressures are calculated at each section.

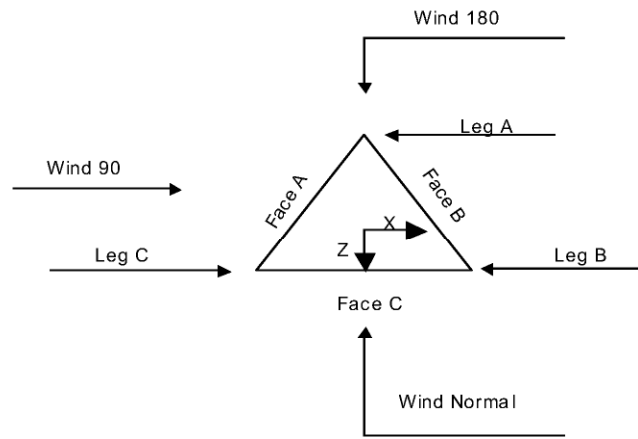
Stress ratio used in tower member design is 1.

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

Options

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-G Bracing Resist. Exemption
√ Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Use TIA-222-G 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

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job CT98078-L, Wilton, CT/Optasite	Page 2 of 41
	Project PR-007866	Date 14:05:16 03/14/22
	Client SBA Network Services, Inc.	Designed by Deepak Devulapally



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	120.00-100.00			5.50	1	20.00
T2	100.00-80.00			5.50	1	20.00
T3	80.00-60.00			5.50	1	20.00
T4	60.00-40.00			7.00	1	20.00
T5	40.00-20.00			8.50	1	20.00
T6	20.00-0.00			10.00	1	20.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	120.00-100.00	4.88	X Brace	No	No	6.0000	0.0000
T2	100.00-80.00	5.00	X Brace	No	No	0.0000	0.0000
T3	80.00-60.00	4.88	X Brace	No	No	6.0000	0.0000
T4	60.00-40.00	5.00	X Brace	No	No	0.0000	0.0000
T5	40.00-20.00	10.00	X Brace	No	Yes	0.0000	0.0000
T6	20.00-0.00	10.00	X Brace	No	Yes	0.0000	0.0000

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Tower Section Geometry (cont'd)

Tower Elevation <i>ft</i>	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 120.00-100.00	Solid Round	1 3/4	A572-50 (50 ksi)	Equal Angle	L2x2x3/16	A36 (36 ksi)
T2 100.00-80.00	Solid Round	2 1/2	A572-50 (50 ksi)	Equal Angle	L2x2x3/16	A36 (36 ksi)
T3 80.00-60.00	Solid Round	2 3/4	A572-50 (50 ksi)	Equal Angle	L2x2x3/16	A36 (36 ksi)
T4 60.00-40.00	Solid Round	3	A572-50 (50 ksi)	Equal Angle	L2x2x3/16	A36 (36 ksi)
T5 40.00-20.00	Solid Round	3 1/4	A572-50 (50 ksi)	Equal Angle	L3x3x1/4	A36 (36 ksi)
T6 20.00-0.00	Solid Round	3 1/2	A572-50 (50 ksi)	Equal Angle	L3x3x1/4	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation <i>ft</i>	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 120.00-100.00	Equal Angle	L2x2x1/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T3 80.00-60.00	Equal Angle	L2x2x1/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation <i>ft</i>	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T5 40.00-20.00	Equal Angle	L2x2x1/8	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)
T6 20.00-0.00	Equal Angle	L2x2x1/8	A36 (36 ksi)	Solid Round		A572-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation <i>ft</i>	Gusset Area (per face) <i>ft²</i>	Gusset Thickness <i>in</i>	Gusset Grade	Adjust. Factor <i>A_f</i>	Adjust. Factor <i>A_r</i>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals <i>in</i>	Double Angle Stitch Bolt Spacing Horizontals <i>in</i>	Double Angle Stitch Bolt Spacing Redundants <i>in</i>
120.00-100.00 T1	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000	36.0000
T2	0.00	0.0000	A36	1	1	1	36.0000	36.0000	36.0000

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Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 120.00-100.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T2 100.00-80.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 80.00-60.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 60.00-40.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 40.00-20.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 20.00-0.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg Bolt Size in	Leg No.	Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
				Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 120.00-100.00	Flange	0.7500	4	0.6250	1	0.3750	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T2 100.00-80.00	Flange	0.7500	4	0.6250	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T3 80.00-60.00	Flange	1.0000	4	0.6250	1	0.3750	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T4 60.00-40.00	Flange	1.0000	4	0.6250	1	0.6250	0	0.0000	0	0.6250	0	0.6250	0	0.6250	0
T5 40.00-20.00	Flange	1.0000	6	0.6250	1	0.6250	0	0.0000	0	0.6250	0	0.6250	1	0.6250	0
T6 20.00-0.00	Flange	1.0000	0	0.6250	1	0.6250	0	0.0000	0	0.6250	0	0.6250	1	0.6250	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
*** Safety Line 3/8 ***	B	No	No	Ar (CaAa)	118.00 - 0.00	0.0000	0.5	1	1	0.0000	0.3750		0.22
1-5/8"	A	No	No	Ar (CaAa)	118.00 - 0.00	-85.000	0	7	2	0.5000	1.9800		0.82
1-5/8"	B	No	No	Ar (CaAa)	118.00 - 0.00	0.0000	0.4	6	3	0.5000	1.9800		0.82
T-Brackets ***	A	No	No	Af (CaAa)	110.00 - 8.50	-100.00	0	1	1	1.0000	1.0000		4.20

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Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
1-5/8"	A	No	No	Ar (CaAa)	110.00 - 0.00	-75.0000	0	12	6	0.5000	1.9800		0.82
3"	C	No	No	Ar (CaAa)	110.00 - 0.00	-0.5000	-0.43	1	1	0.5000	3.0100		1.78
3/8"	A	No	No	Ar (CaAa)	110.00 - 0.00	-72.0000	0	2	2	0.0000	0.3750		0.18
3/8"	C	No	No	Ar (CaAa)	110.00 - 0.00	0.0000	-0.45	2	2	0.0000	0.3750		0.18

(6) 1-5/8"; (2) 1-5/8" Hybrid T-Brackets	C	No	No	Ar (CaAa)	96.50 - 9.50	-85.0000	0	8	4	0.5000	1.9800		0.82
	C	No	No	Af (CaAa)	95.00 - 9.50	-95.0000	0	1	1	1.0000	1.0000		4.20

1-5/8"	B	No	No	Ar (CaAa)	86.00 - 9.00	-80.0000	0	9	4	0.5000	1.9800		0.82
7/8"	B	No	No	Ar (CaAa)	57.00 - 9.00	-85.0000	0	1	1	0.5000	1.1100		0.54
7/8"	B	No	No	Ar (CaAa)	120.00 - 9.00	-90.0000	0	2	2	0.5000	1.1100		0.54
7/8"	C	No	No	Ar (CaAa)	55.00 - 9.50	-90.0000	0.02	2	1	0.5000	1.1100		0.54
7/8"	C	No	No	Ar (CaAa)	86.00 - 9.50	-78.0000	0	2	2	0.5000	1.1100		0.54
T-Brackets	B	No	No	Af (CaAa)	95.00 - 8.50	-95.0000	0	1	1	1.0000	1.0000		4.20

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	C _A A _A ft ² /ft	Weight plf

3/4"	C	No	No	CaAa (In Face)	110.00 - 0.00	-0.5000	-0.43	4	No Ice 1/2" Ice 1" Ice	1.78 0.00 0.00

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
T1	120.00-100.00	A	0.000	0.000	51.125	0.000	0.25
		B	0.000	0.000	26.499	0.000	0.11
		C	0.000	0.000	3.760	0.000	0.09
T2	100.00-80.00	A	0.000	0.000	80.073	0.000	0.40
		B	0.000	0.000	42.142	0.000	0.23
		C	0.000	0.000	37.488	0.000	0.36

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Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
T3	80.00-60.00	A	0.000	0.000	80.073	0.000	0.40
		B	0.000	0.000	67.923	0.000	0.36
		C	0.000	0.000	46.973	0.000	0.42
T4	60.00-40.00	A	0.000	0.000	80.073	0.000	0.40
		B	0.000	0.000	69.810	0.000	0.37
		C	0.000	0.000	50.303	0.000	0.44
T5	40.00-20.00	A	0.000	0.000	80.073	0.000	0.40
		B	0.000	0.000	70.143	0.000	0.37
		C	0.000	0.000	51.413	0.000	0.44
T6	20.00-0.00	A	0.000	0.000	78.657	0.000	0.37
		B	0.000	0.000	49.692	0.000	0.25
		C	0.000	0.000	30.564	0.000	0.32

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_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
T1	120.00-100.00	A	1.692	0.000	0.000	70.093	0.000	1.19
		B		0.000	0.000	54.888	0.000	0.75
		C		0.000	0.000	13.378	0.000	0.17
T2	100.00-80.00	A	1.658	0.000	0.000	109.330	0.000	1.86
		B		0.000	0.000	78.016	0.000	1.18
		C		0.000	0.000	70.252	0.000	1.09
T3	80.00-60.00	A	1.617	0.000	0.000	108.320	0.000	1.82
		B		0.000	0.000	107.930	0.000	1.72
		C		0.000	0.000	91.182	0.000	1.35
T4	60.00-40.00	A	1.564	0.000	0.000	107.009	0.000	1.78
		B		0.000	0.000	113.581	0.000	1.77
		C		0.000	0.000	103.175	0.000	1.48
T5	40.00-20.00	A	1.486	0.000	0.000	105.102	0.000	1.71
		B		0.000	0.000	112.282	0.000	1.71
		C		0.000	0.000	104.893	0.000	1.46
T6	20.00-0.00	A	1.331	0.000	0.000	97.640	0.000	1.51
		B		0.000	0.000	75.350	0.000	1.09
		C		0.000	0.000	62.973	0.000	0.81

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
T1	120.00-100.00	15.9841	11.8696	14.3197	12.4152
T2	100.00-80.00	13.4678	8.8827	12.7538	8.4197
T3	80.00-60.00	7.7980	8.4793	8.0402	6.9453
T4	60.00-40.00	7.3246	7.0828	7.2211	5.3839
T5	40.00-20.00	6.9650	6.1356	7.3989	4.9503
T6	20.00-0.00	10.0323	7.2883	11.3908	7.2777

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Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	2	Safety Line 3/8	100.00 - 118.00	0.6000	0.6000
T1	5	1-5/8"	100.00 - 118.00	0.6000	0.6000
T1	6	1-5/8"	100.00 - 118.00	0.6000	0.6000
T1	9	T-Brackets	100.00 - 110.00	0.6000	0.6000
T1	11	1-5/8"	100.00 - 110.00	0.6000	0.6000
T1	12	3"	100.00 - 110.00	0.6000	0.6000
T1	13	3/4"	100.00 - 110.00	0.6000	0.6000
T1	14	3/8"	100.00 - 110.00	0.6000	0.6000
T1	15	3/8"	100.00 - 110.00	0.6000	0.6000
T1	22	7/8"	100.00 - 120.00	0.6000	0.6000
T2	2	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T2	5	1-5/8"	80.00 - 100.00	0.6000	0.6000
T2	6	1-5/8"	80.00 - 100.00	0.6000	0.6000
T2	9	T-Brackets	80.00 - 100.00	0.6000	0.6000
T2	11	1-5/8"	80.00 - 100.00	0.6000	0.6000
T2	12	3"	80.00 - 100.00	0.6000	0.6000
T2	13	3/4"	80.00 - 100.00	0.6000	0.6000
T2	14	3/8"	80.00 - 100.00	0.6000	0.6000
T2	15	3/8"	80.00 - 100.00	0.6000	0.6000
T2	17	(6) 1-5/8"; (2) 1-5/8" Hybrid	80.00 - 96.50	0.6000	0.6000
T2	18	T-Brackets	80.00 - 95.00	0.6000	0.6000
T2	20	1-5/8"	80.00 - 86.00	0.6000	0.6000
T2	22	7/8"	80.00 - 100.00	0.6000	0.6000
T2	24	7/8"	80.00 - 86.00	0.6000	0.6000
T2	25	T-Brackets	80.00 - 95.00	0.6000	0.6000
T3	2	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T3	5	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	6	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	9	T-Brackets	60.00 - 80.00	0.6000	0.6000
T3	11	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	12	3"	60.00 - 80.00	0.6000	0.6000
T3	13	3/4"	60.00 - 80.00	0.6000	0.6000
T3	14	3/8"	60.00 - 80.00	0.6000	0.6000
T3	15	3/8"	60.00 - 80.00	0.6000	0.6000
T3	17	(6) 1-5/8"; (2) 1-5/8" Hybrid	60.00 - 80.00	0.6000	0.6000
T3	18	T-Brackets	60.00 - 80.00	0.6000	0.6000
T3	20	1-5/8"	60.00 - 80.00	0.6000	0.6000
T3	22	7/8"	60.00 - 80.00	0.6000	0.6000
T3	24	7/8"	60.00 - 80.00	0.6000	0.6000
T3	25	T-Brackets	60.00 - 80.00	0.6000	0.6000
T4	2	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T4	5	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	6	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	9	T-Brackets	40.00 - 60.00	0.6000	0.6000
T4	11	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	12	3"	40.00 - 60.00	0.6000	0.6000
T4	13	3/4"	40.00 - 60.00	0.6000	0.6000
T4	14	3/8"	40.00 - 60.00	0.6000	0.6000
T4	15	3/8"	40.00 - 60.00	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T4	17	(6) 1-5/8"; (2) 1-5/8" Hybrid	40.00 - 60.00	0.6000	0.6000
T4	18	T-Brackets	40.00 - 60.00	0.6000	0.6000
T4	20	1-5/8"	40.00 - 60.00	0.6000	0.6000
T4	21	7/8"	40.00 - 57.00	0.6000	0.6000
T4	22	7/8"	40.00 - 60.00	0.6000	0.6000
T4	23	7/8"	40.00 - 55.00	0.6000	0.6000
T4	24	7/8"	40.00 - 60.00	0.6000	0.6000
T4	25	T-Brackets	40.00 - 60.00	0.6000	0.6000
T5	2	Safety Line 3/8"	20.00 - 40.00	0.6000	0.6000
T5	5	1-5/8"	20.00 - 40.00	0.6000	0.6000
T5	6	1-5/8"	20.00 - 40.00	0.6000	0.6000
T5	9	T-Brackets	20.00 - 40.00	0.6000	0.6000
T5	11	1-5/8"	20.00 - 40.00	0.6000	0.6000
T5	12	3"	20.00 - 40.00	0.6000	0.6000
T5	13	3/4"	20.00 - 40.00	0.6000	0.6000
T5	14	3/8"	20.00 - 40.00	0.6000	0.6000
T5	15	3/8"	20.00 - 40.00	0.6000	0.6000
T5	17	(6) 1-5/8"; (2) 1-5/8" Hybrid	20.00 - 40.00	0.6000	0.6000
T5	18	T-Brackets	20.00 - 40.00	0.6000	0.6000
T5	20	1-5/8"	20.00 - 40.00	0.6000	0.6000
T5	21	7/8"	20.00 - 40.00	0.6000	0.6000
T5	22	7/8"	20.00 - 40.00	0.6000	0.6000
T5	23	7/8"	20.00 - 40.00	0.6000	0.6000
T5	24	7/8"	20.00 - 40.00	0.6000	0.6000
T5	25	T-Brackets	20.00 - 40.00	0.6000	0.6000
T6	2	Safety Line 3/8"	0.00 - 20.00	0.6000	0.6000
T6	5	1-5/8"	0.00 - 20.00	0.6000	0.6000
T6	6	1-5/8"	0.00 - 20.00	0.6000	0.6000
T6	9	T-Brackets	8.50 - 20.00	0.6000	0.6000
T6	11	1-5/8"	0.00 - 20.00	0.6000	0.6000
T6	12	3"	0.00 - 20.00	0.6000	0.6000
T6	13	3/4"	0.00 - 20.00	0.6000	0.6000
T6	14	3/8"	0.00 - 20.00	0.6000	0.6000
T6	15	3/8"	0.00 - 20.00	0.6000	0.6000
T6	17	(6) 1-5/8"; (2) 1-5/8" Hybrid	9.50 - 20.00	0.6000	0.6000
T6	18	T-Brackets	9.50 - 20.00	0.6000	0.6000
T6	20	1-5/8"	9.00 - 20.00	0.6000	0.6000
T6	21	7/8"	9.00 - 20.00	0.6000	0.6000
T6	22	7/8"	9.00 - 20.00	0.6000	0.6000
T6	23	7/8"	9.50 - 20.00	0.6000	0.6000
T6	24	7/8"	9.50 - 20.00	0.6000	0.6000
T6	25	T-Brackets	8.50 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement	$C_d A_A$ Front	$C_d A_A$ Side	Weight
			ft	°	ft	ft ²	ft ²	K
Lightning Rod	C	None		0.0000	120.00	No Ice	0.25	0.03
						1/2" Ice	0.66	0.03
						1" Ice	0.97	0.04

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	Project	PR-007866	Date	14:05:16 03/14/22
	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K

3"x12' Omni	A	From Leg	0.00	0.0000	122.00	No Ice	3.60	3.60	0.03
			0.00			1/2" Ice	4.83	4.83	0.05
			4.50			1" Ice	6.08	6.08	0.08
3"x12' Omni	C	From Leg	0.00	0.0000	122.00	No Ice	3.60	3.60	0.03
			0.00			1/2" Ice	4.83	4.83	0.05
			4.50			1" Ice	6.08	6.08	0.08
2.4" x 7' Pipe Mount	A	From Leg	0.00	0.0000	122.00	No Ice	1.68	1.68	0.05
			0.00			1/2" Ice	2.41	2.41	0.06
			0.00			1" Ice	2.83	2.83	0.08
2.4" x 7' Pipe Mount	B	From Leg	0.00	0.0000	122.00	No Ice	1.68	1.68	0.05
			0.00			1/2" Ice	2.41	2.41	0.06
			0.00			1" Ice	2.83	2.83	0.08
2.4" x 7' Pipe Mount	C	From Leg	0.00	0.0000	122.00	No Ice	1.68	1.68	0.05
			0.00			1/2" Ice	2.41	2.41	0.06
			0.00			1" Ice	2.83	2.83	0.08

Air 6449 B41 w/ Pipe Mount	A	From Leg	4.00	0.0000	118.00	No Ice	5.65	2.42	0.10
			0.00			1/2" Ice	5.96	2.64	0.14
			0.00			1" Ice	6.26	2.87	0.18
Air 6449 B41 w/ Pipe Mount	B	From Leg	4.00	0.0000	118.00	No Ice	5.65	2.42	0.10
			0.00			1/2" Ice	5.96	2.64	0.14
			0.00			1" Ice	6.26	2.87	0.18
Air 6449 B41 w/ Pipe Mount	C	From Leg	4.00	0.0000	118.00	No Ice	5.65	2.42	0.10
			0.00			1/2" Ice	5.96	2.64	0.14
			0.00			1" Ice	6.26	2.87	0.18
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	A	From Leg	4.00	0.0000	118.00	No Ice	6.75	6.07	0.15
			0.00			1/2" Ice	7.20	6.87	0.21
			0.00			1" Ice	7.65	7.58	0.28
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	B	From Leg	4.00	0.0000	118.00	No Ice	6.75	6.07	0.15
			0.00			1/2" Ice	7.20	6.87	0.21
			0.00			1" Ice	7.65	7.58	0.28
AIR32 KRD901146-1-B66A-B2A w/ Mount Pipe	C	From Leg	4.00	0.0000	118.00	No Ice	6.75	6.07	0.15
			0.00			1/2" Ice	7.20	6.87	0.21
			0.00			1" Ice	7.65	7.58	0.28
APXVAALL24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00	0.0000	118.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			0.00			1" Ice	16.23	8.25	0.46
APXVAALL24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00	0.0000	118.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			0.00			1" Ice	16.23	8.25	0.46
APXVAALL24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00	0.0000	118.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			0.00			1" Ice	16.23	8.25	0.46
4449 B71 + B85	A	From Leg	4.00	0.0000	118.00	No Ice	2.09	1.59	0.07
			0.00			1/2" Ice	2.27	1.75	0.09
			0.00			1" Ice	2.46	1.92	0.12
4449 B71 + B85	B	From Leg	4.00	0.0000	118.00	No Ice	2.09	1.59	0.07
			0.00			1/2" Ice	2.27	1.75	0.09
			0.00			1" Ice	2.46	1.92	0.12
4449 B71 + B85	C	From Leg	4.00	0.0000	118.00	No Ice	2.09	1.59	0.07
			0.00			1/2" Ice	2.27	1.75	0.09
			0.00			1" Ice	2.46	1.92	0.12
4415 B25	A	From Leg	4.00	0.0000	118.00	No Ice	2.02	1.25	0.06
			0.00			1/2" Ice	2.20	1.40	0.08
			0.00			1" Ice	2.39	1.56	0.10
4415 B25	B	From Leg	4.00	0.0000	118.00	No Ice	2.02	1.25	0.06

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	Project	PR-007866	Date	14:05:16 03/14/22
	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Vert						
			ft	ft	°	ft	ft ²	ft ²	K	
			0.00				1/2" Ice	2.20	1.40	0.08
			0.00				1" Ice	2.39	1.56	0.10
4415 B25	C	From Leg	4.00		0.0000	118.00	No Ice	2.02	1.25	0.06
			0.00				1/2" Ice	2.20	1.40	0.08
			0.00				1" Ice	2.39	1.56	0.10
SDX1926Q-43	A	From Leg	4.00		0.0000	118.00	No Ice	0.24	0.10	0.01
			0.00				1/2" Ice	0.30	0.14	0.01
			0.00				1" Ice	0.37	0.19	0.01
SDX1926Q-43	B	From Leg	4.00		0.0000	118.00	No Ice	0.24	0.10	0.01
			0.00				1/2" Ice	0.30	0.14	0.01
			0.00				1" Ice	0.37	0.19	0.01
SDX1926Q-43	C	From Leg	4.00		0.0000	118.00	No Ice	0.24	0.10	0.01
			0.00				1/2" Ice	0.30	0.14	0.01
			0.00				1" Ice	0.37	0.19	0.01
KRY 112 71	A	From Leg	4.00		0.0000	118.00	No Ice	1.50	0.50	0.02
			0.00				1/2" Ice	1.65	0.60	0.03
			0.00				1" Ice	1.81	0.72	0.04
KRY 112 71	B	From Leg	4.00		0.0000	118.00	No Ice	1.50	0.50	0.02
			0.00				1/2" Ice	1.65	0.60	0.03
			0.00				1" Ice	1.81	0.72	0.04
KRY 112 71	C	From Leg	4.00		0.0000	118.00	No Ice	1.50	0.50	0.02
			0.00				1/2" Ice	1.65	0.60	0.03
			0.00				1" Ice	1.81	0.72	0.04
Sector Frame (SitePro 1 P/N: VFA12-HD)	A	From Leg	2.00		0.0000	118.00	No Ice	13.20	9.20	0.66
			0.00				1/2" Ice	19.50	14.60	0.80
			0.00				1" Ice	25.80	19.50	1.01
Sector Frame (SitePro 1 P/N: VFA12-HD)	B	From Leg	2.00		0.0000	118.00	No Ice	13.20	9.20	0.66
			0.00				1/2" Ice	19.50	14.60	0.80
			0.00				1" Ice	25.80	19.50	1.01
Sector Frame (SitePro 1 P/N: VFA12-HD)	C	From Leg	2.00		0.0000	118.00	No Ice	13.20	9.20	0.66
			0.00				1/2" Ice	19.50	14.60	0.80
			0.00				1" Ice	25.80	19.50	1.01

OPA65R-BU6DA w/ Mount Pipe	A	From Leg	4.00		0.0000	110.00	No Ice	12.25	6.05	0.09
			0.00				1/2" Ice	13.00	6.71	0.18
			0.00				1" Ice	13.76	7.39	0.27
OPA65R-BU6DA w/ Mount Pipe	B	From Leg	4.00		0.0000	110.00	No Ice	12.25	6.05	0.09
			0.00				1/2" Ice	13.00	6.71	0.18
			0.00				1" Ice	13.76	7.39	0.27
OPA65R-BU6DA w/ Mount Pipe	C	From Leg	4.00		0.0000	110.00	No Ice	12.25	6.05	0.09
			0.00				1/2" Ice	13.00	6.71	0.18
			0.00				1" Ice	13.76	7.39	0.27
RRUS 4478 B14	A	From Leg	4.00		0.0000	110.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
RRUS 4478 B14	B	From Leg	4.00		0.0000	110.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
RRUS 4478 B14	C	From Leg	4.00		0.0000	110.00	No Ice	1.84	1.06	0.06
			0.00				1/2" Ice	2.01	1.20	0.08
			0.00				1" Ice	2.19	1.34	0.09
7770 w/Mount Pipe	A	From Face	4.00		0.0000	110.00	No Ice	6.20	4.94	0.07
			0.00				1/2" Ice	6.76	5.86	0.12
			0.00				1" Ice	7.27	6.64	0.19
7770 w/Mount Pipe	B	From Face	4.00		0.0000	110.00	No Ice	6.20	4.94	0.07
			0.00				1/2" Ice	6.76	5.86	0.12
			0.00				1" Ice	7.27	6.64	0.19

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	Project	PR-007866	Date	14:05:16 03/14/22
	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	K
7770 w/Mount Pipe	C	From Face	4.00	0.0000	110.00	No Ice	6.20	4.94	0.07
			0.00			1/2" Ice	6.76	5.86	0.12
			0.00			1" Ice	7.27	6.64	0.19
800 10965 w/ Mount Pipe	A	From Face	4.00	0.0000	110.00	No Ice	14.05	7.63	0.14
			0.00			1/2" Ice	14.69	8.90	0.23
			0.00			1" Ice	15.30	9.96	0.34
800 10965 w/ Mount Pipe	B	From Face	4.00	0.0000	110.00	No Ice	14.05	7.63	0.14
			0.00			1/2" Ice	14.69	8.90	0.23
			0.00			1" Ice	15.30	9.96	0.34
800 10965 w/ Mount Pipe	C	From Face	4.00	0.0000	110.00	No Ice	14.05	7.63	0.14
			0.00			1/2" Ice	14.69	8.90	0.23
			0.00			1" Ice	15.30	9.96	0.34
P65-16-XLH-RR w/ Mount Pipe	A	From Face	4.00	0.0000	110.00	No Ice	8.37	6.36	0.08
			0.00			1/2" Ice	8.93	7.54	0.14
			0.00			1" Ice	9.46	8.43	0.22
P65-16-XLH-RR w/ Mount Pipe	B	From Face	4.00	0.0000	110.00	No Ice	8.37	6.36	0.08
			0.00			1/2" Ice	8.93	7.54	0.14
			0.00			1" Ice	9.46	8.43	0.22
P65-16-XLH-RR w/ Mount Pipe	C	From Face	4.00	0.0000	110.00	No Ice	8.37	6.36	0.08
			0.00			1/2" Ice	8.93	7.54	0.14
			0.00			1" Ice	9.46	8.43	0.22
(2) LGP21401 TMA	A	From Face	4.00	0.0000	110.00	No Ice	0.82	0.35	0.02
			0.00			1/2" Ice	0.94	0.44	0.02
			0.00			1" Ice	1.06	0.54	0.03
(2) LGP21401 TMA	B	From Face	4.00	0.0000	110.00	No Ice	0.82	0.35	0.02
			0.00			1/2" Ice	0.94	0.44	0.02
			0.00			1" Ice	1.06	0.54	0.03
(2) LGP21401 TMA	C	From Face	4.00	0.0000	110.00	No Ice	0.82	0.35	0.02
			0.00			1/2" Ice	0.94	0.44	0.02
			0.00			1" Ice	1.06	0.54	0.03
TT19-08BP111-001	A	From Face	4.00	0.0000	110.00	No Ice	0.55	0.45	0.02
			0.00			1/2" Ice	0.65	0.53	0.02
			0.00			1" Ice	0.75	0.63	0.03
TT19-08BP111-001	B	From Face	4.00	0.0000	110.00	No Ice	0.55	0.45	0.02
			0.00			1/2" Ice	0.65	0.53	0.02
			0.00			1" Ice	0.75	0.63	0.03
TT19-08BP111-001	C	From Face	4.00	0.0000	110.00	No Ice	0.55	0.45	0.02
			0.00			1/2" Ice	0.65	0.53	0.02
			0.00			1" Ice	0.75	0.63	0.03
RRUS-11	A	From Face	4.00	0.0000	110.00	No Ice	2.52	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.00			1" Ice	2.92	1.36	0.10
RRUS-11	B	From Face	4.00	0.0000	110.00	No Ice	2.52	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.00			1" Ice	2.92	1.36	0.10
RRUS-11	C	From Face	4.00	0.0000	110.00	No Ice	2.52	1.07	0.06
			0.00			1/2" Ice	2.72	1.21	0.07
			0.00			1" Ice	2.92	1.36	0.10
RRUS 4478 B5	A	From Face	4.00	0.0000	110.00	No Ice	1.84	1.06	0.06
			0.00			1/2" Ice	2.01	1.20	0.08
			0.00			1" Ice	2.19	1.34	0.09
RRUS 4478 B5	B	From Face	4.00	0.0000	110.00	No Ice	1.84	1.06	0.06
			0.00			1/2" Ice	2.01	1.20	0.08
			0.00			1" Ice	2.19	1.34	0.09
RRUS 4478 B5	C	From Face	4.00	0.0000	110.00	No Ice	1.84	1.06	0.06
			0.00			1/2" Ice	2.01	1.20	0.08
			0.00			1" Ice	2.19	1.34	0.09

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	Project	PR-007866	Date	14:05:16 03/14/22
	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
RRUS 4415 B25	A	From Face	4.00	0.0000	110.00	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
RRUS 4415 B25	B	From Face	4.00	0.0000	110.00	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
RRUS 4415 B25	C	From Face	4.00	0.0000	110.00	No Ice	1.64	0.68	0.04
			0.00			1/2" Ice	1.80	0.79	0.06
			0.00			1" Ice	1.97	0.91	0.07
DC6-48-60-18-8F	A	From Face	0.50	0.0000	110.00	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			0.00			1" Ice	2.11	2.11	0.08
DC6-48-60-18-8F	B	From Face	0.50	0.0000	110.00	No Ice	1.21	1.21	0.03
			0.00			1/2" Ice	1.89	1.89	0.05
			0.00			1" Ice	2.11	2.11	0.08
(3) 12' Sector Mounts [Sabre C10857001C]	C	None		0.0000	110.00	No Ice	15.85	15.85	1.50
						1/2" Ice	20.80	20.80	1.95
						1" Ice	25.75	25.75	2.40

MT6407-77A w/Mount Pipe	A	From Leg	4.00	0.0000	96.50	No Ice	5.90	3.74	0.11
			0.00			1/2" Ice	6.71	4.79	0.16
			1.50			1" Ice	7.43	5.69	0.22
MT6407-77A w/Mount Pipe	B	From Leg	4.00	0.0000	96.50	No Ice	5.90	3.74	0.11
			0.00			1/2" Ice	6.71	4.79	0.16
			1.50			1" Ice	7.43	5.69	0.22
MT6407-77A w/Mount Pipe	C	From Leg	4.00	0.0000	96.50	No Ice	5.90	3.74	0.11
			0.00			1/2" Ice	6.71	4.79	0.16
			1.50			1" Ice	7.43	5.69	0.22
(2) MX06FRO660-03_TIA w/ Mount Pipe	A	From Leg	4.00	0.0000	96.50	No Ice	10.11	8.99	0.10
			0.00			1/2" Ice	10.68	10.15	0.19
			1.50			1" Ice	11.22	11.03	0.29
(2) MX06FRO660-03_TIA w/ Mount Pipe	B	From Leg	4.00	0.0000	96.50	No Ice	10.11	8.99	0.10
			0.00			1/2" Ice	10.68	10.15	0.19
			1.50			1" Ice	11.22	11.03	0.29
(2) MX06FRO660-03_TIA w/ Mount Pipe	C	From Leg	4.00	0.0000	96.50	No Ice	10.11	8.99	0.10
			0.00			1/2" Ice	10.68	10.15	0.19
			1.50			1" Ice	11.22	11.03	0.29
BXA-80090/8 w/ Mount Pipe	A	From Leg	4.00	0.0000	96.50	No Ice	8.18	8.51	0.05
			0.00			1/2" Ice	8.78	9.92	0.12
			1.50			1" Ice	9.38	11.17	0.20
BXA-80090/8 w/ Mount Pipe	B	From Leg	4.00	0.0000	96.50	No Ice	8.18	8.51	0.05
			0.00			1/2" Ice	8.78	9.92	0.12
			1.50			1" Ice	9.38	11.17	0.20
BXA-80090/8 w/ Mount Pipe	C	From Leg	4.00	0.0000	96.50	No Ice	8.18	8.51	0.05
			0.00			1/2" Ice	8.78	9.92	0.12
			1.50			1" Ice	9.38	11.17	0.20
RF4439d-25A	A	From Leg	4.00	0.0000	96.50	No Ice	1.87	1.25	0.07
			0.00			1/2" Ice	2.03	1.39	0.09
			1.50			1" Ice	2.21	1.54	0.11
RF4439d-25A	B	From Leg	4.00	0.0000	96.50	No Ice	1.87	1.25	0.07
			0.00			1/2" Ice	2.03	1.39	0.09
			1.50			1" Ice	2.21	1.54	0.11
RF4439d-25A	C	From Leg	4.00	0.0000	96.50	No Ice	1.87	1.25	0.07
			0.00			1/2" Ice	2.03	1.39	0.09
			1.50			1" Ice	2.21	1.54	0.11
RF4440d-13A	A	From Leg	4.00	0.0000	96.50	No Ice	1.87	1.13	0.07
			0.00			1/2" Ice	2.03	1.27	0.09

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	Project	PR-007866	Date	14:05:16 03/14/22
	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz Lateral	Vert						ft
RF4440d-13A	B	From Leg	1.50	4.00	0.0000	96.50	1" Ice	2.21	1.41	0.11
			0.00	0.00			No Ice	1.87	1.13	0.07
			0.00	0.00			1/2" Ice	2.03	1.27	0.09
RF4440d-13A	C	From Leg	1.50	4.00	0.0000	96.50	1" Ice	2.21	1.41	0.11
			0.00	0.00			No Ice	1.87	1.13	0.07
			0.00	0.00			1/2" Ice	2.03	1.27	0.09
RRFDC-3315-PF-48	A	From Leg	1.50	4.00	0.0000	96.50	1" Ice	2.21	1.41	0.11
			0.00	0.00			No Ice	3.02	1.96	0.03
			0.00	0.00			1/2" Ice	3.24	2.15	0.06
RRFDC-3315-PF-48	B	From Leg	1.50	4.00	0.0000	96.50	1" Ice	3.47	2.35	0.09
			0.00	0.00			No Ice	3.02	1.96	0.03
			0.00	0.00			1/2" Ice	3.24	2.15	0.06
(3) 10' x 2' T-Arms	C	None	1.50		0.0000	96.50	1" Ice	3.47	2.35	0.09
			0.00	0.00			No Ice	17.87	17.87	1.74
			0.00	0.00			1/2" Ice	25.31	25.31	1.16

60" x 12" x 5" w/ Mount Pipe	A	From Leg	4.00	0.00	0.0000	86.00	No Ice	6.74	5.07	0.07
			0.00	0.00			1/2" Ice	7.37	6.01	0.13
			0.00	0.00			1" Ice	7.96	6.80	0.19
60" x 12" x 5" w/ Mount Pipe	B	From Leg	4.00	0.00	0.0000	86.00	No Ice	6.74	5.07	0.07
			0.00	0.00			1/2" Ice	7.37	6.01	0.13
			0.00	0.00			1" Ice	7.96	6.80	0.19
60" x 12" x 5" w/ Mount Pipe	C	From Leg	4.00	0.00	0.0000	86.00	No Ice	6.74	5.07	0.07
			0.00	0.00			1/2" Ice	7.37	6.01	0.13
			0.00	0.00			1" Ice	7.96	6.80	0.19
(3) 2.7' StandOffs	C	None			0.0000	86.00	No Ice	6.18	6.18	0.33
							1/2" Ice	8.56	8.56	0.40
							1" Ice	10.94	10.94	0.47

1.9"Ø x 9.8' Pipe Mount	B	From Leg	0.00	0.00	0.0000	55.00	No Ice	1.65	1.65	0.02
			0.00	0.00			1/2" Ice	2.67	2.67	0.04
			0.00	0.00			1" Ice	3.71	3.71	0.06

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz Lateral	Vert							ft
PR-850	A	Grid	From Leg	0.50	0.00	0.0000		57.00	5.67	No Ice	25.22	0.04
				0.00	0.00					1/2" Ice	25.97	0.17
				0.00	0.00					1" Ice	26.71	0.30
**												
PR-850	B	Grid	From Leg	0.50	0.00	10.0000		55.00	5.67	No Ice	25.22	0.04
				0.00	0.00					1/2" Ice	25.97	0.17
				2.00	0.00					1" Ice	26.71	0.30
PR-850	B	Grid	From	0.50	0.00	25.0000		55.00	5.67	No Ice	25.22	0.04

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Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight
				ft	°	°	ft	ft	ft ²	K
			Leg	0.00				1/2" Ice	25.97	0.17
				-4.00				1" Ice	26.71	0.30

**

Tower Pressures - No Ice

$G_H = 0.850$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	ft ²	e	ft ²	ft ²	ft ²		ft ²	ft ²
T1 120.00-100.00	110.00	1.016	19	112.917	A	10.432	5.833	5.833	35.86	51.125	0.000
					B	10.432	5.833		35.86	26.499	0.000
					C	10.432	5.833		35.86	3.760	0.000
T2 100.00-80.00	90.00	0.959	18	114.167	A	9.535	8.333	8.333	46.64	80.073	0.000
					B	9.535	8.333		46.64	42.142	0.000
					C	9.535	8.333		46.64	37.488	0.000
T3 80.00-60.00	70.00	0.892	17	129.587	A	11.091	9.175	9.175	45.27	80.073	0.000
					B	11.091	9.175		45.27	67.923	0.000
					C	11.091	9.175		45.27	46.973	0.000
T4 60.00-40.00	50.00	0.811	15	160.004	A	11.905	10.009	10.009	45.68	80.073	0.000
					B	11.905	10.009		45.68	69.810	0.000
					C	11.905	10.009		45.68	50.303	0.000
T5 40.00-20.00	30.00	0.701	13	190.420	A	16.215	10.843	10.843	40.07	80.073	0.000
					B	16.215	10.843		40.07	70.143	0.000
					C	16.215	10.843		40.07	51.413	0.000
T6 20.00-0.00	10.00	0.7	13	220.837	A	17.769	11.678	11.678	39.66	78.657	0.000
					B	17.769	11.678		39.66	49.692	0.000
					C	17.769	11.678		39.66	30.564	0.000

Tower Pressure - With Ice

$G_H = 0.850$

Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	in	ft ²	e	ft ²	ft ²	ft ²		ft ²	ft ²
T1 120.00-100.00	110.00	1.016	6	1.6919	118.556	A	10.432	34.763	17.113	37.86	70.093	0.000
						B	10.432	34.763		37.86	54.888	0.000
						C	10.432	34.763		37.86	13.378	0.000
T2 100.00-80.00	90.00	0.959	5	1.6583	119.694	A	9.535	35.201	19.389	43.34	109.330	0.000
						B	9.535	35.201		43.34	78.016	0.000
						C	9.535	35.201		43.34	70.252	0.000
T3 80.00-60.00	70.00	0.892	5	1.6171	134.981	A	11.091	37.903	19.966	40.75	108.320	0.000
						B	11.091	37.903		40.75	107.930	0.000
						C	11.091	37.903		40.75	91.182	0.000
T4 60.00-40.00	50.00	0.811	4	1.5636	165.219	A	11.905	39.058	20.443	40.11	107.009	0.000
						B	11.905	39.058		40.11	113.581	0.000
						C	11.905	39.058		40.11	103.175	0.000
T5 40.00-20.00	30.00	0.701	4	1.4858	195.377	A	16.215	38.299	20.758	38.08	105.102	0.000

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Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	in	ft ²	e	ft ²	ft ²	ft ²		ft ²	ft ²
T6 20.00-0.00	10.00	0.7	4	1.3312	225.278	B	16.215	38.299		38.08	112.282	0.000
						C	16.215	38.299		38.08	104.893	0.000
						A	17.769	37.875	20.561	36.95	97.640	0.000
						B	17.769	37.875		36.95	75.350	0.000
						C	17.769	37.875		36.95	62.973	0.000

Tower Pressure - Service

$$G_H = 0.850$$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	ft ²	e	ft ²	ft ²	ft ²		ft ²	ft ²
T1 120.00-100.00	110.00	1.016	8	112.917	A	10.432	5.833	5.833	35.86	51.125	0.000
					B	10.432	5.833		35.86	26.499	0.000
					C	10.432	5.833		35.86	3.760	0.000
T2 100.00-80.00	90.00	0.959	8	114.167	A	9.535	8.333	8.333	46.64	80.073	0.000
					B	9.535	8.333		46.64	42.142	0.000
					C	9.535	8.333		46.64	37.488	0.000
T3 80.00-60.00	70.00	0.892	7	129.587	A	11.091	9.175	9.175	45.27	80.073	0.000
					B	11.091	9.175		45.27	67.923	0.000
					C	11.091	9.175		45.27	46.973	0.000
T4 60.00-40.00	50.00	0.811	6	160.004	A	11.905	10.009	10.009	45.68	80.073	0.000
					B	11.905	10.009		45.68	69.810	0.000
					C	11.905	10.009		45.68	50.303	0.000
T5 40.00-20.00	30.00	0.701	5	190.420	A	16.215	10.843	10.843	40.07	80.073	0.000
					B	16.215	10.843		40.07	70.143	0.000
					C	16.215	10.843		40.07	51.413	0.000
T6 20.00-0.00	10.00	0.7	5	220.837	A	17.769	11.678	11.678	39.66	78.657	0.000
					B	17.769	11.678		39.66	49.692	0.000
					C	17.769	11.678		39.66	30.564	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K	e			psf			ft ²	K	plf	
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	19	1	1	13.739	1.14	57.12	B
			B	0.144	2.794		1	1	13.739			
			C	0.144	2.794		1	1	13.739			
T2 100.00-80.00	1.00	1.44	A	0.157	2.748	18	1	1	14.271	1.50	75.10	A
			B	0.157	2.748		1	1	14.271			
			C	0.157	2.748		1	1	14.271			
T3 80.00-60.00	1.18	1.71	A	0.156	2.748	17	1	1	16.305	1.65	82.58	C
			B	0.156	2.748		1	1	16.305			
			C	0.156	2.748		1	1	16.305			
T4 60.00-40.00	1.21	1.98	A	0.137	2.82	15	1	1	17.573	1.60	79.99	B
			B	0.137	2.82		1	1	17.573			
			C	0.137	2.82		1	1	17.573			
T5	1.21	2.59	A	0.142	2.801	13	1	1	22.361	1.54	76.94	B

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Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
40.00-20.00			B	0.142	2.801		1	1	22.361			
			C	0.142	2.801		1	1	22.361			
T6 20.00-0.00	0.94	2.94	A	0.133	2.834	13	1	1	24.379	1.44	71.91	A
			B	0.133	2.834		1	1	24.379			
			C	0.133	2.834		1	1	24.379			
Sum Weight:	5.99	11.60						OTM	516.99 kip-ft	8.87		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	19	0.8	1	11.653	1.05	52.39	C
			B	0.144	2.794		0.8	1	11.653			
			C	0.144	2.794		0.8	1	11.653			
T2 100.00-80.00	1.00	1.44	A	0.157	2.748	18	0.8	1	12.364	1.42	71.08	B
			B	0.157	2.748		0.8	1	12.364			
			C	0.157	2.748		0.8	1	12.364			
T3 80.00-60.00	1.18	1.71	A	0.156	2.748	17	0.8	1	14.087	1.56	78.22	A
			B	0.156	2.748		0.8	1	14.087			
			C	0.156	2.748		0.8	1	14.087			
T4 60.00-40.00	1.21	1.98	A	0.137	2.82	15	0.8	1	15.192	1.51	75.64	C
			B	0.137	2.82		0.8	1	15.192			
			C	0.137	2.82		0.8	1	15.192			
T5 40.00-20.00	1.21	2.59	A	0.142	2.801	13	0.8	1	19.118	1.44	71.85	C
			B	0.142	2.801		0.8	1	19.118			
			C	0.142	2.801		0.8	1	19.118			
T6 20.00-0.00	0.94	2.94	A	0.133	2.834	13	0.8	1	20.825	1.33	66.27	B
			B	0.133	2.834		0.8	1	20.825			
			C	0.133	2.834		0.8	1	20.825			
Sum Weight:	5.99	11.60						OTM	484.71 kip-ft	8.31		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	19	0.85	1	12.174	1.06	53.22	C
			B	0.144	2.794		0.85	1	12.174			
			C	0.144	2.794		0.85	1	12.174			
T2 100.00-80.00	1.00	1.44	A	0.157	2.748	18	0.85	1	12.840	1.44	71.86	B
			B	0.157	2.748		0.85	1	12.840			
			C	0.157	2.748		0.85	1	12.840			
T3 80.00-60.00	1.18	1.71	A	0.156	2.748	17	0.85	1	14.641	1.59	79.49	A
			B	0.156	2.748		0.85	1	14.641			

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Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
T4 60.00-40.00	1.21	1.98	C	0.156	2.748	15	0.85	1	14.641	1.54	76.83	A
			A	0.137	2.82		0.85	1	15.788			
			B	0.137	2.82		0.85	1	15.788			
T5 40.00-20.00	1.21	2.59	C	0.137	2.82	13	0.85	1	15.788	1.46	73.15	A
			A	0.142	2.801		0.85	1	19.929			
			B	0.142	2.801		0.85	1	19.929			
T6 20.00-0.00	0.94	2.94	C	0.142	2.801	13	0.85	1	19.929	1.35	67.58	C
			A	0.133	2.834		0.85	1	21.714			
			B	0.133	2.834		0.85	1	21.714			
Sum Weight:	5.99	11.60	C	0.133	2.834		0.85	1	491.96 kip-ft	8.44		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
T1 120.00-100.00	2.11	3.18	A	0.381	2.102	6	1	1	32.274	0.62	30.76	B
			B	0.381	2.102		1	1	32.274			
			C	0.381	2.102		1	1	32.274			
T2 100.00-80.00	4.13	3.56	A	0.374	2.118	5	1	1	31.546	0.81	40.32	A
			B	0.374	2.118		1	1	31.546			
			C	0.374	2.118		1	1	31.546			
T3 80.00-60.00	4.90	4.04	A	0.363	2.142	5	1	1	34.629	0.87	43.59	C
			B	0.363	2.142		1	1	34.629			
			C	0.363	2.142		1	1	34.629			
T4 60.00-40.00	5.03	4.36	A	0.308	2.274	4	1	1	35.402	0.85	42.27	B
			B	0.308	2.274		1	1	35.402			
			C	0.308	2.274		1	1	35.402			
T5 40.00-20.00	4.89	5.24	A	0.279	2.353	4	1	1	38.915	0.76	38.22	B
			B	0.279	2.353		1	1	38.915			
			C	0.279	2.353		1	1	38.915			
T6 20.00-0.00	3.42	5.44	A	0.247	2.447	4	1	1	39.898	0.66	32.79	A
			B	0.247	2.447		1	1	39.898			
			C	0.247	2.447		1	1	39.898			
Sum Weight:	24.48	25.83					OTM	273.02 kip-ft	4.56			

Tower Forces - With Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
T1 120.00-100.00	2.11	3.18	A	0.381	2.102	6	0.8	1	30.187	0.59	29.73	C
			B	0.381	2.102		0.8	1	30.187			
			C	0.381	2.102		0.8	1	30.187			

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Section Elevation ft	Add Weight K	Self Weight K	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T2 100.00-80.00	4.13	3.56	A	0.374	2.118	5	0.8	1	29.639	0.79	39.42	B
			B	0.374	2.118		0.8	1	29.639			
			C	0.374	2.118		0.8	1	29.639			
T3 80.00-60.00	4.90	4.04	A	0.363	2.142	5	0.8	1	32.411	0.85	42.61	A
			B	0.363	2.142		0.8	1	32.411			
			C	0.363	2.142		0.8	1	32.411			
T4 60.00-40.00	5.03	4.36	A	0.308	2.274	4	0.8	1	33.021	0.83	41.25	C
			B	0.308	2.274		0.8	1	33.021			
			C	0.308	2.274		0.8	1	33.021			
T5 40.00-20.00	4.89	5.24	A	0.279	2.353	4	0.8	1	35.671	0.74	36.98	C
			B	0.279	2.353		0.8	1	35.671			
			C	0.279	2.353		0.8	1	35.671			
T6 20.00-0.00	3.42	5.44	A	0.247	2.447	4	0.8	1	36.344	0.63	31.38	B
			B	0.247	2.447		0.8	1	36.344			
			C	0.247	2.447		0.8	1	36.344			
Sum Weight:	24.48	25.83						OTM	265.73 kip-ft	4.43		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation ft	Add Weight K	Self Weight K	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T1 120.00-100.00	2.11	3.18	A	0.381	2.102	6	0.85	1	30.709	0.60	29.75	C
			B	0.381	2.102		0.85	1	30.709			
			C	0.381	2.102		0.85	1	30.709			
T2 100.00-80.00	4.13	3.56	A	0.374	2.118	5	0.85	1	30.116	0.79	39.62	B
			B	0.374	2.118		0.85	1	30.116			
			C	0.374	2.118		0.85	1	30.116			
T3 80.00-60.00	4.90	4.04	A	0.363	2.142	5	0.85	1	32.966	0.86	42.92	A
			B	0.363	2.142		0.85	1	32.966			
			C	0.363	2.142		0.85	1	32.966			
T4 60.00-40.00	5.03	4.36	A	0.308	2.274	4	0.85	1	33.616	0.83	41.48	A
			B	0.308	2.274		0.85	1	33.616			
			C	0.308	2.274		0.85	1	33.616			
T5 40.00-20.00	4.89	5.24	A	0.279	2.353	4	0.85	1	36.482	0.74	37.21	C
			B	0.279	2.353		0.85	1	36.482			
			C	0.279	2.353		0.85	1	36.482			
T6 20.00-0.00	3.42	5.44	A	0.247	2.447	4	0.85	1	37.233	0.64	31.80	C
			B	0.247	2.447		0.85	1	37.233			
			C	0.247	2.447		0.85	1	37.233			
Sum Weight:	24.48	25.83						OTM	267.03 kip-ft	4.46		

Tower Forces - Service - Wind Normal To Face

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job CT98078-L, Wilton, CT/Optasite	Page 20 of 41
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Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	8	1	1	13.739	0.48	23.78	B
			B	0.144	2.794		1	1	13.739			
			C	0.144	2.794		1	1	13.739			
T2 100.00-80.00	1.00	1.44	A	0.157	2.748	8	1	1	14.271	0.63	31.26	A
			B	0.157	2.748		1	1	14.271			
			C	0.157	2.748		1	1	14.271			
T3 80.00-60.00	1.18	1.71	A	0.156	2.748	7	1	1	16.305	0.69	34.37	C
			B	0.156	2.748		1	1	16.305			
			C	0.156	2.748		1	1	16.305			
T4 60.00-40.00	1.21	1.98	A	0.137	2.82	6	1	1	17.573	0.67	33.29	B
			B	0.137	2.82		1	1	17.573			
			C	0.137	2.82		1	1	17.573			
T5 40.00-20.00	1.21	2.59	A	0.142	2.801	5	1	1	22.361	0.64	32.02	B
			B	0.142	2.801		1	1	22.361			
			C	0.142	2.801		1	1	22.361			
T6 20.00-0.00	0.94	2.94	A	0.133	2.834	5	1	1	24.379	0.60	29.93	A
			B	0.133	2.834		1	1	24.379			
			C	0.133	2.834		1	1	24.379			
Sum Weight:	5.99	11.60						OTM	215.19 kip-ft	3.69		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight K	Self Weight K	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F K	w plf	Ctrl. Face
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	8	0.8	1	11.653	0.44	21.81	C
			B	0.144	2.794		0.8	1	11.653			
			C	0.144	2.794		0.8	1	11.653			
T2 100.00-80.00	1.00	1.44	A	0.157	2.748	8	0.8	1	12.364	0.59	29.59	B
			B	0.157	2.748		0.8	1	12.364			
			C	0.157	2.748		0.8	1	12.364			
T3 80.00-60.00	1.18	1.71	A	0.156	2.748	7	0.8	1	14.087	0.65	32.56	A
			B	0.156	2.748		0.8	1	14.087			
			C	0.156	2.748		0.8	1	14.087			
T4 60.00-40.00	1.21	1.98	A	0.137	2.82	6	0.8	1	15.192	0.63	31.48	C
			B	0.137	2.82		0.8	1	15.192			
			C	0.137	2.82		0.8	1	15.192			
T5 40.00-20.00	1.21	2.59	A	0.142	2.801	5	0.8	1	19.118	0.60	29.91	C
			B	0.142	2.801		0.8	1	19.118			
			C	0.142	2.801		0.8	1	19.118			
T6 20.00-0.00	0.94	2.94	A	0.133	2.834	5	0.8	1	20.825	0.55	27.59	B
			B	0.133	2.834		0.8	1	20.825			
			C	0.133	2.834		0.8	1	20.825			
Sum Weight:	5.99	11.60						OTM	201.75 kip-ft	3.46		

Tower Forces - Service - Wind 90 To Face

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	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	K	K				psf			ft ²	K	plf	
T1 120.00-100.00	0.45	0.95	A	0.144	2.794	8	0.85	1	12.174	0.44	22.15	C
			B	0.144	2.794		0.85	1	12.174			
			C	0.144	2.794		0.85	1	12.174			
T2 100.00-80.00	1.00	1.44	A	0.157	2.748	8	0.85	1	12.840	0.60	29.91	B
			B	0.157	2.748		0.85	1	12.840			
			C	0.157	2.748		0.85	1	12.840			
T3 80.00-60.00	1.18	1.71	A	0.156	2.748	7	0.85	1	14.641	0.66	33.09	A
			B	0.156	2.748		0.85	1	14.641			
			C	0.156	2.748		0.85	1	14.641			
T4 60.00-40.00	1.21	1.98	A	0.137	2.82	6	0.85	1	15.788	0.64	31.98	A
			B	0.137	2.82		0.85	1	15.788			
			C	0.137	2.82		0.85	1	15.788			
T5 40.00-20.00	1.21	2.59	A	0.142	2.801	5	0.85	1	19.929	0.61	30.45	A
			B	0.142	2.801		0.85	1	19.929			
			C	0.142	2.801		0.85	1	19.929			
T6 20.00-0.00	0.94	2.94	A	0.133	2.834	5	0.85	1	21.714	0.56	28.13	C
			B	0.133	2.834		0.85	1	21.714			
			C	0.133	2.834		0.85	1	21.714			
Sum Weight:	5.99	11.60						OTM	204.77 kip-ft	3.51		

Discrete Appurtenance Pressures - No Ice *G_H = 0.850*

Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _y ft	z ft	K _z	q _z psf	C _{A/C} Front ft ²	C _{A/C} Side ft ²
Lightning Rod	0.0000	0.03	0.00	0.00	120.00	1.041	20	0.25	0.25
3"x12' Omni	0.0000	0.03	0.00	-3.18	126.50	1.057	20	3.60	3.60
3"x12' Omni	240.0000	0.03	-2.75	1.59	126.50	1.057	20	3.60	3.60
2.4" x 7' Pipe Mount	0.0000	0.05	0.00	-3.18	122.00	1.046	20	1.68	1.68
2.4" x 7' Pipe Mount	120.0000	0.05	2.75	1.59	122.00	1.046	20	1.68	1.68
2.4" x 7' Pipe Mount	240.0000	0.05	-2.75	1.59	122.00	1.046	20	1.68	1.68
Air 6449 B41 w/ Pipe Mount	0.0000	0.10	0.00	-7.18	118.00	1.036	19	5.65	2.42
Air 6449 B41 w/ Pipe Mount	120.0000	0.10	6.21	3.59	118.00	1.036	19	5.65	2.42
Air 6449 B41 w/ Pipe Mount	240.0000	0.10	-6.21	3.59	118.00	1.036	19	5.65	2.42
AIR32	0.0000	0.15	0.00	-7.18	118.00	1.036	19	6.75	6.07
KRD901146-1-B66A-B2 A w/ Mount Pipe									
AIR32	120.0000	0.15	6.21	3.59	118.00	1.036	19	6.75	6.07
KRD901146-1-B66A-B2 A w/ Mount Pipe									
AIR32	240.0000	0.15	-6.21	3.59	118.00	1.036	19	6.75	6.07
KRD901146-1-B66A-B2 A w/ Mount Pipe									
APXVAALL24 43-U-N A20 w/ Mount Pipe	0.0000	0.19	0.00	-7.18	118.00	1.036	19	14.69	6.87
APXVAALL24 43-U-N A20 w/ Mount Pipe	120.0000	0.19	6.21	3.59	118.00	1.036	19	14.69	6.87
APXVAALL24 43-U-N A20 w/ Mount Pipe	240.0000	0.19	-6.21	3.59	118.00	1.036	19	14.69	6.87

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Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
4449 B71 + B85	0.0000	0.07	0.00	-7.18	118.00	1.036	19	2.09	1.59
4449 B71 + B85	120.0000	0.07	6.21	3.59	118.00	1.036	19	2.09	1.59
4449 B71 + B85	240.0000	0.07	-6.21	3.59	118.00	1.036	19	2.09	1.59
4415 B25	0.0000	0.06	0.00	-7.18	118.00	1.036	19	2.02	1.25
4415 B25	120.0000	0.06	6.21	3.59	118.00	1.036	19	2.02	1.25
4415 B25	240.0000	0.06	-6.21	3.59	118.00	1.036	19	2.02	1.25
SDX1926Q-43	0.0000	0.01	0.00	-7.18	118.00	1.036	19	0.24	0.10
SDX1926Q-43	120.0000	0.01	6.21	3.59	118.00	1.036	19	0.24	0.10
SDX1926Q-43	240.0000	0.01	-6.21	3.59	118.00	1.036	19	0.24	0.10
KRY 112 71	0.0000	0.02	0.00	-7.18	118.00	1.036	19	1.50	0.50
KRY 112 71	120.0000	0.02	6.21	3.59	118.00	1.036	19	1.50	0.50
KRY 112 71	240.0000	0.02	-6.21	3.59	118.00	1.036	19	1.50	0.50
Sector Frame (SitePro 1 P/N: VFA12-HD)	0.0000	0.66	0.00	-5.18	118.00	1.036	19	13.20	9.20
Sector Frame (SitePro 1 P/N: VFA12-HD)	120.0000	0.66	4.48	2.59	118.00	1.036	19	13.20	9.20
Sector Frame (SitePro 1 P/N: VFA12-HD)	240.0000	0.66	-4.48	2.59	118.00	1.036	19	13.20	9.20
OPA65R-BU6DA w/ Mount Pipe	0.0000	0.09	0.00	-7.18	110.00	1.016	19	12.25	6.05
OPA65R-BU6DA w/ Mount Pipe	120.0000	0.09	6.21	3.59	110.00	1.016	19	12.25	6.05
OPA65R-BU6DA w/ Mount Pipe	240.0000	0.09	-6.21	3.59	110.00	1.016	19	12.25	6.05
RRUS 4478 B14	0.0000	0.06	0.00	-7.18	110.00	1.016	19	1.84	1.06
RRUS 4478 B14	120.0000	0.06	6.21	3.59	110.00	1.016	19	1.84	1.06
RRUS 4478 B14	240.0000	0.06	-6.21	3.59	110.00	1.016	19	1.84	1.06
7770 w/Mount Pipe	300.0000	0.07	-4.84	-2.79	110.00	1.016	19	6.20	4.94
7770 w/Mount Pipe	60.0000	0.07	4.84	-2.79	110.00	1.016	19	6.20	4.94
7770 w/Mount Pipe	180.0000	0.07	0.00	5.59	110.00	1.016	19	6.20	4.94
800 10965 w/ Mount Pipe	300.0000	0.14	-4.84	-2.79	110.00	1.016	19	14.05	7.63
800 10965 w/ Mount Pipe	60.0000	0.14	4.84	-2.79	110.00	1.016	19	14.05	7.63
800 10965 w/ Mount Pipe	180.0000	0.14	0.00	5.59	110.00	1.016	19	14.05	7.63
P65-16-XLH-RR w/ Mount Pipe	300.0000	0.08	-4.84	-2.79	110.00	1.016	19	8.37	6.36
P65-16-XLH-RR w/ Mount Pipe	60.0000	0.08	4.84	-2.79	110.00	1.016	19	8.37	6.36
P65-16-XLH-RR w/ Mount Pipe	180.0000	0.08	0.00	5.59	110.00	1.016	19	8.37	6.36
LGP21401 TMA	300.0000	0.04	-4.84	-2.79	110.00	1.016	19	1.63	0.69
LGP21401 TMA	60.0000	0.04	4.84	-2.79	110.00	1.016	19	1.63	0.69
LGP21401 TMA	180.0000	0.04	0.00	5.59	110.00	1.016	19	1.63	0.69
TT19-08BP1111-001	300.0000	0.02	-4.84	-2.79	110.00	1.016	19	0.55	0.45
TT19-08BP1111-001	60.0000	0.02	4.84	-2.79	110.00	1.016	19	0.55	0.45
TT19-08BP1111-001	180.0000	0.02	0.00	5.59	110.00	1.016	19	0.55	0.45
RRUS-11	300.0000	0.06	-4.84	-2.79	110.00	1.016	19	2.52	1.07
RRUS-11	60.0000	0.06	4.84	-2.79	110.00	1.016	19	2.52	1.07
RRUS-11	180.0000	0.06	0.00	5.59	110.00	1.016	19	2.52	1.07
RRUS 4478 B5	300.0000	0.06	-4.84	-2.79	110.00	1.016	19	1.84	1.06
RRUS 4478 B5	60.0000	0.06	4.84	-2.79	110.00	1.016	19	1.84	1.06
RRUS 4478 B5	180.0000	0.06	0.00	5.59	110.00	1.016	19	1.84	1.06
RRUS 4415 B25	300.0000	0.04	-4.84	-2.79	110.00	1.016	19	1.64	0.68
RRUS 4415 B25	60.0000	0.04	4.84	-2.79	110.00	1.016	19	1.64	0.68
RRUS 4415 B25	180.0000	0.04	0.00	5.59	110.00	1.016	19	1.64	0.68
DC6-48-60-18-8F	300.0000	0.03	-1.81	-1.04	110.00	1.016	19	1.21	1.21
DC6-48-60-18-8F	60.0000	0.03	1.81	-1.04	110.00	1.016	19	1.21	1.21
(3) 12' Sector Mounts [Sabre C10857001C]	0.0000	1.50	0.00	0.00	110.00	1.016	19	15.85	15.85

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job	CT98078-L, Wilton, CT/Optasite	Page	24 of 41
	Project	PR-007866	Date	14:05:16 03/14/22
	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²	t _z in
AIR32	120.0000	0.39	6.21	3.59	118.00	1.036	6	8.29	8.62	1.7038
KRD901146-1-B66A-B2 A w/ Mount Pipe	240.0000	0.39	-6.21	3.59	118.00	1.036	6	8.29	8.62	1.7038
AIR32	240.0000	0.39	-6.21	3.59	118.00	1.036	6	8.29	8.62	1.7038
KRD901146-1-B66A-B2 A w/ Mount Pipe	0.0000	0.69	0.00	-7.18	118.00	1.036	6	17.35	9.25	1.7038
APXVAALL24 43-U-N A20 w/ Mount Pipe	120.0000	0.69	6.21	3.59	118.00	1.036	6	17.35	9.25	1.7038
APXVAALL24 43-U-N A20 w/ Mount Pipe	240.0000	0.69	-6.21	3.59	118.00	1.036	6	17.35	9.25	1.7038
APXVAALL24 43-U-N A20 w/ Mount Pipe	0.0000	0.16	0.00	-7.18	118.00	1.036	6	2.74	2.17	1.7038
4449 B71 + B85	120.0000	0.16	6.21	3.59	118.00	1.036	6	2.74	2.17	1.7038
4449 B71 + B85	240.0000	0.16	-6.21	3.59	118.00	1.036	6	2.74	2.17	1.7038
4415 B25	0.0000	0.13	0.00	-7.18	118.00	1.036	6	2.66	1.80	1.7038
4415 B25	120.0000	0.13	6.21	3.59	118.00	1.036	6	2.66	1.80	1.7038
4415 B25	240.0000	0.13	-6.21	3.59	118.00	1.036	6	2.66	1.80	1.7038
SDX1926Q-43	0.0000	0.02	0.00	-7.18	118.00	1.036	6	0.49	0.28	1.7038
SDX1926Q-43	120.0000	0.02	6.21	3.59	118.00	1.036	6	0.49	0.28	1.7038
SDX1926Q-43	240.0000	0.02	-6.21	3.59	118.00	1.036	6	0.49	0.28	1.7038
KRY 112 71	0.0000	0.06	0.00	-7.18	118.00	1.036	6	2.06	0.89	1.7038
KRY 112 71	120.0000	0.06	6.21	3.59	118.00	1.036	6	2.06	0.89	1.7038
KRY 112 71	240.0000	0.06	-6.21	3.59	118.00	1.036	6	2.06	0.89	1.7038
Sector Frame (SitePro 1 P/N: VFA12-HD)	0.0000	1.31	0.00	-5.18	118.00	1.036	6	34.67	26.40	1.7038
Sector Frame (SitePro 1 P/N: VFA12-HD)	120.0000	1.31	4.48	2.59	118.00	1.036	6	34.67	26.40	1.7038
Sector Frame (SitePro 1 P/N: VFA12-HD)	240.0000	1.31	-4.48	2.59	118.00	1.036	6	34.67	26.40	1.7038
OPA65R-BU6DA w/ Mount Pipe	0.0000	0.44	0.00	-7.18	110.00	1.016	6	14.85	8.36	1.6919
OPA65R-BU6DA w/ Mount Pipe	120.0000	0.44	6.21	3.59	110.00	1.016	6	14.85	8.36	1.6919
OPA65R-BU6DA w/ Mount Pipe	240.0000	0.44	-6.21	3.59	110.00	1.016	6	14.85	8.36	1.6919
RRUS 4478 B14	0.0000	0.13	0.00	-7.18	110.00	1.016	6	2.45	1.56	1.6919
RRUS 4478 B14	120.0000	0.13	6.21	3.59	110.00	1.016	6	2.45	1.56	1.6919
RRUS 4478 B14	240.0000	0.13	-6.21	3.59	110.00	1.016	6	2.45	1.56	1.6919
7770 w/Mount Pipe	300.0000	0.29	-4.84	-2.79	110.00	1.016	6	8.01	7.76	1.6919
7770 w/Mount Pipe	60.0000	0.29	4.84	-2.79	110.00	1.016	6	8.01	7.76	1.6919
7770 w/Mount Pipe	180.0000	0.29	0.00	5.59	110.00	1.016	6	8.01	7.76	1.6919
800 10965 w/ Mount Pipe	300.0000	0.51	-4.84	-2.79	110.00	1.016	6	16.15	11.32	1.6919
800 10965 w/ Mount Pipe	60.0000	0.51	4.84	-2.79	110.00	1.016	6	16.15	11.32	1.6919
800 10965 w/ Mount Pipe	180.0000	0.51	0.00	5.59	110.00	1.016	6	16.15	11.32	1.6919
P65-16-XLH-RR w/ Mount Pipe	300.0000	0.34	-4.84	-2.79	110.00	1.016	6	10.20	9.68	1.6919
P65-16-XLH-RR w/ Mount Pipe	60.0000	0.34	4.84	-2.79	110.00	1.016	6	10.20	9.68	1.6919
P65-16-XLH-RR w/ Mount Pipe	180.0000	0.34	0.00	5.59	110.00	1.016	6	10.20	9.68	1.6919
LGP21401 TMA	300.0000	0.09	-4.84	-2.79	110.00	1.016	6	2.51	1.39	1.6919
LGP21401 TMA	60.0000	0.09	4.84	-2.79	110.00	1.016	6	2.51	1.39	1.6919
LGP21401 TMA	180.0000	0.09	0.00	5.59	110.00	1.016	6	2.51	1.39	1.6919
TT19-08BP111-001	300.0000	0.04	-4.84	-2.79	110.00	1.016	6	0.91	0.78	1.6919
TT19-08BP111-001	60.0000	0.04	4.84	-2.79	110.00	1.016	6	0.91	0.78	1.6919
TT19-08BP111-001	180.0000	0.04	0.00	5.59	110.00	1.016	6	0.91	0.78	1.6919
RRUS-11	300.0000	0.13	-4.84	-2.79	110.00	1.016	6	3.22	1.58	1.6919

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Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²	t _z in
RRUS-11	60.0000	0.13	4.84	-2.79	110.00	1.016	6	3.22	1.58	1.6919
RRUS-11	180.0000	0.13	0.00	5.59	110.00	1.016	6	3.22	1.58	1.6919
RRUS 4478 B5	300.0000	0.13	-4.84	-2.79	110.00	1.016	6	2.45	1.56	1.6919
RRUS 4478 B5	60.0000	0.13	4.84	-2.79	110.00	1.016	6	2.45	1.56	1.6919
RRUS 4478 B5	180.0000	0.13	0.00	5.59	110.00	1.016	6	2.45	1.56	1.6919
RRUS 4415 B25	300.0000	0.10	-4.84	-2.79	110.00	1.016	6	2.22	1.10	1.6919
RRUS 4415 B25	60.0000	0.10	4.84	-2.79	110.00	1.016	6	2.22	1.10	1.6919
RRUS 4415 B25	180.0000	0.10	0.00	5.59	110.00	1.016	6	2.22	1.10	1.6919
DC6-48-60-18-8F	300.0000	0.12	-1.81	-1.04	110.00	1.016	6	2.43	2.43	1.6919
DC6-48-60-18-8F	60.0000	0.12	1.81	-1.04	110.00	1.016	6	2.43	2.43	1.6919
(3) 12' Sector Mounts [Sabre C10857001C]	0.0000	3.02	0.00	0.00	110.00	1.016	6	32.60	32.60	1.6919
MT6407-77A w/Mount Pipe	0.0000	0.31	0.00	-7.18	98.00	0.983	5	8.27	6.68	1.6725
MT6407-77A w/Mount Pipe	120.0000	0.31	6.21	3.59	98.00	0.983	5	8.27	6.68	1.6725
MT6407-77A w/Mount Pipe	240.0000	0.31	-6.21	3.59	98.00	0.983	5	8.27	6.68	1.6725
MX06FRO660-03_TIA w/ Mount Pipe	0.0000	0.87	0.00	-7.18	98.00	0.983	5	23.92	24.48	1.6725
MX06FRO660-03_TIA w/ Mount Pipe	120.0000	0.87	6.21	3.59	98.00	0.983	5	23.92	24.48	1.6725
MX06FRO660-03_TIA w/ Mount Pipe	240.0000	0.87	-6.21	3.59	98.00	0.983	5	23.92	24.48	1.6725
BXA-80090/8 w/ Mount Pipe	0.0000	0.33	0.00	-7.18	98.00	0.983	5	10.21	12.63	1.6725
BXA-80090/8 w/ Mount Pipe	120.0000	0.33	6.21	3.59	98.00	0.983	5	10.21	12.63	1.6725
BXA-80090/8 w/ Mount Pipe	240.0000	0.33	-6.21	3.59	98.00	0.983	5	10.21	12.63	1.6725
RF4439d-25A	0.0000	0.15	0.00	-7.18	98.00	0.983	5	2.47	1.76	1.6725
RF4439d-25A	120.0000	0.15	6.21	3.59	98.00	0.983	5	2.47	1.76	1.6725
RF4439d-25A	240.0000	0.15	-6.21	3.59	98.00	0.983	5	2.47	1.76	1.6725
RF4440d-13A	0.0000	0.14	0.00	-7.18	98.00	0.983	5	2.47	1.62	1.6725
RF4440d-13A	120.0000	0.14	6.21	3.59	98.00	0.983	5	2.47	1.62	1.6725
RF4440d-13A	240.0000	0.14	-6.21	3.59	98.00	0.983	5	2.47	1.62	1.6725
RRFDC-3315-PF-48	0.0000	0.14	0.00	-7.18	98.00	0.983	5	3.79	2.63	1.6725
RRFDC-3315-PF-48	120.0000	0.14	6.21	3.59	98.00	0.983	5	3.79	2.63	1.6725
(3) 10' x 2' T-Arms	0.0000	2.01	0.00	0.00	96.50	0.978	5	42.72	42.72	1.6699
60" x 12" x 5" w/ Mount Pipe	0.0000	0.29	0.00	-7.18	86.00	0.947	5	8.76	7.86	1.6508
60" x 12" x 5" w/ Mount Pipe	120.0000	0.29	6.21	3.59	86.00	0.947	5	8.76	7.86	1.6508
60" x 12" x 5" w/ Mount Pipe	240.0000	0.29	-6.21	3.59	86.00	0.947	5	8.76	7.86	1.6508
(3) 2.7' StandOffs	0.0000	0.56	0.00	0.00	86.00	0.947	5	14.04	14.04	1.6508
1.9"Ø x 9.8' Pipe Mount	120.0000	0.09	3.69	2.13	55.00	0.833	5	4.75	4.75	1.5786
Sum Weight:		28.74								

Discrete Appurtenance Pressures - Service G_H = 0.850

Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
Lightning Rod	0.0000	0.03	0.00	0.00	120.00	1.041	8	0.25	0.25
3"x12' Omni	0.0000	0.03	0.00	-3.18	126.50	1.057	8	3.60	3.60
3"x12' Omni	240.0000	0.03	-2.75	1.59	126.50	1.057	8	3.60	3.60

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Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AC} Front ft ²	C _{AC} Side ft ²
2.4" x 7' Pipe Mount	0.0000	0.05	0.00	-3.18	122.00	1.046	8	1.68	1.68
2.4" x 7' Pipe Mount	120.0000	0.05	2.75	1.59	122.00	1.046	8	1.68	1.68
2.4" x 7' Pipe Mount	240.0000	0.05	-2.75	1.59	122.00	1.046	8	1.68	1.68
Air 6449 B41 w/ Pipe Mount	0.0000	0.10	0.00	-7.18	118.00	1.036	8	5.65	2.42
Air 6449 B41 w/ Pipe Mount	120.0000	0.10	6.21	3.59	118.00	1.036	8	5.65	2.42
Air 6449 B41 w/ Pipe Mount	240.0000	0.10	-6.21	3.59	118.00	1.036	8	5.65	2.42
AIR32	0.0000	0.15	0.00	-7.18	118.00	1.036	8	6.75	6.07
KRD901146-1-B66A-B2 A w/ Mount Pipe	120.0000	0.15	6.21	3.59	118.00	1.036	8	6.75	6.07
KRD901146-1-B66A-B2 A w/ Mount Pipe	240.0000	0.15	-6.21	3.59	118.00	1.036	8	6.75	6.07
KRD901146-1-B66A-B2 A w/ Mount Pipe	0.0000	0.19	0.00	-7.18	118.00	1.036	8	14.69	6.87
APXVAALL24 43-U-N A20 w/ Mount Pipe	120.0000	0.19	6.21	3.59	118.00	1.036	8	14.69	6.87
APXVAALL24 43-U-N A20 w/ Mount Pipe	240.0000	0.19	-6.21	3.59	118.00	1.036	8	14.69	6.87
APXVAALL24 43-U-N A20 w/ Mount Pipe	0.0000	0.07	0.00	-7.18	118.00	1.036	8	2.09	1.59
4449 B71 + B85	120.0000	0.07	6.21	3.59	118.00	1.036	8	2.09	1.59
4449 B71 + B85	240.0000	0.07	-6.21	3.59	118.00	1.036	8	2.09	1.59
4415 B25	0.0000	0.06	0.00	-7.18	118.00	1.036	8	2.02	1.25
4415 B25	120.0000	0.06	6.21	3.59	118.00	1.036	8	2.02	1.25
4415 B25	240.0000	0.06	-6.21	3.59	118.00	1.036	8	2.02	1.25
SDX1926Q-43	0.0000	0.01	0.00	-7.18	118.00	1.036	8	0.24	0.10
SDX1926Q-43	120.0000	0.01	6.21	3.59	118.00	1.036	8	0.24	0.10
SDX1926Q-43	240.0000	0.01	-6.21	3.59	118.00	1.036	8	0.24	0.10
KRY 112 71	0.0000	0.02	0.00	-7.18	118.00	1.036	8	1.50	0.50
KRY 112 71	120.0000	0.02	6.21	3.59	118.00	1.036	8	1.50	0.50
KRY 112 71	240.0000	0.02	-6.21	3.59	118.00	1.036	8	1.50	0.50
Sector Frame (SitePro 1 P/N: VFA12-HD)	0.0000	0.66	0.00	-5.18	118.00	1.036	8	13.20	9.20
Sector Frame (SitePro 1 P/N: VFA12-HD)	120.0000	0.66	4.48	2.59	118.00	1.036	8	13.20	9.20
Sector Frame (SitePro 1 P/N: VFA12-HD)	240.0000	0.66	-4.48	2.59	118.00	1.036	8	13.20	9.20
OPA65R-BU6DA w/ Mount Pipe	0.0000	0.09	0.00	-7.18	110.00	1.016	8	12.25	6.05
OPA65R-BU6DA w/ Mount Pipe	120.0000	0.09	6.21	3.59	110.00	1.016	8	12.25	6.05
OPA65R-BU6DA w/ Mount Pipe	240.0000	0.09	-6.21	3.59	110.00	1.016	8	12.25	6.05
RRUS 4478 B14	0.0000	0.06	0.00	-7.18	110.00	1.016	8	1.84	1.06
RRUS 4478 B14	120.0000	0.06	6.21	3.59	110.00	1.016	8	1.84	1.06
RRUS 4478 B14	240.0000	0.06	-6.21	3.59	110.00	1.016	8	1.84	1.06
7770 w/Mount Pipe	300.0000	0.07	-4.84	-2.79	110.00	1.016	8	6.20	4.94
7770 w/Mount Pipe	60.0000	0.07	4.84	-2.79	110.00	1.016	8	6.20	4.94
7770 w/Mount Pipe	180.0000	0.07	0.00	5.59	110.00	1.016	8	6.20	4.94
800 10965 w/ Mount Pipe	300.0000	0.14	-4.84	-2.79	110.00	1.016	8	14.05	7.63
800 10965 w/ Mount Pipe	60.0000	0.14	4.84	-2.79	110.00	1.016	8	14.05	7.63
800 10965 w/ Mount Pipe	180.0000	0.14	0.00	5.59	110.00	1.016	8	14.05	7.63
P65-16-XLH-RR w/	300.0000	0.08	-4.84	-2.79	110.00	1.016	8	8.37	6.36

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Dish Pressures - No Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
57.00	PR-850	0.0000	0.04	0.00	-4.67	0.842	25.22	16
57.00	PR-850	130.0000	0.04	4.05	2.34	0.842	25.22	16
51.00	PR-850	145.0000	0.04	4.27	2.47	0.815	25.22	15
	Sum		0.12					
	Weight:							

Dish Pressures - With Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	t _z in
57.00	PR-850	0.0000	0.46	0.00	-4.67	0.842	27.59	5	1.5843
57.00	PR-850	130.0000	0.46	4.05	2.34	0.842	27.59	5	1.5843
51.00	PR-850	145.0000	0.45	4.27	2.47	0.815	27.56	4	1.5667
	Sum		1.37						
	Weight:								

Dish Pressures - Service

Elevation ft	Dish Description	Aiming Azimuth °	Weight K	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
57.00	PR-850	0.0000	0.04	0.00	-4.67	0.842	25.22	7
57.00	PR-850	130.0000	0.04	4.05	2.34	0.842	25.22	7
51.00	PR-850	145.0000	0.04	4.27	2.47	0.815	25.22	6
	Sum		0.12					
	Weight:							

Force Totals

Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M _x kip-ft	Sum of Overturning Moments, M _z kip-ft	Sum of Torques kip-ft
Leg Weight	7.81					
Bracing Weight	3.78					
Total Member Self-Weight	11.60			5.28	-10.41	
Total Weight	29.09			5.28	-10.41	
Wind 0 deg - No Ice		-0.05	-14.94	-1142.31	-7.36	8.66
Wind 30 deg - No Ice		7.17	-12.50	-964.37	-567.39	8.34
Wind 60 deg - No Ice		12.35	-7.11	-548.38	-970.94	8.07
Wind 90 deg - No Ice		14.43	0.05	7.98	-1129.05	5.68
Wind 120 deg - No Ice		12.96	7.54	582.63	-1004.40	-0.76
Wind 150 deg - No Ice		7.29	12.62	979.68	-573.36	-6.94
Wind 180 deg - No Ice		0.06	14.35	1119.04	-13.94	-8.60
Wind 210 deg - No Ice		-7.16	12.53	976.61	545.85	-8.38
Wind 240 deg - No Ice		-12.80	7.41	576.15	976.11	-8.12

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Load Case	Vertical Forces K	Sum of Forces X K	Sum of Forces Z K	Sum of Overturning Moments, M_x kip-ft	Sum of Overturning Moments, M_z kip-ft	Sum of Torques kip-ft
Wind 270 deg - No Ice		-14.43	-0.07	1.26	1108.56	-5.74
Wind 300 deg - No Ice		-12.46	-7.24	-554.90	954.90	0.64
Wind 330 deg - No Ice		-7.26	-12.61	-968.53	550.45	6.90
Member Ice	14.23					
Total Weight Ice	80.42			18.08	-40.48	
Wind 0 deg - Ice		-0.23	-7.47	-550.85	-28.02	4.22
Wind 30 deg - Ice		3.45	-6.40	-470.77	-309.87	4.59
Wind 60 deg - Ice		6.22	-3.56	-256.77	-519.90	4.07
Wind 90 deg - Ice		7.21	0.02	18.96	-594.99	2.85
Wind 120 deg - Ice		6.35	3.83	308.20	-525.99	0.01
Wind 150 deg - Ice		3.60	6.40	506.78	-317.19	-3.03
Wind 180 deg - Ice		0.01	7.29	577.22	-41.25	-4.54
Wind 210 deg - Ice		-3.51	6.37	506.01	231.59	-4.81
Wind 240 deg - Ice		-6.40	3.68	299.76	448.85	-4.13
Wind 270 deg - Ice		-7.31	-0.24	4.91	519.42	-1.91
Wind 300 deg - Ice		-6.30	-3.78	-268.68	442.62	0.85
Wind 330 deg - Ice		-3.77	-6.38	-468.98	245.42	3.20
Total Weight	29.09			5.28	-10.41	
Wind 0 deg - Service		-0.02	-6.22	-477.94	0.76	3.60
Wind 30 deg - Service		2.99	-5.20	-403.86	-232.39	3.47
Wind 60 deg - Service		5.14	-2.96	-230.67	-400.40	3.36
Wind 90 deg - Service		6.01	0.02	0.95	-466.23	2.36
Wind 120 deg - Service		5.39	3.14	240.19	-414.33	-0.32
Wind 150 deg - Service		3.04	5.25	405.50	-234.88	-2.89
Wind 180 deg - Service		0.03	5.97	463.52	-1.98	-3.58
Wind 210 deg - Service		-2.98	5.22	404.22	231.07	-3.49
Wind 240 deg - Service		-5.33	3.09	237.50	410.20	-3.38
Wind 270 deg - Service		-6.01	-0.03	-1.85	465.35	-2.39
Wind 300 deg - Service		-5.19	-3.01	-233.39	401.37	0.27
Wind 330 deg - Service		-3.02	-5.25	-405.59	232.99	2.87

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice

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Comb. No.	Description
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	120 - 100	Leg	Max Tension	7	15.11	-0.11	0.03
			Max. Compression	10	-21.65	-0.11	-0.06
			Max. Mx	8	-3.09	0.78	0.03
			Max. My	2	-1.07	-0.02	-0.79
			Max. Vy	8	0.92	-0.06	-0.00
		Diagonal	Max. Vx	2	-0.94	-0.00	0.06
			Max Tension	8	3.46	0.00	0.00
			Max. Compression	20	-3.51	0.00	0.00
			Max. Mx	31	0.85	0.03	-0.00
			Max. My	8	-3.25	-0.00	-0.01
		Top Girt	Max. Vy	31	-0.02	0.03	-0.00
			Max. Vx	8	0.00	-0.00	-0.01
			Max Tension	11	0.45	0.00	0.00
			Max. Compression	6	-0.49	0.00	0.00
			Max. Mx	26	-0.05	-0.04	0.00
			Max. My	16	-0.01	0.00	0.00
			Max. Vy	26	0.03	0.00	0.00
T2	100 - 80	Leg	Max. Vx	16	-0.00	0.00	0.00
			Max Tension	7	57.68	-0.32	0.13
			Max. Compression	10	-69.59	0.60	0.36
			Max. Mx	20	46.95	-0.67	-0.14
			Max. My	3	-66.50	-0.08	-0.72
			Max. Vy	8	0.72	-0.43	0.00
			Max. Vx	2	-0.77	0.01	0.46

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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		
T3	80 - 60	Diagonal	Max Tension	24	6.47	0.00	0.00		
			Max. Compression	24	-6.60	0.00	0.00		
			Max. Mx	31	1.36	0.03	-0.00		
			Max. My	4	-5.32	-0.01	-0.01		
			Max. Vy	31	-0.02	0.03	-0.00		
			Max. Vx	4	0.00	-0.01	-0.01		
		Leg	Max Tension	7	92.60	-0.05	-0.02		
			Max. Compression	10	-107.76	0.17	0.02		
			Max. Mx	18	-80.41	1.32	0.20		
			Max. My	16	-7.23	-0.03	0.76		
			Max. Vy	19	-4.07	1.31	0.20		
			Max. Vx	16	-2.43	-0.03	0.76		
		Diagonal	Max Tension	24	4.56	0.00	0.00		
			Max. Compression	24	-4.77	0.00	0.00		
			Max. Mx	31	1.08	0.03	0.00		
			Max. My	14	-4.13	-0.00	0.01		
			Max. Vy	31	-0.03	0.03	0.00		
			Max. Vx	14	-0.00	0.00	0.00		
Top Girt	Max Tension	19	0.15	0.00	0.00				
	Max. Compression	6	-0.27	0.00	0.00				
	Max. Mx	26	-0.10	-0.04	0.00				
	Max. My	34	-0.10	0.00	0.00				
	Max. Vy	26	-0.03	0.00	0.00				
	Max. Vx	34	0.00	0.00	0.00				
T4	60 - 40	Leg	Max Tension	7	120.73	-0.16	-0.00		
			Max. Compression	10	-139.73	-0.05	0.00		
			Max. Mx	31	-63.00	0.22	-0.00		
			Max. My	5	-7.19	-0.00	-0.27		
			Max. Vy	14	0.13	-0.21	0.06		
			Max. Vx	2	0.19	-0.13	-0.23		
		Diagonal	Max Tension	24	4.73	0.00	0.00		
			Max. Compression	24	-4.84	0.00	0.00		
			Max. Mx	31	0.81	0.04	0.00		
			Max. My	2	-4.48	-0.01	-0.01		
			Max. Vy	29	0.03	0.03	-0.00		
			Max. Vx	34	-0.00	0.00	0.00		
		T5	40 - 20	Leg	Max Tension	15	142.75	0.41	0.03
					Max. Compression	10	-165.19	-0.43	0.00
					Max. Mx	10	-164.95	0.79	-0.00
					Max. My	16	-11.25	-0.10	0.69
					Max. Vy	10	-0.30	0.79	-0.00
					Max. Vx	16	0.20	-0.10	0.69
Diagonal	Max Tension			25	6.14	0.07	-0.02		
	Max. Compression			24	-6.45	0.00	0.00		
	Max. Mx			12	1.41	0.12	0.02		
	Max. My			12	-6.38	-0.04	0.04		
	Max. Vy			31	-0.05	0.09	-0.02		
	Max. Vx			12	0.01	0.00	0.00		
Secondary Horizontal	Max Tension			6	0.33	0.01	-0.00		
	Max. Compression			5	-0.41	0.00	0.01		
	Max. Mx			34	-0.04	0.03	0.00		
	Max. My			14	-0.30	0.01	0.01		
	Max. Vy			28	0.03	0.03	0.00		
	Max. Vx			14	-0.00	0.00	0.00		
T6	20 - 0	Leg	Max Tension	15	165.91	0.48	0.03		
			Max. Compression	10	-192.23	-0.00	0.00		
			Max. Mx	10	-179.02	0.91	-0.00		
			Max. My	16	-13.07	-0.12	0.84		
			Max. Vy	10	0.33	0.91	-0.00		
			Max. Vx	16	-0.23	-0.12	0.84		

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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
		Diagonal	Max Tension	25	5.98	0.07	-0.01
			Max. Compression	24	-6.19	0.00	0.00
			Max. Mx	32	1.32	0.11	-0.00
			Max. My	12	-6.04	-0.03	0.03
			Max. Vy	29	0.05	0.11	-0.01
			Max. Vx	12	0.00	0.00	0.00
		Secondary Horizontal	Max Tension	6	0.38	0.00	0.00
			Max. Compression	5	-0.45	0.01	0.01
			Max. Mx	34	-0.08	0.04	0.00
			Max. My	14	-0.39	0.01	0.01
			Max. Vy	28	0.03	0.03	0.00
			Max. Vx	14	-0.00	0.00	0.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	195.27	13.08	-6.80
	Max. H _x	18	195.27	13.08	-6.80
	Max. H _z	7	-170.90	-11.76	6.03
	Min. Vert	7	-170.90	-11.76	6.03
	Min. H _x	7	-170.90	-11.76	6.03
	Min. H _z	18	195.27	13.08	-6.80
Leg B	Max. Vert	10	199.03	-12.90	-7.53
	Max. H _x	23	-170.45	11.51	6.71
	Max. H _z	25	-147.28	9.41	6.95
	Min. Vert	23	-170.45	11.51	6.71
	Min. H _x	10	199.03	-12.90	-7.53
	Min. H _z	12	170.76	-10.25	-7.55
Leg A	Max. Vert	2	196.67	0.71	14.87
	Max. H _x	22	101.63	1.49	7.41
	Max. H _z	2	196.67	0.71	14.87
	Min. Vert	15	-171.62	-0.70	-13.29
	Min. H _x	11	-84.98	-1.43	-6.86
	Min. H _z	15	-171.62	-0.70	-13.29

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	29.09	0.00	0.00	5.29	-10.43	0.00
1.2 Dead+1.6 Wind 0 deg - No Ice	34.91	-0.08	-23.90	-1842.77	-7.74	13.94
0.9 Dead+1.6 Wind 0 deg - No Ice	26.18	-0.08	-23.90	-1840.87	-4.57	13.92
1.2 Dead+1.6 Wind 30 deg - No Ice	34.91	11.47	-20.00	-1556.11	-910.17	13.44
0.9 Dead+1.6 Wind 30 deg - No Ice	26.18	11.47	-20.00	-1554.72	-905.27	13.42
1.2 Dead+1.6 Wind 60 deg - No Ice	34.91	19.75	-11.37	-885.79	-1560.46	12.99

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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
Ice						
0.9 Dead+1.6 Wind 60 deg - No Ice	26.18	19.75	-11.37	-885.68	-1554.32	12.97
1.2 Dead+1.6 Wind 90 deg - No Ice	34.91	23.09	0.07	10.75	-1815.20	9.12
0.9 Dead+1.6 Wind 90 deg - No Ice	26.18	23.09	0.07	9.14	-1808.58	9.11
1.2 Dead+1.6 Wind 120 deg - No Ice	34.91	20.73	12.06	936.67	-1614.25	-1.22
0.9 Dead+1.6 Wind 120 deg - No Ice	26.18	20.73	12.06	933.30	-1608.03	-1.22
1.2 Dead+1.6 Wind 150 deg - No Ice	34.91	11.67	20.19	1576.52	-919.74	-11.16
0.9 Dead+1.6 Wind 150 deg - No Ice	26.18	11.67	20.19	1571.92	-914.84	-11.14
1.2 Dead+1.6 Wind 180 deg - No Ice	34.91	0.10	22.96	1801.13	-18.31	-13.84
0.9 Dead+1.6 Wind 180 deg - No Ice	26.18	0.10	22.96	1796.09	-15.14	-13.82
1.2 Dead+1.6 Wind 210 deg - No Ice	34.91	-11.45	20.05	1571.62	883.74	-13.50
0.9 Dead+1.6 Wind 210 deg - No Ice	26.18	-11.45	20.05	1567.01	885.19	-13.48
1.2 Dead+1.6 Wind 240 deg - No Ice	34.91	-20.48	11.86	926.31	1577.02	-13.06
0.9 Dead+1.6 Wind 240 deg - No Ice	26.18	-20.48	11.86	922.95	1577.16	-13.04
1.2 Dead+1.6 Wind 270 deg - No Ice	34.91	-23.10	-0.11	-0.05	1790.53	-9.22
0.9 Dead+1.6 Wind 270 deg - No Ice	26.18	-23.10	-0.11	-1.65	1790.25	-9.21
1.2 Dead+1.6 Wind 300 deg - No Ice	34.91	-19.93	-11.58	-896.29	1542.91	1.04
0.9 Dead+1.6 Wind 300 deg - No Ice	26.18	-19.93	-11.58	-896.17	1543.11	1.04
1.2 Dead+1.6 Wind 330 deg - No Ice	34.91	-11.61	-20.18	-1562.81	891.13	11.09
0.9 Dead+1.6 Wind 330 deg - No Ice	26.18	-11.61	-20.18	-1561.43	892.58	11.07
1.2 Dead+1.0 Ice+1.0 Temp	86.24	0.00	0.00	19.56	-43.52	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	86.24	-0.23	-7.47	-559.63	-30.98	4.31
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	86.24	3.45	-6.40	-478.11	-317.94	4.69
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	86.24	6.22	-3.56	-260.29	-531.72	4.15
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	86.24	7.21	0.02	20.46	-608.18	2.89
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	86.24	6.35	3.83	314.91	-537.89	-0.00
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	86.24	3.60	6.40	517.13	-325.31	-3.08
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	86.24	0.01	7.29	588.87	-44.34	-4.62
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	86.24	-3.51	6.37	516.38	233.50	-4.91
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	86.24	-6.40	3.68	306.40	454.64	-4.21
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	86.24	-7.31	-0.24	6.29	526.50	-1.95
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	86.24	-6.30	-3.78	-272.33	448.30	0.86

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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
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	86.24	-3.77	-6.38	-476.30	247.47	3.25
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	29.09	-0.02	-6.22	-475.23	-9.23	3.62
Dead+Wind 30 deg - Service	29.09	2.99	-5.20	-400.73	-243.74	3.49
Dead+Wind 60 deg - Service	29.09	5.14	-2.96	-226.53	-412.73	3.38
Dead+Wind 90 deg - Service	29.09	6.01	0.02	6.45	-478.93	2.37
Dead+Wind 120 deg - Service	29.09	5.39	3.14	247.07	-426.71	-0.32
Dead+Wind 150 deg - Service	29.09	3.04	5.25	413.35	-246.23	-2.90
Dead+Wind 180 deg - Service	29.09	0.03	5.97	471.72	-11.97	-3.60
Dead+Wind 210 deg - Service	29.09	-2.98	5.22	412.08	222.44	-3.51
Dead+Wind 240 deg - Service	29.09	-5.33	3.09	244.38	402.61	-3.39
Dead+Wind 270 deg - Service	29.09	-6.01	-0.03	3.65	458.09	-2.40
Dead+Wind 300 deg - Service	29.09	-5.19	-3.01	-229.26	393.75	0.27
Dead+Wind 330 deg - Service	29.09	-3.02	-5.25	-402.47	224.37	2.88

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-29.09	0.00	0.00	29.09	0.00	0.000%
2	-0.08	-34.91	-23.90	0.08	34.91	23.90	0.000%
3	-0.08	-26.18	-23.90	0.08	26.18	23.90	0.000%
4	11.47	-34.91	-20.00	-11.47	34.91	20.00	0.000%
5	11.47	-26.18	-20.00	-11.47	26.18	20.00	0.000%
6	19.75	-34.91	-11.37	-19.75	34.91	11.37	0.000%
7	19.75	-26.18	-11.37	-19.75	26.18	11.37	0.000%
8	23.09	-34.91	0.07	-23.09	34.91	-0.07	0.000%
9	23.09	-26.18	0.07	-23.09	26.18	-0.07	0.000%
10	20.73	-34.91	12.06	-20.73	34.91	-12.06	0.000%
11	20.73	-26.18	12.06	-20.73	26.18	-12.06	0.000%
12	11.67	-34.91	20.19	-11.67	34.91	-20.19	0.000%
13	11.67	-26.18	20.19	-11.67	26.18	-20.19	0.000%
14	0.10	-34.91	22.96	-0.10	34.91	-22.96	0.000%
15	0.10	-26.18	22.96	-0.10	26.18	-22.96	0.000%
16	-11.45	-34.91	20.05	11.45	34.91	-20.05	0.000%
17	-11.45	-26.18	20.05	11.45	26.18	-20.05	0.000%
18	-20.48	-34.91	11.86	20.48	34.91	-11.86	0.000%
19	-20.48	-26.18	11.86	20.48	26.18	-11.86	0.000%
20	-23.10	-34.91	-0.11	23.10	34.91	0.11	0.000%
21	-23.10	-26.18	-0.11	23.10	26.18	0.11	0.000%
22	-19.93	-34.91	-11.58	19.93	34.91	11.58	0.000%
23	-19.93	-26.18	-11.58	19.93	26.18	11.58	0.000%
24	-11.61	-34.91	-20.18	11.61	34.91	20.18	0.000%
25	-11.61	-26.18	-20.18	11.61	26.18	20.18	0.000%
26	0.00	-86.24	0.00	-0.00	86.24	0.00	0.000%
27	-0.23	-86.24	-7.47	0.23	86.24	7.47	0.000%
28	3.45	-86.24	-6.40	-3.45	86.24	6.40	0.000%
29	6.22	-86.24	-3.56	-6.22	86.24	3.56	0.000%
30	7.21	-86.24	0.02	-7.21	86.24	-0.02	0.000%
31	6.35	-86.24	3.83	-6.35	86.24	-3.83	0.000%
32	3.60	-86.24	6.40	-3.60	86.24	-6.40	0.000%
33	0.01	-86.24	7.29	-0.01	86.24	-7.29	0.000%
34	-3.51	-86.24	6.37	3.51	86.24	-6.37	0.000%
35	-6.40	-86.24	3.68	6.40	86.24	-3.68	0.000%
36	-7.31	-86.24	-0.24	7.31	86.24	0.24	0.000%
37	-6.30	-86.24	-3.78	6.30	86.24	3.78	0.000%

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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	
38	-3.77	-86.24	-6.38	3.77	86.24	6.38	0.000%
39	-0.02	-29.09	-6.22	0.02	29.09	6.22	0.000%
40	2.99	-29.09	-5.20	-2.99	29.09	5.20	0.000%
41	5.14	-29.09	-2.96	-5.14	29.09	2.96	0.000%
42	6.01	-29.09	0.02	-6.01	29.09	-0.02	0.000%
43	5.39	-29.09	3.14	-5.39	29.09	-3.14	0.000%
44	3.04	-29.09	5.25	-3.04	29.09	-5.25	0.000%
45	0.03	-29.09	5.97	-0.03	29.09	-5.97	0.000%
46	-2.98	-29.09	5.22	2.98	29.09	-5.22	0.000%
47	-5.33	-29.09	3.09	5.33	29.09	-3.09	0.000%
48	-6.01	-29.09	-0.03	6.01	29.09	0.03	0.000%
49	-5.19	-29.09	-3.01	5.19	29.09	3.01	0.000%
50	-3.02	-29.09	-5.25	3.02	29.09	5.25	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.0000001	0.0000001
2	Yes	4	0.0000001	0.00000432
3	Yes	4	0.0000001	0.00000466
4	Yes	4	0.0000001	0.00000868
5	Yes	4	0.0000001	0.00000787
6	Yes	4	0.0000001	0.00001048
7	Yes	4	0.0000001	0.00000915
8	Yes	4	0.0000001	0.00000827
9	Yes	4	0.0000001	0.00000750
10	Yes	4	0.0000001	0.00000440
11	Yes	4	0.0000001	0.00000477
12	Yes	4	0.0000001	0.00000830
13	Yes	4	0.0000001	0.00000752
14	Yes	4	0.0000001	0.00001061
15	Yes	4	0.0000001	0.00000928
16	Yes	4	0.0000001	0.00000873
17	Yes	4	0.0000001	0.00000792
18	Yes	4	0.0000001	0.00000421
19	Yes	4	0.0000001	0.00000454
20	Yes	4	0.0000001	0.00000806
21	Yes	4	0.0000001	0.00000734
22	Yes	4	0.0000001	0.00001037
23	Yes	4	0.0000001	0.00000912
24	Yes	4	0.0000001	0.00000798
25	Yes	4	0.0000001	0.00000727
26	Yes	4	0.0000001	0.00000001
27	Yes	4	0.0000001	0.00001738
28	Yes	4	0.0000001	0.00001809
29	Yes	4	0.0000001	0.00001850
30	Yes	4	0.0000001	0.00001847
31	Yes	4	0.0000001	0.00001831
32	Yes	4	0.0000001	0.00001841
33	Yes	4	0.0000001	0.00001840
34	Yes	4	0.0000001	0.00001797
35	Yes	4	0.0000001	0.00001725
36	Yes	4	0.0000001	0.00001689
37	Yes	4	0.0000001	0.00001694
38	Yes	4	0.0000001	0.00001700

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39	Yes	4	0.00000001	0.00000001
40	Yes	4	0.00000001	0.00000001
41	Yes	4	0.00000001	0.00000001
42	Yes	4	0.00000001	0.00000001
43	Yes	4	0.00000001	0.00000001
44	Yes	4	0.00000001	0.00000001
45	Yes	4	0.00000001	0.00000001
46	Yes	4	0.00000001	0.00000001
47	Yes	4	0.00000001	0.00000001
48	Yes	4	0.00000001	0.00000001
49	Yes	4	0.00000001	0.00000001
50	Yes	4	0.00000001	0.00000001

Maximum Tower Deflections - Service Wind

Section No.	Elevation <i>ft</i>	Horz. Deflection <i>in</i>	Gov. Load Comb.	Tilt <i>°</i>	Twist <i>°</i>
T1	120 - 100	2.698	43	0.1870	0.0453
T2	100 - 80	1.930	43	0.1752	0.0440
T3	80 - 60	1.217	43	0.1448	0.0342
T4	60 - 40	0.668	43	0.1032	0.0214
T5	40 - 20	0.290	43	0.0646	0.0100
T6	20 - 0	0.077	43	0.0301	0.0044

Critical Deflections and Radius of Curvature - Service Wind

Elevation <i>ft</i>	Appurtenance	Gov. Load Comb.	Deflection <i>in</i>	Tilt <i>°</i>	Twist <i>°</i>	Radius of Curvature <i>ft</i>
122.00	3"x12' Omni	43	2.698	0.1870	0.0453	532610
120.00	Lightning Rod	43	2.698	0.1870	0.0453	532610
118.00	Air 6449 B41 w/ Pipe Mount	43	2.621	0.1862	0.0454	532610
110.00	OPA65R-BU6DA w/ Mount Pipe	43	2.312	0.1826	0.0455	266308
96.50	MT6407-77A w/Mount Pipe	43	1.798	0.1713	0.0429	75307
86.00	60" x 12" x 5" w/ Mount Pipe	43	1.418	0.1558	0.0377	32817
57.00	PR-850	43	0.601	0.0970	0.0195	28762
55.00	1.9"Ø x 9.8' Pipe Mount	43	0.558	0.0930	0.0182	28800
51.00	PR-850	43	0.477	0.0852	0.0158	28851

Maximum Tower Deflections - Design Wind

Section No.	Elevation <i>ft</i>	Horz. Deflection <i>in</i>	Gov. Load Comb.	Tilt <i>°</i>	Twist <i>°</i>
T1	120 - 100	10.173	10	0.7016	0.1745
T2	100 - 80	7.287	10	0.6583	0.1698
T3	80 - 60	4.605	10	0.5451	0.1316
T4	60 - 40	2.530	10	0.3892	0.0825
T5	40 - 20	1.098	10	0.2441	0.0387
T6	20 - 0	0.292	10	0.1138	0.0170

tnxTower FDH Infrastructure Services 6521 Meridien Drive Raleigh, North Carolina 27616 Phone: (919) 755-1012 FAX: (919) 755-1031	Job	CT98078-L, Wilton, CT/Optasite	Page	37 of 41
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	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
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Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
122.00	3"x12' Omni	10	10.173	0.7016	0.1745	154613
120.00	Lightning Rod	10	10.173	0.7016	0.1745	154613
118.00	Air 6449 B41 w/ Pipe Mount	10	9.882	0.6988	0.1748	154613
110.00	OPA65R-BU6DA w/ Mount Pipe	10	8.722	0.6858	0.1753	77306
96.50	MT6407-77A w/Mount Pipe	10	6.792	0.6439	0.1651	20919
86.00	60" x 12" x 5" w/ Mount Pipe	10	5.361	0.5861	0.1452	8837
57.00	PR-850	10	2.275	0.3662	0.0750	7643
55.00	1.9"Ø x 9.8' Pipe Mount	10	2.113	0.3511	0.0701	7649
51.00	PR-850	10	1.808	0.3217	0.0607	7654

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	120	Leg	A325N	0.7500	4	3.78	29.82	0.127	1	Bolt Tension
		Diagonal	A325N	0.6250	1	3.46	7.88	0.439	1	Member Block Shear
T2	100	Top Girt	A325N	0.3750	1	0.49	4.47	0.109	1	Bolt Shear
		Leg	A325N	0.7500	4	14.42	29.82	0.484	1	Bolt Tension
T3	80	Diagonal	A325N	0.6250	1	6.47	7.88	0.821	1	Member Block Shear
		Leg	A325N	1.0000	4	23.15	53.01	0.437	1	Bolt Tension
T4	60	Diagonal	A325N	0.6250	1	4.56	8.63	0.528	1	Member Block Shear
		Top Girt	A325N	0.3750	1	1.87	4.47	0.418	1	Bolt Shear
T5	40	Leg	A325N	1.0000	4	30.18	53.01	0.569	1	Bolt Tension
		Diagonal	A325N	0.6250	1	4.73	8.63	0.548	1	Member Block Shear
T6	20	Leg	A325N	1.0000	6	23.77	53.01	0.448	1	Bolt Tension
		Diagonal	A325N	0.6250	1	6.45	12.43	0.519	1	Bolt Shear
T6	20	Diagonal	A325N	0.6250	1	6.19	12.43	0.498	1	Bolt Shear

Compression Checks

Leg Design Data (Compression)

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	1 3/4	20.00	4.88	133.7 K=1.00	2.4053	-21.65	30.39	0.712 ¹
T2	100 - 80	2 1/2	20.00	5.00	96.0 K=1.00	4.9087	-69.59	112.60	0.618 ¹
T3	80 - 60	2 3/4	20.02	4.88	85.2 K=1.00	5.9396	-107.76	157.26	0.685 ¹
T4	60 - 40	3	20.02	5.00	80.1 K=1.00	7.0686	-139.73	199.04	0.702 ¹
T5	40 - 20	3 1/4	20.02	5.20	76.8 K=1.00	8.2958	-165.19	242.55	0.681 ¹
T6	20 - 0	3 1/2	20.02	5.17	70.9 K=1.00	9.6211	-192.23	299.63	0.642 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	L2x2x3/16	7.35	3.43	108.4 K=1.04	0.7150	-3.51	12.48	0.282 ¹
T2	100 - 80	L2x2x3/16	7.43	3.43	108.3 K=1.04	0.7150	-6.60	12.49	0.529 ¹
T3	80 - 60	L2x2x3/16	8.38	4.00	121.7 K=1.00	0.7150	-4.24	10.62	0.399 ¹
T4	60 - 40	L2x2x3/16	9.70	4.65	141.5 K=1.00	0.7150	-4.78	8.06	0.593 ¹
T5	40 - 20	L3x3x1/4	13.88	6.87	139.3 K=1.00	1.4400	-6.30	16.78	0.376 ¹
T6	20 - 0	L3x3x1/4	14.96	7.39	149.8 K=1.00	1.4400	-6.19	14.50	0.427 ¹

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	40 - 20	L2x2x1/8	9.61	4.67	136.0 K=0.96	0.4844	-3.41	5.92	0.575 ¹
T6	20 - 0	L2x2x1/8	11.11	5.41	153.0 K=0.94	0.4844	-3.74	4.67	0.801 ¹

¹ P_u / φP_n controls

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Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	L2x2x1/8	5.50	5.06	152.8 K=1.00	0.4844	-0.49	4.69	0.104 ¹
T3	80 - 60	L2x2x1/8	5.54	5.02	151.4 K=1.00	0.4844	-1.87	4.77	0.391 ¹

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	1 3/4	20.00	4.88	133.7	2.4053	15.11	108.24	0.140 ¹
T2	100 - 80	2 1/2	20.00	5.00	96.0	4.9087	57.68	220.89	0.261 ¹
T3	80 - 60	2 3/4	20.02	4.88	85.2	5.9396	92.60	267.28	0.346 ¹
T4	60 - 40	3	20.02	5.00	80.1	7.0686	120.73	318.09	0.380 ¹
T5	40 - 20	3 1/4	20.02	4.81	71.0	8.2958	142.76	373.31	0.382 ¹
T6	20 - 0	3 1/2	20.02	4.84	66.3	9.6211	165.91	432.95	0.383 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	L2x2x3/16	7.35	3.43	69.6	0.4308	3.46	18.74	0.185 ¹
T2	100 - 80	L2x2x3/16	7.43	3.43	69.5	0.4308	6.47	18.74	0.345 ¹
T3	80 - 60	L2x2x3/16	7.52	3.57	72.7	0.4308	4.56	18.74	0.243 ¹
T4	60 - 40	L2x2x3/16	9.70	4.65	93.6	0.4308	4.73	18.74	0.253 ¹
T5	40 - 20	L3x3x1/4	13.37	6.63	87.4	0.9394	6.14	40.86	0.150 ¹
T6	20 - 0	L3x3x1/4	14.41	7.12	93.8	0.9394	5.98	40.86	0.146 ¹

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Tension)

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	40 - 20	L2x2x1/8	9.61	4.67	179.0	0.4844	3.41	15.69	0.217 ¹
T6	20 - 0	L2x2x1/8	11.11	5.41	207.3	0.4844	3.74	15.69	0.239 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	120 - 100	L2x2x1/8	5.50	5.06	102.6	0.3164	0.45	13.76	0.033 ¹
T3	80 - 60	L2x2x1/8	5.54	5.02	101.7	0.3164	1.87	13.76	0.136 ¹

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φP _{allow} K	% Capacity	Pass Fail
T1	120 - 100	Leg	1 3/4	2	-21.65	30.39	71.2	Pass
T2	100 - 80	Leg	2 1/2	32	-69.59	112.60	61.8	Pass
T3	80 - 60	Leg	2 3/4	59	-107.76	157.26	68.5	Pass
T4	60 - 40	Leg	3	89	-139.73	199.04	70.2	Pass
T5	40 - 20	Leg	3 1/4	116	-165.19	242.55	68.1	Pass
T6	20 - 0	Leg	3 1/2	137	-192.23	299.63	64.2	Pass
T1	120 - 100	Diagonal	L2x2x3/16	7	-3.51	12.48	28.2	Pass
							43.9 (b)	
T2	100 - 80	Diagonal	L2x2x3/16	37	-6.60	12.49	52.9	Pass
							82.1 (b)	
T3	80 - 60	Diagonal	L2x2x3/16	67	-4.24	10.62	39.9	Pass
							52.8 (b)	
T4	60 - 40	Diagonal	L2x2x3/16	94	-4.78	8.06	59.3	Pass
T5	40 - 20	Diagonal	L3x3x1/4	121	-6.30	16.78	37.6	Pass
							51.9 (b)	
T6	20 - 0	Diagonal	L3x3x1/4	142	-6.19	14.50	42.7	Pass
							49.8 (b)	
T5	40 - 20	Secondary Horizontal	L2x2x1/8	124	-3.41	5.92	57.5	Pass
T6	20 - 0	Secondary Horizontal	L2x2x1/8	145	-3.74	4.67	80.1	Pass
T1	120 - 100	Top Girt	L2x2x1/8	5	-0.49	4.69	10.4	Pass
							10.9 (b)	
T3	80 - 60	Top Girt	L2x2x1/8	61	-1.87	4.77	39.1	Pass
							41.8 (b)	
							Summary	
						Leg (T1)	71.2	Pass
						Diagonal (T2)	82.1	Pass
						Secondary Horizontal (T6)	80.1	Pass
						Top Girt (T3)	41.8	Pass

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	Client	SBA Network Services, Inc.	Designed by	Deepak Devulapally

<i>Section No.</i>	<i>Elevation ft</i>	<i>Component Type</i>	<i>Size</i>	<i>Critical Element</i>	<i>P K</i>	θP_{allow} <i>K</i>	<i>% Capacity</i>	<i>Pass Fail</i>
						Bolt Checks	82.1	Pass
						RATING =	82.1	Pass

Program Version 8.1.1.0 - 6/3/2021 File:C:/Users/deepak.devulapally/Desktop/Assigned Projects/CT98078-L - Wilton, CT_Optasite/PR-007866_SA_Verizon/R.0/Analysis/ReportedTower/CT98078-L, Wilton, CT_Optasite.eri

Self Support Anchor Rod Capacity

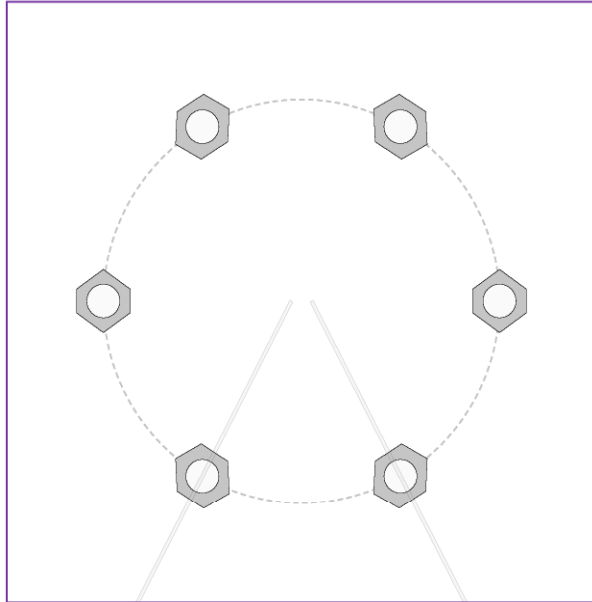
Site Info	
Site #	CT98078-L-03
Site Name	Wilton Tower
Project #	PR-007866

Analysis Considerations	
TIA-222 Revision	G
Grout Considered:	No
l_{ar} (in)	1
Eta Factor, η	0.5

Applied Loads		
	Comp.	Uplift
Axial Force (kips)	199.03	171.62
Shear Force (kips)	14.94	13.31

Considered Eccentricity	
Leg Mod Eccentricity (in)	0.000
Anchor Rod N.A Shift (in)	0.000
Total Eccentricity (in)	0.000

*Anchor Rod Eccentricity Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data	
(6) 1" ϕ bolts (A449 N; $F_y=92$ ksi, $F_u=120$ ksi)	
l_{ar} (in):	1

Anchor Rod Summary		<i>(units of kips, kip-in)</i>	
$Pu_c = 33.17$	$\phi Pn_t = 58.18$		Stress Rating
$Vu = 2.49$	$\phi Vn = n/a$		65.6%
$Mu = n/a$	$\phi Mn = n/a$		Pass

Pier and Pad Foundation

Site #: CT98078-L-03
 Site Name: Wilton Tower
 Project Number: PR-007866

TIA-222 Revision: G
 Tower Type: Self Support

Top & Bot. Pad Rein. Different?:
 Block Foundation?:
 Rectangular Pad?:

Superstructure Analysis Reactions		
Compression, P_{comp} :	199.03	kips
Compression Shear, $V_{u,comp}$:	14.94	kips
Uplift, P_{uplift} :	171.62	kips
Uplift Shear, $V_{u,uplift}$:	13.31	kips
Tower Height, H :	120	ft
Base Face Width, BW :	11.5	ft
BP Dist. Above Fdn, bp_{dist} :	2	in

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
<i>Uplift (kips)</i>	475.86	171.62	36.1%	Pass
<i>Lateral (Sliding) (kips)</i>	157.44	13.31	8.5%	Pass
<i>Bearing Pressure (ksf)</i>	9.77	1.85	19.0%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	851.87	104.58	12.3%	Pass
<i>Pier Flexure (Tension) (kip*ft)</i>	584.40	93.17	15.9%	Pass
<i>Pier Compression (kip)</i>	3374.26	207.94	6.2%	Pass
<i>Pad Flexure (kip*ft)</i>	2102.07	339.07	16.1%	Pass
<i>Pad Shear - 1-way (kips)</i>	361.68	67.72	18.7%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.164	0.053	32.5%	Pass

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, $dpier$:	3	ft
Ext. Above Grade, E :	0.5	ft
Pier Rebar Size, S_c :	8	
Pier Rebar Quantity, mc :	16	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	10	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Structural Rating: 32.5%
 Soil Rating: 36.1%

Pad Properties		
Depth, D :	8.5	ft
Pad Width, W_1 :	19	ft
Pad Thickness, T :	2	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	26	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	3	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	120	pcf
Ultimate Net Bearing, Q_{net} :	12,000	ksf
Cohesion, C_u :		ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :	8	
Base Friction, μ :	0.5	
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	N/A	ft

<--Toggle between Gross and Net



GPD Engineering And Architecture Professional Corporation
 520 South Main Street, Suite 2531
 Akron, OH 44311
 (317) 295-3174

Maser Consulting Contact:
 Peter.albano@colliersengineering.com
 (856) 371-9457

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10108062
 GPD Project #: 2021740.467920.02
 Maser Project #: 21777786

October 19, 2021

Site Information

Site ID: 467920-VZW / WILTON WEST CT
 Site Name: WILTON WEST CT
 Carrier Name: Verizon Wireless
 Address: 160 Deer Run Road
 Wilton, Connecticut 06897, Fairfield County
 Latitude: 41.241372°
 Longitude: -73.469889°

Structure Information

Tower Type: 118-Ft Self Support
 Mount Type: 10.50-Ft T-Frames

FUZE ID # 16092793

Analysis Results

T-Frames: 85.6% Pass

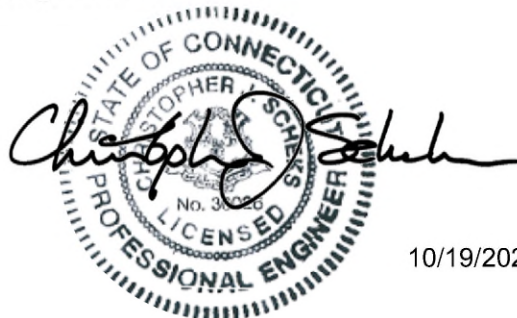
***Contractor PMI Requirements:

**Included at the end of this MA report
 Available & Submitted via portal at <https://pmi.vzwsmart.com>
 Contractor - Please Review Specific Site PMI Requirements Upon Award
 Requirements also Noted on Mount Modification Drawings
 Requirements may also be Noted on A & E drawings
 For additional questions and support, please reach out to:
pmisupport@colliersengineering.com**

Report Prepared by: Eric Nieto

Respectfully Submitted by:

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



10/19/2021

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

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
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 325159, dated 9/24/2021</i>
<i>Mount Mapping Report</i>	<i>Structural Components Site #: 16092793, dated 4/20/2021</i>
<i>Previous Mount Analysis Report</i>	<i>GPD Project #: 2021740.467920.01, dated 10/7/2021</i>
<i>Proposed Mount Modification Design</i>	<i>GPD Project #: 2021740.467920.02, dated 10/19/2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 116 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 : 0.978
Seismic Parameters:	S_s : 0.243 g S_1 : 0.057 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17.0.4)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
96.00	98.00	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6407-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Amphenol Antel	BXA-80090/8	Retained
		2	Raycap	RRFDC-3315-PF-48*	

* Equipment to be flush mounted directly to the Self Support. They are not mounted on t-frame mounts and are not included in this mount analysis.

The recent mount mapping did not report existing OVP units. However, 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.

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

BASELINE mount weight per SBA agreement: 1740 lbs

Increase in mount weight due to Verizon loading change per SBA agreement: 389 lbs

The weights listed above includes 3 sectors.

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to GPD 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 GPD 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. GPD 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, ASTM A307
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	24.4 %	Pass
Standoff Vertical End	27.1 %	Pass
Standoff Vertical Start	18.4 %	Pass
Face Horizontal	85.6 %	Pass
Mount Pipe (P2 STD)	39.3 %	Pass
Tieback	33.5 %	Pass
Mod Mount Pipe (P2.5 STD)	22.7 %	Pass
Mod Stabilizer Pipe	13.3 %	Pass
Mount Connection	81.6 %	Pass

Structure Rating – (Controlling Utilization of all Components)	85.6%
---	--------------

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption Wind Speed Letter





Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	SBA	Mapping Date:	4/20/2021
Site Name:	Wilton West CT	Tower Type:	Self Support
Site Number or ID:	16092793	Tower Height (Ft.):	100
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	92

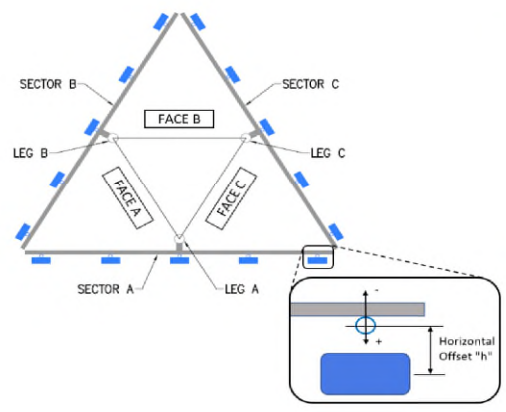
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is 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 A 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 the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

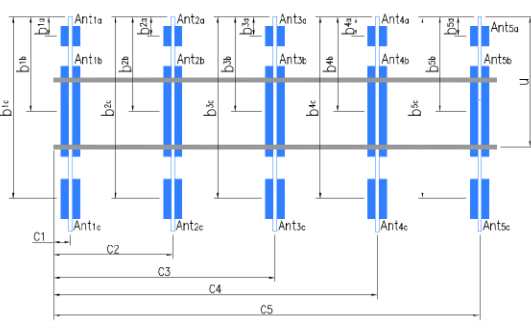
Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2-3/8x .15x 72	66.00	3.25	C1	2-3/8x .15x 72	64.75	3.50
A2	2-3/8x .15x 72	61.75	49.75	C2	2-3/8x .15x 72	61.50	50.00
A3	2-3/8x .15x 72	66.88	71.75	C3	2-3/8x .15x 72	66.00	71.00
A4	2-3/8x .15x 72	61.50	98.75	C4	2-3/8x .15x 72	61.75	97.00
A5	2-3/8x .15x 72	66.00	126.25	C5	2-3/8x .15x 72	62.50	124.50
A6				C6			
B1	2-3/8x .15x 72	65.25	4.25	D1			
B2	2-3/8x .15x 72	62.25	48.25	D2			
B3	2-3/8x .15x 72	65.00	71.50	D3			
B4	2-3/8x .15x 72	62.00	97.75	D4			
B5	2-3/8x .15x 72	65.50	124.75	D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. : 23.00
 Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.): 48
 Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):
 Please enter additional information or comments below.

Tower Face Width at Mount Elev. (ft.): 2.625 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.



Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}										
Ant _{1b}	bx-a-80090-8cf-edin	8.25	6.00	96.00	1-5/8"	92.4375	37.75	10.83	335.00	152, 154
Ant _{1c}										
Ant _{2a}										
Ant _{2b}	b66a rrh 4x45	12.00	7.00	25.50	jumpers	94.5417	8.25	-6.50	335.00	168-170
Ant _{2c}										
Ant _{3a}										
Ant _{3b}	sbnhh-1d85b	12.00	7.50	73.00	jumpers	93.9896	20.00	9.25	335.00	184,186
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	b13 rrh 4x30	12.00	7.50	20.50	jumpers	93.125	25.00	-7.00	335.00	194,202
Ant _{4c}										
Ant _{5a}										
Ant _{5b}	sbnhh-1d85b	12.00	7.50	73.00	jumpers	94.0417	18.50	8.75	335.00	216,186
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System

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

Mapping Notes

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

Standard Conditions

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



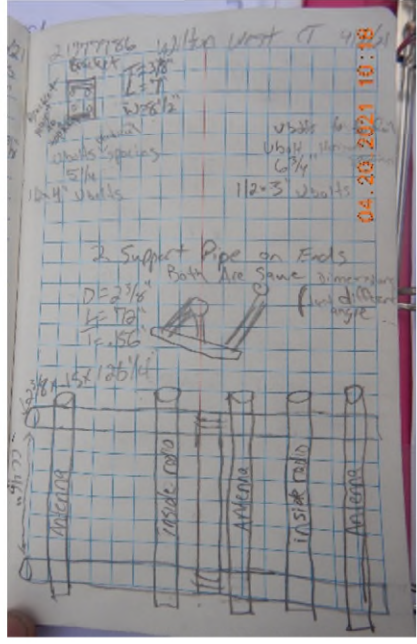
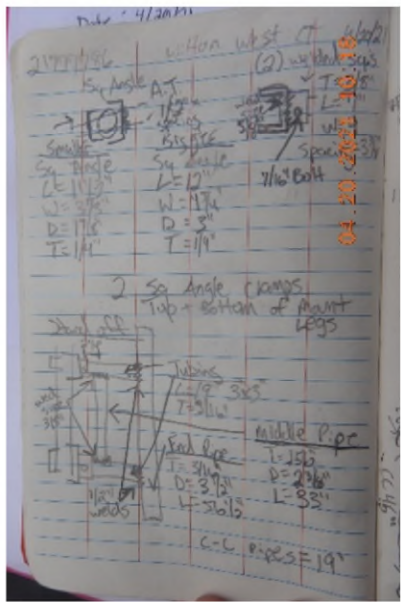
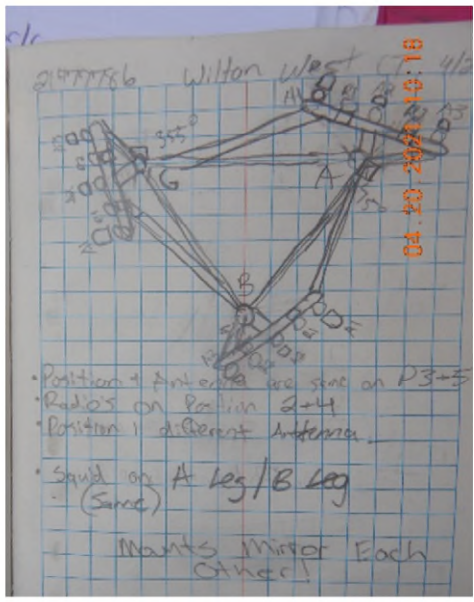
Antenna Mount Mapping Form (PATENT PENDING)

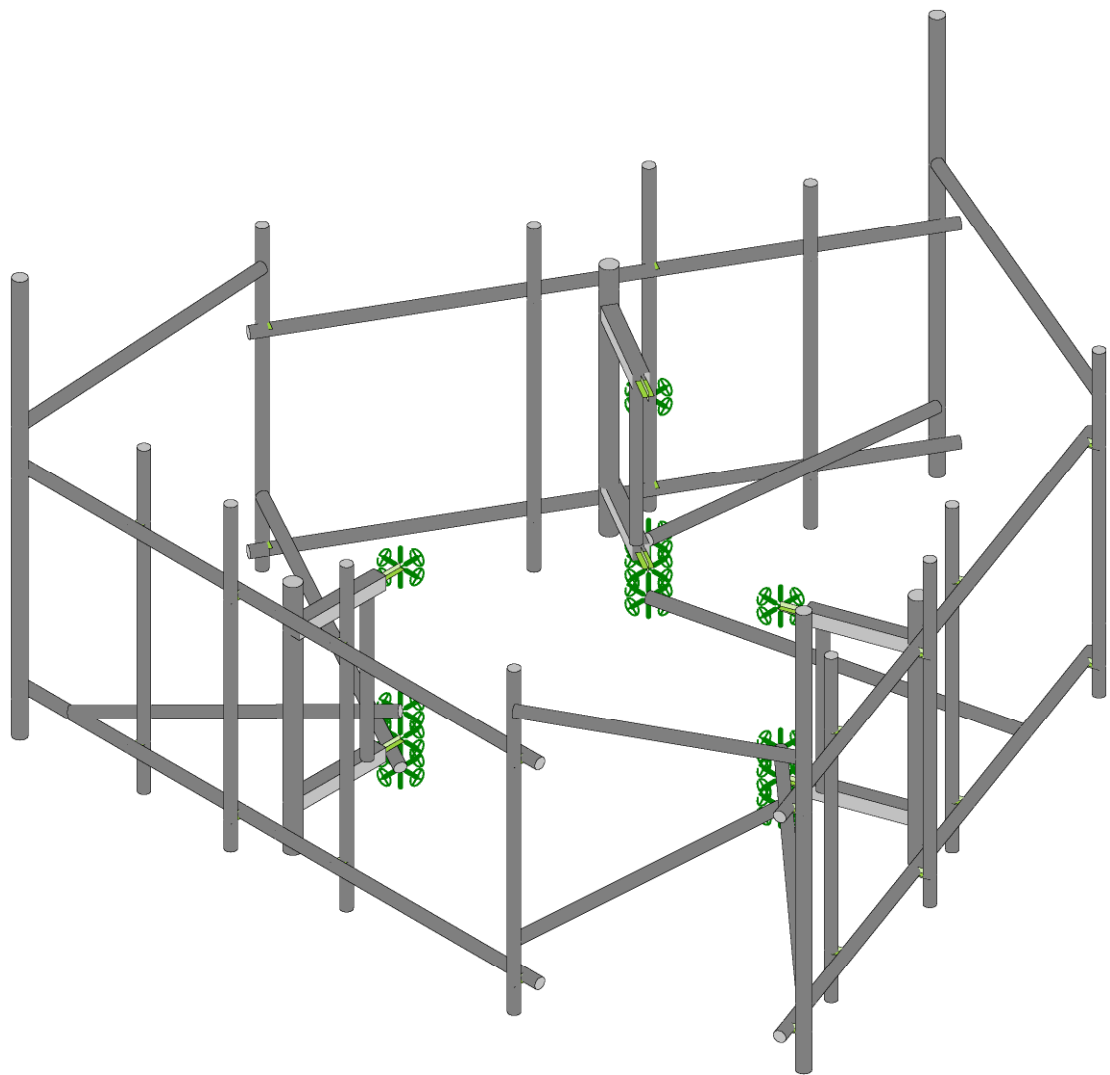
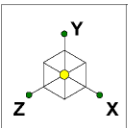
FCC #

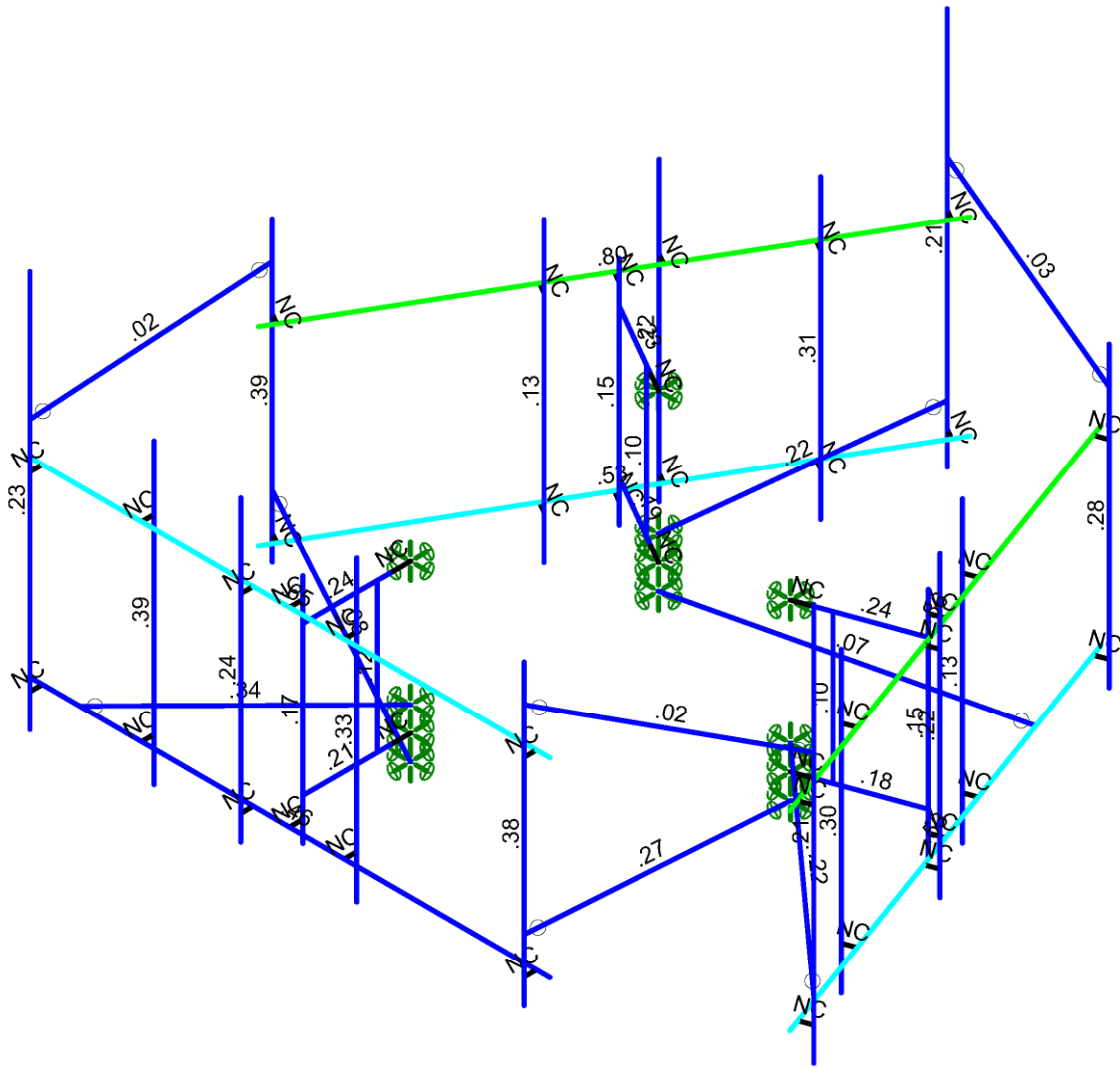
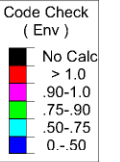
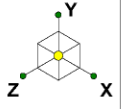
Tower Owner:	SBA	Mapping Date:	4/20/2021
Site Name:	Wilton West CT	Tower Type:	Self Support
Site Number or ID:	16092793	Tower Height (Ft.):	100
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	92

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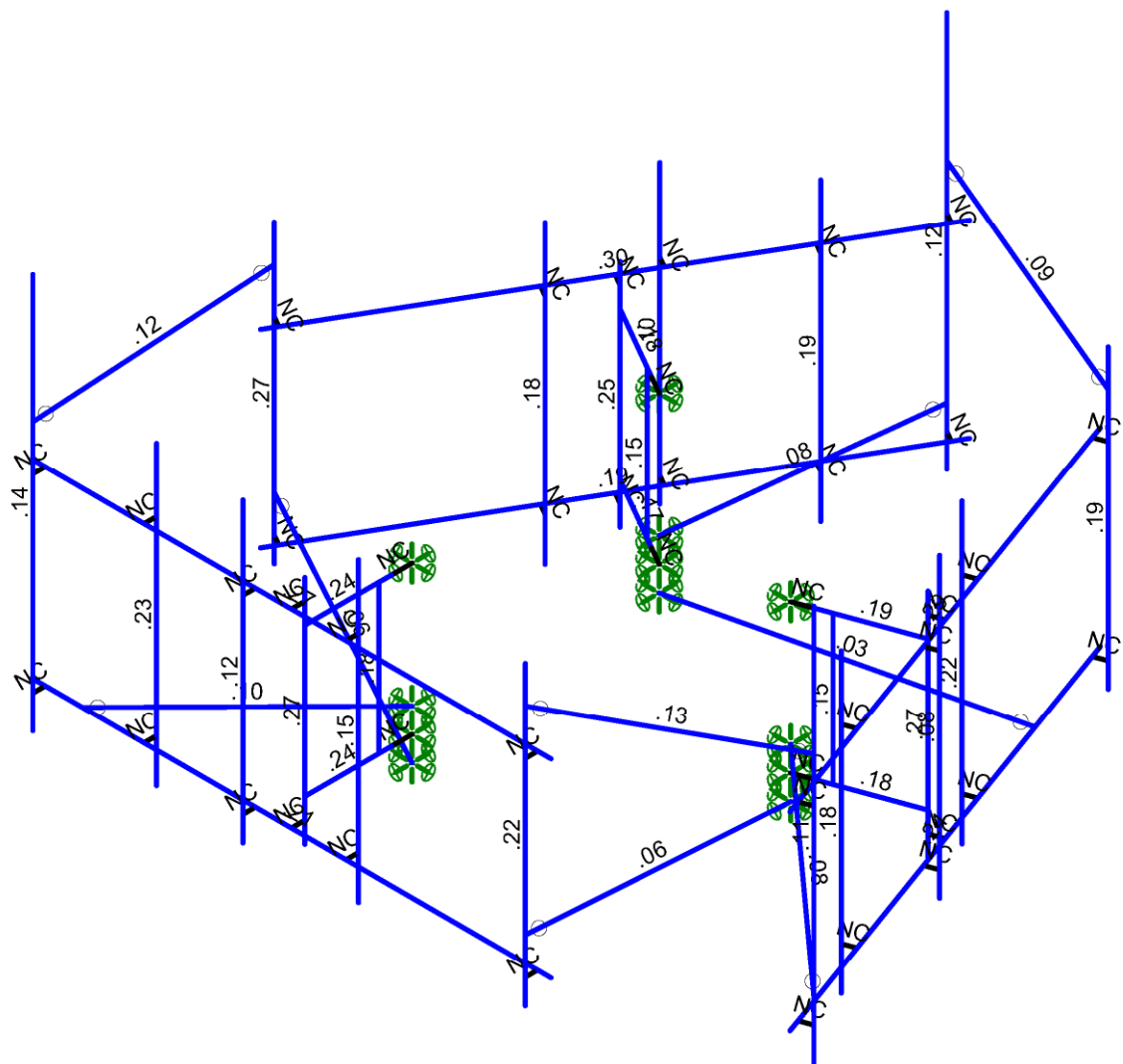
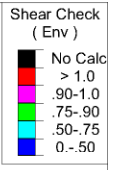
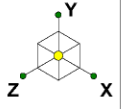
Please Insert Sketches of the Antenna Mount







Member Code Checks Displayed (Enveloped)
Results for LC 9, 1.2D+1.0Wo (240 Deg)



Member Shear Checks Displayed (Enveloped)
Results for LC 9, 1.2D+1.0Wo (240 Deg)



Company : GPD
 Designer : enieto
 Job Number : Project No. 10108062
 Model Name : 467920-VZW_MT_LO_H

Oct 19, 2021
 12:33 PM
 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gra...	Y Gra...	Z Grav...	Joint	Point	Distrib...	Area(Member)	Surface(Plate/W...
1	Antenna D	None					108			
2	Antenna Di	None					108			
3	Antenna Wo (0 Deg)	None					108			
4	Antenna Wo (30 Deg)	None					108			
5	Antenna Wo (60 Deg)	None					108			
6	Antenna Wo (90 Deg)	None					108			
7	Antenna Wo (120 Deg)	None					108			
8	Antenna Wo (150 Deg)	None					108			
9	Antenna Wo (180 Deg)	None					108			
10	Antenna Wo (210 Deg)	None					108			
11	Antenna Wo (240 Deg)	None					108			
12	Antenna Wo (270 Deg)	None					108			
13	Antenna Wo (300 Deg)	None					108			
14	Antenna Wo (330 Deg)	None					108			
15	Antenna Wi (0 Deg)	None					108			
16	Antenna Wi (30 Deg)	None					108			
17	Antenna Wi (60 Deg)	None					108			
18	Antenna Wi (90 Deg)	None					108			
19	Antenna Wi (120 Deg)	None					108			
20	Antenna Wi (150 Deg)	None					108			
21	Antenna Wi (180 Deg)	None					108			
22	Antenna Wi (210 Deg)	None					108			
23	Antenna Wi (240 Deg)	None					108			
24	Antenna Wi (270 Deg)	None					108			
25	Antenna Wi (300 Deg)	None					108			
26	Antenna Wi (330 Deg)	None					108			
27	Antenna Wm (0 Deg)	None					108			
28	Antenna Wm (30 Deg)	None					108			
29	Antenna Wm (60 Deg)	None					108			
30	Antenna Wm (90 Deg)	None					108			
31	Antenna Wm (120 Deg)	None					108			
32	Antenna Wm (150 Deg)	None					108			
33	Antenna Wm (180 Deg)	None					108			
34	Antenna Wm (210 Deg)	None					108			
35	Antenna Wm (240 Deg)	None					108			
36	Antenna Wm (270 Deg)	None					108			
37	Antenna Wm (300 Deg)	None					108			
38	Antenna Wm (330 Deg)	None					108			
39	Structure D	None		-1						
40	Structure Di	None						42		
41	Structure Wo (0 Deg)	None						84		
42	Structure Wo (30 Deg)	None						84		
43	Structure Wo (60 Deg)	None						84		
44	Structure Wo (90 Deg)	None						84		
45	Structure Wo (120 Deg)	None						84		
46	Structure Wo (150 Deg)	None						84		
47	Structure Wo (180 Deg)	None						84		
48	Structure Wo (210 Deg)	None						84		
49	Structure Wo (240 Deg)	None						84		
50	Structure Wo (270 Deg)	None						84		
51	Structure Wo (300 Deg)	None						84		
52	Structure Wo (330 Deg)	None						84		
53	Structure Wi (0 Deg)	None						84		
54	Structure Wi (30 Deg)	None						84		
55	Structure Wi (60 Deg)	None						84		
56	Structure Wi (90 Deg)	None						84		



Company : GPD
 Designer : enieto
 Job Number : Project No. 10108062
 Model Name : 467920-VZW_MT_LO_H

Oct 19, 2021
 12:33 PM
 Checked By: _____

Basic Load Cases (Continued)

BLC Description	Category	X Gra...	Y Gra...	Z Grav...	Joint	Point	Distrib...	Area(Member)	Surface(Plate/W...
57 Structure Wi (120 Deg)	None						84		
58 Structure Wi (150 Deg)	None						84		
59 Structure Wi (180 Deg)	None						84		
60 Structure Wi (210 Deg)	None						84		
61 Structure Wi (240 Deg)	None						84		
62 Structure Wi (270 Deg)	None						84		
63 Structure Wi (300 Deg)	None						84		
64 Structure Wi (330 Deg)	None						84		
65 Structure Wm (0 Deg)	None						84		
66 Structure Wm (30 Deg)	None						84		
67 Structure Wm (60 Deg)	None						84		
68 Structure Wm (90 Deg)	None						84		
69 Structure Wm (120 Deg)	None						84		
70 Structure Wm (150 Deg)	None						84		
71 Structure Wm (180 Deg)	None						84		
72 Structure Wm (210 Deg)	None						84		
73 Structure Wm (240 Deg)	None						84		
74 Structure Wm (270 Deg)	None						84		
75 Structure Wm (300 Deg)	None						84		
76 Structure Wm (330 Deg)	None						84		
77 Lm1	None					1			
78 Lm2	None					1			
79 Lv1	None					1			
80 Lv2	None					1			
81 Antenna Ev	None					108			
82 Antenna Eh (0 Deg)	None					72			
83 Antenna Eh (90 Deg)	None					72			
84 Structure Ev	ELY			-.052					
85 Structure Eh (0 Deg)	ELZ		-.13						
86 Structure Eh (90 Deg)	ELX			.13					

Load Combinations

Description	S...	PDel...	SRSSB...	Fa...B...	Fa...B...	BLC Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...
1 1.2D+1.0Wo (0 Deg)	Y...	Y		1	1.2	39	1.2	3	1	41	1				
2 1.2D+1.0Wo (30 Deg)	Y...	Y		1	1.2	39	1.2	4	1	42	1				
3 1.2D+1.0Wo (60 Deg)	Y...	Y		1	1.2	39	1.2	5	1	43	1				
4 1.2D+1.0Wo (90 Deg)	Y...	Y		1	1.2	39	1.2	6	1	44	1				
5 1.2D+1.0Wo (120 Deg)	Y...	Y		1	1.2	39	1.2	7	1	45	1				
6 1.2D+1.0Wo (150 Deg)	Y...	Y		1	1.2	39	1.2	8	1	46	1				
7 1.2D+1.0Wo (180 Deg)	Y...	Y		1	1.2	39	1.2	9	1	47	1				
8 1.2D+1.0Wo (210 Deg)	Y...	Y		1	1.2	39	1.2	10	1	48	1				
9 1.2D+1.0Wo (240 Deg)	Y...	Y		1	1.2	39	1.2	11	1	49	1				
10 1.2D+1.0Wo (270 Deg)	Y...	Y		1	1.2	39	1.2	12	1	50	1				
11 1.2D+1.0Wo (300 Deg)	Y...	Y		1	1.2	39	1.2	13	1	51	1				
12 1.2D+1.0Wo (330 Deg)	Y...	Y		1	1.2	39	1.2	14	1	52	1				
13 1.2D + 1.0Di + 1.0Wi (0 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1
14 1.2D + 1.0Di + 1.0Wi (30 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1
15 1.2D + 1.0Di + 1.0Wi (60 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1
16 1.2D + 1.0Di + 1.0Wi (90 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1
17 1.2D + 1.0Di + 1.0Wi (120 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1
18 1.2D + 1.0Di + 1.0Wi (150 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1
19 1.2D + 1.0Di + 1.0Wi (180 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1
20 1.2D + 1.0Di + 1.0Wi (210 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1
21 1.2D + 1.0Di + 1.0Wi (240 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1
22 1.2D + 1.0Di + 1.0Wi (270 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1

Load Combinations (Continued)

	Description	S...	PDel...	SRSSB...	Fa...B...	Fa...BLC	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	Fa...B...	
23	1.2D + 1.0Di + 1.0Wi (300 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1		
24	1.2D + 1.0Di + 1.0Wi (330 Deg)	Y...	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1		
25	1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	27	1	65	1				
26	1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	28	1	66	1				
27	1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	29	1	67	1				
28	1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	30	1	68	1				
29	1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	31	1	69	1				
30	1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	32	1	70	1				
31	1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	33	1	71	1				
32	1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	34	1	72	1				
33	1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	35	1	73	1				
34	1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	36	1	74	1				
35	1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	37	1	75	1				
36	1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Y...	Y		1	1.2	39	1.2	77	1.5	38	1	76	1				
37	1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	27	1	65	1				
38	1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	28	1	66	1				
39	1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	29	1	67	1				
40	1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	30	1	68	1				
41	1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	31	1	69	1				
42	1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	32	1	70	1				
43	1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	33	1	71	1				
44	1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	34	1	72	1				
45	1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	35	1	73	1				
46	1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	36	1	74	1				
47	1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	37	1	75	1				
48	1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Y...	Y		1	1.2	39	1.2	78	1.5	38	1	76	1				
49	1.2D + 1.5Lv1	Y...	Y		1	1.2	39	1.2	79	1.5								
50	1.2D + 1.5Lv2	Y...	Y		1	1.2	39	1.2	80	1.5								
51	1.4D	Y...	Y		1	1.4	39	1.4										
52	1.2D + 1.0Ev + 1.0Eh (0 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82	1	83	E...	1	E...
53	1.2D + 1.0Ev + 1.0Eh (30 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82.866	83.5	E...	.866	E...	.5
54	1.2D + 1.0Ev + 1.0Eh (60 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82.5	83.866	E...	.5	E...	.866
55	1.2D + 1.0Ev + 1.0Eh (90 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82	83	1	E...	E...	1
56	1.2D + 1.0Ev + 1.0Eh (120 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82-.5	83.866	E...	-.5	E...	.866
57	1.2D + 1.0Ev + 1.0Eh (150 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82-.8	83.5	E...	-.8	E...	.5
58	1.2D + 1.0Ev + 1.0Eh (180 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82-1	83	E...	-1	E...	
59	1.2D + 1.0Ev + 1.0Eh (210 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82-.8	83-.5	E...	-.8	E...	-.5
60	1.2D + 1.0Ev + 1.0Eh (240 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82-.5	83-.8	E...	-.5	E...	-.8
61	1.2D + 1.0Ev + 1.0Eh (270 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82	83-1	E...	E...	-1	
62	1.2D + 1.0Ev + 1.0Eh (300 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82.5	83-.8	E...	.5	E...	-.8
63	1.2D + 1.0Ev + 1.0Eh (330 Deg)		Y		1	1.2	39	1.2	81	1	E...	1	82.866	83-.5	E...	.866	E...	-.5
64	0.9D - 1.0Ev + 1.0Eh (0 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82	83	E...	1	E...	
65	0.9D - 1.0Ev + 1.0Eh (30 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82.866	83.5	E...	.866	E...	.5
66	0.9D - 1.0Ev + 1.0Eh (60 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82.5	83.866	E...	.5	E...	.866
67	0.9D - 1.0Ev + 1.0Eh (90 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82	83	1	E...	E...	1
68	0.9D - 1.0Ev + 1.0Eh (120 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82-.5	83.866	E...	-.5	E...	.866
69	0.9D - 1.0Ev + 1.0Eh (150 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82-.8	83.5	E...	-.8	E...	.5
70	0.9D - 1.0Ev + 1.0Eh (180 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82-1	83	E...	-1	E...	
71	0.9D - 1.0Ev + 1.0Eh (210 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82-.8	83-.5	E...	-.8	E...	-.5
72	0.9D - 1.0Ev + 1.0Eh (240 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82-.5	83-.8	E...	-.5	E...	-.8
73	0.9D - 1.0Ev + 1.0Eh (270 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82	83-1	E...	E...	-1	
74	0.9D - 1.0Ev + 1.0Eh (300 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82.5	83-.8	E...	.5	E...	-.8
75	0.9D - 1.0Ev + 1.0Eh (330 Deg)		Y		1	.9	39	.9	81	-1	E...	-1	82.866	83-.5	E...	.866	E...	-.5



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 Designer : enieto
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Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	A4	1.587713	0	0	0	
2	A5	0.24572	1.5	2.877914	0	
3	A6	0.24572	-1.5	2.877914	0	
4	A7	0.24572	1.5	3.29458	0	
5	A8	0.24572	-1.5	3.29458	0	
6	A9	0.24572	1.5	3.54458	0	
7	A10	0.24572	-1.5	3.54458	0	
8	A11	0.24572	1.5	5.04458	0	
9	A12	0.24572	-1.5	5.04458	0	
10	A13	0.24572	2.333333	5.04458	0	
11	A14	0.24572	-2.333333	5.04458	0	
12	A15	0.24572	-1.916667	5.04458	0	
13	A16	0.24572	1.916667	5.04458	0	
14	A17	-5.00428	-1.916667	5.315414	0	
15	A18	-5.00428	1.916667	5.315414	0	
16	A19	5.49572	-1.916667	5.315414	0	
17	A20	5.49572	1.916667	5.315414	0	
18	A21	0.24572	-1.916667	5.315414	0	
19	A22	0.24572	1.916667	5.315414	0	
20	A23	5.224887	-1.916667	5.315414	0	
21	A24	5.224887	1.916667	5.315414	0	
22	A25	1.349887	-1.916667	5.315414	0	
23	A26	1.349887	1.916667	5.315414	0	
24	A27	-0.483447	-1.916667	5.315414	0	
25	A28	-0.483447	1.916667	5.315414	0	
26	A29	-2.733447	-1.916667	5.315414	0	
27	A30	-2.733447	1.916667	5.315414	0	
28	A31	-4.733447	-1.916667	5.315414	0	
29	A32	-4.733447	1.916667	5.315414	0	
30	A33	5.224887	-1.916667	5.565414	0	
31	A34	5.224887	1.916667	5.565414	0	
32	A35	-0.483447	-1.916667	5.565414	0	
33	A36	-0.483447	1.916667	5.565414	0	
34	A37	-4.733447	-1.916667	5.565414	0	
35	A38	-4.733447	1.916667	5.565414	0	
36	A39	1.349887	-1.916667	5.065414	0	
37	A40	1.349887	1.916667	5.065414	0	
38	A41	-2.733447	-1.916667	5.065414	0	
39	A42	-2.733447	1.916667	5.065414	0	
40	A43	5.224887	3.583333	5.565414	0	
41	A44	-0.483447	3.583333	5.565414	0	
42	A45	-4.733447	5.416663	5.565414	0	
43	A46	5.224887	-2.416667	5.565414	0	
44	A47	-0.483447	-2.416667	5.565414	0	
45	A48	-4.733447	-2.583667	5.565414	0	
46	A49	1.349887	3.208333	5.065414	0	
47	A50	-2.733447	3.208333	5.065414	0	
48	A51	1.349887	-2.791667	5.065414	0	
49	A52	-2.733447	-2.791667	5.065414	0	
50	B54	-0.233637	1.5	-2.601157	0	
51	B55	-0.233637	-1.5	-2.601157	0	
52	B56	-0.59448	1.5	-2.80949	0	
53	B57	-0.59448	-1.5	-2.80949	0	
54	B58	-0.810987	1.5	-2.93449	0	
55	B59	-0.810987	-1.5	-2.93449	0	
56	B60	-2.110025	1.5	-3.68449	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	B61	-2.110025	-1.5	-3.68449	0	
58	B62	-2.110025	2.333333	-3.68449	0	
59	B63	-2.110025	-2.333333	-3.68449	0	
60	B64	-2.110025	-1.916667	-3.68449	0	
61	B65	-2.110025	1.916667	-3.68449	0	
62	B66	0.280427	-1.916667	-8.36654	0	
63	B67	0.280427	1.916667	-8.36654	0	
64	B68	-4.969573	-1.916667	0.726726	0	
65	B69	-4.969573	1.916667	0.726726	0	
66	B70	-2.344573	-1.916667	-3.819907	0	
67	B71	-2.344573	1.916667	-3.819907	0	
68	B72	-4.834157	-1.916667	0.492178	0	
69	B73	-4.834157	1.916667	0.492178	0	
70	B74	-2.896657	-1.916667	-2.863671	0	
71	B75	-2.896657	1.916667	-2.863671	0	
72	B76	-1.97999	-1.916667	-4.451384	0	
73	B77	-1.97999	1.916667	-4.451384	0	
74	B78	-0.85499	-1.916667	-6.399941	0	
75	B79	-0.85499	1.916667	-6.399941	0	
76	B80	0.14501	-1.916667	-8.131992	0	
77	B81	0.14501	1.916667	-8.131992	0	
78	B82	-5.050663	-1.916667	0.367178	0	
79	B83	-5.050663	1.916667	0.367178	0	
80	B84	-2.196497	-1.916667	-4.576384	0	
81	B85	-2.196497	1.916667	-4.576384	0	
82	B86	-0.071497	-1.916667	-8.256992	0	
83	B87	-0.071497	1.916667	-8.256992	0	
84	B88	-2.68015	-1.916667	-2.738671	0	
85	B89	-2.68015	1.916667	-2.738671	0	
86	B90	-0.638484	-1.916667	-6.274941	0	
87	B91	-0.638484	1.916667	-6.274941	0	
88	B92	-5.050663	3.583333	0.367178	0	
89	B93	-2.196497	3.583333	-4.576384	0	
90	B94	-0.071497	5.416663	-8.256992	0	
91	B95	-5.050663	-2.416667	0.367178	0	
92	B96	-2.196497	-2.416667	-4.576384	0	
93	B97	-0.071497	-2.583667	-8.256992	0	
94	B98	-2.68015	3.208333	-2.738671	0	
95	B99	-0.638484	3.208333	-6.274941	0	
96	B100	-2.68015	-2.791667	-2.738671	0	
97	B101	-0.638484	-2.791667	-6.274941	0	
98	C102	4.751056	1.5	-0.276757	0	
99	C103	4.751056	-1.5	-0.276757	0	
100	C104	5.142595	1.5	-0.419265	0	
101	C105	5.142595	-1.5	-0.419265	0	
102	C106	5.377518	1.5	-0.50477	0	
103	C107	5.377518	-1.5	-0.50477	0	
104	C108	6.787057	1.5	-1.0178	0	
105	C109	6.787057	-1.5	-1.0178	0	
106	C110	6.787057	2.333333	-1.0178	0	
107	C111	6.787057	-2.333333	-1.0178	0	
108	C112	6.787057	-1.916667	-1.0178	0	
109	C113	6.787057	1.916667	-1.0178	0	
110	C114	8.837163	-1.916667	3.822956	0	
111	C115	8.837163	1.916667	3.822956	0	
112	C116	5.245951	-1.916667	-6.043817	0	
113	C117	5.245951	1.916667	-6.043817	0	



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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
114	C118	7.041557	-1.916667	-1.110431	0	
115	C119	7.041557	1.916667	-1.110431	0	
116	C120	5.338582	-1.916667	-5.789317	0	
117	C121	5.338582	1.916667	-5.789317	0	
118	C122	6.66391	-1.916667	-2.148008	0	
119	C123	6.66391	1.916667	-2.148008	0	
120	C124	7.290947	-1.916667	-0.425238	0	
121	C125	7.290947	1.916667	-0.425238	0	
122	C126	8.060492	-1.916667	1.68907	0	
123	C127	8.060492	1.916667	1.68907	0	
124	C128	8.744532	-1.916667	3.568455	0	
125	C129	8.744532	1.916667	3.568455	0	
126	C130	5.573505	-1.916667	-5.874822	0	
127	C131	5.573505	1.916667	-5.874822	0	
128	C132	7.52587	-1.916667	-0.510743	0	
129	C133	7.52587	1.916667	-0.510743	0	
130	C134	8.979455	-1.916667	3.48295	0	
131	C135	8.979455	1.916667	3.48295	0	
132	C136	6.428987	-1.916667	-2.062503	0	
133	C137	6.428987	1.916667	-2.062503	0	
134	C138	7.825569	-1.916667	1.774575	0	
135	C139	7.825569	1.916667	1.774575	0	
136	C140	5.573505	3.583333	-5.874822	0	
137	C141	7.52587	3.583333	-0.510743	0	
138	C142	8.979455	5.416663	3.48295	0	
139	C143	5.573505	-2.416667	-5.874822	0	
140	C144	7.52587	-2.416667	-0.510743	0	
141	C145	8.979455	-2.583667	3.48295	0	
142	C146	6.428987	3.208333	-2.062503	0	
143	C147	7.825569	3.208333	1.774575	0	
144	C148	6.428987	-2.791667	-2.062503	0	
145	C149	7.825569	-2.791667	1.774575	0	
146	N149	-3.983447	-1.916667	5.315414	0	
147	N150	0.24572	-1	2.877914	0	
148	N151	5.224887	-1.166667	5.565414	0	
149	N152	-0.233637	-1	-2.601157	0	
150	N153	4.751056	-1	-0.276757	0	
151	N155	-0.233637	-2	-2.601157	0	
152	N156	4.751056	-2	-0.276757	0	
153	C157	8.488017	-1.916667	2.863686	0	
154	C159	5.573505	-1.166667	-5.874822	0	
155	B159	-0.22999	-1.916667	-7.482473	0	
156	B161	-5.050663	-1.166667	0.367178	0	
157	B162	0.24572	-2	2.877914	0	
158	N158	5.224887	2.833333	5.565414	0	
159	N159	-4.733447	2.833333	5.565414	0	
160	N160	-5.050663	2.833333	0.367178	0	
161	N161	-0.071497	2.833333	-8.256992	0	
162	N162	5.573505	2.833333	-5.874822	0	
163	N163	8.979455	2.833333	3.48295	0	
164	N164	-0.071497	-1.416667	-8.256992	0	
165	N165	8.979455	-1.416667	3.48295	0	
166	N166	6.001247	-1.916667	-3.968659	0	



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Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules A [in..Jyy [i..Jzz [i..J [in4]
1	Standoff Horizontal	HSS3X3X3	None	None	A500 Gr.B RE...	Typical 1.89 2.46 2.46 4.03
2	Standoff Vertical End	PIPE_3.0	None	None	A53 Gr.B	Typical 2.07 2.85 2.85 5.69
3	Standoff Vertical Start	PIPE_2.0	None	None	A53 Gr.B	Typical 1.02 .627 .627 1.25
4	Face Horizontal	PIPE_2.0	None	None	A53 Gr.B	Typical 1.02 .627 .627 1.25
5	Mount Pipe (P2 STD)	PIPE_2.0	None	None	A53 Gr.B	Typical 1.02 .627 .627 1.25
6	Tieback	PIPE_2.0	None	None	A53 Gr.B	Typical 1.02 .627 .627 1.25
7	Mod Mount Pipe (P2.5 STD)	PIPE_2.5	None	None	A53 Gr.B	Typical 1.61 1.45 1.45 2.89
8	Mod Stabilizer Pipe	PIPE_2.0	None	None	A53 Gr.B	Typical 1.02 .627 .627 1.25

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	.3	.65	.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	.3	.65	.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
9	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	A1	A7	A11			Standoff Horizontal	None	None	A500 Gr....	Typical
2	A2	A8	A12			Standoff Horizontal	None	None	A500 Gr....	Typical
3	A3	A8	A6			RIGID	None	None	RIGID	Typical
4	A4	A7	A5			RIGID	None	None	RIGID	Typical
5	A5	A9	A10			Standoff Vertical Start	None	None	A53 Gr.B	Typical
6	A6	A13	A14			Standoff Vertical End	None	None	A53 Gr.B	Typical
7	A7	A18	A20			Face Horizontal	None	None	A53 Gr.B	Typical
8	A8	A17	A19			Face Horizontal	None	None	A53 Gr.B	Typical
9	A9	A15	A21			RIGID	None	None	RIGID	Typical
10	A10	A16	A22			RIGID	None	None	RIGID	Typical
11	A11	A31	A37			RIGID	None	None	RIGID	Typical
12	A12	A32	A38			RIGID	None	None	RIGID	Typical
13	A13	A29	A41			RIGID	None	None	RIGID	Typical
14	A14	A30	A42			RIGID	None	None	RIGID	Typical
15	A15	A27	A35			RIGID	None	None	RIGID	Typical
16	A16	A25	A39			RIGID	None	None	RIGID	Typical
17	A17	A28	A36			RIGID	None	None	RIGID	Typical
18	A18	A26	A40			RIGID	None	None	RIGID	Typical
19	A19	A23	A33			RIGID	None	None	RIGID	Typical
20	A20	A24	A34			RIGID	None	None	RIGID	Typical
21	B26	B56	B60			Standoff Horizontal	None	None	A500 Gr....	Typical
22	B27	B57	B61			Standoff Horizontal	None	None	A500 Gr....	Typical
23	B28	B57	B55			RIGID	None	None	RIGID	Typical
24	B29	B56	B54			RIGID	None	None	RIGID	Typical
25	B30	B58	B59			Standoff Vertical Start	None	None	A53 Gr.B	Typical
26	B31	B62	B63			Standoff Vertical End	None	None	A53 Gr.B	Typical
27	B32	B67	B69			Face Horizontal	None	None	A53 Gr.B	Typical
28	B33	B66	B68			Face Horizontal	None	None	A53 Gr.B	Typical
29	B34	B64	B70			RIGID	None	None	RIGID	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
30	B35	B65	B71			RIGID	None	None	RIGID	Typical
31	B36	B80	B86			RIGID	None	None	RIGID	Typical
32	B37	B81	B87			RIGID	None	None	RIGID	Typical
33	B38	B78	B90			RIGID	None	None	RIGID	Typical
34	B39	B79	B91			RIGID	None	None	RIGID	Typical
35	B40	B76	B84			RIGID	None	None	RIGID	Typical
36	B41	B74	B88			RIGID	None	None	RIGID	Typical
37	B42	B77	B85			RIGID	None	None	RIGID	Typical
38	B43	B75	B89			RIGID	None	None	RIGID	Typical
39	B44	B72	B82			RIGID	None	None	RIGID	Typical
40	B45	B73	B83			RIGID	None	None	RIGID	Typical
41	B80	N164	N152			Tieback	None	None	A53 Gr.B	Typical
42	B81	B161	B162			Tieback	None	None	A53 Gr.B	Typical
43	C51	C104	C108			Standoff Horizontal	None	None	A500 Gr....	Typical
44	C52	C105	C109			Standoff Horizontal	None	None	A500 Gr....	Typical
45	C53	C105	C103			RIGID	None	None	RIGID	Typical
46	C54	C104	C102			RIGID	None	None	RIGID	Typical
47	C55	C106	C107			Standoff Vertical Start	None	None	A53 Gr.B	Typical
48	C56	C110	C111			Standoff Vertical End	None	None	A53 Gr.B	Typical
49	C57	C115	C117			Face Horizontal	None	None	A53 Gr.B	Typical
50	C58	C114	C116			Face Horizontal	None	None	A53 Gr.B	Typical
51	C59	C112	C118			RIGID	None	None	RIGID	Typical
52	C60	C113	C119			RIGID	None	None	RIGID	Typical
53	C61	C128	C134			RIGID	None	None	RIGID	Typical
54	C62	C129	C135			RIGID	None	None	RIGID	Typical
55	C63	C126	C138			RIGID	None	None	RIGID	Typical
56	C64	C127	C139			RIGID	None	None	RIGID	Typical
57	C65	C124	C132			RIGID	None	None	RIGID	Typical
58	C66	C122	C136			RIGID	None	None	RIGID	Typical
59	C67	C125	C133			RIGID	None	None	RIGID	Typical
60	C68	C123	C137			RIGID	None	None	RIGID	Typical
61	C69	C120	C130			RIGID	None	None	RIGID	Typical
62	C70	C121	C131			RIGID	None	None	RIGID	Typical
63	C78	N165	N153			Tieback	None	None	A53 Gr.B	Typical
64	C79	N166	N155			Tieback	None	None	A53 Gr.B	Typical
65	M76	N149	N150			Tieback	None	None	A53 Gr.B	Typical
66	M77	N151	N156			Tieback	None	None	A53 Gr.B	Typical
67	MP1A	A43	A46			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
68	MP1B	B92	B95			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
69	MP1C	C140	C143			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
70	MP2A	A49	A51			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
71	MP2B	B98	B100			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
72	MP2C	C146	C148			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
73	MP3A	A44	A47			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
74	MP3B	B93	B96			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
75	MP3C	C141	C144			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
76	MP4A	A50	A52			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
77	MP4B	B99	B101			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
78	MP4C	C147	C149			Mount Pipe (P2 STD)	None	None	A53 Gr.B	Typical
79	MP5A	A45	A48			Mod Mount Pipe (P2.5 STD)	None	None	A53 Gr.B	Typical
80	MP5B	B94	B97			Mod Mount Pipe (P2.5 STD)	None	None	A53 Gr.B	Typical
81	MP5C	C142	C145			Mod Mount Pipe (P2.5 STD)	None	None	A53 Gr.B	Typical
82	M82	N159	N160			Mod Stabilizer Pipe	None	None	A53 Gr.B	Typical
83	M83	N161	N162			Mod Stabilizer Pipe	None	None	A53 Gr.B	Typical
84	M84	N158	N163			Mod Stabilizer Pipe	None	None	A53 Gr.B	Typical



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Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Opti...	Analysis Offs...	Inactive	Seismi...
1	A1						Yes	** NA **				None
2	A2						Yes	** NA **				None
3	A3						Yes	** NA **				None
4	A4						Yes	** NA **				None
5	A5						Yes	** NA **				None
6	A6						Yes	** NA **				None
7	A7						Yes	** NA **				None
8	A8						Yes	** NA **				None
9	A9						Yes	** NA **				None
10	A10						Yes	** NA **				None
11	A11						Yes	** NA **				None
12	A12						Yes	** NA **				None
13	A13						Yes	** NA **				None
14	A14						Yes	** NA **				None
15	A15						Yes	** NA **				None
16	A16						Yes	** NA **				None
17	A17						Yes	** NA **				None
18	A18						Yes	** NA **				None
19	A19						Yes	** NA **				None
20	A20						Yes	** NA **				None
21	B26						Yes	** NA **				None
22	B27						Yes	** NA **				None
23	B28						Yes	** NA **				None
24	B29						Yes	** NA **				None
25	B30						Yes	** NA **				None
26	B31						Yes	** NA **				None
27	B32						Yes	** NA **				None
28	B33						Yes	** NA **				None
29	B34						Yes	** NA **				None
30	B35						Yes	** NA **				None
31	B36						Yes	** NA **				None
32	B37						Yes	** NA **				None
33	B38						Yes	** NA **				None
34	B39						Yes	** NA **				None
35	B40						Yes	** NA **				None
36	B41						Yes	** NA **				None
37	B42						Yes	** NA **				None
38	B43						Yes	** NA **				None
39	B44						Yes	** NA **				None
40	B45						Yes	** NA **				None
41	B80	BenPIN					Yes	** NA **				None
42	B81	BenPIN					Yes	** NA **				None
43	C51						Yes	** NA **				None
44	C52						Yes	** NA **				None
45	C53						Yes	** NA **				None
46	C54						Yes	** NA **				None
47	C55						Yes	** NA **				None
48	C56						Yes	** NA **				None
49	C57						Yes	** NA **				None
50	C58						Yes	** NA **				None
51	C59						Yes	** NA **				None
52	C60						Yes	** NA **				None
53	C61						Yes	** NA **				None
54	C62						Yes	** NA **				None
55	C63						Yes	** NA **				None
56	C64						Yes	** NA **				None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Opti...	Analysis Offs...	Inactive	Seismi...
57	C65						Yes	** NA **				None
58	C66						Yes	** NA **				None
59	C67						Yes	** NA **				None
60	C68						Yes	** NA **				None
61	C69						Yes	** NA **				None
62	C70						Yes	** NA **				None
63	C78	BenPIN					Yes	** NA **				None
64	C79	BenPIN					Yes	** NA **				None
65	M76	BenPIN					Yes	** NA **				None
66	M77	BenPIN					Yes	** NA **				None
67	MP1A						Yes	** NA **				None
68	MP1B						Yes	** NA **				None
69	MP1C						Yes	** NA **				None
70	MP2A						Yes	** NA **				None
71	MP2B						Yes	** NA **				None
72	MP2C						Yes	** NA **				None
73	MP3A						Yes	** NA **				None
74	MP3B						Yes	** NA **				None
75	MP3C						Yes	** NA **				None
76	MP4A						Yes	** NA **				None
77	MP4B						Yes	** NA **				None
78	MP4C						Yes	** NA **				None
79	MP5A						Yes	** NA **				None
80	MP5B						Yes	** NA **				None
81	MP5C						Yes	** NA **				None
82	M82	BenPIN	BenPIN				Yes	** NA **				None
83	M83	BenPIN	BenPIN				Yes	** NA **				None
84	M84	BenPIN	BenPIN				Yes	** NA **				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Y	-23	.68
2	MP5A	My	-.023	.68
3	MP5A	Mz	.019	.68
4	MP5A	Y	-23	6.16
5	MP5A	My	-.023	6.16
6	MP5A	Mz	.019	6.16
7	MP5B	Y	-23	.68
8	MP5B	My	-.005	.68
9	MP5B	Mz	-.03	.68
10	MP5B	Y	-23	6.16
11	MP5B	My	-.005	6.16
12	MP5B	Mz	-.03	6.16
13	MP5C	Y	-23	.68
14	MP5C	My	.026	.68
15	MP5C	Mz	.015	.68
16	MP5C	Y	-23	6.16
17	MP5C	My	.026	6.16
18	MP5C	Mz	.015	6.16
19	MP5A	Y	-23	.68
20	MP5A	My	-.023	.68
21	MP5A	Mz	-.019	.68
22	MP5A	Y	-23	6.16
23	MP5A	My	-.023	6.16
24	MP5A	Mz	-.019	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP5B	Y	-23	.68
26	MP5B	My	.028	.68
27	MP5B	Mz	-.01	.68
28	MP5B	Y	-23	6.16
29	MP5B	My	.028	6.16
30	MP5B	Mz	-.01	6.16
31	MP5C	Y	-23	.68
32	MP5C	My	-.01	.68
33	MP5C	Mz	.028	.68
34	MP5C	Y	-23	6.16
35	MP5C	My	-.01	6.16
36	MP5C	Mz	.028	6.16
37	MP3A	Y	-43.55	.62
38	MP3A	My	-.044	.62
39	MP3A	Mz	0	.62
40	MP3A	Y	-43.55	2.55
41	MP3A	My	-.044	2.55
42	MP3A	Mz	0	2.55
43	MP3B	Y	-43.55	.62
44	MP3B	My	.022	.62
45	MP3B	Mz	-.038	.62
46	MP3B	Y	-43.55	2.55
47	MP3B	My	.022	2.55
48	MP3B	Mz	-.038	2.55
49	MP3C	Y	-43.55	.62
50	MP3C	My	.015	.62
51	MP3C	Mz	.041	.62
52	MP3C	Y	-43.55	2.55
53	MP3C	My	.015	2.55
54	MP3C	Mz	.041	2.55
55	MP4A	Y	-37.35	3.25
56	MP4A	My	.025	3.25
57	MP4A	Mz	0	3.25
58	MP4A	Y	-37.35	3.25
59	MP4A	My	.025	3.25
60	MP4A	Mz	0	3.25
61	MP4B	Y	-37.35	3.25
62	MP4B	My	-.012	3.25
63	MP4B	Mz	.022	3.25
64	MP4B	Y	-37.35	3.25
65	MP4B	My	-.012	3.25
66	MP4B	Mz	.022	3.25
67	MP4C	Y	-37.35	3.25
68	MP4C	My	-.009	3.25
69	MP4C	Mz	-.023	3.25
70	MP4C	Y	-37.35	3.25
71	MP4C	My	-.009	3.25
72	MP4C	Mz	-.023	3.25
73	MP3A	Y	-35.15	3.25
74	MP3A	My	.023	3.25
75	MP3A	Mz	0	3.25
76	MP3A	Y	-35.15	3.25
77	MP3A	My	.023	3.25
78	MP3A	Mz	0	3.25
79	MP3B	Y	-35.15	3.25
80	MP3B	My	-.012	3.25
81	MP3B	Mz	.02	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP3B	Y	-35.15	3.25
83	MP3B	My	-.012	3.25
84	MP3B	Mz	.02	3.25
85	MP3C	Y	-35.15	3.25
86	MP3C	My	-.008	3.25
87	MP3C	Mz	-.022	3.25
88	MP3C	Y	-35.15	3.25
89	MP3C	My	-.008	3.25
90	MP3C	Mz	-.022	3.25
91	MP1A	Y	-11.5	.17
92	MP1A	My	-.011	.17
93	MP1A	Mz	0	.17
94	MP1A	Y	-11.5	5.83
95	MP1A	My	-.011	5.83
96	MP1A	Mz	0	5.83
97	MP1B	Y	-11.5	.17
98	MP1B	My	.006	.17
99	MP1B	Mz	-.01	.17
100	MP1B	Y	-11.5	5.83
101	MP1B	My	.006	5.83
102	MP1B	Mz	-.01	5.83
103	MP1C	Y	-11.5	.17
104	MP1C	My	.006	.17
105	MP1C	Mz	.01	.17
106	MP1C	Y	-11.5	5.83
107	MP1C	My	.006	5.83
108	MP1C	Mz	.01	5.83

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Y	-79.455	.68
2	MP5A	My	-.079	.68
3	MP5A	Mz	.066	.68
4	MP5A	Y	-79.455	6.16
5	MP5A	My	-.079	6.16
6	MP5A	Mz	.066	6.16
7	MP5B	Y	-79.455	.68
8	MP5B	My	-.018	.68
9	MP5B	Mz	-.102	.68
10	MP5B	Y	-79.455	6.16
11	MP5B	My	-.018	6.16
12	MP5B	Mz	-.102	6.16
13	MP5C	Y	-79.455	.68
14	MP5C	My	.089	.68
15	MP5C	Mz	.052	.68
16	MP5C	Y	-79.455	6.16
17	MP5C	My	.089	6.16
18	MP5C	Mz	.052	6.16
19	MP5A	Y	-79.455	.68
20	MP5A	My	-.079	.68
21	MP5A	Mz	-.066	.68
22	MP5A	Y	-79.455	6.16
23	MP5A	My	-.079	6.16
24	MP5A	Mz	-.066	6.16
25	MP5B	Y	-79.455	.68
26	MP5B	My	.097	.68



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP5B	Mz	-.036	.68
28	MP5B	Y	-79.455	6.16
29	MP5B	My	.097	6.16
30	MP5B	Mz	-.036	6.16
31	MP5C	Y	-79.455	.68
32	MP5C	My	-.035	.68
33	MP5C	Mz	.097	.68
34	MP5C	Y	-79.455	6.16
35	MP5C	My	-.035	6.16
36	MP5C	Mz	.097	6.16
37	MP3A	Y	-34.277	.62
38	MP3A	My	-.034	.62
39	MP3A	Mz	0	.62
40	MP3A	Y	-34.277	2.55
41	MP3A	My	-.034	2.55
42	MP3A	Mz	0	2.55
43	MP3B	Y	-34.277	.62
44	MP3B	My	.017	.62
45	MP3B	Mz	-.03	.62
46	MP3B	Y	-34.277	2.55
47	MP3B	My	.017	2.55
48	MP3B	Mz	-.03	2.55
49	MP3C	Y	-34.277	.62
50	MP3C	My	.012	.62
51	MP3C	Mz	.032	.62
52	MP3C	Y	-34.277	2.55
53	MP3C	My	.012	2.55
54	MP3C	Mz	.032	2.55
55	MP4A	Y	-21.546	3.25
56	MP4A	My	.014	3.25
57	MP4A	Mz	0	3.25
58	MP4A	Y	-21.546	3.25
59	MP4A	My	.014	3.25
60	MP4A	Mz	0	3.25
61	MP4B	Y	-21.546	3.25
62	MP4B	My	-.007	3.25
63	MP4B	Mz	.012	3.25
64	MP4B	Y	-21.546	3.25
65	MP4B	My	-.007	3.25
66	MP4B	Mz	.012	3.25
67	MP4C	Y	-21.546	3.25
68	MP4C	My	-.005	3.25
69	MP4C	Mz	-.013	3.25
70	MP4C	Y	-21.546	3.25
71	MP4C	My	-.005	3.25
72	MP4C	Mz	-.013	3.25
73	MP3A	Y	-20.515	3.25
74	MP3A	My	.014	3.25
75	MP3A	Mz	0	3.25
76	MP3A	Y	-20.515	3.25
77	MP3A	My	.014	3.25
78	MP3A	Mz	0	3.25
79	MP3B	Y	-20.515	3.25
80	MP3B	My	-.007	3.25
81	MP3B	Mz	.012	3.25
82	MP3B	Y	-20.515	3.25
83	MP3B	My	-.007	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
84	MP3B	Mz	.012	3.25
85	MP3C	Y	-20.515	3.25
86	MP3C	My	-.005	3.25
87	MP3C	Mz	-.013	3.25
88	MP3C	Y	-20.515	3.25
89	MP3C	My	-.005	3.25
90	MP3C	Mz	-.013	3.25
91	MP1A	Y	-56.18	.17
92	MP1A	My	-.056	.17
93	MP1A	Mz	0	.17
94	MP1A	Y	-56.18	5.83
95	MP1A	My	-.056	5.83
96	MP1A	Mz	0	5.83
97	MP1B	Y	-56.18	.17
98	MP1B	My	.028	.17
99	MP1B	Mz	-.049	.17
100	MP1B	Y	-56.18	5.83
101	MP1B	My	.028	5.83
102	MP1B	Mz	-.049	5.83
103	MP1C	Y	-56.18	.17
104	MP1C	My	.028	.17
105	MP1C	Mz	.049	.17
106	MP1C	Y	-56.18	5.83
107	MP1C	My	.028	5.83
108	MP1C	Mz	.049	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	0	.68
2	MP5A	Z	-139.602	.68
3	MP5A	Mx	-.116	.68
4	MP5A	X	0	6.16
5	MP5A	Z	-139.602	6.16
6	MP5A	Mx	-.116	6.16
7	MP5B	X	0	.68
8	MP5B	Z	-112.742	.68
9	MP5B	Mx	.145	.68
10	MP5B	X	0	6.16
11	MP5B	Z	-112.742	6.16
12	MP5B	Mx	.145	6.16
13	MP5C	X	0	.68
14	MP5C	Z	-107.978	.68
15	MP5C	Mx	-.071	.68
16	MP5C	X	0	6.16
17	MP5C	Z	-107.978	6.16
18	MP5C	Mx	-.071	6.16
19	MP5A	X	0	.68
20	MP5A	Z	-139.602	.68
21	MP5A	Mx	.116	.68
22	MP5A	X	0	6.16
23	MP5A	Z	-139.602	6.16
24	MP5A	Mx	.116	6.16
25	MP5B	X	0	.68
26	MP5B	Z	-112.742	.68
27	MP5B	Mx	.051	.68
28	MP5B	X	0	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP5B	Z	-112.742	6.16
30	MP5B	Mx	.051	6.16
31	MP5C	X	0	.68
32	MP5C	Z	-107.978	.68
33	MP5C	Mx	-.132	.68
34	MP5C	X	0	6.16
35	MP5C	Z	-107.978	6.16
36	MP5C	Mx	-.132	6.16
37	MP3A	X	0	.62
38	MP3A	Z	-66.477	.62
39	MP3A	Mx	0	.62
40	MP3A	X	0	2.55
41	MP3A	Z	-66.477	2.55
42	MP3A	Mx	0	2.55
43	MP3B	X	0	.62
44	MP3B	Z	-36.139	.62
45	MP3B	Mx	.031	.62
46	MP3B	X	0	2.55
47	MP3B	Z	-36.139	2.55
48	MP3B	Mx	.031	2.55
49	MP3C	X	0	.62
50	MP3C	Z	-30.758	.62
51	MP3C	Mx	-.029	.62
52	MP3C	X	0	2.55
53	MP3C	Z	-30.758	2.55
54	MP3C	Mx	-.029	2.55
55	MP4A	X	0	3.25
56	MP4A	Z	-26.294	3.25
57	MP4A	Mx	0	3.25
58	MP4A	X	0	3.25
59	MP4A	Z	-26.294	3.25
60	MP4A	Mx	0	3.25
61	MP4B	X	0	3.25
62	MP4B	Z	-19.756	3.25
63	MP4B	Mx	-.011	3.25
64	MP4B	X	0	3.25
65	MP4B	Z	-19.756	3.25
66	MP4B	Mx	-.011	3.25
67	MP4C	X	0	3.25
68	MP4C	Z	-18.596	3.25
69	MP4C	Mx	.012	3.25
70	MP4C	X	0	3.25
71	MP4C	Z	-18.596	3.25
72	MP4C	Mx	.012	3.25
73	MP3A	X	0	3.25
74	MP3A	Z	-26.294	3.25
75	MP3A	Mx	0	3.25
76	MP3A	X	0	3.25
77	MP3A	Z	-26.294	3.25
78	MP3A	Mx	0	3.25
79	MP3B	X	0	3.25
80	MP3B	Z	-18.569	3.25
81	MP3B	Mx	-.011	3.25
82	MP3B	X	0	3.25
83	MP3B	Z	-18.569	3.25
84	MP3B	Mx	-.011	3.25
85	MP3C	X	0	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP3C	Z	-17.199	3.25
87	MP3C	Mx	.011	3.25
88	MP3C	X	0	3.25
89	MP3C	Z	-17.199	3.25
90	MP3C	Mx	.011	3.25
91	MP1A	X	0	.17
92	MP1A	Z	-115.981	.17
93	MP1A	Mx	0	.17
94	MP1A	X	0	5.83
95	MP1A	Z	-115.981	5.83
96	MP1A	Mx	0	5.83
97	MP1B	X	0	.17
98	MP1B	Z	-98.94	.17
99	MP1B	Mx	.086	.17
100	MP1B	X	0	5.83
101	MP1B	Z	-98.94	5.83
102	MP1B	Mx	.086	5.83
103	MP1C	X	0	.17
104	MP1C	Z	-98.94	.17
105	MP1C	Mx	-.086	.17
106	MP1C	X	0	5.83
107	MP1C	Z	-98.94	5.83
108	MP1C	Mx	-.086	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	65.324	.68
2	MP5A	Z	-113.145	.68
3	MP5A	Mx	-.16	.68
4	MP5A	X	65.324	6.16
5	MP5A	Z	-113.145	6.16
6	MP5A	Mx	-.16	6.16
7	MP5B	X	51.894	.68
8	MP5B	Z	-89.884	.68
9	MP5B	Mx	.104	.68
10	MP5B	X	51.894	6.16
11	MP5B	Z	-89.884	6.16
12	MP5B	Mx	.104	6.16
13	MP5C	X	62.402	.68
14	MP5C	Z	-108.084	.68
15	MP5C	Mx	-.000552	.68
16	MP5C	X	62.402	6.16
17	MP5C	Z	-108.084	6.16
18	MP5C	Mx	-.000552	6.16
19	MP5A	X	65.324	.68
20	MP5A	Z	-113.145	.68
21	MP5A	Mx	.029	.68
22	MP5A	X	65.324	6.16
23	MP5A	Z	-113.145	6.16
24	MP5A	Mx	.029	6.16
25	MP5B	X	51.894	.68
26	MP5B	Z	-89.884	.68
27	MP5B	Mx	.104	.68
28	MP5B	X	51.894	6.16
29	MP5B	Z	-89.884	6.16
30	MP5B	Mx	.104	6.16



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
31	MP5C	X	62.402	.68
32	MP5C	Z	-108.084	.68
33	MP5C	Mx	-.16	.68
34	MP5C	X	62.402	6.16
35	MP5C	Z	-108.084	6.16
36	MP5C	Mx	-.16	6.16
37	MP3A	X	28.182	.62
38	MP3A	Z	-48.813	.62
39	MP3A	Mx	-.028	.62
40	MP3A	X	28.182	2.55
41	MP3A	Z	-48.813	2.55
42	MP3A	Mx	-.028	2.55
43	MP3B	X	13.013	.62
44	MP3B	Z	-22.539	.62
45	MP3B	Mx	.026	.62
46	MP3B	X	13.013	2.55
47	MP3B	Z	-22.539	2.55
48	MP3B	Mx	.026	2.55
49	MP3C	X	24.882	.62
50	MP3C	Z	-43.097	.62
51	MP3C	Mx	-.032	.62
52	MP3C	X	24.882	2.55
53	MP3C	Z	-43.097	2.55
54	MP3C	Mx	-.032	2.55
55	MP4A	X	12.057	3.25
56	MP4A	Z	-20.884	3.25
57	MP4A	Mx	.008	3.25
58	MP4A	X	12.057	3.25
59	MP4A	Z	-20.884	3.25
60	MP4A	Mx	.008	3.25
61	MP4B	X	8.788	3.25
62	MP4B	Z	-15.221	3.25
63	MP4B	Mx	-.012	3.25
64	MP4B	X	8.788	3.25
65	MP4B	Z	-15.221	3.25
66	MP4B	Mx	-.012	3.25
67	MP4C	X	11.346	3.25
68	MP4C	Z	-19.652	3.25
69	MP4C	Mx	.01	3.25
70	MP4C	X	11.346	3.25
71	MP4C	Z	-19.652	3.25
72	MP4C	Mx	.01	3.25
73	MP3A	X	11.86	3.25
74	MP3A	Z	-20.541	3.25
75	MP3A	Mx	.008	3.25
76	MP3A	X	11.86	3.25
77	MP3A	Z	-20.541	3.25
78	MP3A	Mx	.008	3.25
79	MP3B	X	7.997	3.25
80	MP3B	Z	-13.852	3.25
81	MP3B	Mx	-.011	3.25
82	MP3B	X	7.997	3.25
83	MP3B	Z	-13.852	3.25
84	MP3B	Mx	-.011	3.25
85	MP3C	X	11.019	3.25
86	MP3C	Z	-19.086	3.25
87	MP3C	Mx	.009	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
88	MP3C	X	11.019	3.25
89	MP3C	Z	-19.086	3.25
90	MP3C	Mx	.009	3.25
91	MP1A	X	55.15	.17
92	MP1A	Z	-95.523	.17
93	MP1A	Mx	-.055	.17
94	MP1A	X	55.15	5.83
95	MP1A	Z	-95.523	5.83
96	MP1A	Mx	-.055	5.83
97	MP1B	X	46.63	.17
98	MP1B	Z	-80.765	.17
99	MP1B	Mx	.093	.17
100	MP1B	X	46.63	5.83
101	MP1B	Z	-80.765	5.83
102	MP1B	Mx	.093	5.83
103	MP1C	X	55.15	.17
104	MP1C	Z	-95.523	.17
105	MP1C	Mx	-.055	.17
106	MP1C	X	55.15	5.83
107	MP1C	Z	-95.523	5.83
108	MP1C	Mx	-.055	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	97.637	.68
2	MP5A	Z	-56.371	.68
3	MP5A	Mx	-.145	.68
4	MP5A	X	97.637	6.16
5	MP5A	Z	-56.371	6.16
6	MP5A	Mx	-.145	6.16
7	MP5B	X	97.637	.68
8	MP5B	Z	-56.371	.68
9	MP5B	Mx	.051	.68
10	MP5B	X	97.637	6.16
11	MP5B	Z	-56.371	6.16
12	MP5B	Mx	.051	6.16
13	MP5C	X	119.964	.68
14	MP5C	Z	-69.261	.68
15	MP5C	Mx	.09	.68
16	MP5C	X	119.964	6.16
17	MP5C	Z	-69.261	6.16
18	MP5C	Mx	.09	6.16
19	MP5A	X	97.637	.68
20	MP5A	Z	-56.371	.68
21	MP5A	Mx	-.051	.68
22	MP5A	X	97.637	6.16
23	MP5A	Z	-56.371	6.16
24	MP5A	Mx	-.051	6.16
25	MP5B	X	97.637	.68
26	MP5B	Z	-56.371	.68
27	MP5B	Mx	.145	.68
28	MP5B	X	97.637	6.16
29	MP5B	Z	-56.371	6.16
30	MP5B	Mx	.145	6.16
31	MP5C	X	119.964	.68
32	MP5C	Z	-69.261	.68



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
33	MP5C	Mx	-.138	.68
34	MP5C	X	119.964	6.16
35	MP5C	Z	-69.261	6.16
36	MP5C	Mx	-.138	6.16
37	MP3A	X	31.297	.62
38	MP3A	Z	-18.069	.62
39	MP3A	Mx	-.031	.62
40	MP3A	X	31.297	2.55
41	MP3A	Z	-18.069	2.55
42	MP3A	Mx	-.031	2.55
43	MP3B	X	31.297	.62
44	MP3B	Z	-18.069	.62
45	MP3B	Mx	.031	.62
46	MP3B	X	31.297	2.55
47	MP3B	Z	-18.069	2.55
48	MP3B	Mx	.031	2.55
49	MP3C	X	56.515	.62
50	MP3C	Z	-32.629	.62
51	MP3C	Mx	-.011	.62
52	MP3C	X	56.515	2.55
53	MP3C	Z	-32.629	2.55
54	MP3C	Mx	-.011	2.55
55	MP4A	X	17.109	3.25
56	MP4A	Z	-9.878	3.25
57	MP4A	Mx	.011	3.25
58	MP4A	X	17.109	3.25
59	MP4A	Z	-9.878	3.25
60	MP4A	Mx	.011	3.25
61	MP4B	X	17.109	3.25
62	MP4B	Z	-9.878	3.25
63	MP4B	Mx	-.011	3.25
64	MP4B	X	17.109	3.25
65	MP4B	Z	-9.878	3.25
66	MP4B	Mx	-.011	3.25
67	MP4C	X	22.544	3.25
68	MP4C	Z	-13.016	3.25
69	MP4C	Mx	.003	3.25
70	MP4C	X	22.544	3.25
71	MP4C	Z	-13.016	3.25
72	MP4C	Mx	.003	3.25
73	MP3A	X	16.081	3.25
74	MP3A	Z	-9.285	3.25
75	MP3A	Mx	.011	3.25
76	MP3A	X	16.081	3.25
77	MP3A	Z	-9.285	3.25
78	MP3A	Mx	.011	3.25
79	MP3B	X	16.081	3.25
80	MP3B	Z	-9.285	3.25
81	MP3B	Mx	-.011	3.25
82	MP3B	X	16.081	3.25
83	MP3B	Z	-9.285	3.25
84	MP3B	Mx	-.011	3.25
85	MP3C	X	22.502	3.25
86	MP3C	Z	-12.992	3.25
87	MP3C	Mx	.003	3.25
88	MP3C	X	22.502	3.25
89	MP3C	Z	-12.992	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
90	MP3C	Mx	.003	3.25
91	MP1A	X	85.684	.17
92	MP1A	Z	-49.47	.17
93	MP1A	Mx	-.086	.17
94	MP1A	X	85.684	5.83
95	MP1A	Z	-49.47	5.83
96	MP1A	Mx	-.086	5.83
97	MP1B	X	85.684	.17
98	MP1B	Z	-49.47	.17
99	MP1B	Mx	.086	.17
100	MP1B	X	85.684	5.83
101	MP1B	Z	-49.47	5.83
102	MP1B	Mx	.086	5.83
103	MP1C	X	100.443	.17
104	MP1C	Z	-57.991	.17
105	MP1C	Mx	0	.17
106	MP1C	X	100.443	5.83
107	MP1C	Z	-57.991	5.83
108	MP1C	Mx	0	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	103.789	.68
2	MP5A	Z	0	.68
3	MP5A	Mx	-.104	.68
4	MP5A	X	103.789	6.16
5	MP5A	Z	0	6.16
6	MP5A	Mx	-.104	6.16
7	MP5B	X	130.649	.68
8	MP5B	Z	0	.68
9	MP5B	Mx	-.029	.68
10	MP5B	X	130.649	6.16
11	MP5B	Z	0	6.16
12	MP5B	Mx	-.029	6.16
13	MP5C	X	135.413	.68
14	MP5C	Z	0	.68
15	MP5C	Mx	.152	.68
16	MP5C	X	135.413	6.16
17	MP5C	Z	0	6.16
18	MP5C	Mx	.152	6.16
19	MP5A	X	103.789	.68
20	MP5A	Z	0	.68
21	MP5A	Mx	-.104	.68
22	MP5A	X	103.789	6.16
23	MP5A	Z	0	6.16
24	MP5A	Mx	-.104	6.16
25	MP5B	X	130.649	.68
26	MP5B	Z	0	.68
27	MP5B	Mx	.16	.68
28	MP5B	X	130.649	6.16
29	MP5B	Z	0	6.16
30	MP5B	Mx	.16	6.16
31	MP5C	X	135.413	.68
32	MP5C	Z	0	.68
33	MP5C	Mx	-.06	.68
34	MP5C	X	135.413	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP5C	Z	0	6.16
36	MP5C	Mx	-.06	6.16
37	MP3A	X	26.026	.62
38	MP3A	Z	0	.62
39	MP3A	Mx	-.026	.62
40	MP3A	X	26.026	2.55
41	MP3A	Z	0	2.55
42	MP3A	Mx	-.026	2.55
43	MP3B	X	56.364	.62
44	MP3B	Z	0	.62
45	MP3B	Mx	.028	.62
46	MP3B	X	56.364	2.55
47	MP3B	Z	0	2.55
48	MP3B	Mx	.028	2.55
49	MP3C	X	61.745	.62
50	MP3C	Z	0	.62
51	MP3C	Mx	.021	.62
52	MP3C	X	61.745	2.55
53	MP3C	Z	0	2.55
54	MP3C	Mx	.021	2.55
55	MP4A	X	17.576	3.25
56	MP4A	Z	0	3.25
57	MP4A	Mx	.012	3.25
58	MP4A	X	17.576	3.25
59	MP4A	Z	0	3.25
60	MP4A	Mx	.012	3.25
61	MP4B	X	24.115	3.25
62	MP4B	Z	0	3.25
63	MP4B	Mx	-.008	3.25
64	MP4B	X	24.115	3.25
65	MP4B	Z	0	3.25
66	MP4B	Mx	-.008	3.25
67	MP4C	X	25.274	3.25
68	MP4C	Z	0	3.25
69	MP4C	Mx	-.006	3.25
70	MP4C	X	25.274	3.25
71	MP4C	Z	0	3.25
72	MP4C	Mx	-.006	3.25
73	MP3A	X	15.994	3.25
74	MP3A	Z	0	3.25
75	MP3A	Mx	.011	3.25
76	MP3A	X	15.994	3.25
77	MP3A	Z	0	3.25
78	MP3A	Mx	.011	3.25
79	MP3B	X	23.719	3.25
80	MP3B	Z	0	3.25
81	MP3B	Mx	-.008	3.25
82	MP3B	X	23.719	3.25
83	MP3B	Z	0	3.25
84	MP3B	Mx	-.008	3.25
85	MP3C	X	25.089	3.25
86	MP3C	Z	0	3.25
87	MP3C	Mx	-.006	3.25
88	MP3C	X	25.089	3.25
89	MP3C	Z	0	3.25
90	MP3C	Mx	-.006	3.25
91	MP1A	X	93.259	.17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP1A	Z	0	.17
93	MP1A	Mx	-.093	.17
94	MP1A	X	93.259	5.83
95	MP1A	Z	0	5.83
96	MP1A	Mx	-.093	5.83
97	MP1B	X	110.301	.17
98	MP1B	Z	0	.17
99	MP1B	Mx	.055	.17
100	MP1B	X	110.301	5.83
101	MP1B	Z	0	5.83
102	MP1B	Mx	.055	5.83
103	MP1C	X	110.301	.17
104	MP1C	Z	0	.17
105	MP1C	Mx	.055	.17
106	MP1C	X	110.301	5.83
107	MP1C	Z	0	5.83
108	MP1C	Mx	.055	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	97.637	.68
2	MP5A	Z	56.371	.68
3	MP5A	Mx	-.051	.68
4	MP5A	X	97.637	6.16
5	MP5A	Z	56.371	6.16
6	MP5A	Mx	-.051	6.16
7	MP5B	X	120.899	.68
8	MP5B	Z	69.801	.68
9	MP5B	Mx	-.116	.68
10	MP5B	X	120.899	6.16
11	MP5B	Z	69.801	6.16
12	MP5B	Mx	-.116	6.16
13	MP5C	X	102.698	.68
14	MP5C	Z	59.293	.68
15	MP5C	Mx	.154	.68
16	MP5C	X	102.698	6.16
17	MP5C	Z	59.293	6.16
18	MP5C	Mx	.154	6.16
19	MP5A	X	97.637	.68
20	MP5A	Z	56.371	.68
21	MP5A	Mx	-.145	.68
22	MP5A	X	97.637	6.16
23	MP5A	Z	56.371	6.16
24	MP5A	Mx	-.145	6.16
25	MP5B	X	120.899	.68
26	MP5B	Z	69.801	.68
27	MP5B	Mx	.116	.68
28	MP5B	X	120.899	6.16
29	MP5B	Z	69.801	6.16
30	MP5B	Mx	.116	6.16
31	MP5C	X	102.698	.68
32	MP5C	Z	59.293	.68
33	MP5C	Mx	.027	.68
34	MP5C	X	102.698	6.16
35	MP5C	Z	59.293	6.16
36	MP5C	Mx	.027	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
37	MP3A	X	31.297	.62
38	MP3A	Z	18.069	.62
39	MP3A	Mx	-.031	.62
40	MP3A	X	31.297	2.55
41	MP3A	Z	18.069	2.55
42	MP3A	Mx	-.031	2.55
43	MP3B	X	57.571	.62
44	MP3B	Z	33.239	.62
45	MP3B	Mx	0	.62
46	MP3B	X	57.571	2.55
47	MP3B	Z	33.239	2.55
48	MP3B	Mx	0	2.55
49	MP3C	X	37.013	.62
50	MP3C	Z	21.37	.62
51	MP3C	Mx	.033	.62
52	MP3C	X	37.013	2.55
53	MP3C	Z	21.37	2.55
54	MP3C	Mx	.033	2.55
55	MP4A	X	17.109	3.25
56	MP4A	Z	9.878	3.25
57	MP4A	Mx	.011	3.25
58	MP4A	X	17.109	3.25
59	MP4A	Z	9.878	3.25
60	MP4A	Mx	.011	3.25
61	MP4B	X	22.771	3.25
62	MP4B	Z	13.147	3.25
63	MP4B	Mx	0	3.25
64	MP4B	X	22.771	3.25
65	MP4B	Z	13.147	3.25
66	MP4B	Mx	0	3.25
67	MP4C	X	18.341	3.25
68	MP4C	Z	10.589	3.25
69	MP4C	Mx	-.011	3.25
70	MP4C	X	18.341	3.25
71	MP4C	Z	10.589	3.25
72	MP4C	Mx	-.011	3.25
73	MP3A	X	16.081	3.25
74	MP3A	Z	9.285	3.25
75	MP3A	Mx	.011	3.25
76	MP3A	X	16.081	3.25
77	MP3A	Z	9.285	3.25
78	MP3A	Mx	.011	3.25
79	MP3B	X	22.771	3.25
80	MP3B	Z	13.147	3.25
81	MP3B	Mx	0	3.25
82	MP3B	X	22.771	3.25
83	MP3B	Z	13.147	3.25
84	MP3B	Mx	0	3.25
85	MP3C	X	17.537	3.25
86	MP3C	Z	10.125	3.25
87	MP3C	Mx	-.01	3.25
88	MP3C	X	17.537	3.25
89	MP3C	Z	10.125	3.25
90	MP3C	Mx	-.01	3.25
91	MP1A	X	85.684	.17
92	MP1A	Z	49.47	.17
93	MP1A	Mx	-.086	.17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
94	MP1A	X	85.684	5.83
95	MP1A	Z	49.47	5.83
96	MP1A	Mx	-.086	5.83
97	MP1B	X	100.443	.17
98	MP1B	Z	57.991	.17
99	MP1B	Mx	0	.17
100	MP1B	X	100.443	5.83
101	MP1B	Z	57.991	5.83
102	MP1B	Mx	0	5.83
103	MP1C	X	85.684	.17
104	MP1C	Z	49.47	.17
105	MP1C	Mx	.086	.17
106	MP1C	X	85.684	5.83
107	MP1C	Z	49.47	5.83
108	MP1C	Mx	.086	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	65.324	.68
2	MP5A	Z	113.145	.68
3	MP5A	Mx	.029	.68
4	MP5A	X	65.324	6.16
5	MP5A	Z	113.145	6.16
6	MP5A	Mx	.029	6.16
7	MP5B	X	65.324	.68
8	MP5B	Z	113.145	.68
9	MP5B	Mx	-.16	.68
10	MP5B	X	65.324	6.16
11	MP5B	Z	113.145	6.16
12	MP5B	Mx	-.16	6.16
13	MP5C	X	52.434	.68
14	MP5C	Z	90.819	.68
15	MP5C	Mx	.118	.68
16	MP5C	X	52.434	6.16
17	MP5C	Z	90.819	6.16
18	MP5C	Mx	.118	6.16
19	MP5A	X	65.324	.68
20	MP5A	Z	113.145	.68
21	MP5A	Mx	-.16	.68
22	MP5A	X	65.324	6.16
23	MP5A	Z	113.145	6.16
24	MP5A	Mx	-.16	6.16
25	MP5B	X	65.324	.68
26	MP5B	Z	113.145	.68
27	MP5B	Mx	.029	.68
28	MP5B	X	65.324	6.16
29	MP5B	Z	113.145	6.16
30	MP5B	Mx	.029	6.16
31	MP5C	X	52.434	.68
32	MP5C	Z	90.819	.68
33	MP5C	Mx	.088	.68
34	MP5C	X	52.434	6.16
35	MP5C	Z	90.819	6.16
36	MP5C	Mx	.088	6.16
37	MP3A	X	28.182	.62
38	MP3A	Z	48.813	.62



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
39	MP3A	Mx	-.028	.62
40	MP3A	X	28.182	2.55
41	MP3A	Z	48.813	2.55
42	MP3A	Mx	-.028	2.55
43	MP3B	X	28.182	.62
44	MP3B	Z	48.813	.62
45	MP3B	Mx	-.028	.62
46	MP3B	X	28.182	2.55
47	MP3B	Z	48.813	2.55
48	MP3B	Mx	-.028	2.55
49	MP3C	X	13.623	.62
50	MP3C	Z	23.595	.62
51	MP3C	Mx	.027	.62
52	MP3C	X	13.623	2.55
53	MP3C	Z	23.595	2.55
54	MP3C	Mx	.027	2.55
55	MP4A	X	12.057	3.25
56	MP4A	Z	20.884	3.25
57	MP4A	Mx	.008	3.25
58	MP4A	X	12.057	3.25
59	MP4A	Z	20.884	3.25
60	MP4A	Mx	.008	3.25
61	MP4B	X	12.057	3.25
62	MP4B	Z	20.884	3.25
63	MP4B	Mx	.008	3.25
64	MP4B	X	12.057	3.25
65	MP4B	Z	20.884	3.25
66	MP4B	Mx	.008	3.25
67	MP4C	X	8.92	3.25
68	MP4C	Z	15.449	3.25
69	MP4C	Mx	-.012	3.25
70	MP4C	X	8.92	3.25
71	MP4C	Z	15.449	3.25
72	MP4C	Mx	-.012	3.25
73	MP3A	X	11.86	3.25
74	MP3A	Z	20.541	3.25
75	MP3A	Mx	.008	3.25
76	MP3A	X	11.86	3.25
77	MP3A	Z	20.541	3.25
78	MP3A	Mx	.008	3.25
79	MP3B	X	11.86	3.25
80	MP3B	Z	20.541	3.25
81	MP3B	Mx	.008	3.25
82	MP3B	X	11.86	3.25
83	MP3B	Z	20.541	3.25
84	MP3B	Mx	.008	3.25
85	MP3C	X	8.152	3.25
86	MP3C	Z	14.12	3.25
87	MP3C	Mx	-.011	3.25
88	MP3C	X	8.152	3.25
89	MP3C	Z	14.12	3.25
90	MP3C	Mx	-.011	3.25
91	MP1A	X	55.15	.17
92	MP1A	Z	95.523	.17
93	MP1A	Mx	-.055	.17
94	MP1A	X	55.15	5.83
95	MP1A	Z	95.523	5.83



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
96	MP1A	Mx	-.055	5.83
97	MP1B	X	55.15	.17
98	MP1B	Z	95.523	.17
99	MP1B	Mx	-.055	.17
100	MP1B	X	55.15	5.83
101	MP1B	Z	95.523	5.83
102	MP1B	Mx	-.055	5.83
103	MP1C	X	46.63	.17
104	MP1C	Z	80.765	.17
105	MP1C	Mx	.093	.17
106	MP1C	X	46.63	5.83
107	MP1C	Z	80.765	5.83
108	MP1C	Mx	.093	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	0	.68
2	MP5A	Z	139.602	.68
3	MP5A	Mx	.116	.68
4	MP5A	X	0	6.16
5	MP5A	Z	139.602	6.16
6	MP5A	Mx	.116	6.16
7	MP5B	X	0	.68
8	MP5B	Z	112.742	.68
9	MP5B	Mx	-.145	.68
10	MP5B	X	0	6.16
11	MP5B	Z	112.742	6.16
12	MP5B	Mx	-.145	6.16
13	MP5C	X	0	.68
14	MP5C	Z	107.978	.68
15	MP5C	Mx	.071	.68
16	MP5C	X	0	6.16
17	MP5C	Z	107.978	6.16
18	MP5C	Mx	.071	6.16
19	MP5A	X	0	.68
20	MP5A	Z	139.602	.68
21	MP5A	Mx	-.116	.68
22	MP5A	X	0	6.16
23	MP5A	Z	139.602	6.16
24	MP5A	Mx	-.116	6.16
25	MP5B	X	0	.68
26	MP5B	Z	112.742	.68
27	MP5B	Mx	-.051	.68
28	MP5B	X	0	6.16
29	MP5B	Z	112.742	6.16
30	MP5B	Mx	-.051	6.16
31	MP5C	X	0	.68
32	MP5C	Z	107.978	.68
33	MP5C	Mx	.132	.68
34	MP5C	X	0	6.16
35	MP5C	Z	107.978	6.16
36	MP5C	Mx	.132	6.16
37	MP3A	X	0	.62
38	MP3A	Z	66.477	.62
39	MP3A	Mx	0	.62
40	MP3A	X	0	2.55



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
41	MP3A	Z	66.477	2.55
42	MP3A	Mx	0	2.55
43	MP3B	X	0	.62
44	MP3B	Z	36.139	.62
45	MP3B	Mx	-.031	.62
46	MP3B	X	0	2.55
47	MP3B	Z	36.139	2.55
48	MP3B	Mx	-.031	2.55
49	MP3C	X	0	.62
50	MP3C	Z	30.758	.62
51	MP3C	Mx	.029	.62
52	MP3C	X	0	2.55
53	MP3C	Z	30.758	2.55
54	MP3C	Mx	.029	2.55
55	MP4A	X	0	3.25
56	MP4A	Z	26.294	3.25
57	MP4A	Mx	0	3.25
58	MP4A	X	0	3.25
59	MP4A	Z	26.294	3.25
60	MP4A	Mx	0	3.25
61	MP4B	X	0	3.25
62	MP4B	Z	19.756	3.25
63	MP4B	Mx	.011	3.25
64	MP4B	X	0	3.25
65	MP4B	Z	19.756	3.25
66	MP4B	Mx	.011	3.25
67	MP4C	X	0	3.25
68	MP4C	Z	18.596	3.25
69	MP4C	Mx	-.012	3.25
70	MP4C	X	0	3.25
71	MP4C	Z	18.596	3.25
72	MP4C	Mx	-.012	3.25
73	MP3A	X	0	3.25
74	MP3A	Z	26.294	3.25
75	MP3A	Mx	0	3.25
76	MP3A	X	0	3.25
77	MP3A	Z	26.294	3.25
78	MP3A	Mx	0	3.25
79	MP3B	X	0	3.25
80	MP3B	Z	18.569	3.25
81	MP3B	Mx	.011	3.25
82	MP3B	X	0	3.25
83	MP3B	Z	18.569	3.25
84	MP3B	Mx	.011	3.25
85	MP3C	X	0	3.25
86	MP3C	Z	17.199	3.25
87	MP3C	Mx	-.011	3.25
88	MP3C	X	0	3.25
89	MP3C	Z	17.199	3.25
90	MP3C	Mx	-.011	3.25
91	MP1A	X	0	.17
92	MP1A	Z	115.981	.17
93	MP1A	Mx	0	.17
94	MP1A	X	0	5.83
95	MP1A	Z	115.981	5.83
96	MP1A	Mx	0	5.83
97	MP1B	X	0	.17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
98	MP1B	Z	98.94	.17
99	MP1B	Mx	-.086	.17
100	MP1B	X	0	5.83
101	MP1B	Z	98.94	5.83
102	MP1B	Mx	-.086	5.83
103	MP1C	X	0	.17
104	MP1C	Z	98.94	.17
105	MP1C	Mx	.086	.17
106	MP1C	X	0	5.83
107	MP1C	Z	98.94	5.83
108	MP1C	Mx	.086	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-65.324	.68
2	MP5A	Z	113.145	.68
3	MP5A	Mx	.16	.68
4	MP5A	X	-65.324	6.16
5	MP5A	Z	113.145	6.16
6	MP5A	Mx	.16	6.16
7	MP5B	X	-51.894	.68
8	MP5B	Z	89.884	.68
9	MP5B	Mx	-.104	.68
10	MP5B	X	-51.894	6.16
11	MP5B	Z	89.884	6.16
12	MP5B	Mx	-.104	6.16
13	MP5C	X	-62.402	.68
14	MP5C	Z	108.084	.68
15	MP5C	Mx	.000552	.68
16	MP5C	X	-62.402	6.16
17	MP5C	Z	108.084	6.16
18	MP5C	Mx	.000552	6.16
19	MP5A	X	-65.324	.68
20	MP5A	Z	113.145	.68
21	MP5A	Mx	-.029	.68
22	MP5A	X	-65.324	6.16
23	MP5A	Z	113.145	6.16
24	MP5A	Mx	-.029	6.16
25	MP5B	X	-51.894	.68
26	MP5B	Z	89.884	.68
27	MP5B	Mx	-.104	.68
28	MP5B	X	-51.894	6.16
29	MP5B	Z	89.884	6.16
30	MP5B	Mx	-.104	6.16
31	MP5C	X	-62.402	.68
32	MP5C	Z	108.084	.68
33	MP5C	Mx	.16	.68
34	MP5C	X	-62.402	6.16
35	MP5C	Z	108.084	6.16
36	MP5C	Mx	.16	6.16
37	MP3A	X	-28.182	.62
38	MP3A	Z	48.813	.62
39	MP3A	Mx	.028	.62
40	MP3A	X	-28.182	2.55
41	MP3A	Z	48.813	2.55
42	MP3A	Mx	.028	2.55



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
43	MP3B	X	-13.013 .62
44	MP3B	Z	22.539 .62
45	MP3B	Mx	-.026 .62
46	MP3B	X	-13.013 2.55
47	MP3B	Z	22.539 2.55
48	MP3B	Mx	-.026 2.55
49	MP3C	X	-24.882 .62
50	MP3C	Z	43.097 .62
51	MP3C	Mx	.032 .62
52	MP3C	X	-24.882 2.55
53	MP3C	Z	43.097 2.55
54	MP3C	Mx	.032 2.55
55	MP4A	X	-12.057 3.25
56	MP4A	Z	20.884 3.25
57	MP4A	Mx	-.008 3.25
58	MP4A	X	-12.057 3.25
59	MP4A	Z	20.884 3.25
60	MP4A	Mx	-.008 3.25
61	MP4B	X	-8.788 3.25
62	MP4B	Z	15.221 3.25
63	MP4B	Mx	.012 3.25
64	MP4B	X	-8.788 3.25
65	MP4B	Z	15.221 3.25
66	MP4B	Mx	.012 3.25
67	MP4C	X	-11.346 3.25
68	MP4C	Z	19.652 3.25
69	MP4C	Mx	-.01 3.25
70	MP4C	X	-11.346 3.25
71	MP4C	Z	19.652 3.25
72	MP4C	Mx	-.01 3.25
73	MP3A	X	-11.86 3.25
74	MP3A	Z	20.541 3.25
75	MP3A	Mx	-.008 3.25
76	MP3A	X	-11.86 3.25
77	MP3A	Z	20.541 3.25
78	MP3A	Mx	-.008 3.25
79	MP3B	X	-7.997 3.25
80	MP3B	Z	13.852 3.25
81	MP3B	Mx	.011 3.25
82	MP3B	X	-7.997 3.25
83	MP3B	Z	13.852 3.25
84	MP3B	Mx	.011 3.25
85	MP3C	X	-11.019 3.25
86	MP3C	Z	19.086 3.25
87	MP3C	Mx	-.009 3.25
88	MP3C	X	-11.019 3.25
89	MP3C	Z	19.086 3.25
90	MP3C	Mx	-.009 3.25
91	MP1A	X	-55.15 .17
92	MP1A	Z	95.523 .17
93	MP1A	Mx	.055 .17
94	MP1A	X	-55.15 5.83
95	MP1A	Z	95.523 5.83
96	MP1A	Mx	.055 5.83
97	MP1B	X	-46.63 .17
98	MP1B	Z	80.765 .17
99	MP1B	Mx	-.093 .17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
100	MP1B	X	-46.63	5.83
101	MP1B	Z	80.765	5.83
102	MP1B	Mx	-.093	5.83
103	MP1C	X	-55.15	.17
104	MP1C	Z	95.523	.17
105	MP1C	Mx	.055	.17
106	MP1C	X	-55.15	5.83
107	MP1C	Z	95.523	5.83
108	MP1C	Mx	.055	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-97.637	.68
2	MP5A	Z	56.371	.68
3	MP5A	Mx	.145	.68
4	MP5A	X	-97.637	6.16
5	MP5A	Z	56.371	6.16
6	MP5A	Mx	.145	6.16
7	MP5B	X	-97.637	.68
8	MP5B	Z	56.371	.68
9	MP5B	Mx	-.051	.68
10	MP5B	X	-97.637	6.16
11	MP5B	Z	56.371	6.16
12	MP5B	Mx	-.051	6.16
13	MP5C	X	-119.964	.68
14	MP5C	Z	69.261	.68
15	MP5C	Mx	-.09	.68
16	MP5C	X	-119.964	6.16
17	MP5C	Z	69.261	6.16
18	MP5C	Mx	-.09	6.16
19	MP5A	X	-97.637	.68
20	MP5A	Z	56.371	.68
21	MP5A	Mx	.051	.68
22	MP5A	X	-97.637	6.16
23	MP5A	Z	56.371	6.16
24	MP5A	Mx	.051	6.16
25	MP5B	X	-97.637	.68
26	MP5B	Z	56.371	.68
27	MP5B	Mx	-.145	.68
28	MP5B	X	-97.637	6.16
29	MP5B	Z	56.371	6.16
30	MP5B	Mx	-.145	6.16
31	MP5C	X	-119.964	.68
32	MP5C	Z	69.261	.68
33	MP5C	Mx	.138	.68
34	MP5C	X	-119.964	6.16
35	MP5C	Z	69.261	6.16
36	MP5C	Mx	.138	6.16
37	MP3A	X	-31.297	.62
38	MP3A	Z	18.069	.62
39	MP3A	Mx	.031	.62
40	MP3A	X	-31.297	2.55
41	MP3A	Z	18.069	2.55
42	MP3A	Mx	.031	2.55
43	MP3B	X	-31.297	.62
44	MP3B	Z	18.069	.62



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
45	MP3B	Mx	-.031	.62
46	MP3B	X	-31.297	2.55
47	MP3B	Z	18.069	2.55
48	MP3B	Mx	-.031	2.55
49	MP3C	X	-56.515	.62
50	MP3C	Z	32.629	.62
51	MP3C	Mx	.011	.62
52	MP3C	X	-56.515	2.55
53	MP3C	Z	32.629	2.55
54	MP3C	Mx	.011	2.55
55	MP4A	X	-17.109	3.25
56	MP4A	Z	9.878	3.25
57	MP4A	Mx	-.011	3.25
58	MP4A	X	-17.109	3.25
59	MP4A	Z	9.878	3.25
60	MP4A	Mx	-.011	3.25
61	MP4B	X	-17.109	3.25
62	MP4B	Z	9.878	3.25
63	MP4B	Mx	.011	3.25
64	MP4B	X	-17.109	3.25
65	MP4B	Z	9.878	3.25
66	MP4B	Mx	.011	3.25
67	MP4C	X	-22.544	3.25
68	MP4C	Z	13.016	3.25
69	MP4C	Mx	-.003	3.25
70	MP4C	X	-22.544	3.25
71	MP4C	Z	13.016	3.25
72	MP4C	Mx	-.003	3.25
73	MP3A	X	-16.081	3.25
74	MP3A	Z	9.285	3.25
75	MP3A	Mx	-.011	3.25
76	MP3A	X	-16.081	3.25
77	MP3A	Z	9.285	3.25
78	MP3A	Mx	-.011	3.25
79	MP3B	X	-16.081	3.25
80	MP3B	Z	9.285	3.25
81	MP3B	Mx	.011	3.25
82	MP3B	X	-16.081	3.25
83	MP3B	Z	9.285	3.25
84	MP3B	Mx	.011	3.25
85	MP3C	X	-22.502	3.25
86	MP3C	Z	12.992	3.25
87	MP3C	Mx	-.003	3.25
88	MP3C	X	-22.502	3.25
89	MP3C	Z	12.992	3.25
90	MP3C	Mx	-.003	3.25
91	MP1A	X	-85.684	.17
92	MP1A	Z	49.47	.17
93	MP1A	Mx	.086	.17
94	MP1A	X	-85.684	5.83
95	MP1A	Z	49.47	5.83
96	MP1A	Mx	.086	5.83
97	MP1B	X	-85.684	.17
98	MP1B	Z	49.47	.17
99	MP1B	Mx	-.086	.17
100	MP1B	X	-85.684	5.83
101	MP1B	Z	49.47	5.83



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
102	MP1B	Mx	-.086	5.83
103	MP1C	X	-100.443	.17
104	MP1C	Z	57.991	.17
105	MP1C	Mx	0	.17
106	MP1C	X	-100.443	5.83
107	MP1C	Z	57.991	5.83
108	MP1C	Mx	0	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-103.789	.68
2	MP5A	Z	0	.68
3	MP5A	Mx	.104	.68
4	MP5A	X	-103.789	6.16
5	MP5A	Z	0	6.16
6	MP5A	Mx	.104	6.16
7	MP5B	X	-130.649	.68
8	MP5B	Z	0	.68
9	MP5B	Mx	.029	.68
10	MP5B	X	-130.649	6.16
11	MP5B	Z	0	6.16
12	MP5B	Mx	.029	6.16
13	MP5C	X	-135.413	.68
14	MP5C	Z	0	.68
15	MP5C	Mx	-.152	.68
16	MP5C	X	-135.413	6.16
17	MP5C	Z	0	6.16
18	MP5C	Mx	-.152	6.16
19	MP5A	X	-103.789	.68
20	MP5A	Z	0	.68
21	MP5A	Mx	.104	.68
22	MP5A	X	-103.789	6.16
23	MP5A	Z	0	6.16
24	MP5A	Mx	.104	6.16
25	MP5B	X	-130.649	.68
26	MP5B	Z	0	.68
27	MP5B	Mx	-.16	.68
28	MP5B	X	-130.649	6.16
29	MP5B	Z	0	6.16
30	MP5B	Mx	-.16	6.16
31	MP5C	X	-135.413	.68
32	MP5C	Z	0	.68
33	MP5C	Mx	.06	.68
34	MP5C	X	-135.413	6.16
35	MP5C	Z	0	6.16
36	MP5C	Mx	.06	6.16
37	MP3A	X	-26.026	.62
38	MP3A	Z	0	.62
39	MP3A	Mx	.026	.62
40	MP3A	X	-26.026	2.55
41	MP3A	Z	0	2.55
42	MP3A	Mx	.026	2.55
43	MP3B	X	-56.364	.62
44	MP3B	Z	0	.62
45	MP3B	Mx	-.028	.62
46	MP3B	X	-56.364	2.55



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP3B	Z	0	2.55
48	MP3B	Mx	-.028	2.55
49	MP3C	X	-61.745	.62
50	MP3C	Z	0	.62
51	MP3C	Mx	-.021	.62
52	MP3C	X	-61.745	2.55
53	MP3C	Z	0	2.55
54	MP3C	Mx	-.021	2.55
55	MP4A	X	-17.576	3.25
56	MP4A	Z	0	3.25
57	MP4A	Mx	-.012	3.25
58	MP4A	X	-17.576	3.25
59	MP4A	Z	0	3.25
60	MP4A	Mx	-.012	3.25
61	MP4B	X	-24.115	3.25
62	MP4B	Z	0	3.25
63	MP4B	Mx	.008	3.25
64	MP4B	X	-24.115	3.25
65	MP4B	Z	0	3.25
66	MP4B	Mx	.008	3.25
67	MP4C	X	-25.274	3.25
68	MP4C	Z	0	3.25
69	MP4C	Mx	.006	3.25
70	MP4C	X	-25.274	3.25
71	MP4C	Z	0	3.25
72	MP4C	Mx	.006	3.25
73	MP3A	X	-15.994	3.25
74	MP3A	Z	0	3.25
75	MP3A	Mx	-.011	3.25
76	MP3A	X	-15.994	3.25
77	MP3A	Z	0	3.25
78	MP3A	Mx	-.011	3.25
79	MP3B	X	-23.719	3.25
80	MP3B	Z	0	3.25
81	MP3B	Mx	.008	3.25
82	MP3B	X	-23.719	3.25
83	MP3B	Z	0	3.25
84	MP3B	Mx	.008	3.25
85	MP3C	X	-25.089	3.25
86	MP3C	Z	0	3.25
87	MP3C	Mx	.006	3.25
88	MP3C	X	-25.089	3.25
89	MP3C	Z	0	3.25
90	MP3C	Mx	.006	3.25
91	MP1A	X	-93.259	.17
92	MP1A	Z	0	.17
93	MP1A	Mx	.093	.17
94	MP1A	X	-93.259	5.83
95	MP1A	Z	0	5.83
96	MP1A	Mx	.093	5.83
97	MP1B	X	-110.301	.17
98	MP1B	Z	0	.17
99	MP1B	Mx	-.055	.17
100	MP1B	X	-110.301	5.83
101	MP1B	Z	0	5.83
102	MP1B	Mx	-.055	5.83
103	MP1C	X	-110.301	.17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
104	MP1C	Z	0	.17
105	MP1C	Mx	-.055	.17
106	MP1C	X	-110.301	5.83
107	MP1C	Z	0	5.83
108	MP1C	Mx	-.055	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-97.637	.68
2	MP5A	Z	-56.371	.68
3	MP5A	Mx	.051	.68
4	MP5A	X	-97.637	6.16
5	MP5A	Z	-56.371	6.16
6	MP5A	Mx	.051	6.16
7	MP5B	X	-120.899	.68
8	MP5B	Z	-69.801	.68
9	MP5B	Mx	.116	.68
10	MP5B	X	-120.899	6.16
11	MP5B	Z	-69.801	6.16
12	MP5B	Mx	.116	6.16
13	MP5C	X	-102.698	.68
14	MP5C	Z	-59.293	.68
15	MP5C	Mx	-.154	.68
16	MP5C	X	-102.698	6.16
17	MP5C	Z	-59.293	6.16
18	MP5C	Mx	-.154	6.16
19	MP5A	X	-97.637	.68
20	MP5A	Z	-56.371	.68
21	MP5A	Mx	.145	.68
22	MP5A	X	-97.637	6.16
23	MP5A	Z	-56.371	6.16
24	MP5A	Mx	.145	6.16
25	MP5B	X	-120.899	.68
26	MP5B	Z	-69.801	.68
27	MP5B	Mx	-.116	.68
28	MP5B	X	-120.899	6.16
29	MP5B	Z	-69.801	6.16
30	MP5B	Mx	-.116	6.16
31	MP5C	X	-102.698	.68
32	MP5C	Z	-59.293	.68
33	MP5C	Mx	-.027	.68
34	MP5C	X	-102.698	6.16
35	MP5C	Z	-59.293	6.16
36	MP5C	Mx	-.027	6.16
37	MP3A	X	-31.297	.62
38	MP3A	Z	-18.069	.62
39	MP3A	Mx	.031	.62
40	MP3A	X	-31.297	2.55
41	MP3A	Z	-18.069	2.55
42	MP3A	Mx	.031	2.55
43	MP3B	X	-57.571	.62
44	MP3B	Z	-33.239	.62
45	MP3B	Mx	0	.62
46	MP3B	X	-57.571	2.55
47	MP3B	Z	-33.239	2.55
48	MP3B	Mx	0	2.55



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
49	MP3C	X	-37.013	.62
50	MP3C	Z	-21.37	.62
51	MP3C	Mx	-.033	.62
52	MP3C	X	-37.013	2.55
53	MP3C	Z	-21.37	2.55
54	MP3C	Mx	-.033	2.55
55	MP4A	X	-17.109	3.25
56	MP4A	Z	-9.878	3.25
57	MP4A	Mx	-.011	3.25
58	MP4A	X	-17.109	3.25
59	MP4A	Z	-9.878	3.25
60	MP4A	Mx	-.011	3.25
61	MP4B	X	-22.771	3.25
62	MP4B	Z	-13.147	3.25
63	MP4B	Mx	0	3.25
64	MP4B	X	-22.771	3.25
65	MP4B	Z	-13.147	3.25
66	MP4B	Mx	0	3.25
67	MP4C	X	-18.341	3.25
68	MP4C	Z	-10.589	3.25
69	MP4C	Mx	.011	3.25
70	MP4C	X	-18.341	3.25
71	MP4C	Z	-10.589	3.25
72	MP4C	Mx	.011	3.25
73	MP3A	X	-16.081	3.25
74	MP3A	Z	-9.285	3.25
75	MP3A	Mx	-.011	3.25
76	MP3A	X	-16.081	3.25
77	MP3A	Z	-9.285	3.25
78	MP3A	Mx	-.011	3.25
79	MP3B	X	-22.771	3.25
80	MP3B	Z	-13.147	3.25
81	MP3B	Mx	0	3.25
82	MP3B	X	-22.771	3.25
83	MP3B	Z	-13.147	3.25
84	MP3B	Mx	0	3.25
85	MP3C	X	-17.537	3.25
86	MP3C	Z	-10.125	3.25
87	MP3C	Mx	.01	3.25
88	MP3C	X	-17.537	3.25
89	MP3C	Z	-10.125	3.25
90	MP3C	Mx	.01	3.25
91	MP1A	X	-85.684	.17
92	MP1A	Z	-49.47	.17
93	MP1A	Mx	.086	.17
94	MP1A	X	-85.684	5.83
95	MP1A	Z	-49.47	5.83
96	MP1A	Mx	.086	5.83
97	MP1B	X	-100.443	.17
98	MP1B	Z	-57.991	.17
99	MP1B	Mx	0	.17
100	MP1B	X	-100.443	5.83
101	MP1B	Z	-57.991	5.83
102	MP1B	Mx	0	5.83
103	MP1C	X	-85.684	.17
104	MP1C	Z	-49.47	.17
105	MP1C	Mx	-.086	.17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
106	MP1C	X	-85.684	5.83
107	MP1C	Z	-49.47	5.83
108	MP1C	Mx	-.086	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-65.324	.68
2	MP5A	Z	-113.145	.68
3	MP5A	Mx	-.029	.68
4	MP5A	X	-65.324	6.16
5	MP5A	Z	-113.145	6.16
6	MP5A	Mx	-.029	6.16
7	MP5B	X	-65.324	.68
8	MP5B	Z	-113.145	.68
9	MP5B	Mx	.16	.68
10	MP5B	X	-65.324	6.16
11	MP5B	Z	-113.145	6.16
12	MP5B	Mx	.16	6.16
13	MP5C	X	-52.434	.68
14	MP5C	Z	-90.819	.68
15	MP5C	Mx	-.118	.68
16	MP5C	X	-52.434	6.16
17	MP5C	Z	-90.819	6.16
18	MP5C	Mx	-.118	6.16
19	MP5A	X	-65.324	.68
20	MP5A	Z	-113.145	.68
21	MP5A	Mx	.16	.68
22	MP5A	X	-65.324	6.16
23	MP5A	Z	-113.145	6.16
24	MP5A	Mx	.16	6.16
25	MP5B	X	-65.324	.68
26	MP5B	Z	-113.145	.68
27	MP5B	Mx	-.029	.68
28	MP5B	X	-65.324	6.16
29	MP5B	Z	-113.145	6.16
30	MP5B	Mx	-.029	6.16
31	MP5C	X	-52.434	.68
32	MP5C	Z	-90.819	.68
33	MP5C	Mx	-.088	.68
34	MP5C	X	-52.434	6.16
35	MP5C	Z	-90.819	6.16
36	MP5C	Mx	-.088	6.16
37	MP3A	X	-28.182	.62
38	MP3A	Z	-48.813	.62
39	MP3A	Mx	.028	.62
40	MP3A	X	-28.182	2.55
41	MP3A	Z	-48.813	2.55
42	MP3A	Mx	.028	2.55
43	MP3B	X	-28.182	.62
44	MP3B	Z	-48.813	.62
45	MP3B	Mx	.028	.62
46	MP3B	X	-28.182	2.55
47	MP3B	Z	-48.813	2.55
48	MP3B	Mx	.028	2.55
49	MP3C	X	-13.623	.62
50	MP3C	Z	-23.595	.62



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP3C	Mx	.62
52	MP3C	X	2.55
53	MP3C	Z	2.55
54	MP3C	Mx	2.55
55	MP4A	X	3.25
56	MP4A	Z	3.25
57	MP4A	Mx	3.25
58	MP4A	X	3.25
59	MP4A	Z	3.25
60	MP4A	Mx	3.25
61	MP4B	X	3.25
62	MP4B	Z	3.25
63	MP4B	Mx	3.25
64	MP4B	X	3.25
65	MP4B	Z	3.25
66	MP4B	Mx	3.25
67	MP4C	X	3.25
68	MP4C	Z	3.25
69	MP4C	Mx	3.25
70	MP4C	X	3.25
71	MP4C	Z	3.25
72	MP4C	Mx	3.25
73	MP3A	X	3.25
74	MP3A	Z	3.25
75	MP3A	Mx	3.25
76	MP3A	X	3.25
77	MP3A	Z	3.25
78	MP3A	Mx	3.25
79	MP3B	X	3.25
80	MP3B	Z	3.25
81	MP3B	Mx	3.25
82	MP3B	X	3.25
83	MP3B	Z	3.25
84	MP3B	Mx	3.25
85	MP3C	X	3.25
86	MP3C	Z	3.25
87	MP3C	Mx	3.25
88	MP3C	X	3.25
89	MP3C	Z	3.25
90	MP3C	Mx	3.25
91	MP1A	X	.17
92	MP1A	Z	.17
93	MP1A	Mx	.17
94	MP1A	X	5.83
95	MP1A	Z	5.83
96	MP1A	Mx	5.83
97	MP1B	X	.17
98	MP1B	Z	.17
99	MP1B	Mx	.17
100	MP1B	X	5.83
101	MP1B	Z	5.83
102	MP1B	Mx	5.83
103	MP1C	X	.17
104	MP1C	Z	.17
105	MP1C	Mx	.17
106	MP1C	X	5.83
107	MP1C	Z	5.83



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
108	MP1C	Mx	-.093	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	0	.68
2	MP5A	Z	-28.201	.68
3	MP5A	Mx	-.024	.68
4	MP5A	X	0	6.16
5	MP5A	Z	-28.201	6.16
6	MP5A	Mx	-.024	6.16
7	MP5B	X	0	.68
8	MP5B	Z	-23.041	.68
9	MP5B	Mx	.03	.68
10	MP5B	X	0	6.16
11	MP5B	Z	-23.041	6.16
12	MP5B	Mx	.03	6.16
13	MP5C	X	0	.68
14	MP5C	Z	-22.126	.68
15	MP5C	Mx	-.014	.68
16	MP5C	X	0	6.16
17	MP5C	Z	-22.126	6.16
18	MP5C	Mx	-.014	6.16
19	MP5A	X	0	.68
20	MP5A	Z	-28.201	.68
21	MP5A	Mx	.024	.68
22	MP5A	X	0	6.16
23	MP5A	Z	-28.201	6.16
24	MP5A	Mx	.024	6.16
25	MP5B	X	0	.68
26	MP5B	Z	-23.041	.68
27	MP5B	Mx	.01	.68
28	MP5B	X	0	6.16
29	MP5B	Z	-23.041	6.16
30	MP5B	Mx	.01	6.16
31	MP5C	X	0	.68
32	MP5C	Z	-22.126	.68
33	MP5C	Mx	-.027	.68
34	MP5C	X	0	6.16
35	MP5C	Z	-22.126	6.16
36	MP5C	Mx	-.027	6.16
37	MP3A	X	0	.62
38	MP3A	Z	-13.897	.62
39	MP3A	Mx	0	.62
40	MP3A	X	0	2.55
41	MP3A	Z	-13.897	2.55
42	MP3A	Mx	0	2.55
43	MP3B	X	0	.62
44	MP3B	Z	-7.901	.62
45	MP3B	Mx	.007	.62
46	MP3B	X	0	2.55
47	MP3B	Z	-7.901	2.55
48	MP3B	Mx	.007	2.55
49	MP3C	X	0	.62
50	MP3C	Z	-6.838	.62
51	MP3C	Mx	-.006	.62
52	MP3C	X	0	2.55



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]	
53	MP3C	Z	-6.838	2.55
54	MP3C	Mx	-.006	2.55
55	MP4A	X	0	3.25
56	MP4A	Z	-5.809	3.25
57	MP4A	Mx	0	3.25
58	MP4A	X	0	3.25
59	MP4A	Z	-5.809	3.25
60	MP4A	Mx	0	3.25
61	MP4B	X	0	3.25
62	MP4B	Z	-4.478	3.25
63	MP4B	Mx	-.003	3.25
64	MP4B	X	0	3.25
65	MP4B	Z	-4.478	3.25
66	MP4B	Mx	-.003	3.25
67	MP4C	X	0	3.25
68	MP4C	Z	-4.242	3.25
69	MP4C	Mx	.003	3.25
70	MP4C	X	0	3.25
71	MP4C	Z	-4.242	3.25
72	MP4C	Mx	.003	3.25
73	MP3A	X	0	3.25
74	MP3A	Z	-5.809	3.25
75	MP3A	Mx	0	3.25
76	MP3A	X	0	3.25
77	MP3A	Z	-5.809	3.25
78	MP3A	Mx	0	3.25
79	MP3B	X	0	3.25
80	MP3B	Z	-4.239	3.25
81	MP3B	Mx	-.002	3.25
82	MP3B	X	0	3.25
83	MP3B	Z	-4.239	3.25
84	MP3B	Mx	-.002	3.25
85	MP3C	X	0	3.25
86	MP3C	Z	-3.96	3.25
87	MP3C	Mx	.002	3.25
88	MP3C	X	0	3.25
89	MP3C	Z	-3.96	3.25
90	MP3C	Mx	.002	3.25
91	MP1A	X	0	.17
92	MP1A	Z	-24.116	.17
93	MP1A	Mx	0	.17
94	MP1A	X	0	5.83
95	MP1A	Z	-24.116	5.83
96	MP1A	Mx	0	5.83
97	MP1B	X	0	.17
98	MP1B	Z	-20.825	.17
99	MP1B	Mx	.018	.17
100	MP1B	X	0	5.83
101	MP1B	Z	-20.825	5.83
102	MP1B	Mx	.018	5.83
103	MP1C	X	0	.17
104	MP1C	Z	-20.825	.17
105	MP1C	Mx	-.018	.17
106	MP1C	X	0	5.83
107	MP1C	Z	-20.825	5.83
108	MP1C	Mx	-.018	5.83



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	13.24	.68
2	MP5A	Z	-22.933	.68
3	MP5A	Mx	-.032	.68
4	MP5A	X	13.24	6.16
5	MP5A	Z	-22.933	6.16
6	MP5A	Mx	-.032	6.16
7	MP5B	X	10.66	.68
8	MP5B	Z	-18.464	.68
9	MP5B	Mx	.021	.68
10	MP5B	X	10.66	6.16
11	MP5B	Z	-18.464	6.16
12	MP5B	Mx	.021	6.16
13	MP5C	X	12.679	.68
14	MP5C	Z	-21.961	.68
15	MP5C	Mx	-.000112	.68
16	MP5C	X	12.679	6.16
17	MP5C	Z	-21.961	6.16
18	MP5C	Mx	-.000112	6.16
19	MP5A	X	13.24	.68
20	MP5A	Z	-22.933	.68
21	MP5A	Mx	.006	.68
22	MP5A	X	13.24	6.16
23	MP5A	Z	-22.933	6.16
24	MP5A	Mx	.006	6.16
25	MP5B	X	10.66	.68
26	MP5B	Z	-18.464	.68
27	MP5B	Mx	.021	.68
28	MP5B	X	10.66	6.16
29	MP5B	Z	-18.464	6.16
30	MP5B	Mx	.021	6.16
31	MP5C	X	12.679	.68
32	MP5C	Z	-21.961	.68
33	MP5C	Mx	-.032	.68
34	MP5C	X	12.679	6.16
35	MP5C	Z	-21.961	6.16
36	MP5C	Mx	-.032	6.16
37	MP3A	X	5.949	.62
38	MP3A	Z	-10.304	.62
39	MP3A	Mx	-.006	.62
40	MP3A	X	5.949	2.55
41	MP3A	Z	-10.304	2.55
42	MP3A	Mx	-.006	2.55
43	MP3B	X	2.951	.62
44	MP3B	Z	-5.112	.62
45	MP3B	Mx	.006	.62
46	MP3B	X	2.951	2.55
47	MP3B	Z	-5.112	2.55
48	MP3B	Mx	.006	2.55
49	MP3C	X	5.297	.62
50	MP3C	Z	-9.175	.62
51	MP3C	Mx	-.007	.62
52	MP3C	X	5.297	2.55
53	MP3C	Z	-9.175	2.55
54	MP3C	Mx	-.007	2.55
55	MP4A	X	2.683	3.25
56	MP4A	Z	-4.647	3.25
57	MP4A	Mx	.002	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP4A	X	2.683	3.25
59	MP4A	Z	-4.647	3.25
60	MP4A	Mx	.002	3.25
61	MP4B	X	2.017	3.25
62	MP4B	Z	-3.494	3.25
63	MP4B	Mx	-.003	3.25
64	MP4B	X	2.017	3.25
65	MP4B	Z	-3.494	3.25
66	MP4B	Mx	-.003	3.25
67	MP4C	X	2.538	3.25
68	MP4C	Z	-4.396	3.25
69	MP4C	Mx	.002	3.25
70	MP4C	X	2.538	3.25
71	MP4C	Z	-4.396	3.25
72	MP4C	Mx	.002	3.25
73	MP3A	X	2.643	3.25
74	MP3A	Z	-4.577	3.25
75	MP3A	Mx	.002	3.25
76	MP3A	X	2.643	3.25
77	MP3A	Z	-4.577	3.25
78	MP3A	Mx	.002	3.25
79	MP3B	X	1.858	3.25
80	MP3B	Z	-3.218	3.25
81	MP3B	Mx	-.002	3.25
82	MP3B	X	1.858	3.25
83	MP3B	Z	-3.218	3.25
84	MP3B	Mx	-.002	3.25
85	MP3C	X	2.472	3.25
86	MP3C	Z	-4.282	3.25
87	MP3C	Mx	.002	3.25
88	MP3C	X	2.472	3.25
89	MP3C	Z	-4.282	3.25
90	MP3C	Mx	.002	3.25
91	MP1A	X	11.51	.17
92	MP1A	Z	-19.935	.17
93	MP1A	Mx	-.012	.17
94	MP1A	X	11.51	5.83
95	MP1A	Z	-19.935	5.83
96	MP1A	Mx	-.012	5.83
97	MP1B	X	9.864	.17
98	MP1B	Z	-17.084	.17
99	MP1B	Mx	.02	.17
100	MP1B	X	9.864	5.83
101	MP1B	Z	-17.084	5.83
102	MP1B	Mx	.02	5.83
103	MP1C	X	11.51	.17
104	MP1C	Z	-19.935	.17
105	MP1C	Mx	-.012	.17
106	MP1C	X	11.51	5.83
107	MP1C	Z	-19.935	5.83
108	MP1C	Mx	-.012	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	19.954	.68
2	MP5A	Z	-11.52	.68



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
3	MP5A	Mx	-.03	.68
4	MP5A	X	19.954	6.16
5	MP5A	Z	-11.52	6.16
6	MP5A	Mx	-.03	6.16
7	MP5B	X	19.954	.68
8	MP5B	Z	-11.52	.68
9	MP5B	Mx	.01	.68
10	MP5B	X	19.954	6.16
11	MP5B	Z	-11.52	6.16
12	MP5B	Mx	.01	6.16
13	MP5C	X	24.243	.68
14	MP5C	Z	-13.997	.68
15	MP5C	Mx	.018	.68
16	MP5C	X	24.243	6.16
17	MP5C	Z	-13.997	6.16
18	MP5C	Mx	.018	6.16
19	MP5A	X	19.954	.68
20	MP5A	Z	-11.52	.68
21	MP5A	Mx	-.01	.68
22	MP5A	X	19.954	6.16
23	MP5A	Z	-11.52	6.16
24	MP5A	Mx	-.01	6.16
25	MP5B	X	19.954	.68
26	MP5B	Z	-11.52	.68
27	MP5B	Mx	.03	.68
28	MP5B	X	19.954	6.16
29	MP5B	Z	-11.52	6.16
30	MP5B	Mx	.03	6.16
31	MP5C	X	24.243	.68
32	MP5C	Z	-13.997	.68
33	MP5C	Mx	-.028	.68
34	MP5C	X	24.243	6.16
35	MP5C	Z	-13.997	6.16
36	MP5C	Mx	-.028	6.16
37	MP3A	X	6.843	.62
38	MP3A	Z	-3.951	.62
39	MP3A	Mx	-.007	.62
40	MP3A	X	6.843	2.55
41	MP3A	Z	-3.951	2.55
42	MP3A	Mx	-.007	2.55
43	MP3B	X	6.843	.62
44	MP3B	Z	-3.951	.62
45	MP3B	Mx	.007	.62
46	MP3B	X	6.843	2.55
47	MP3B	Z	-3.951	2.55
48	MP3B	Mx	.007	2.55
49	MP3C	X	11.827	.62
50	MP3C	Z	-6.828	.62
51	MP3C	Mx	-.002	.62
52	MP3C	X	11.827	2.55
53	MP3C	Z	-6.828	2.55
54	MP3C	Mx	-.002	2.55
55	MP4A	X	3.878	3.25
56	MP4A	Z	-2.239	3.25
57	MP4A	Mx	.003	3.25
58	MP4A	X	3.878	3.25
59	MP4A	Z	-2.239	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
60	MP4A	Mx	.003	3.25
61	MP4B	X	3.878	3.25
62	MP4B	Z	-2.239	3.25
63	MP4B	Mx	-.003	3.25
64	MP4B	X	3.878	3.25
65	MP4B	Z	-2.239	3.25
66	MP4B	Mx	-.003	3.25
67	MP4C	X	4.984	3.25
68	MP4C	Z	-2.878	3.25
69	MP4C	Mx	.000667	3.25
70	MP4C	X	4.984	3.25
71	MP4C	Z	-2.878	3.25
72	MP4C	Mx	.000667	3.25
73	MP3A	X	3.671	3.25
74	MP3A	Z	-2.119	3.25
75	MP3A	Mx	.002	3.25
76	MP3A	X	3.671	3.25
77	MP3A	Z	-2.119	3.25
78	MP3A	Mx	.002	3.25
79	MP3B	X	3.671	3.25
80	MP3B	Z	-2.119	3.25
81	MP3B	Mx	-.002	3.25
82	MP3B	X	3.671	3.25
83	MP3B	Z	-2.119	3.25
84	MP3B	Mx	-.002	3.25
85	MP3C	X	4.976	3.25
86	MP3C	Z	-2.873	3.25
87	MP3C	Mx	.000665	3.25
88	MP3C	X	4.976	3.25
89	MP3C	Z	-2.873	3.25
90	MP3C	Mx	.000665	3.25
91	MP1A	X	18.035	.17
92	MP1A	Z	-10.412	.17
93	MP1A	Mx	-.018	.17
94	MP1A	X	18.035	5.83
95	MP1A	Z	-10.412	5.83
96	MP1A	Mx	-.018	5.83
97	MP1B	X	18.035	.17
98	MP1B	Z	-10.412	.17
99	MP1B	Mx	.018	.17
100	MP1B	X	18.035	5.83
101	MP1B	Z	-10.412	5.83
102	MP1B	Mx	.018	5.83
103	MP1C	X	20.885	.17
104	MP1C	Z	-12.058	.17
105	MP1C	Mx	0	.17
106	MP1C	X	20.885	5.83
107	MP1C	Z	-12.058	5.83
108	MP1C	Mx	0	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	21.321	.68
2	MP5A	Z	0	.68
3	MP5A	Mx	-.021	.68
4	MP5A	X	21.321	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
5	MP5A	Z	0	6.16
6	MP5A	Mx	-.021	6.16
7	MP5B	X	26.481	.68
8	MP5B	Z	0	.68
9	MP5B	Mx	-.006	.68
10	MP5B	X	26.481	6.16
11	MP5B	Z	0	6.16
12	MP5B	Mx	-.006	6.16
13	MP5C	X	27.396	.68
14	MP5C	Z	0	.68
15	MP5C	Mx	.031	.68
16	MP5C	X	27.396	6.16
17	MP5C	Z	0	6.16
18	MP5C	Mx	.031	6.16
19	MP5A	X	21.321	.68
20	MP5A	Z	0	.68
21	MP5A	Mx	-.021	.68
22	MP5A	X	21.321	6.16
23	MP5A	Z	0	6.16
24	MP5A	Mx	-.021	6.16
25	MP5B	X	26.481	.68
26	MP5B	Z	0	.68
27	MP5B	Mx	.032	.68
28	MP5B	X	26.481	6.16
29	MP5B	Z	0	6.16
30	MP5B	Mx	.032	6.16
31	MP5C	X	27.396	.68
32	MP5C	Z	0	.68
33	MP5C	Mx	-.012	.68
34	MP5C	X	27.396	6.16
35	MP5C	Z	0	6.16
36	MP5C	Mx	-.012	6.16
37	MP3A	X	5.903	.62
38	MP3A	Z	0	.62
39	MP3A	Mx	-.006	.62
40	MP3A	X	5.903	2.55
41	MP3A	Z	0	2.55
42	MP3A	Mx	-.006	2.55
43	MP3B	X	11.898	.62
44	MP3B	Z	0	.62
45	MP3B	Mx	.006	.62
46	MP3B	X	11.898	2.55
47	MP3B	Z	0	2.55
48	MP3B	Mx	.006	2.55
49	MP3C	X	12.962	.62
50	MP3C	Z	0	.62
51	MP3C	Mx	.004	.62
52	MP3C	X	12.962	2.55
53	MP3C	Z	0	2.55
54	MP3C	Mx	.004	2.55
55	MP4A	X	4.035	3.25
56	MP4A	Z	0	3.25
57	MP4A	Mx	.003	3.25
58	MP4A	X	4.035	3.25
59	MP4A	Z	0	3.25
60	MP4A	Mx	.003	3.25
61	MP4B	X	5.365	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP4B	Z	0	3.25
63	MP4B	Mx	-.002	3.25
64	MP4B	X	5.365	3.25
65	MP4B	Z	0	3.25
66	MP4B	Mx	-.002	3.25
67	MP4C	X	5.601	3.25
68	MP4C	Z	0	3.25
69	MP4C	Mx	-.001	3.25
70	MP4C	X	5.601	3.25
71	MP4C	Z	0	3.25
72	MP4C	Mx	-.001	3.25
73	MP3A	X	3.716	3.25
74	MP3A	Z	0	3.25
75	MP3A	Mx	.002	3.25
76	MP3A	X	3.716	3.25
77	MP3A	Z	0	3.25
78	MP3A	Mx	.002	3.25
79	MP3B	X	5.286	3.25
80	MP3B	Z	0	3.25
81	MP3B	Mx	-.002	3.25
82	MP3B	X	5.286	3.25
83	MP3B	Z	0	3.25
84	MP3B	Mx	-.002	3.25
85	MP3C	X	5.564	3.25
86	MP3C	Z	0	3.25
87	MP3C	Mx	-.001	3.25
88	MP3C	X	5.564	3.25
89	MP3C	Z	0	3.25
90	MP3C	Mx	-.001	3.25
91	MP1A	X	19.727	.17
92	MP1A	Z	0	.17
93	MP1A	Mx	-.02	.17
94	MP1A	X	19.727	5.83
95	MP1A	Z	0	5.83
96	MP1A	Mx	-.02	5.83
97	MP1B	X	23.019	.17
98	MP1B	Z	0	.17
99	MP1B	Mx	.012	.17
100	MP1B	X	23.019	5.83
101	MP1B	Z	0	5.83
102	MP1B	Mx	.012	5.83
103	MP1C	X	23.019	.17
104	MP1C	Z	0	.17
105	MP1C	Mx	.012	.17
106	MP1C	X	23.019	5.83
107	MP1C	Z	0	5.83
108	MP1C	Mx	.012	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	19.954	.68
2	MP5A	Z	11.52	.68
3	MP5A	Mx	-.01	.68
4	MP5A	X	19.954	6.16
5	MP5A	Z	11.52	6.16
6	MP5A	Mx	-.01	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
7	MP5B	X	24.423	.68
8	MP5B	Z	14.1	.68
9	MP5B	Mx	-.024	.68
10	MP5B	X	24.423	6.16
11	MP5B	Z	14.1	6.16
12	MP5B	Mx	-.024	6.16
13	MP5C	X	20.926	.68
14	MP5C	Z	12.082	.68
15	MP5C	Mx	.031	.68
16	MP5C	X	20.926	6.16
17	MP5C	Z	12.082	6.16
18	MP5C	Mx	.031	6.16
19	MP5A	X	19.954	.68
20	MP5A	Z	11.52	.68
21	MP5A	Mx	-.03	.68
22	MP5A	X	19.954	6.16
23	MP5A	Z	11.52	6.16
24	MP5A	Mx	-.03	6.16
25	MP5B	X	24.423	.68
26	MP5B	Z	14.1	.68
27	MP5B	Mx	.024	.68
28	MP5B	X	24.423	6.16
29	MP5B	Z	14.1	6.16
30	MP5B	Mx	.024	6.16
31	MP5C	X	20.926	.68
32	MP5C	Z	12.082	.68
33	MP5C	Mx	.006	.68
34	MP5C	X	20.926	6.16
35	MP5C	Z	12.082	6.16
36	MP5C	Mx	.006	6.16
37	MP3A	X	6.843	.62
38	MP3A	Z	3.951	.62
39	MP3A	Mx	-.007	.62
40	MP3A	X	6.843	2.55
41	MP3A	Z	3.951	2.55
42	MP3A	Mx	-.007	2.55
43	MP3B	X	12.035	.62
44	MP3B	Z	6.949	.62
45	MP3B	Mx	-1e-6	.62
46	MP3B	X	12.035	2.55
47	MP3B	Z	6.949	2.55
48	MP3B	Mx	-1e-6	2.55
49	MP3C	X	7.972	.62
50	MP3C	Z	4.603	.62
51	MP3C	Mx	.007	.62
52	MP3C	X	7.972	2.55
53	MP3C	Z	4.603	2.55
54	MP3C	Mx	.007	2.55
55	MP4A	X	3.878	3.25
56	MP4A	Z	2.239	3.25
57	MP4A	Mx	.003	3.25
58	MP4A	X	3.878	3.25
59	MP4A	Z	2.239	3.25
60	MP4A	Mx	.003	3.25
61	MP4B	X	5.031	3.25
62	MP4B	Z	2.904	3.25
63	MP4B	Mx	0	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
64	MP4B	X	5.031	3.25
65	MP4B	Z	2.904	3.25
66	MP4B	Mx	0	3.25
67	MP4C	X	4.129	3.25
68	MP4C	Z	2.384	3.25
69	MP4C	Mx	-.002	3.25
70	MP4C	X	4.129	3.25
71	MP4C	Z	2.384	3.25
72	MP4C	Mx	-.002	3.25
73	MP3A	X	3.671	3.25
74	MP3A	Z	2.119	3.25
75	MP3A	Mx	.002	3.25
76	MP3A	X	3.671	3.25
77	MP3A	Z	2.119	3.25
78	MP3A	Mx	.002	3.25
79	MP3B	X	5.031	3.25
80	MP3B	Z	2.904	3.25
81	MP3B	Mx	0	3.25
82	MP3B	X	5.031	3.25
83	MP3B	Z	2.904	3.25
84	MP3B	Mx	0	3.25
85	MP3C	X	3.967	3.25
86	MP3C	Z	2.29	3.25
87	MP3C	Mx	-.002	3.25
88	MP3C	X	3.967	3.25
89	MP3C	Z	2.29	3.25
90	MP3C	Mx	-.002	3.25
91	MP1A	X	18.035	.17
92	MP1A	Z	10.412	.17
93	MP1A	Mx	-.018	.17
94	MP1A	X	18.035	5.83
95	MP1A	Z	10.412	5.83
96	MP1A	Mx	-.018	5.83
97	MP1B	X	20.885	.17
98	MP1B	Z	12.058	.17
99	MP1B	Mx	0	.17
100	MP1B	X	20.885	5.83
101	MP1B	Z	12.058	5.83
102	MP1B	Mx	0	5.83
103	MP1C	X	18.035	.17
104	MP1C	Z	10.412	.17
105	MP1C	Mx	.018	.17
106	MP1C	X	18.035	5.83
107	MP1C	Z	10.412	5.83
108	MP1C	Mx	.018	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	13.24	.68
2	MP5A	Z	22.933	.68
3	MP5A	Mx	.006	.68
4	MP5A	X	13.24	6.16
5	MP5A	Z	22.933	6.16
6	MP5A	Mx	.006	6.16
7	MP5B	X	13.24	.68
8	MP5B	Z	22.933	.68



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
9	MP5B	Mx	-.032	.68
10	MP5B	X	13.24	6.16
11	MP5B	Z	22.933	6.16
12	MP5B	Mx	-.032	6.16
13	MP5C	X	10.764	.68
14	MP5C	Z	18.644	.68
15	MP5C	Mx	.024	.68
16	MP5C	X	10.764	6.16
17	MP5C	Z	18.644	6.16
18	MP5C	Mx	.024	6.16
19	MP5A	X	13.24	.68
20	MP5A	Z	22.933	.68
21	MP5A	Mx	-.032	.68
22	MP5A	X	13.24	6.16
23	MP5A	Z	22.933	6.16
24	MP5A	Mx	-.032	6.16
25	MP5B	X	13.24	.68
26	MP5B	Z	22.933	.68
27	MP5B	Mx	.006	.68
28	MP5B	X	13.24	6.16
29	MP5B	Z	22.933	6.16
30	MP5B	Mx	.006	6.16
31	MP5C	X	10.764	.68
32	MP5C	Z	18.644	.68
33	MP5C	Mx	.018	.68
34	MP5C	X	10.764	6.16
35	MP5C	Z	18.644	6.16
36	MP5C	Mx	.018	6.16
37	MP3A	X	5.949	.62
38	MP3A	Z	10.304	.62
39	MP3A	Mx	-.006	.62
40	MP3A	X	5.949	2.55
41	MP3A	Z	10.304	2.55
42	MP3A	Mx	-.006	2.55
43	MP3B	X	5.949	.62
44	MP3B	Z	10.304	.62
45	MP3B	Mx	-.006	.62
46	MP3B	X	5.949	2.55
47	MP3B	Z	10.304	2.55
48	MP3B	Mx	-.006	2.55
49	MP3C	X	3.072	.62
50	MP3C	Z	5.321	.62
51	MP3C	Mx	.006	.62
52	MP3C	X	3.072	2.55
53	MP3C	Z	5.321	2.55
54	MP3C	Mx	.006	2.55
55	MP4A	X	2.683	3.25
56	MP4A	Z	4.647	3.25
57	MP4A	Mx	.002	3.25
58	MP4A	X	2.683	3.25
59	MP4A	Z	4.647	3.25
60	MP4A	Mx	.002	3.25
61	MP4B	X	2.683	3.25
62	MP4B	Z	4.647	3.25
63	MP4B	Mx	.002	3.25
64	MP4B	X	2.683	3.25
65	MP4B	Z	4.647	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
66	MP4B	Mx	.002	3.25
67	MP4C	X	2.044	3.25
68	MP4C	Z	3.541	3.25
69	MP4C	Mx	-.003	3.25
70	MP4C	X	2.044	3.25
71	MP4C	Z	3.541	3.25
72	MP4C	Mx	-.003	3.25
73	MP3A	X	2.643	3.25
74	MP3A	Z	4.577	3.25
75	MP3A	Mx	.002	3.25
76	MP3A	X	2.643	3.25
77	MP3A	Z	4.577	3.25
78	MP3A	Mx	.002	3.25
79	MP3B	X	2.643	3.25
80	MP3B	Z	4.577	3.25
81	MP3B	Mx	.002	3.25
82	MP3B	X	2.643	3.25
83	MP3B	Z	4.577	3.25
84	MP3B	Mx	.002	3.25
85	MP3C	X	1.889	3.25
86	MP3C	Z	3.272	3.25
87	MP3C	Mx	-.002	3.25
88	MP3C	X	1.889	3.25
89	MP3C	Z	3.272	3.25
90	MP3C	Mx	-.002	3.25
91	MP1A	X	11.51	.17
92	MP1A	Z	19.935	.17
93	MP1A	Mx	-.012	.17
94	MP1A	X	11.51	5.83
95	MP1A	Z	19.935	5.83
96	MP1A	Mx	-.012	5.83
97	MP1B	X	11.51	.17
98	MP1B	Z	19.935	.17
99	MP1B	Mx	-.012	.17
100	MP1B	X	11.51	5.83
101	MP1B	Z	19.935	5.83
102	MP1B	Mx	-.012	5.83
103	MP1C	X	9.864	.17
104	MP1C	Z	17.084	.17
105	MP1C	Mx	.02	.17
106	MP1C	X	9.864	5.83
107	MP1C	Z	17.084	5.83
108	MP1C	Mx	.02	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	0	.68
2	MP5A	Z	28.201	.68
3	MP5A	Mx	.024	.68
4	MP5A	X	0	6.16
5	MP5A	Z	28.201	6.16
6	MP5A	Mx	.024	6.16
7	MP5B	X	0	.68
8	MP5B	Z	23.041	.68
9	MP5B	Mx	-.03	.68
10	MP5B	X	0	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
11	MP5B	Z	23.041	6.16
12	MP5B	Mx	-.03	6.16
13	MP5C	X	0	.68
14	MP5C	Z	22.126	.68
15	MP5C	Mx	.014	.68
16	MP5C	X	0	6.16
17	MP5C	Z	22.126	6.16
18	MP5C	Mx	.014	6.16
19	MP5A	X	0	.68
20	MP5A	Z	28.201	.68
21	MP5A	Mx	-.024	.68
22	MP5A	X	0	6.16
23	MP5A	Z	28.201	6.16
24	MP5A	Mx	-.024	6.16
25	MP5B	X	0	.68
26	MP5B	Z	23.041	.68
27	MP5B	Mx	-.01	.68
28	MP5B	X	0	6.16
29	MP5B	Z	23.041	6.16
30	MP5B	Mx	-.01	6.16
31	MP5C	X	0	.68
32	MP5C	Z	22.126	.68
33	MP5C	Mx	.027	.68
34	MP5C	X	0	6.16
35	MP5C	Z	22.126	6.16
36	MP5C	Mx	.027	6.16
37	MP3A	X	0	.62
38	MP3A	Z	13.897	.62
39	MP3A	Mx	0	.62
40	MP3A	X	0	2.55
41	MP3A	Z	13.897	2.55
42	MP3A	Mx	0	2.55
43	MP3B	X	0	.62
44	MP3B	Z	7.901	.62
45	MP3B	Mx	-.007	.62
46	MP3B	X	0	2.55
47	MP3B	Z	7.901	2.55
48	MP3B	Mx	-.007	2.55
49	MP3C	X	0	.62
50	MP3C	Z	6.838	.62
51	MP3C	Mx	.006	.62
52	MP3C	X	0	2.55
53	MP3C	Z	6.838	2.55
54	MP3C	Mx	.006	2.55
55	MP4A	X	0	3.25
56	MP4A	Z	5.809	3.25
57	MP4A	Mx	0	3.25
58	MP4A	X	0	3.25
59	MP4A	Z	5.809	3.25
60	MP4A	Mx	0	3.25
61	MP4B	X	0	3.25
62	MP4B	Z	4.478	3.25
63	MP4B	Mx	.003	3.25
64	MP4B	X	0	3.25
65	MP4B	Z	4.478	3.25
66	MP4B	Mx	.003	3.25
67	MP4C	X	0	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP4C	Z	4.242	3.25
69	MP4C	Mx	-.003	3.25
70	MP4C	X	0	3.25
71	MP4C	Z	4.242	3.25
72	MP4C	Mx	-.003	3.25
73	MP3A	X	0	3.25
74	MP3A	Z	5.809	3.25
75	MP3A	Mx	0	3.25
76	MP3A	X	0	3.25
77	MP3A	Z	5.809	3.25
78	MP3A	Mx	0	3.25
79	MP3B	X	0	3.25
80	MP3B	Z	4.239	3.25
81	MP3B	Mx	.002	3.25
82	MP3B	X	0	3.25
83	MP3B	Z	4.239	3.25
84	MP3B	Mx	.002	3.25
85	MP3C	X	0	3.25
86	MP3C	Z	3.96	3.25
87	MP3C	Mx	-.002	3.25
88	MP3C	X	0	3.25
89	MP3C	Z	3.96	3.25
90	MP3C	Mx	-.002	3.25
91	MP1A	X	0	.17
92	MP1A	Z	24.116	.17
93	MP1A	Mx	0	.17
94	MP1A	X	0	5.83
95	MP1A	Z	24.116	5.83
96	MP1A	Mx	0	5.83
97	MP1B	X	0	.17
98	MP1B	Z	20.825	.17
99	MP1B	Mx	-.018	.17
100	MP1B	X	0	5.83
101	MP1B	Z	20.825	5.83
102	MP1B	Mx	-.018	5.83
103	MP1C	X	0	.17
104	MP1C	Z	20.825	.17
105	MP1C	Mx	.018	.17
106	MP1C	X	0	5.83
107	MP1C	Z	20.825	5.83
108	MP1C	Mx	.018	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-13.24	.68
2	MP5A	Z	22.933	.68
3	MP5A	Mx	.032	.68
4	MP5A	X	-13.24	6.16
5	MP5A	Z	22.933	6.16
6	MP5A	Mx	.032	6.16
7	MP5B	X	-10.66	.68
8	MP5B	Z	18.464	.68
9	MP5B	Mx	-.021	.68
10	MP5B	X	-10.66	6.16
11	MP5B	Z	18.464	6.16
12	MP5B	Mx	-.021	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
13	MP5C	X	-12.679	.68
14	MP5C	Z	21.961	.68
15	MP5C	Mx	.000112	.68
16	MP5C	X	-12.679	6.16
17	MP5C	Z	21.961	6.16
18	MP5C	Mx	.000112	6.16
19	MP5A	X	-13.24	.68
20	MP5A	Z	22.933	.68
21	MP5A	Mx	-.006	.68
22	MP5A	X	-13.24	6.16
23	MP5A	Z	22.933	6.16
24	MP5A	Mx	-.006	6.16
25	MP5B	X	-10.66	.68
26	MP5B	Z	18.464	.68
27	MP5B	Mx	-.021	.68
28	MP5B	X	-10.66	6.16
29	MP5B	Z	18.464	6.16
30	MP5B	Mx	-.021	6.16
31	MP5C	X	-12.679	.68
32	MP5C	Z	21.961	.68
33	MP5C	Mx	.032	.68
34	MP5C	X	-12.679	6.16
35	MP5C	Z	21.961	6.16
36	MP5C	Mx	.032	6.16
37	MP3A	X	-5.949	.62
38	MP3A	Z	10.304	.62
39	MP3A	Mx	.006	.62
40	MP3A	X	-5.949	2.55
41	MP3A	Z	10.304	2.55
42	MP3A	Mx	.006	2.55
43	MP3B	X	-2.951	.62
44	MP3B	Z	5.112	.62
45	MP3B	Mx	-.006	.62
46	MP3B	X	-2.951	2.55
47	MP3B	Z	5.112	2.55
48	MP3B	Mx	-.006	2.55
49	MP3C	X	-5.297	.62
50	MP3C	Z	9.175	.62
51	MP3C	Mx	.007	.62
52	MP3C	X	-5.297	2.55
53	MP3C	Z	9.175	2.55
54	MP3C	Mx	.007	2.55
55	MP4A	X	-2.683	3.25
56	MP4A	Z	4.647	3.25
57	MP4A	Mx	-.002	3.25
58	MP4A	X	-2.683	3.25
59	MP4A	Z	4.647	3.25
60	MP4A	Mx	-.002	3.25
61	MP4B	X	-2.017	3.25
62	MP4B	Z	3.494	3.25
63	MP4B	Mx	.003	3.25
64	MP4B	X	-2.017	3.25
65	MP4B	Z	3.494	3.25
66	MP4B	Mx	.003	3.25
67	MP4C	X	-2.538	3.25
68	MP4C	Z	4.396	3.25
69	MP4C	Mx	-.002	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
70	MP4C	X	-2.538	3.25
71	MP4C	Z	4.396	3.25
72	MP4C	Mx	-.002	3.25
73	MP3A	X	-2.643	3.25
74	MP3A	Z	4.577	3.25
75	MP3A	Mx	-.002	3.25
76	MP3A	X	-2.643	3.25
77	MP3A	Z	4.577	3.25
78	MP3A	Mx	-.002	3.25
79	MP3B	X	-1.858	3.25
80	MP3B	Z	3.218	3.25
81	MP3B	Mx	.002	3.25
82	MP3B	X	-1.858	3.25
83	MP3B	Z	3.218	3.25
84	MP3B	Mx	.002	3.25
85	MP3C	X	-2.472	3.25
86	MP3C	Z	4.282	3.25
87	MP3C	Mx	-.002	3.25
88	MP3C	X	-2.472	3.25
89	MP3C	Z	4.282	3.25
90	MP3C	Mx	-.002	3.25
91	MP1A	X	-11.51	.17
92	MP1A	Z	19.935	.17
93	MP1A	Mx	.012	.17
94	MP1A	X	-11.51	5.83
95	MP1A	Z	19.935	5.83
96	MP1A	Mx	.012	5.83
97	MP1B	X	-9.864	.17
98	MP1B	Z	17.084	.17
99	MP1B	Mx	-.02	.17
100	MP1B	X	-9.864	5.83
101	MP1B	Z	17.084	5.83
102	MP1B	Mx	-.02	5.83
103	MP1C	X	-11.51	.17
104	MP1C	Z	19.935	.17
105	MP1C	Mx	.012	.17
106	MP1C	X	-11.51	5.83
107	MP1C	Z	19.935	5.83
108	MP1C	Mx	.012	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-19.954	.68
2	MP5A	Z	11.52	.68
3	MP5A	Mx	.03	.68
4	MP5A	X	-19.954	6.16
5	MP5A	Z	11.52	6.16
6	MP5A	Mx	.03	6.16
7	MP5B	X	-19.954	.68
8	MP5B	Z	11.52	.68
9	MP5B	Mx	-.01	.68
10	MP5B	X	-19.954	6.16
11	MP5B	Z	11.52	6.16
12	MP5B	Mx	-.01	6.16
13	MP5C	X	-24.243	.68
14	MP5C	Z	13.997	.68



Company : GPD
 Designer : enieto
 Job Number : Project No. 10108062
 Model Name : 467920-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
15	MP5C	Mx	-.018	.68
16	MP5C	X	-24.243	6.16
17	MP5C	Z	13.997	6.16
18	MP5C	Mx	-.018	6.16
19	MP5A	X	-19.954	.68
20	MP5A	Z	11.52	.68
21	MP5A	Mx	.01	.68
22	MP5A	X	-19.954	6.16
23	MP5A	Z	11.52	6.16
24	MP5A	Mx	.01	6.16
25	MP5B	X	-19.954	.68
26	MP5B	Z	11.52	.68
27	MP5B	Mx	-.03	.68
28	MP5B	X	-19.954	6.16
29	MP5B	Z	11.52	6.16
30	MP5B	Mx	-.03	6.16
31	MP5C	X	-24.243	.68
32	MP5C	Z	13.997	.68
33	MP5C	Mx	.028	.68
34	MP5C	X	-24.243	6.16
35	MP5C	Z	13.997	6.16
36	MP5C	Mx	.028	6.16
37	MP3A	X	-6.843	.62
38	MP3A	Z	3.951	.62
39	MP3A	Mx	.007	.62
40	MP3A	X	-6.843	2.55
41	MP3A	Z	3.951	2.55
42	MP3A	Mx	.007	2.55
43	MP3B	X	-6.843	.62
44	MP3B	Z	3.951	.62
45	MP3B	Mx	-.007	.62
46	MP3B	X	-6.843	2.55
47	MP3B	Z	3.951	2.55
48	MP3B	Mx	-.007	2.55
49	MP3C	X	-11.827	.62
50	MP3C	Z	6.828	.62
51	MP3C	Mx	.002	.62
52	MP3C	X	-11.827	2.55
53	MP3C	Z	6.828	2.55
54	MP3C	Mx	.002	2.55
55	MP4A	X	-3.878	3.25
56	MP4A	Z	2.239	3.25
57	MP4A	Mx	-.003	3.25
58	MP4A	X	-3.878	3.25
59	MP4A	Z	2.239	3.25
60	MP4A	Mx	-.003	3.25
61	MP4B	X	-3.878	3.25
62	MP4B	Z	2.239	3.25
63	MP4B	Mx	.003	3.25
64	MP4B	X	-3.878	3.25
65	MP4B	Z	2.239	3.25
66	MP4B	Mx	.003	3.25
67	MP4C	X	-4.984	3.25
68	MP4C	Z	2.878	3.25
69	MP4C	Mx	-.000667	3.25
70	MP4C	X	-4.984	3.25
71	MP4C	Z	2.878	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP4C	Mx	-.000667	3.25
73	MP3A	X	-3.671	3.25
74	MP3A	Z	2.119	3.25
75	MP3A	Mx	-.002	3.25
76	MP3A	X	-3.671	3.25
77	MP3A	Z	2.119	3.25
78	MP3A	Mx	-.002	3.25
79	MP3B	X	-3.671	3.25
80	MP3B	Z	2.119	3.25
81	MP3B	Mx	.002	3.25
82	MP3B	X	-3.671	3.25
83	MP3B	Z	2.119	3.25
84	MP3B	Mx	.002	3.25
85	MP3C	X	-4.976	3.25
86	MP3C	Z	2.873	3.25
87	MP3C	Mx	-.000665	3.25
88	MP3C	X	-4.976	3.25
89	MP3C	Z	2.873	3.25
90	MP3C	Mx	-.000665	3.25
91	MP1A	X	-18.035	.17
92	MP1A	Z	10.412	.17
93	MP1A	Mx	.018	.17
94	MP1A	X	-18.035	5.83
95	MP1A	Z	10.412	5.83
96	MP1A	Mx	.018	5.83
97	MP1B	X	-18.035	.17
98	MP1B	Z	10.412	.17
99	MP1B	Mx	-.018	.17
100	MP1B	X	-18.035	5.83
101	MP1B	Z	10.412	5.83
102	MP1B	Mx	-.018	5.83
103	MP1C	X	-20.885	.17
104	MP1C	Z	12.058	.17
105	MP1C	Mx	0	.17
106	MP1C	X	-20.885	5.83
107	MP1C	Z	12.058	5.83
108	MP1C	Mx	0	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-21.321	.68
2	MP5A	Z	0	.68
3	MP5A	Mx	.021	.68
4	MP5A	X	-21.321	6.16
5	MP5A	Z	0	6.16
6	MP5A	Mx	.021	6.16
7	MP5B	X	-26.481	.68
8	MP5B	Z	0	.68
9	MP5B	Mx	.006	.68
10	MP5B	X	-26.481	6.16
11	MP5B	Z	0	6.16
12	MP5B	Mx	.006	6.16
13	MP5C	X	-27.396	.68
14	MP5C	Z	0	.68
15	MP5C	Mx	-.031	.68
16	MP5C	X	-27.396	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
17	MP5C	Z	0	6.16
18	MP5C	Mx	-.031	6.16
19	MP5A	X	-21.321	.68
20	MP5A	Z	0	.68
21	MP5A	Mx	.021	.68
22	MP5A	X	-21.321	6.16
23	MP5A	Z	0	6.16
24	MP5A	Mx	.021	6.16
25	MP5B	X	-26.481	.68
26	MP5B	Z	0	.68
27	MP5B	Mx	-.032	.68
28	MP5B	X	-26.481	6.16
29	MP5B	Z	0	6.16
30	MP5B	Mx	-.032	6.16
31	MP5C	X	-27.396	.68
32	MP5C	Z	0	.68
33	MP5C	Mx	.012	.68
34	MP5C	X	-27.396	6.16
35	MP5C	Z	0	6.16
36	MP5C	Mx	.012	6.16
37	MP3A	X	-5.903	.62
38	MP3A	Z	0	.62
39	MP3A	Mx	.006	.62
40	MP3A	X	-5.903	2.55
41	MP3A	Z	0	2.55
42	MP3A	Mx	.006	2.55
43	MP3B	X	-11.898	.62
44	MP3B	Z	0	.62
45	MP3B	Mx	-.006	.62
46	MP3B	X	-11.898	2.55
47	MP3B	Z	0	2.55
48	MP3B	Mx	-.006	2.55
49	MP3C	X	-12.962	.62
50	MP3C	Z	0	.62
51	MP3C	Mx	-.004	.62
52	MP3C	X	-12.962	2.55
53	MP3C	Z	0	2.55
54	MP3C	Mx	-.004	2.55
55	MP4A	X	-4.035	3.25
56	MP4A	Z	0	3.25
57	MP4A	Mx	-.003	3.25
58	MP4A	X	-4.035	3.25
59	MP4A	Z	0	3.25
60	MP4A	Mx	-.003	3.25
61	MP4B	X	-5.365	3.25
62	MP4B	Z	0	3.25
63	MP4B	Mx	.002	3.25
64	MP4B	X	-5.365	3.25
65	MP4B	Z	0	3.25
66	MP4B	Mx	.002	3.25
67	MP4C	X	-5.601	3.25
68	MP4C	Z	0	3.25
69	MP4C	Mx	.001	3.25
70	MP4C	X	-5.601	3.25
71	MP4C	Z	0	3.25
72	MP4C	Mx	.001	3.25
73	MP3A	X	-3.716	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
74	MP3A	Z	0	3.25
75	MP3A	Mx	-.002	3.25
76	MP3A	X	-3.716	3.25
77	MP3A	Z	0	3.25
78	MP3A	Mx	-.002	3.25
79	MP3B	X	-5.286	3.25
80	MP3B	Z	0	3.25
81	MP3B	Mx	.002	3.25
82	MP3B	X	-5.286	3.25
83	MP3B	Z	0	3.25
84	MP3B	Mx	.002	3.25
85	MP3C	X	-5.564	3.25
86	MP3C	Z	0	3.25
87	MP3C	Mx	.001	3.25
88	MP3C	X	-5.564	3.25
89	MP3C	Z	0	3.25
90	MP3C	Mx	.001	3.25
91	MP1A	X	-19.727	.17
92	MP1A	Z	0	.17
93	MP1A	Mx	.02	.17
94	MP1A	X	-19.727	5.83
95	MP1A	Z	0	5.83
96	MP1A	Mx	.02	5.83
97	MP1B	X	-23.019	.17
98	MP1B	Z	0	.17
99	MP1B	Mx	-.012	.17
100	MP1B	X	-23.019	5.83
101	MP1B	Z	0	5.83
102	MP1B	Mx	-.012	5.83
103	MP1C	X	-23.019	.17
104	MP1C	Z	0	.17
105	MP1C	Mx	-.012	.17
106	MP1C	X	-23.019	5.83
107	MP1C	Z	0	5.83
108	MP1C	Mx	-.012	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-19.954	.68
2	MP5A	Z	-11.52	.68
3	MP5A	Mx	.01	.68
4	MP5A	X	-19.954	6.16
5	MP5A	Z	-11.52	6.16
6	MP5A	Mx	.01	6.16
7	MP5B	X	-24.423	.68
8	MP5B	Z	-14.1	.68
9	MP5B	Mx	.024	.68
10	MP5B	X	-24.423	6.16
11	MP5B	Z	-14.1	6.16
12	MP5B	Mx	.024	6.16
13	MP5C	X	-20.926	.68
14	MP5C	Z	-12.082	.68
15	MP5C	Mx	-.031	.68
16	MP5C	X	-20.926	6.16
17	MP5C	Z	-12.082	6.16
18	MP5C	Mx	-.031	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
19	MP5A	X	-19.954	.68
20	MP5A	Z	-11.52	.68
21	MP5A	Mx	.03	.68
22	MP5A	X	-19.954	6.16
23	MP5A	Z	-11.52	6.16
24	MP5A	Mx	.03	6.16
25	MP5B	X	-24.423	.68
26	MP5B	Z	-14.1	.68
27	MP5B	Mx	-.024	.68
28	MP5B	X	-24.423	6.16
29	MP5B	Z	-14.1	6.16
30	MP5B	Mx	-.024	6.16
31	MP5C	X	-20.926	.68
32	MP5C	Z	-12.082	.68
33	MP5C	Mx	-.006	.68
34	MP5C	X	-20.926	6.16
35	MP5C	Z	-12.082	6.16
36	MP5C	Mx	-.006	6.16
37	MP3A	X	-6.843	.62
38	MP3A	Z	-3.951	.62
39	MP3A	Mx	.007	.62
40	MP3A	X	-6.843	2.55
41	MP3A	Z	-3.951	2.55
42	MP3A	Mx	.007	2.55
43	MP3B	X	-12.035	.62
44	MP3B	Z	-6.949	.62
45	MP3B	Mx	1e-6	.62
46	MP3B	X	-12.035	2.55
47	MP3B	Z	-6.949	2.55
48	MP3B	Mx	1e-6	2.55
49	MP3C	X	-7.972	.62
50	MP3C	Z	-4.603	.62
51	MP3C	Mx	-.007	.62
52	MP3C	X	-7.972	2.55
53	MP3C	Z	-4.603	2.55
54	MP3C	Mx	-.007	2.55
55	MP4A	X	-3.878	3.25
56	MP4A	Z	-2.239	3.25
57	MP4A	Mx	-.003	3.25
58	MP4A	X	-3.878	3.25
59	MP4A	Z	-2.239	3.25
60	MP4A	Mx	-.003	3.25
61	MP4B	X	-5.031	3.25
62	MP4B	Z	-2.904	3.25
63	MP4B	Mx	0	3.25
64	MP4B	X	-5.031	3.25
65	MP4B	Z	-2.904	3.25
66	MP4B	Mx	0	3.25
67	MP4C	X	-4.129	3.25
68	MP4C	Z	-2.384	3.25
69	MP4C	Mx	.002	3.25
70	MP4C	X	-4.129	3.25
71	MP4C	Z	-2.384	3.25
72	MP4C	Mx	.002	3.25
73	MP3A	X	-3.671	3.25
74	MP3A	Z	-2.119	3.25
75	MP3A	Mx	-.002	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
76	MP3A	X	-3.671	3.25
77	MP3A	Z	-2.119	3.25
78	MP3A	Mx	-.002	3.25
79	MP3B	X	-5.031	3.25
80	MP3B	Z	-2.904	3.25
81	MP3B	Mx	0	3.25
82	MP3B	X	-5.031	3.25
83	MP3B	Z	-2.904	3.25
84	MP3B	Mx	0	3.25
85	MP3C	X	-3.967	3.25
86	MP3C	Z	-2.29	3.25
87	MP3C	Mx	.002	3.25
88	MP3C	X	-3.967	3.25
89	MP3C	Z	-2.29	3.25
90	MP3C	Mx	.002	3.25
91	MP1A	X	-18.035	.17
92	MP1A	Z	-10.412	.17
93	MP1A	Mx	.018	.17
94	MP1A	X	-18.035	5.83
95	MP1A	Z	-10.412	5.83
96	MP1A	Mx	.018	5.83
97	MP1B	X	-20.885	.17
98	MP1B	Z	-12.058	.17
99	MP1B	Mx	0	.17
100	MP1B	X	-20.885	5.83
101	MP1B	Z	-12.058	5.83
102	MP1B	Mx	0	5.83
103	MP1C	X	-18.035	.17
104	MP1C	Z	-10.412	.17
105	MP1C	Mx	-.018	.17
106	MP1C	X	-18.035	5.83
107	MP1C	Z	-10.412	5.83
108	MP1C	Mx	-.018	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-13.24	.68
2	MP5A	Z	-22.933	.68
3	MP5A	Mx	-.006	.68
4	MP5A	X	-13.24	6.16
5	MP5A	Z	-22.933	6.16
6	MP5A	Mx	-.006	6.16
7	MP5B	X	-13.24	.68
8	MP5B	Z	-22.933	.68
9	MP5B	Mx	.032	.68
10	MP5B	X	-13.24	6.16
11	MP5B	Z	-22.933	6.16
12	MP5B	Mx	.032	6.16
13	MP5C	X	-10.764	.68
14	MP5C	Z	-18.644	.68
15	MP5C	Mx	-.024	.68
16	MP5C	X	-10.764	6.16
17	MP5C	Z	-18.644	6.16
18	MP5C	Mx	-.024	6.16
19	MP5A	X	-13.24	.68
20	MP5A	Z	-22.933	.68



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]	
21	MP5A	Mx	.032	.68
22	MP5A	X	-13.24	6.16
23	MP5A	Z	-22.933	6.16
24	MP5A	Mx	.032	6.16
25	MP5B	X	-13.24	.68
26	MP5B	Z	-22.933	.68
27	MP5B	Mx	-.006	.68
28	MP5B	X	-13.24	6.16
29	MP5B	Z	-22.933	6.16
30	MP5B	Mx	-.006	6.16
31	MP5C	X	-10.764	.68
32	MP5C	Z	-18.644	.68
33	MP5C	Mx	-.018	.68
34	MP5C	X	-10.764	6.16
35	MP5C	Z	-18.644	6.16
36	MP5C	Mx	-.018	6.16
37	MP3A	X	-5.949	.62
38	MP3A	Z	-10.304	.62
39	MP3A	Mx	.006	.62
40	MP3A	X	-5.949	2.55
41	MP3A	Z	-10.304	2.55
42	MP3A	Mx	.006	2.55
43	MP3B	X	-5.949	.62
44	MP3B	Z	-10.304	.62
45	MP3B	Mx	.006	.62
46	MP3B	X	-5.949	2.55
47	MP3B	Z	-10.304	2.55
48	MP3B	Mx	.006	2.55
49	MP3C	X	-3.072	.62
50	MP3C	Z	-5.321	.62
51	MP3C	Mx	-.006	.62
52	MP3C	X	-3.072	2.55
53	MP3C	Z	-5.321	2.55
54	MP3C	Mx	-.006	2.55
55	MP4A	X	-2.683	3.25
56	MP4A	Z	-4.647	3.25
57	MP4A	Mx	-.002	3.25
58	MP4A	X	-2.683	3.25
59	MP4A	Z	-4.647	3.25
60	MP4A	Mx	-.002	3.25
61	MP4B	X	-2.683	3.25
62	MP4B	Z	-4.647	3.25
63	MP4B	Mx	-.002	3.25
64	MP4B	X	-2.683	3.25
65	MP4B	Z	-4.647	3.25
66	MP4B	Mx	-.002	3.25
67	MP4C	X	-2.044	3.25
68	MP4C	Z	-3.541	3.25
69	MP4C	Mx	.003	3.25
70	MP4C	X	-2.044	3.25
71	MP4C	Z	-3.541	3.25
72	MP4C	Mx	.003	3.25
73	MP3A	X	-2.643	3.25
74	MP3A	Z	-4.577	3.25
75	MP3A	Mx	-.002	3.25
76	MP3A	X	-2.643	3.25
77	MP3A	Z	-4.577	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3A	Mx	-.002	3.25
79	MP3B	X	-2.643	3.25
80	MP3B	Z	-4.577	3.25
81	MP3B	Mx	-.002	3.25
82	MP3B	X	-2.643	3.25
83	MP3B	Z	-4.577	3.25
84	MP3B	Mx	-.002	3.25
85	MP3C	X	-1.889	3.25
86	MP3C	Z	-3.272	3.25
87	MP3C	Mx	.002	3.25
88	MP3C	X	-1.889	3.25
89	MP3C	Z	-3.272	3.25
90	MP3C	Mx	.002	3.25
91	MP1A	X	-11.51	.17
92	MP1A	Z	-19.935	.17
93	MP1A	Mx	.012	.17
94	MP1A	X	-11.51	5.83
95	MP1A	Z	-19.935	5.83
96	MP1A	Mx	.012	5.83
97	MP1B	X	-11.51	.17
98	MP1B	Z	-19.935	.17
99	MP1B	Mx	.012	.17
100	MP1B	X	-11.51	5.83
101	MP1B	Z	-19.935	5.83
102	MP1B	Mx	.012	5.83
103	MP1C	X	-9.864	.17
104	MP1C	Z	-17.084	.17
105	MP1C	Mx	-.02	.17
106	MP1C	X	-9.864	5.83
107	MP1C	Z	-17.084	5.83
108	MP1C	Mx	-.02	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	.68
2	MP5A	Z	-9.337	.68
3	MP5A	Mx	-.008	.68
4	MP5A	X	0	6.16
5	MP5A	Z	-9.337	6.16
6	MP5A	Mx	-.008	6.16
7	MP5B	X	0	.68
8	MP5B	Z	-7.541	.68
9	MP5B	Mx	.01	.68
10	MP5B	X	0	6.16
11	MP5B	Z	-7.541	6.16
12	MP5B	Mx	.01	6.16
13	MP5C	X	0	.68
14	MP5C	Z	-7.222	.68
15	MP5C	Mx	-.005	.68
16	MP5C	X	0	6.16
17	MP5C	Z	-7.222	6.16
18	MP5C	Mx	-.005	6.16
19	MP5A	X	0	.68
20	MP5A	Z	-9.337	.68
21	MP5A	Mx	.008	.68
22	MP5A	X	0	6.16



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
23	MP5A	Z	-9.337	6.16
24	MP5A	Mx	.008	6.16
25	MP5B	X	0	.68
26	MP5B	Z	-7.541	.68
27	MP5B	Mx	.003	.68
28	MP5B	X	0	6.16
29	MP5B	Z	-7.541	6.16
30	MP5B	Mx	.003	6.16
31	MP5C	X	0	.68
32	MP5C	Z	-7.222	.68
33	MP5C	Mx	-.009	.68
34	MP5C	X	0	6.16
35	MP5C	Z	-7.222	6.16
36	MP5C	Mx	-.009	6.16
37	MP3A	X	0	.62
38	MP3A	Z	-4.446	.62
39	MP3A	Mx	0	.62
40	MP3A	X	0	2.55
41	MP3A	Z	-4.446	2.55
42	MP3A	Mx	0	2.55
43	MP3B	X	0	.62
44	MP3B	Z	-2.417	.62
45	MP3B	Mx	.002	.62
46	MP3B	X	0	2.55
47	MP3B	Z	-2.417	2.55
48	MP3B	Mx	.002	2.55
49	MP3C	X	0	.62
50	MP3C	Z	-2.057	.62
51	MP3C	Mx	-.002	.62
52	MP3C	X	0	2.55
53	MP3C	Z	-2.057	2.55
54	MP3C	Mx	-.002	2.55
55	MP4A	X	0	3.25
56	MP4A	Z	-1.759	3.25
57	MP4A	Mx	0	3.25
58	MP4A	X	0	3.25
59	MP4A	Z	-1.759	3.25
60	MP4A	Mx	0	3.25
61	MP4B	X	0	3.25
62	MP4B	Z	-1.321	3.25
63	MP4B	Mx	-.000763	3.25
64	MP4B	X	0	3.25
65	MP4B	Z	-1.321	3.25
66	MP4B	Mx	-.000763	3.25
67	MP4C	X	0	3.25
68	MP4C	Z	-1.244	3.25
69	MP4C	Mx	.000779	3.25
70	MP4C	X	0	3.25
71	MP4C	Z	-1.244	3.25
72	MP4C	Mx	.000779	3.25
73	MP3A	X	0	3.25
74	MP3A	Z	-1.759	3.25
75	MP3A	Mx	0	3.25
76	MP3A	X	0	3.25
77	MP3A	Z	-1.759	3.25
78	MP3A	Mx	0	3.25
79	MP3B	X	0	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
80	MP3B	Z	-1.242	3.25
81	MP3B	Mx	-.000717	3.25
82	MP3B	X	0	3.25
83	MP3B	Z	-1.242	3.25
84	MP3B	Mx	-.000717	3.25
85	MP3C	X	0	3.25
86	MP3C	Z	-1.15	3.25
87	MP3C	Mx	.00072	3.25
88	MP3C	X	0	3.25
89	MP3C	Z	-1.15	3.25
90	MP3C	Mx	.00072	3.25
91	MP1A	X	0	.17
92	MP1A	Z	-7.757	.17
93	MP1A	Mx	0	.17
94	MP1A	X	0	5.83
95	MP1A	Z	-7.757	5.83
96	MP1A	Mx	0	5.83
97	MP1B	X	0	.17
98	MP1B	Z	-6.618	.17
99	MP1B	Mx	.006	.17
100	MP1B	X	0	5.83
101	MP1B	Z	-6.618	5.83
102	MP1B	Mx	.006	5.83
103	MP1C	X	0	.17
104	MP1C	Z	-6.618	.17
105	MP1C	Mx	-.006	.17
106	MP1C	X	0	5.83
107	MP1C	Z	-6.618	5.83
108	MP1C	Mx	-.006	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	4.369	.68
2	MP5A	Z	-7.568	.68
3	MP5A	Mx	-.011	.68
4	MP5A	X	4.369	6.16
5	MP5A	Z	-7.568	6.16
6	MP5A	Mx	-.011	6.16
7	MP5B	X	3.471	.68
8	MP5B	Z	-6.012	.68
9	MP5B	Mx	.007	.68
10	MP5B	X	3.471	6.16
11	MP5B	Z	-6.012	6.16
12	MP5B	Mx	.007	6.16
13	MP5C	X	4.174	.68
14	MP5C	Z	-7.229	.68
15	MP5C	Mx	-3.6e-5	.68
16	MP5C	X	4.174	6.16
17	MP5C	Z	-7.229	6.16
18	MP5C	Mx	-3.6e-5	6.16
19	MP5A	X	4.369	.68
20	MP5A	Z	-7.568	.68
21	MP5A	Mx	.002	.68
22	MP5A	X	4.369	6.16
23	MP5A	Z	-7.568	6.16
24	MP5A	Mx	.002	6.16



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
25	MP5B	X	3.471 .68
26	MP5B	Z	-6.012 .68
27	MP5B	Mx	.007 .68
28	MP5B	X	3.471 6.16
29	MP5B	Z	-6.012 6.16
30	MP5B	Mx	.007 6.16
31	MP5C	X	4.174 .68
32	MP5C	Z	-7.229 .68
33	MP5C	Mx	-.011 .68
34	MP5C	X	4.174 6.16
35	MP5C	Z	-7.229 6.16
36	MP5C	Mx	-.011 6.16
37	MP3A	X	1.885 .62
38	MP3A	Z	-3.265 .62
39	MP3A	Mx	-.002 .62
40	MP3A	X	1.885 2.55
41	MP3A	Z	-3.265 2.55
42	MP3A	Mx	-.002 2.55
43	MP3B	X	.87 .62
44	MP3B	Z	-1.508 .62
45	MP3B	Mx	.002 .62
46	MP3B	X	.87 2.55
47	MP3B	Z	-1.508 2.55
48	MP3B	Mx	.002 2.55
49	MP3C	X	1.664 .62
50	MP3C	Z	-2.882 .62
51	MP3C	Mx	-.002 .62
52	MP3C	X	1.664 2.55
53	MP3C	Z	-2.882 2.55
54	MP3C	Mx	-.002 2.55
55	MP4A	X	.806 3.25
56	MP4A	Z	-1.397 3.25
57	MP4A	Mx	.000537 3.25
58	MP4A	X	.806 3.25
59	MP4A	Z	-1.397 3.25
60	MP4A	Mx	.000537 3.25
61	MP4B	X	.588 3.25
62	MP4B	Z	-1.018 3.25
63	MP4B	Mx	-.000784 3.25
64	MP4B	X	.588 3.25
65	MP4B	Z	-1.018 3.25
66	MP4B	Mx	-.000784 3.25
67	MP4C	X	.759 3.25
68	MP4C	Z	-1.314 3.25
69	MP4C	Mx	.00065 3.25
70	MP4C	X	.759 3.25
71	MP4C	Z	-1.314 3.25
72	MP4C	Mx	.00065 3.25
73	MP3A	X	.793 3.25
74	MP3A	Z	-1.374 3.25
75	MP3A	Mx	.000529 3.25
76	MP3A	X	.793 3.25
77	MP3A	Z	-1.374 3.25
78	MP3A	Mx	.000529 3.25
79	MP3B	X	.535 3.25
80	MP3B	Z	-.926 3.25
81	MP3B	Mx	-.000713 3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP3B	X	.535	3.25
83	MP3B	Z	-.926	3.25
84	MP3B	Mx	-.000713	3.25
85	MP3C	X	.737	3.25
86	MP3C	Z	-1.277	3.25
87	MP3C	Mx	.000632	3.25
88	MP3C	X	.737	3.25
89	MP3C	Z	-1.277	3.25
90	MP3C	Mx	.000632	3.25
91	MP1A	X	3.689	.17
92	MP1A	Z	-6.389	.17
93	MP1A	Mx	-.004	.17
94	MP1A	X	3.689	5.83
95	MP1A	Z	-6.389	5.83
96	MP1A	Mx	-.004	5.83
97	MP1B	X	3.119	.17
98	MP1B	Z	-5.402	.17
99	MP1B	Mx	.006	.17
100	MP1B	X	3.119	5.83
101	MP1B	Z	-5.402	5.83
102	MP1B	Mx	.006	5.83
103	MP1C	X	3.689	.17
104	MP1C	Z	-6.389	.17
105	MP1C	Mx	-.004	.17
106	MP1C	X	3.689	5.83
107	MP1C	Z	-6.389	5.83
108	MP1C	Mx	-.004	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	6.53	.68
2	MP5A	Z	-3.77	.68
3	MP5A	Mx	-.01	.68
4	MP5A	X	6.53	6.16
5	MP5A	Z	-3.77	6.16
6	MP5A	Mx	-.01	6.16
7	MP5B	X	6.53	.68
8	MP5B	Z	-3.77	.68
9	MP5B	Mx	.003	.68
10	MP5B	X	6.53	6.16
11	MP5B	Z	-3.77	6.16
12	MP5B	Mx	.003	6.16
13	MP5C	X	8.024	.68
14	MP5C	Z	-4.632	.68
15	MP5C	Mx	.006	.68
16	MP5C	X	8.024	6.16
17	MP5C	Z	-4.632	6.16
18	MP5C	Mx	.006	6.16
19	MP5A	X	6.53	.68
20	MP5A	Z	-3.77	.68
21	MP5A	Mx	-.003	.68
22	MP5A	X	6.53	6.16
23	MP5A	Z	-3.77	6.16
24	MP5A	Mx	-.003	6.16
25	MP5B	X	6.53	.68
26	MP5B	Z	-3.77	.68



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
27	MP5B	Mx	.01	.68
28	MP5B	X	6.53	6.16
29	MP5B	Z	-3.77	6.16
30	MP5B	Mx	.01	6.16
31	MP5C	X	8.024	.68
32	MP5C	Z	-4.632	.68
33	MP5C	Mx	-.009	.68
34	MP5C	X	8.024	6.16
35	MP5C	Z	-4.632	6.16
36	MP5C	Mx	-.009	6.16
37	MP3A	X	2.093	.62
38	MP3A	Z	-1.209	.62
39	MP3A	Mx	-.002	.62
40	MP3A	X	2.093	2.55
41	MP3A	Z	-1.209	2.55
42	MP3A	Mx	-.002	2.55
43	MP3B	X	2.093	.62
44	MP3B	Z	-1.209	.62
45	MP3B	Mx	.002	.62
46	MP3B	X	2.093	2.55
47	MP3B	Z	-1.209	2.55
48	MP3B	Mx	.002	2.55
49	MP3C	X	3.78	.62
50	MP3C	Z	-2.182	.62
51	MP3C	Mx	-.000758	.62
52	MP3C	X	3.78	2.55
53	MP3C	Z	-2.182	2.55
54	MP3C	Mx	-.000758	2.55
55	MP4A	X	1.144	3.25
56	MP4A	Z	-.661	3.25
57	MP4A	Mx	.000763	3.25
58	MP4A	X	1.144	3.25
59	MP4A	Z	-.661	3.25
60	MP4A	Mx	.000763	3.25
61	MP4B	X	1.144	3.25
62	MP4B	Z	-.661	3.25
63	MP4B	Mx	-.000763	3.25
64	MP4B	X	1.144	3.25
65	MP4B	Z	-.661	3.25
66	MP4B	Mx	-.000763	3.25
67	MP4C	X	1.508	3.25
68	MP4C	Z	-.871	3.25
69	MP4C	Mx	.000202	3.25
70	MP4C	X	1.508	3.25
71	MP4C	Z	-.871	3.25
72	MP4C	Mx	.000202	3.25
73	MP3A	X	1.076	3.25
74	MP3A	Z	-.621	3.25
75	MP3A	Mx	.000717	3.25
76	MP3A	X	1.076	3.25
77	MP3A	Z	-.621	3.25
78	MP3A	Mx	.000717	3.25
79	MP3B	X	1.076	3.25
80	MP3B	Z	-.621	3.25
81	MP3B	Mx	-.000717	3.25
82	MP3B	X	1.076	3.25
83	MP3B	Z	-.621	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
84	MP3B	Mx	-.000717	3.25
85	MP3C	X	1.505	3.25
86	MP3C	Z	-.869	3.25
87	MP3C	Mx	.000201	3.25
88	MP3C	X	1.505	3.25
89	MP3C	Z	-.869	3.25
90	MP3C	Mx	.000201	3.25
91	MP1A	X	5.731	.17
92	MP1A	Z	-3.309	.17
93	MP1A	Mx	-.006	.17
94	MP1A	X	5.731	5.83
95	MP1A	Z	-3.309	5.83
96	MP1A	Mx	-.006	5.83
97	MP1B	X	5.731	.17
98	MP1B	Z	-3.309	.17
99	MP1B	Mx	.006	.17
100	MP1B	X	5.731	5.83
101	MP1B	Z	-3.309	5.83
102	MP1B	Mx	.006	5.83
103	MP1C	X	6.718	.17
104	MP1C	Z	-3.879	.17
105	MP1C	Mx	0	.17
106	MP1C	X	6.718	5.83
107	MP1C	Z	-3.879	5.83
108	MP1C	Mx	0	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	6.942	.68
2	MP5A	Z	0	.68
3	MP5A	Mx	-.007	.68
4	MP5A	X	6.942	6.16
5	MP5A	Z	0	6.16
6	MP5A	Mx	-.007	6.16
7	MP5B	X	8.738	.68
8	MP5B	Z	0	.68
9	MP5B	Mx	-.002	.68
10	MP5B	X	8.738	6.16
11	MP5B	Z	0	6.16
12	MP5B	Mx	-.002	6.16
13	MP5C	X	9.057	.68
14	MP5C	Z	0	.68
15	MP5C	Mx	.01	.68
16	MP5C	X	9.057	6.16
17	MP5C	Z	0	6.16
18	MP5C	Mx	.01	6.16
19	MP5A	X	6.942	.68
20	MP5A	Z	0	.68
21	MP5A	Mx	-.007	.68
22	MP5A	X	6.942	6.16
23	MP5A	Z	0	6.16
24	MP5A	Mx	-.007	6.16
25	MP5B	X	8.738	.68
26	MP5B	Z	0	.68
27	MP5B	Mx	.011	.68
28	MP5B	X	8.738	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP5B	Z	0	6.16
30	MP5B	Mx	.011	6.16
31	MP5C	X	9.057	.68
32	MP5C	Z	0	.68
33	MP5C	Mx	-.004	.68
34	MP5C	X	9.057	6.16
35	MP5C	Z	0	6.16
36	MP5C	Mx	-.004	6.16
37	MP3A	X	1.741	.62
38	MP3A	Z	0	.62
39	MP3A	Mx	-.002	.62
40	MP3A	X	1.741	2.55
41	MP3A	Z	0	2.55
42	MP3A	Mx	-.002	2.55
43	MP3B	X	3.77	.62
44	MP3B	Z	0	.62
45	MP3B	Mx	.002	.62
46	MP3B	X	3.77	2.55
47	MP3B	Z	0	2.55
48	MP3B	Mx	.002	2.55
49	MP3C	X	4.13	.62
50	MP3C	Z	0	.62
51	MP3C	Mx	.001	.62
52	MP3C	X	4.13	2.55
53	MP3C	Z	0	2.55
54	MP3C	Mx	.001	2.55
55	MP4A	X	1.176	3.25
56	MP4A	Z	0	3.25
57	MP4A	Mx	.000784	3.25
58	MP4A	X	1.176	3.25
59	MP4A	Z	0	3.25
60	MP4A	Mx	.000784	3.25
61	MP4B	X	1.613	3.25
62	MP4B	Z	0	3.25
63	MP4B	Mx	-.000538	3.25
64	MP4B	X	1.613	3.25
65	MP4B	Z	0	3.25
66	MP4B	Mx	-.000538	3.25
67	MP4C	X	1.69	3.25
68	MP4C	Z	0	3.25
69	MP4C	Mx	-.000385	3.25
70	MP4C	X	1.69	3.25
71	MP4C	Z	0	3.25
72	MP4C	Mx	-.000385	3.25
73	MP3A	X	1.07	3.25
74	MP3A	Z	0	3.25
75	MP3A	Mx	.000713	3.25
76	MP3A	X	1.07	3.25
77	MP3A	Z	0	3.25
78	MP3A	Mx	.000713	3.25
79	MP3B	X	1.586	3.25
80	MP3B	Z	0	3.25
81	MP3B	Mx	-.000529	3.25
82	MP3B	X	1.586	3.25
83	MP3B	Z	0	3.25
84	MP3B	Mx	-.000529	3.25
85	MP3C	X	1.678	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP3C	Z	0	3.25
87	MP3C	Mx	-.000383	3.25
88	MP3C	X	1.678	3.25
89	MP3C	Z	0	3.25
90	MP3C	Mx	-.000383	3.25
91	MP1A	X	6.238	.17
92	MP1A	Z	0	.17
93	MP1A	Mx	-.006	.17
94	MP1A	X	6.238	5.83
95	MP1A	Z	0	5.83
96	MP1A	Mx	-.006	5.83
97	MP1B	X	7.377	.17
98	MP1B	Z	0	.17
99	MP1B	Mx	.004	.17
100	MP1B	X	7.377	5.83
101	MP1B	Z	0	5.83
102	MP1B	Mx	.004	5.83
103	MP1C	X	7.377	.17
104	MP1C	Z	0	.17
105	MP1C	Mx	.004	.17
106	MP1C	X	7.377	5.83
107	MP1C	Z	0	5.83
108	MP1C	Mx	.004	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	6.53	.68
2	MP5A	Z	3.77	.68
3	MP5A	Mx	-.003	.68
4	MP5A	X	6.53	6.16
5	MP5A	Z	3.77	6.16
6	MP5A	Mx	-.003	6.16
7	MP5B	X	8.086	.68
8	MP5B	Z	4.669	.68
9	MP5B	Mx	-.008	.68
10	MP5B	X	8.086	6.16
11	MP5B	Z	4.669	6.16
12	MP5B	Mx	-.008	6.16
13	MP5C	X	6.869	.68
14	MP5C	Z	3.966	.68
15	MP5C	Mx	.01	.68
16	MP5C	X	6.869	6.16
17	MP5C	Z	3.966	6.16
18	MP5C	Mx	.01	6.16
19	MP5A	X	6.53	.68
20	MP5A	Z	3.77	.68
21	MP5A	Mx	-.01	.68
22	MP5A	X	6.53	6.16
23	MP5A	Z	3.77	6.16
24	MP5A	Mx	-.01	6.16
25	MP5B	X	8.086	.68
26	MP5B	Z	4.669	.68
27	MP5B	Mx	.008	.68
28	MP5B	X	8.086	6.16
29	MP5B	Z	4.669	6.16
30	MP5B	Mx	.008	6.16



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP5C	X	6.869 .68
32	MP5C	Z	3.966 .68
33	MP5C	Mx	.002 .68
34	MP5C	X	6.869 6.16
35	MP5C	Z	3.966 6.16
36	MP5C	Mx	.002 6.16
37	MP3A	X	2.093 .62
38	MP3A	Z	1.209 .62
39	MP3A	Mx	-.002 .62
40	MP3A	X	2.093 2.55
41	MP3A	Z	1.209 2.55
42	MP3A	Mx	-.002 2.55
43	MP3B	X	3.851 .62
44	MP3B	Z	2.223 .62
45	MP3B	Mx	0 .62
46	MP3B	X	3.851 2.55
47	MP3B	Z	2.223 2.55
48	MP3B	Mx	0 2.55
49	MP3C	X	2.476 .62
50	MP3C	Z	1.429 .62
51	MP3C	Mx	.002 .62
52	MP3C	X	2.476 2.55
53	MP3C	Z	1.429 2.55
54	MP3C	Mx	.002 2.55
55	MP4A	X	1.144 3.25
56	MP4A	Z	.661 3.25
57	MP4A	Mx	.000763 3.25
58	MP4A	X	1.144 3.25
59	MP4A	Z	.661 3.25
60	MP4A	Mx	.000763 3.25
61	MP4B	X	1.523 3.25
62	MP4B	Z	.879 3.25
63	MP4B	Mx	0 3.25
64	MP4B	X	1.523 3.25
65	MP4B	Z	.879 3.25
66	MP4B	Mx	0 3.25
67	MP4C	X	1.227 3.25
68	MP4C	Z	.708 3.25
69	MP4C	Mx	-.000723 3.25
70	MP4C	X	1.227 3.25
71	MP4C	Z	.708 3.25
72	MP4C	Mx	-.000723 3.25
73	MP3A	X	1.076 3.25
74	MP3A	Z	.621 3.25
75	MP3A	Mx	.000717 3.25
76	MP3A	X	1.076 3.25
77	MP3A	Z	.621 3.25
78	MP3A	Mx	.000717 3.25
79	MP3B	X	1.523 3.25
80	MP3B	Z	.879 3.25
81	MP3B	Mx	0 3.25
82	MP3B	X	1.523 3.25
83	MP3B	Z	.879 3.25
84	MP3B	Mx	0 3.25
85	MP3C	X	1.173 3.25
86	MP3C	Z	.677 3.25
87	MP3C	Mx	-.000692 3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
88	MP3C	X	1.173	3.25
89	MP3C	Z	.677	3.25
90	MP3C	Mx	-.000692	3.25
91	MP1A	X	5.731	.17
92	MP1A	Z	3.309	.17
93	MP1A	Mx	-.006	.17
94	MP1A	X	5.731	5.83
95	MP1A	Z	3.309	5.83
96	MP1A	Mx	-.006	5.83
97	MP1B	X	6.718	.17
98	MP1B	Z	3.879	.17
99	MP1B	Mx	0	.17
100	MP1B	X	6.718	5.83
101	MP1B	Z	3.879	5.83
102	MP1B	Mx	0	5.83
103	MP1C	X	5.731	.17
104	MP1C	Z	3.309	.17
105	MP1C	Mx	.006	.17
106	MP1C	X	5.731	5.83
107	MP1C	Z	3.309	5.83
108	MP1C	Mx	.006	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	4.369	.68
2	MP5A	Z	7.568	.68
3	MP5A	Mx	.002	.68
4	MP5A	X	4.369	6.16
5	MP5A	Z	7.568	6.16
6	MP5A	Mx	.002	6.16
7	MP5B	X	4.369	.68
8	MP5B	Z	7.568	.68
9	MP5B	Mx	-.011	.68
10	MP5B	X	4.369	6.16
11	MP5B	Z	7.568	6.16
12	MP5B	Mx	-.011	6.16
13	MP5C	X	3.507	.68
14	MP5C	Z	6.074	.68
15	MP5C	Mx	.008	.68
16	MP5C	X	3.507	6.16
17	MP5C	Z	6.074	6.16
18	MP5C	Mx	.008	6.16
19	MP5A	X	4.369	.68
20	MP5A	Z	7.568	.68
21	MP5A	Mx	-.011	.68
22	MP5A	X	4.369	6.16
23	MP5A	Z	7.568	6.16
24	MP5A	Mx	-.011	6.16
25	MP5B	X	4.369	.68
26	MP5B	Z	7.568	.68
27	MP5B	Mx	.002	.68
28	MP5B	X	4.369	6.16
29	MP5B	Z	7.568	6.16
30	MP5B	Mx	.002	6.16
31	MP5C	X	3.507	.68
32	MP5C	Z	6.074	.68



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]	
33	MP5C	Mx	.006	.68
34	MP5C	X	3.507	6.16
35	MP5C	Z	6.074	6.16
36	MP5C	Mx	.006	6.16
37	MP3A	X	1.885	.62
38	MP3A	Z	3.265	.62
39	MP3A	Mx	-.002	.62
40	MP3A	X	1.885	2.55
41	MP3A	Z	3.265	2.55
42	MP3A	Mx	-.002	2.55
43	MP3B	X	1.885	.62
44	MP3B	Z	3.265	.62
45	MP3B	Mx	-.002	.62
46	MP3B	X	1.885	2.55
47	MP3B	Z	3.265	2.55
48	MP3B	Mx	-.002	2.55
49	MP3C	X	.911	.62
50	MP3C	Z	1.578	.62
51	MP3C	Mx	.002	.62
52	MP3C	X	.911	2.55
53	MP3C	Z	1.578	2.55
54	MP3C	Mx	.002	2.55
55	MP4A	X	.806	3.25
56	MP4A	Z	1.397	3.25
57	MP4A	Mx	.000537	3.25
58	MP4A	X	.806	3.25
59	MP4A	Z	1.397	3.25
60	MP4A	Mx	.000537	3.25
61	MP4B	X	.806	3.25
62	MP4B	Z	1.397	3.25
63	MP4B	Mx	.000538	3.25
64	MP4B	X	.806	3.25
65	MP4B	Z	1.397	3.25
66	MP4B	Mx	.000538	3.25
67	MP4C	X	.597	3.25
68	MP4C	Z	1.033	3.25
69	MP4C	Mx	-.000783	3.25
70	MP4C	X	.597	3.25
71	MP4C	Z	1.033	3.25
72	MP4C	Mx	-.000783	3.25
73	MP3A	X	.793	3.25
74	MP3A	Z	1.374	3.25
75	MP3A	Mx	.000529	3.25
76	MP3A	X	.793	3.25
77	MP3A	Z	1.374	3.25
78	MP3A	Mx	.000529	3.25
79	MP3B	X	.793	3.25
80	MP3B	Z	1.374	3.25
81	MP3B	Mx	.000529	3.25
82	MP3B	X	.793	3.25
83	MP3B	Z	1.374	3.25
84	MP3B	Mx	.000529	3.25
85	MP3C	X	.545	3.25
86	MP3C	Z	.944	3.25
87	MP3C	Mx	-.000716	3.25
88	MP3C	X	.545	3.25
89	MP3C	Z	.944	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
90	MP3C	Mx	-.000716	3.25
91	MP1A	X	3.689	.17
92	MP1A	Z	6.389	.17
93	MP1A	Mx	-.004	.17
94	MP1A	X	3.689	5.83
95	MP1A	Z	6.389	5.83
96	MP1A	Mx	-.004	5.83
97	MP1B	X	3.689	.17
98	MP1B	Z	6.389	.17
99	MP1B	Mx	-.004	.17
100	MP1B	X	3.689	5.83
101	MP1B	Z	6.389	5.83
102	MP1B	Mx	-.004	5.83
103	MP1C	X	3.119	.17
104	MP1C	Z	5.402	.17
105	MP1C	Mx	.006	.17
106	MP1C	X	3.119	5.83
107	MP1C	Z	5.402	5.83
108	MP1C	Mx	.006	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	0	.68
2	MP5A	Z	9.337	.68
3	MP5A	Mx	.008	.68
4	MP5A	X	0	6.16
5	MP5A	Z	9.337	6.16
6	MP5A	Mx	.008	6.16
7	MP5B	X	0	.68
8	MP5B	Z	7.541	.68
9	MP5B	Mx	-.01	.68
10	MP5B	X	0	6.16
11	MP5B	Z	7.541	6.16
12	MP5B	Mx	-.01	6.16
13	MP5C	X	0	.68
14	MP5C	Z	7.222	.68
15	MP5C	Mx	.005	.68
16	MP5C	X	0	6.16
17	MP5C	Z	7.222	6.16
18	MP5C	Mx	.005	6.16
19	MP5A	X	0	.68
20	MP5A	Z	9.337	.68
21	MP5A	Mx	-.008	.68
22	MP5A	X	0	6.16
23	MP5A	Z	9.337	6.16
24	MP5A	Mx	-.008	6.16
25	MP5B	X	0	.68
26	MP5B	Z	7.541	.68
27	MP5B	Mx	-.003	.68
28	MP5B	X	0	6.16
29	MP5B	Z	7.541	6.16
30	MP5B	Mx	-.003	6.16
31	MP5C	X	0	.68
32	MP5C	Z	7.222	.68
33	MP5C	Mx	.009	.68
34	MP5C	X	0	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP5C	Z	7.222	6.16
36	MP5C	Mx	.009	6.16
37	MP3A	X	0	.62
38	MP3A	Z	4.446	.62
39	MP3A	Mx	0	.62
40	MP3A	X	0	2.55
41	MP3A	Z	4.446	2.55
42	MP3A	Mx	0	2.55
43	MP3B	X	0	.62
44	MP3B	Z	2.417	.62
45	MP3B	Mx	-.002	.62
46	MP3B	X	0	2.55
47	MP3B	Z	2.417	2.55
48	MP3B	Mx	-.002	2.55
49	MP3C	X	0	.62
50	MP3C	Z	2.057	.62
51	MP3C	Mx	.002	.62
52	MP3C	X	0	2.55
53	MP3C	Z	2.057	2.55
54	MP3C	Mx	.002	2.55
55	MP4A	X	0	3.25
56	MP4A	Z	1.759	3.25
57	MP4A	Mx	0	3.25
58	MP4A	X	0	3.25
59	MP4A	Z	1.759	3.25
60	MP4A	Mx	0	3.25
61	MP4B	X	0	3.25
62	MP4B	Z	1.321	3.25
63	MP4B	Mx	.000763	3.25
64	MP4B	X	0	3.25
65	MP4B	Z	1.321	3.25
66	MP4B	Mx	.000763	3.25
67	MP4C	X	0	3.25
68	MP4C	Z	1.244	3.25
69	MP4C	Mx	-.000779	3.25
70	MP4C	X	0	3.25
71	MP4C	Z	1.244	3.25
72	MP4C	Mx	-.000779	3.25
73	MP3A	X	0	3.25
74	MP3A	Z	1.759	3.25
75	MP3A	Mx	0	3.25
76	MP3A	X	0	3.25
77	MP3A	Z	1.759	3.25
78	MP3A	Mx	0	3.25
79	MP3B	X	0	3.25
80	MP3B	Z	1.242	3.25
81	MP3B	Mx	.000717	3.25
82	MP3B	X	0	3.25
83	MP3B	Z	1.242	3.25
84	MP3B	Mx	.000717	3.25
85	MP3C	X	0	3.25
86	MP3C	Z	1.15	3.25
87	MP3C	Mx	-.00072	3.25
88	MP3C	X	0	3.25
89	MP3C	Z	1.15	3.25
90	MP3C	Mx	-.00072	3.25
91	MP1A	X	0	.17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
92	MP1A	Z	7.757	.17
93	MP1A	Mx	0	.17
94	MP1A	X	0	5.83
95	MP1A	Z	7.757	5.83
96	MP1A	Mx	0	5.83
97	MP1B	X	0	.17
98	MP1B	Z	6.618	.17
99	MP1B	Mx	-.006	.17
100	MP1B	X	0	5.83
101	MP1B	Z	6.618	5.83
102	MP1B	Mx	-.006	5.83
103	MP1C	X	0	.17
104	MP1C	Z	6.618	.17
105	MP1C	Mx	.006	.17
106	MP1C	X	0	5.83
107	MP1C	Z	6.618	5.83
108	MP1C	Mx	.006	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-4.369	.68
2	MP5A	Z	7.568	.68
3	MP5A	Mx	.011	.68
4	MP5A	X	-4.369	6.16
5	MP5A	Z	7.568	6.16
6	MP5A	Mx	.011	6.16
7	MP5B	X	-3.471	.68
8	MP5B	Z	6.012	.68
9	MP5B	Mx	-.007	.68
10	MP5B	X	-3.471	6.16
11	MP5B	Z	6.012	6.16
12	MP5B	Mx	-.007	6.16
13	MP5C	X	-4.174	.68
14	MP5C	Z	7.229	.68
15	MP5C	Mx	3.6e-5	.68
16	MP5C	X	-4.174	6.16
17	MP5C	Z	7.229	6.16
18	MP5C	Mx	3.6e-5	6.16
19	MP5A	X	-4.369	.68
20	MP5A	Z	7.568	.68
21	MP5A	Mx	-.002	.68
22	MP5A	X	-4.369	6.16
23	MP5A	Z	7.568	6.16
24	MP5A	Mx	-.002	6.16
25	MP5B	X	-3.471	.68
26	MP5B	Z	6.012	.68
27	MP5B	Mx	-.007	.68
28	MP5B	X	-3.471	6.16
29	MP5B	Z	6.012	6.16
30	MP5B	Mx	-.007	6.16
31	MP5C	X	-4.174	.68
32	MP5C	Z	7.229	.68
33	MP5C	Mx	.011	.68
34	MP5C	X	-4.174	6.16
35	MP5C	Z	7.229	6.16
36	MP5C	Mx	.011	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
37	MP3A	X	-1.885	.62
38	MP3A	Z	3.265	.62
39	MP3A	Mx	.002	.62
40	MP3A	X	-1.885	2.55
41	MP3A	Z	3.265	2.55
42	MP3A	Mx	.002	2.55
43	MP3B	X	-.87	.62
44	MP3B	Z	1.508	.62
45	MP3B	Mx	-.002	.62
46	MP3B	X	-.87	2.55
47	MP3B	Z	1.508	2.55
48	MP3B	Mx	-.002	2.55
49	MP3C	X	-1.664	.62
50	MP3C	Z	2.882	.62
51	MP3C	Mx	.002	.62
52	MP3C	X	-1.664	2.55
53	MP3C	Z	2.882	2.55
54	MP3C	Mx	.002	2.55
55	MP4A	X	-.806	3.25
56	MP4A	Z	1.397	3.25
57	MP4A	Mx	-.000537	3.25
58	MP4A	X	-.806	3.25
59	MP4A	Z	1.397	3.25
60	MP4A	Mx	-.000537	3.25
61	MP4B	X	-.588	3.25
62	MP4B	Z	1.018	3.25
63	MP4B	Mx	.000784	3.25
64	MP4B	X	-.588	3.25
65	MP4B	Z	1.018	3.25
66	MP4B	Mx	.000784	3.25
67	MP4C	X	-.759	3.25
68	MP4C	Z	1.314	3.25
69	MP4C	Mx	-.00065	3.25
70	MP4C	X	-.759	3.25
71	MP4C	Z	1.314	3.25
72	MP4C	Mx	-.00065	3.25
73	MP3A	X	-.793	3.25
74	MP3A	Z	1.374	3.25
75	MP3A	Mx	-.000529	3.25
76	MP3A	X	-.793	3.25
77	MP3A	Z	1.374	3.25
78	MP3A	Mx	-.000529	3.25
79	MP3B	X	-.535	3.25
80	MP3B	Z	.926	3.25
81	MP3B	Mx	.000713	3.25
82	MP3B	X	-.535	3.25
83	MP3B	Z	.926	3.25
84	MP3B	Mx	.000713	3.25
85	MP3C	X	-.737	3.25
86	MP3C	Z	1.277	3.25
87	MP3C	Mx	-.000632	3.25
88	MP3C	X	-.737	3.25
89	MP3C	Z	1.277	3.25
90	MP3C	Mx	-.000632	3.25
91	MP1A	X	-3.689	.17
92	MP1A	Z	6.389	.17
93	MP1A	Mx	.004	.17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	MP1A	X	-3.689	5.83
95	MP1A	Z	6.389	5.83
96	MP1A	Mx	.004	5.83
97	MP1B	X	-3.119	.17
98	MP1B	Z	5.402	.17
99	MP1B	Mx	-.006	.17
100	MP1B	X	-3.119	5.83
101	MP1B	Z	5.402	5.83
102	MP1B	Mx	-.006	5.83
103	MP1C	X	-3.689	.17
104	MP1C	Z	6.389	.17
105	MP1C	Mx	.004	.17
106	MP1C	X	-3.689	5.83
107	MP1C	Z	6.389	5.83
108	MP1C	Mx	.004	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-6.53	.68
2	MP5A	Z	3.77	.68
3	MP5A	Mx	.01	.68
4	MP5A	X	-6.53	6.16
5	MP5A	Z	3.77	6.16
6	MP5A	Mx	.01	6.16
7	MP5B	X	-6.53	.68
8	MP5B	Z	3.77	.68
9	MP5B	Mx	-.003	.68
10	MP5B	X	-6.53	6.16
11	MP5B	Z	3.77	6.16
12	MP5B	Mx	-.003	6.16
13	MP5C	X	-8.024	.68
14	MP5C	Z	4.632	.68
15	MP5C	Mx	-.006	.68
16	MP5C	X	-8.024	6.16
17	MP5C	Z	4.632	6.16
18	MP5C	Mx	-.006	6.16
19	MP5A	X	-6.53	.68
20	MP5A	Z	3.77	.68
21	MP5A	Mx	.003	.68
22	MP5A	X	-6.53	6.16
23	MP5A	Z	3.77	6.16
24	MP5A	Mx	.003	6.16
25	MP5B	X	-6.53	.68
26	MP5B	Z	3.77	.68
27	MP5B	Mx	-.01	.68
28	MP5B	X	-6.53	6.16
29	MP5B	Z	3.77	6.16
30	MP5B	Mx	-.01	6.16
31	MP5C	X	-8.024	.68
32	MP5C	Z	4.632	.68
33	MP5C	Mx	.009	.68
34	MP5C	X	-8.024	6.16
35	MP5C	Z	4.632	6.16
36	MP5C	Mx	.009	6.16
37	MP3A	X	-2.093	.62
38	MP3A	Z	1.209	.62



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
39	MP3A	Mx	.002	.62
40	MP3A	X	-2.093	2.55
41	MP3A	Z	1.209	2.55
42	MP3A	Mx	.002	2.55
43	MP3B	X	-2.093	.62
44	MP3B	Z	1.209	.62
45	MP3B	Mx	-.002	.62
46	MP3B	X	-2.093	2.55
47	MP3B	Z	1.209	2.55
48	MP3B	Mx	-.002	2.55
49	MP3C	X	-3.78	.62
50	MP3C	Z	2.182	.62
51	MP3C	Mx	.000758	.62
52	MP3C	X	-3.78	2.55
53	MP3C	Z	2.182	2.55
54	MP3C	Mx	.000758	2.55
55	MP4A	X	-1.144	3.25
56	MP4A	Z	.661	3.25
57	MP4A	Mx	-.000763	3.25
58	MP4A	X	-1.144	3.25
59	MP4A	Z	.661	3.25
60	MP4A	Mx	-.000763	3.25
61	MP4B	X	-1.144	3.25
62	MP4B	Z	.661	3.25
63	MP4B	Mx	.000763	3.25
64	MP4B	X	-1.144	3.25
65	MP4B	Z	.661	3.25
66	MP4B	Mx	.000763	3.25
67	MP4C	X	-1.508	3.25
68	MP4C	Z	.871	3.25
69	MP4C	Mx	-.000202	3.25
70	MP4C	X	-1.508	3.25
71	MP4C	Z	.871	3.25
72	MP4C	Mx	-.000202	3.25
73	MP3A	X	-1.076	3.25
74	MP3A	Z	.621	3.25
75	MP3A	Mx	-.000717	3.25
76	MP3A	X	-1.076	3.25
77	MP3A	Z	.621	3.25
78	MP3A	Mx	-.000717	3.25
79	MP3B	X	-1.076	3.25
80	MP3B	Z	.621	3.25
81	MP3B	Mx	.000717	3.25
82	MP3B	X	-1.076	3.25
83	MP3B	Z	.621	3.25
84	MP3B	Mx	.000717	3.25
85	MP3C	X	-1.505	3.25
86	MP3C	Z	.869	3.25
87	MP3C	Mx	-.000201	3.25
88	MP3C	X	-1.505	3.25
89	MP3C	Z	.869	3.25
90	MP3C	Mx	-.000201	3.25
91	MP1A	X	-5.731	.17
92	MP1A	Z	3.309	.17
93	MP1A	Mx	.006	.17
94	MP1A	X	-5.731	5.83
95	MP1A	Z	3.309	5.83



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
96	MP1A	Mx	.006	5.83
97	MP1B	X	-5.731	.17
98	MP1B	Z	3.309	.17
99	MP1B	Mx	-.006	.17
100	MP1B	X	-5.731	5.83
101	MP1B	Z	3.309	5.83
102	MP1B	Mx	-.006	5.83
103	MP1C	X	-6.718	.17
104	MP1C	Z	3.879	.17
105	MP1C	Mx	0	.17
106	MP1C	X	-6.718	5.83
107	MP1C	Z	3.879	5.83
108	MP1C	Mx	0	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-6.942	.68
2	MP5A	Z	0	.68
3	MP5A	Mx	.007	.68
4	MP5A	X	-6.942	6.16
5	MP5A	Z	0	6.16
6	MP5A	Mx	.007	6.16
7	MP5B	X	-8.738	.68
8	MP5B	Z	0	.68
9	MP5B	Mx	.002	.68
10	MP5B	X	-8.738	6.16
11	MP5B	Z	0	6.16
12	MP5B	Mx	.002	6.16
13	MP5C	X	-9.057	.68
14	MP5C	Z	0	.68
15	MP5C	Mx	-.01	.68
16	MP5C	X	-9.057	6.16
17	MP5C	Z	0	6.16
18	MP5C	Mx	-.01	6.16
19	MP5A	X	-6.942	.68
20	MP5A	Z	0	.68
21	MP5A	Mx	.007	.68
22	MP5A	X	-6.942	6.16
23	MP5A	Z	0	6.16
24	MP5A	Mx	.007	6.16
25	MP5B	X	-8.738	.68
26	MP5B	Z	0	.68
27	MP5B	Mx	-.011	.68
28	MP5B	X	-8.738	6.16
29	MP5B	Z	0	6.16
30	MP5B	Mx	-.011	6.16
31	MP5C	X	-9.057	.68
32	MP5C	Z	0	.68
33	MP5C	Mx	.004	.68
34	MP5C	X	-9.057	6.16
35	MP5C	Z	0	6.16
36	MP5C	Mx	.004	6.16
37	MP3A	X	-1.741	.62
38	MP3A	Z	0	.62
39	MP3A	Mx	.002	.62
40	MP3A	X	-1.741	2.55



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
41	MP3A	Z	0	2.55
42	MP3A	Mx	.002	2.55
43	MP3B	X	-3.77	.62
44	MP3B	Z	0	.62
45	MP3B	Mx	-.002	.62
46	MP3B	X	-3.77	2.55
47	MP3B	Z	0	2.55
48	MP3B	Mx	-.002	2.55
49	MP3C	X	-4.13	.62
50	MP3C	Z	0	.62
51	MP3C	Mx	-.001	.62
52	MP3C	X	-4.13	2.55
53	MP3C	Z	0	2.55
54	MP3C	Mx	-.001	2.55
55	MP4A	X	-1.176	3.25
56	MP4A	Z	0	3.25
57	MP4A	Mx	-.000784	3.25
58	MP4A	X	-1.176	3.25
59	MP4A	Z	0	3.25
60	MP4A	Mx	-.000784	3.25
61	MP4B	X	-1.613	3.25
62	MP4B	Z	0	3.25
63	MP4B	Mx	.000538	3.25
64	MP4B	X	-1.613	3.25
65	MP4B	Z	0	3.25
66	MP4B	Mx	.000538	3.25
67	MP4C	X	-1.69	3.25
68	MP4C	Z	0	3.25
69	MP4C	Mx	.000385	3.25
70	MP4C	X	-1.69	3.25
71	MP4C	Z	0	3.25
72	MP4C	Mx	.000385	3.25
73	MP3A	X	-1.07	3.25
74	MP3A	Z	0	3.25
75	MP3A	Mx	-.000713	3.25
76	MP3A	X	-1.07	3.25
77	MP3A	Z	0	3.25
78	MP3A	Mx	-.000713	3.25
79	MP3B	X	-1.586	3.25
80	MP3B	Z	0	3.25
81	MP3B	Mx	.000529	3.25
82	MP3B	X	-1.586	3.25
83	MP3B	Z	0	3.25
84	MP3B	Mx	.000529	3.25
85	MP3C	X	-1.678	3.25
86	MP3C	Z	0	3.25
87	MP3C	Mx	.000383	3.25
88	MP3C	X	-1.678	3.25
89	MP3C	Z	0	3.25
90	MP3C	Mx	.000383	3.25
91	MP1A	X	-6.238	.17
92	MP1A	Z	0	.17
93	MP1A	Mx	.006	.17
94	MP1A	X	-6.238	5.83
95	MP1A	Z	0	5.83
96	MP1A	Mx	.006	5.83
97	MP1B	X	-7.377	.17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
98	MP1B	Z	0	.17
99	MP1B	Mx	-.004	.17
100	MP1B	X	-7.377	5.83
101	MP1B	Z	0	5.83
102	MP1B	Mx	-.004	5.83
103	MP1C	X	-7.377	.17
104	MP1C	Z	0	.17
105	MP1C	Mx	-.004	.17
106	MP1C	X	-7.377	5.83
107	MP1C	Z	0	5.83
108	MP1C	Mx	-.004	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	-6.53	.68
2	MP5A	Z	-3.77	.68
3	MP5A	Mx	.003	.68
4	MP5A	X	-6.53	6.16
5	MP5A	Z	-3.77	6.16
6	MP5A	Mx	.003	6.16
7	MP5B	X	-8.086	.68
8	MP5B	Z	-4.669	.68
9	MP5B	Mx	.008	.68
10	MP5B	X	-8.086	6.16
11	MP5B	Z	-4.669	6.16
12	MP5B	Mx	.008	6.16
13	MP5C	X	-6.869	.68
14	MP5C	Z	-3.966	.68
15	MP5C	Mx	-.01	.68
16	MP5C	X	-6.869	6.16
17	MP5C	Z	-3.966	6.16
18	MP5C	Mx	-.01	6.16
19	MP5A	X	-6.53	.68
20	MP5A	Z	-3.77	.68
21	MP5A	Mx	.01	.68
22	MP5A	X	-6.53	6.16
23	MP5A	Z	-3.77	6.16
24	MP5A	Mx	.01	6.16
25	MP5B	X	-8.086	.68
26	MP5B	Z	-4.669	.68
27	MP5B	Mx	-.008	.68
28	MP5B	X	-8.086	6.16
29	MP5B	Z	-4.669	6.16
30	MP5B	Mx	-.008	6.16
31	MP5C	X	-6.869	.68
32	MP5C	Z	-3.966	.68
33	MP5C	Mx	-.002	.68
34	MP5C	X	-6.869	6.16
35	MP5C	Z	-3.966	6.16
36	MP5C	Mx	-.002	6.16
37	MP3A	X	-2.093	.62
38	MP3A	Z	-1.209	.62
39	MP3A	Mx	.002	.62
40	MP3A	X	-2.093	2.55
41	MP3A	Z	-1.209	2.55
42	MP3A	Mx	.002	2.55



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
43	MP3B	X	-3.851 .62
44	MP3B	Z	-2.223 .62
45	MP3B	Mx	0 .62
46	MP3B	X	-3.851 2.55
47	MP3B	Z	-2.223 2.55
48	MP3B	Mx	0 2.55
49	MP3C	X	-2.476 .62
50	MP3C	Z	-1.429 .62
51	MP3C	Mx	-.002 .62
52	MP3C	X	-2.476 2.55
53	MP3C	Z	-1.429 2.55
54	MP3C	Mx	-.002 2.55
55	MP4A	X	-1.144 3.25
56	MP4A	Z	-.661 3.25
57	MP4A	Mx	-.000763 3.25
58	MP4A	X	-1.144 3.25
59	MP4A	Z	-.661 3.25
60	MP4A	Mx	-.000763 3.25
61	MP4B	X	-1.523 3.25
62	MP4B	Z	-.879 3.25
63	MP4B	Mx	0 3.25
64	MP4B	X	-1.523 3.25
65	MP4B	Z	-.879 3.25
66	MP4B	Mx	0 3.25
67	MP4C	X	-1.227 3.25
68	MP4C	Z	-.708 3.25
69	MP4C	Mx	.000723 3.25
70	MP4C	X	-1.227 3.25
71	MP4C	Z	-.708 3.25
72	MP4C	Mx	.000723 3.25
73	MP3A	X	-1.076 3.25
74	MP3A	Z	-.621 3.25
75	MP3A	Mx	-.000717 3.25
76	MP3A	X	-1.076 3.25
77	MP3A	Z	-.621 3.25
78	MP3A	Mx	-.000717 3.25
79	MP3B	X	-1.523 3.25
80	MP3B	Z	-.879 3.25
81	MP3B	Mx	0 3.25
82	MP3B	X	-1.523 3.25
83	MP3B	Z	-.879 3.25
84	MP3B	Mx	0 3.25
85	MP3C	X	-1.173 3.25
86	MP3C	Z	-.677 3.25
87	MP3C	Mx	.000692 3.25
88	MP3C	X	-1.173 3.25
89	MP3C	Z	-.677 3.25
90	MP3C	Mx	.000692 3.25
91	MP1A	X	-5.731 .17
92	MP1A	Z	-3.309 .17
93	MP1A	Mx	.006 .17
94	MP1A	X	-5.731 5.83
95	MP1A	Z	-3.309 5.83
96	MP1A	Mx	.006 5.83
97	MP1B	X	-6.718 .17
98	MP1B	Z	-3.879 .17
99	MP1B	Mx	0 .17



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
100	MP1B	X	-6.718	5.83
101	MP1B	Z	-3.879	5.83
102	MP1B	Mx	0	5.83
103	MP1C	X	-5.731	.17
104	MP1C	Z	-3.309	.17
105	MP1C	Mx	-.006	.17
106	MP1C	X	-5.731	5.83
107	MP1C	Z	-3.309	5.83
108	MP1C	Mx	-.006	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-4.369	.68
2	MP5A	Z	-7.568	.68
3	MP5A	Mx	-.002	.68
4	MP5A	X	-4.369	6.16
5	MP5A	Z	-7.568	6.16
6	MP5A	Mx	-.002	6.16
7	MP5B	X	-4.369	.68
8	MP5B	Z	-7.568	.68
9	MP5B	Mx	.011	.68
10	MP5B	X	-4.369	6.16
11	MP5B	Z	-7.568	6.16
12	MP5B	Mx	.011	6.16
13	MP5C	X	-3.507	.68
14	MP5C	Z	-6.074	.68
15	MP5C	Mx	-.008	.68
16	MP5C	X	-3.507	6.16
17	MP5C	Z	-6.074	6.16
18	MP5C	Mx	-.008	6.16
19	MP5A	X	-4.369	.68
20	MP5A	Z	-7.568	.68
21	MP5A	Mx	.011	.68
22	MP5A	X	-4.369	6.16
23	MP5A	Z	-7.568	6.16
24	MP5A	Mx	.011	6.16
25	MP5B	X	-4.369	.68
26	MP5B	Z	-7.568	.68
27	MP5B	Mx	-.002	.68
28	MP5B	X	-4.369	6.16
29	MP5B	Z	-7.568	6.16
30	MP5B	Mx	-.002	6.16
31	MP5C	X	-3.507	.68
32	MP5C	Z	-6.074	.68
33	MP5C	Mx	-.006	.68
34	MP5C	X	-3.507	6.16
35	MP5C	Z	-6.074	6.16
36	MP5C	Mx	-.006	6.16
37	MP3A	X	-1.885	.62
38	MP3A	Z	-3.265	.62
39	MP3A	Mx	.002	.62
40	MP3A	X	-1.885	2.55
41	MP3A	Z	-3.265	2.55
42	MP3A	Mx	.002	2.55
43	MP3B	X	-1.885	.62
44	MP3B	Z	-3.265	.62



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]	
45	MP3B	Mx	.002	.62
46	MP3B	X	-1.885	2.55
47	MP3B	Z	-3.265	2.55
48	MP3B	Mx	.002	2.55
49	MP3C	X	-.911	.62
50	MP3C	Z	-1.578	.62
51	MP3C	Mx	-.002	.62
52	MP3C	X	-.911	2.55
53	MP3C	Z	-1.578	2.55
54	MP3C	Mx	-.002	2.55
55	MP4A	X	-.806	3.25
56	MP4A	Z	-1.397	3.25
57	MP4A	Mx	-.000537	3.25
58	MP4A	X	-.806	3.25
59	MP4A	Z	-1.397	3.25
60	MP4A	Mx	-.000537	3.25
61	MP4B	X	-.806	3.25
62	MP4B	Z	-1.397	3.25
63	MP4B	Mx	-.000538	3.25
64	MP4B	X	-.806	3.25
65	MP4B	Z	-1.397	3.25
66	MP4B	Mx	-.000538	3.25
67	MP4C	X	-.597	3.25
68	MP4C	Z	-1.033	3.25
69	MP4C	Mx	.000783	3.25
70	MP4C	X	-.597	3.25
71	MP4C	Z	-1.033	3.25
72	MP4C	Mx	.000783	3.25
73	MP3A	X	-.793	3.25
74	MP3A	Z	-1.374	3.25
75	MP3A	Mx	-.000529	3.25
76	MP3A	X	-.793	3.25
77	MP3A	Z	-1.374	3.25
78	MP3A	Mx	-.000529	3.25
79	MP3B	X	-.793	3.25
80	MP3B	Z	-1.374	3.25
81	MP3B	Mx	-.000529	3.25
82	MP3B	X	-.793	3.25
83	MP3B	Z	-1.374	3.25
84	MP3B	Mx	-.000529	3.25
85	MP3C	X	-.545	3.25
86	MP3C	Z	-.944	3.25
87	MP3C	Mx	.000716	3.25
88	MP3C	X	-.545	3.25
89	MP3C	Z	-.944	3.25
90	MP3C	Mx	.000716	3.25
91	MP1A	X	-3.689	.17
92	MP1A	Z	-6.389	.17
93	MP1A	Mx	.004	.17
94	MP1A	X	-3.689	5.83
95	MP1A	Z	-6.389	5.83
96	MP1A	Mx	.004	5.83
97	MP1B	X	-3.689	.17
98	MP1B	Z	-6.389	.17
99	MP1B	Mx	.004	.17
100	MP1B	X	-3.689	5.83
101	MP1B	Z	-6.389	5.83



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
102	MP1B	Mx	.004	5.83
103	MP1C	X	-3.119	.17
104	MP1C	Z	-5.402	.17
105	MP1C	Mx	-.006	.17
106	MP1C	X	-3.119	5.83
107	MP1C	Z	-5.402	5.83
108	MP1C	Mx	-.006	5.83

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	A8	Y	-500	%3

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	A8	Y	-500	%97

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	A8	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	A8	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Y	-1.192	.68
2	MP5A	My	-.001	.68
3	MP5A	Mz	.000994	.68
4	MP5A	Y	-1.192	6.16
5	MP5A	My	-.001	6.16
6	MP5A	Mz	.000994	6.16
7	MP5B	Y	-1.192	.68
8	MP5B	My	-.000264	.68
9	MP5B	Mz	-.002	.68
10	MP5B	Y	-1.192	6.16
11	MP5B	My	-.000264	6.16
12	MP5B	Mz	-.002	6.16
13	MP5C	Y	-1.192	.68
14	MP5C	My	.001	.68
15	MP5C	Mz	.000781	.68
16	MP5C	Y	-1.192	6.16
17	MP5C	My	.001	6.16
18	MP5C	Mz	.000781	6.16
19	MP5A	Y	-1.192	.68
20	MP5A	My	-.001	.68
21	MP5A	Mz	-.000994	.68
22	MP5A	Y	-1.192	6.16
23	MP5A	My	-.001	6.16
24	MP5A	Mz	-.000994	6.16
25	MP5B	Y	-1.192	.68
26	MP5B	My	.001	.68
27	MP5B	Mz	-.000536	.68
28	MP5B	Y	-1.192	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP5B	My	.001	6.16
30	MP5B	Mz	-.000536	6.16
31	MP5C	Y	-1.192	.68
32	MP5C	My	-.000526	.68
33	MP5C	Mz	.001	.68
34	MP5C	Y	-1.192	6.16
35	MP5C	My	-.000526	6.16
36	MP5C	Mz	.001	6.16
37	MP3A	Y	-2.258	.62
38	MP3A	My	-.002	.62
39	MP3A	Mz	0	.62
40	MP3A	Y	-2.258	2.55
41	MP3A	My	-.002	2.55
42	MP3A	Mz	0	2.55
43	MP3B	Y	-2.258	.62
44	MP3B	My	.001	.62
45	MP3B	Mz	-.002	.62
46	MP3B	Y	-2.258	2.55
47	MP3B	My	.001	2.55
48	MP3B	Mz	-.002	2.55
49	MP3C	Y	-2.258	.62
50	MP3C	My	.000772	.62
51	MP3C	Mz	.002	.62
52	MP3C	Y	-2.258	2.55
53	MP3C	My	.000772	2.55
54	MP3C	Mz	.002	2.55
55	MP4A	Y	-1.936	3.25
56	MP4A	My	.001	3.25
57	MP4A	Mz	0	3.25
58	MP4A	Y	-1.936	3.25
59	MP4A	My	.001	3.25
60	MP4A	Mz	0	3.25
61	MP4B	Y	-1.936	3.25
62	MP4B	My	-.000645	3.25
63	MP4B	Mz	.001	3.25
64	MP4B	Y	-1.936	3.25
65	MP4B	My	-.000645	3.25
66	MP4B	Mz	.001	3.25
67	MP4C	Y	-1.936	3.25
68	MP4C	My	-.000441	3.25
69	MP4C	Mz	-.001	3.25
70	MP4C	Y	-1.936	3.25
71	MP4C	My	-.000441	3.25
72	MP4C	Mz	-.001	3.25
73	MP3A	Y	-1.822	3.25
74	MP3A	My	.001	3.25
75	MP3A	Mz	0	3.25
76	MP3A	Y	-1.822	3.25
77	MP3A	My	.001	3.25
78	MP3A	Mz	0	3.25
79	MP3B	Y	-1.822	3.25
80	MP3B	My	-.000607	3.25
81	MP3B	Mz	.001	3.25
82	MP3B	Y	-1.822	3.25
83	MP3B	My	-.000607	3.25
84	MP3B	Mz	.001	3.25
85	MP3C	Y	-1.822	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP3C	My	-0.00415	3.25
87	MP3C	Mz	-0.001	3.25
88	MP3C	Y	-1.822	3.25
89	MP3C	My	-0.00415	3.25
90	MP3C	Mz	-0.001	3.25
91	MP1A	Y	-0.596	.17
92	MP1A	My	-0.000596	.17
93	MP1A	Mz	0	.17
94	MP1A	Y	-0.596	5.83
95	MP1A	My	-0.000596	5.83
96	MP1A	Mz	0	5.83
97	MP1B	Y	-0.596	.17
98	MP1B	My	.000298	.17
99	MP1B	Mz	-0.000516	.17
100	MP1B	Y	-0.596	5.83
101	MP1B	My	.000298	5.83
102	MP1B	Mz	-0.000516	5.83
103	MP1C	Y	-0.596	.17
104	MP1C	My	.000298	.17
105	MP1C	Mz	.000516	.17
106	MP1C	Y	-0.596	5.83
107	MP1C	My	.000298	5.83
108	MP1C	Mz	.000516	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Z	-2.981	.68
2	MP5A	Mx	-0.002	.68
3	MP5A	Z	-2.981	6.16
4	MP5A	Mx	-0.002	6.16
5	MP5B	Z	-2.981	.68
6	MP5B	Mx	.004	.68
7	MP5B	Z	-2.981	6.16
8	MP5B	Mx	.004	6.16
9	MP5C	Z	-2.981	.68
10	MP5C	Mx	-0.002	.68
11	MP5C	Z	-2.981	6.16
12	MP5C	Mx	-0.002	6.16
13	MP5A	Z	-2.981	.68
14	MP5A	Mx	.002	.68
15	MP5A	Z	-2.981	6.16
16	MP5A	Mx	.002	6.16
17	MP5B	Z	-2.981	.68
18	MP5B	Mx	.001	.68
19	MP5B	Z	-2.981	6.16
20	MP5B	Mx	.001	6.16
21	MP5C	Z	-2.981	.68
22	MP5C	Mx	-0.004	.68
23	MP5C	Z	-2.981	6.16
24	MP5C	Mx	-0.004	6.16
25	MP3A	Z	-5.644	.62
26	MP3A	Mx	0	.62
27	MP3A	Z	-5.644	2.55
28	MP3A	Mx	0	2.55
29	MP3B	Z	-5.644	.62
30	MP3B	Mx	.005	.62



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
31	MP3B	Z	-5.644	2.55
32	MP3B	Mx	.005	2.55
33	MP3C	Z	-5.644	.62
34	MP3C	Mx	-.005	.62
35	MP3C	Z	-5.644	2.55
36	MP3C	Mx	-.005	2.55
37	MP4A	Z	-4.841	3.25
38	MP4A	Mx	0	3.25
39	MP4A	Z	-4.841	3.25
40	MP4A	Mx	0	3.25
41	MP4B	Z	-4.841	3.25
42	MP4B	Mx	-.003	3.25
43	MP4B	Z	-4.841	3.25
44	MP4B	Mx	-.003	3.25
45	MP4C	Z	-4.841	3.25
46	MP4C	Mx	.003	3.25
47	MP4C	Z	-4.841	3.25
48	MP4C	Mx	.003	3.25
49	MP3A	Z	-4.555	3.25
50	MP3A	Mx	0	3.25
51	MP3A	Z	-4.555	3.25
52	MP3A	Mx	0	3.25
53	MP3B	Z	-4.555	3.25
54	MP3B	Mx	-.003	3.25
55	MP3B	Z	-4.555	3.25
56	MP3B	Mx	-.003	3.25
57	MP3C	Z	-4.555	3.25
58	MP3C	Mx	.003	3.25
59	MP3C	Z	-4.555	3.25
60	MP3C	Mx	.003	3.25
61	MP1A	Z	-1.49	.17
62	MP1A	Mx	0	.17
63	MP1A	Z	-1.49	5.83
64	MP1A	Mx	0	5.83
65	MP1B	Z	-1.49	.17
66	MP1B	Mx	.001	.17
67	MP1B	Z	-1.49	5.83
68	MP1B	Mx	.001	5.83
69	MP1C	Z	-1.49	.17
70	MP1C	Mx	-.001	.17
71	MP1C	Z	-1.49	5.83
72	MP1C	Mx	-.001	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	2.981	.68
2	MP5A	Mx	-.003	.68
3	MP5A	X	2.981	6.16
4	MP5A	Mx	-.003	6.16
5	MP5B	X	2.981	.68
6	MP5B	Mx	-.000661	.68
7	MP5B	X	2.981	6.16
8	MP5B	Mx	-.000661	6.16
9	MP5C	X	2.981	.68
10	MP5C	Mx	.003	.68
11	MP5C	X	2.981	6.16



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
12	MP5C	Mx	.003	6.16
13	MP5A	X	2.981	.68
14	MP5A	Mx	-.003	.68
15	MP5A	X	2.981	6.16
16	MP5A	Mx	-.003	6.16
17	MP5B	X	2.981	.68
18	MP5B	Mx	.004	.68
19	MP5B	X	2.981	6.16
20	MP5B	Mx	.004	6.16
21	MP5C	X	2.981	.68
22	MP5C	Mx	-.001	.68
23	MP5C	X	2.981	6.16
24	MP5C	Mx	-.001	6.16
25	MP3A	X	5.644	.62
26	MP3A	Mx	-.006	.62
27	MP3A	X	5.644	2.55
28	MP3A	Mx	-.006	2.55
29	MP3B	X	5.644	.62
30	MP3B	Mx	.003	.62
31	MP3B	X	5.644	2.55
32	MP3B	Mx	.003	2.55
33	MP3C	X	5.644	.62
34	MP3C	Mx	.002	.62
35	MP3C	X	5.644	2.55
36	MP3C	Mx	.002	2.55
37	MP4A	X	4.841	3.25
38	MP4A	Mx	.003	3.25
39	MP4A	X	4.841	3.25
40	MP4A	Mx	.003	3.25
41	MP4B	X	4.841	3.25
42	MP4B	Mx	-.002	3.25
43	MP4B	X	4.841	3.25
44	MP4B	Mx	-.002	3.25
45	MP4C	X	4.841	3.25
46	MP4C	Mx	-.001	3.25
47	MP4C	X	4.841	3.25
48	MP4C	Mx	-.001	3.25
49	MP3A	X	4.555	3.25
50	MP3A	Mx	.003	3.25
51	MP3A	X	4.555	3.25
52	MP3A	Mx	.003	3.25
53	MP3B	X	4.555	3.25
54	MP3B	Mx	-.002	3.25
55	MP3B	X	4.555	3.25
56	MP3B	Mx	-.002	3.25
57	MP3C	X	4.555	3.25
58	MP3C	Mx	-.001	3.25
59	MP3C	X	4.555	3.25
60	MP3C	Mx	-.001	3.25
61	MP1A	X	1.49	.17
62	MP1A	Mx	-.001	.17
63	MP1A	X	1.49	5.83
64	MP1A	Mx	-.001	5.83
65	MP1B	X	1.49	.17
66	MP1B	Mx	.000745	.17
67	MP1B	X	1.49	5.83
68	MP1B	Mx	.000745	5.83



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1C	X	1.49	.17
70	MP1C	Mx	.000745	.17
71	MP1C	X	1.49	5.83
72	MP1C	Mx	.000745	5.83

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	Y	-7.28	-7.28	0	%100
2	A2	Y	-7.28	-7.28	0	%100
3	A5	Y	-4.741	-4.741	0	%100
4	A6	Y	-6.271	-6.271	0	%100
5	A7	Y	-4.741	-4.741	0	%100
6	A8	Y	-4.741	-4.741	0	%100
7	B26	Y	-7.28	-7.28	0	%100
8	B27	Y	-7.28	-7.28	0	%100
9	B30	Y	-4.741	-4.741	0	%100
10	B31	Y	-6.271	-6.271	0	%100
11	B32	Y	-4.741	-4.741	0	%100
12	B33	Y	-4.741	-4.741	0	%100
13	B80	Y	-4.741	-4.741	0	%100
14	B81	Y	-4.741	-4.741	0	%100
15	C51	Y	-7.28	-7.28	0	%100
16	C52	Y	-7.28	-7.28	0	%100
17	C55	Y	-4.741	-4.741	0	%100
18	C56	Y	-6.271	-6.271	0	%100
19	C57	Y	-4.741	-4.741	0	%100
20	C58	Y	-4.741	-4.741	0	%100
21	C78	Y	-4.741	-4.741	0	%100
22	C79	Y	-4.741	-4.741	0	%100
23	M76	Y	-4.741	-4.741	0	%100
24	M77	Y	-4.741	-4.741	0	%100
25	MP1A	Y	-4.741	-4.741	0	%100
26	MP1B	Y	-4.741	-4.741	0	%100
27	MP1C	Y	-4.741	-4.741	0	%100
28	MP2A	Y	-4.741	-4.741	0	%100
29	MP2B	Y	-4.741	-4.741	0	%100
30	MP2C	Y	-4.741	-4.741	0	%100
31	MP3A	Y	-4.741	-4.741	0	%100
32	MP3B	Y	-4.741	-4.741	0	%100
33	MP3C	Y	-4.741	-4.741	0	%100
34	MP4A	Y	-4.741	-4.741	0	%100
35	MP4B	Y	-4.741	-4.741	0	%100
36	MP4C	Y	-4.741	-4.741	0	%100
37	MP5A	Y	-5.421	-5.421	0	%100
38	MP5B	Y	-5.421	-5.421	0	%100
39	MP5C	Y	-5.421	-5.421	0	%100
40	M82	Y	-4.741	-4.741	0	%100
41	M83	Y	-4.741	-4.741	0	%100
42	M84	Y	-4.741	-4.741	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
4	A2	Z	0	0	0	%100
5	A5	X	0	0	0	%100
6	A5	Z	-5.462	-5.462	0	%100
7	A6	X	0	0	0	%100
8	A6	Z	-8.202	-8.202	0	%100
9	A7	X	0	0	0	%100
10	A7	Z	-6.679	-6.679	0	%100
11	A8	X	0	0	0	%100
12	A8	Z	-6.679	-6.679	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	-4.746	-4.746	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	-4.746	-4.746	0	%100
17	B30	X	0	0	0	%100
18	B30	Z	-5.462	-5.462	0	%100
19	B31	X	0	0	0	%100
20	B31	Z	-8.202	-8.202	0	%100
21	B32	X	0	0	0	%100
22	B32	Z	-1.67	-1.67	0	%100
23	B33	X	0	0	0	%100
24	B33	Z	-1.67	-1.67	0	%100
25	B80	X	0	0	0	%100
26	B80	Z	-.041	-.041	0	%100
27	B81	X	0	0	0	%100
28	B81	Z	-5.478	-5.478	0	%100
29	C51	X	0	0	0	%100
30	C51	Z	-5.587	-5.587	0	%100
31	C52	X	0	0	0	%100
32	C52	Z	-5.587	-5.587	0	%100
33	C55	X	0	0	0	%100
34	C55	Z	-5.462	-5.462	0	%100
35	C56	X	0	0	0	%100
36	C56	Z	-8.202	-8.202	0	%100
37	C57	X	0	0	0	%100
38	C57	Z	-.781	-.781	0	%100
39	C58	X	0	0	0	%100
40	C58	Z	-.781	-.781	0	%100
41	C78	X	0	0	0	%100
42	C78	Z	-3.746	-3.746	0	%100
43	C79	X	0	0	0	%100
44	C79	Z	-6.372	-6.372	0	%100
45	M76	X	0	0	0	%100
46	M76	Z	-5.07	-5.07	0	%100
47	M77	X	0	0	0	%100
48	M77	Z	-.175	-.175	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	-6.679	-6.679	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	-6.679	-6.679	0	%100
53	MP1C	X	0	0	0	%100
54	MP1C	Z	-6.679	-6.679	0	%100
55	MP2A	X	0	0	0	%100
56	MP2A	Z	-6.679	-6.679	0	%100
57	MP2B	X	0	0	0	%100
58	MP2B	Z	-6.679	-6.679	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-6.679	-6.679	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]	
61	MP3A	X	0	0	%100	
62	MP3A	Z	-6.679	-6.679	0	%100
63	MP3B	X	0	0	0	%100
64	MP3B	Z	-6.679	-6.679	0	%100
65	MP3C	X	0	0	0	%100
66	MP3C	Z	-6.679	-6.679	0	%100
67	MP4A	X	0	0	0	%100
68	MP4A	Z	-6.679	-6.679	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	-6.679	-6.679	0	%100
71	MP4C	X	0	0	0	%100
72	MP4C	Z	-6.679	-6.679	0	%100
73	MP5A	X	0	0	0	%100
74	MP5A	Z	-8.085	-8.085	0	%100
75	MP5B	X	0	0	0	%100
76	MP5B	Z	-8.085	-8.085	0	%100
77	MP5C	X	0	0	0	%100
78	MP5C	Z	-8.085	-8.085	0	%100
79	M82	X	0	0	0	%100
80	M82	Z	-.025	-.025	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	-5.669	-5.669	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	-4.795	-4.795	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]	
1	A1	X	.791	.791	0	%100
2	A1	Z	-1.37	-1.37	0	%100
3	A2	X	.791	.791	0	%100
4	A2	Z	-1.37	-1.37	0	%100
5	A5	X	2.731	2.731	0	%100
6	A5	Z	-4.73	-4.73	0	%100
7	A6	X	4.101	4.101	0	%100
8	A6	Z	-7.103	-7.103	0	%100
9	A7	X	2.505	2.505	0	%100
10	A7	Z	-4.338	-4.338	0	%100
11	A8	X	2.505	2.505	0	%100
12	A8	Z	-4.338	-4.338	0	%100
13	B26	X	3.164	3.164	0	%100
14	B26	Z	-5.48	-5.48	0	%100
15	B27	X	3.164	3.164	0	%100
16	B27	Z	-5.48	-5.48	0	%100
17	B30	X	2.731	2.731	0	%100
18	B30	Z	-4.73	-4.73	0	%100
19	B31	X	4.101	4.101	0	%100
20	B31	Z	-7.103	-7.103	0	%100
21	B32	X	0	0	0	%100
22	B32	Z	0	0	0	%100
23	B33	X	0	0	0	%100
24	B33	Z	0	0	0	%100
25	B80	X	.767	.767	0	%100
26	B80	Z	-1.329	-1.329	0	%100
27	B81	X	3.318	3.318	0	%100
28	B81	Z	-5.747	-5.747	0	%100
29	C51	X	1.307	1.307	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
30	C51	Z	-2.264	-2.264	0 %100
31	C52	X	1.307	1.307	0 %100
32	C52	Z	-2.264	-2.264	0 %100
33	C55	X	2.731	2.731	0 %100
34	C55	Z	-4.73	-4.73	0 %100
35	C56	X	4.101	4.101	0 %100
36	C56	Z	-7.103	-7.103	0 %100
37	C57	X	1.96	1.96	0 %100
38	C57	Z	-3.394	-3.394	0 %100
39	C58	X	1.96	1.96	0 %100
40	C58	Z	-3.394	-3.394	0 %100
41	C78	X	3.204	3.204	0 %100
42	C78	Z	-5.55	-5.55	0 %100
43	C79	X	1.823	1.823	0 %100
44	C79	Z	-3.158	-3.158	0 %100
45	M76	X	.922	.922	0 %100
46	M76	Z	-1.597	-1.597	0 %100
47	M77	X	1.124	1.124	0 %100
48	M77	Z	-1.946	-1.946	0 %100
49	MP1A	X	3.339	3.339	0 %100
50	MP1A	Z	-5.784	-5.784	0 %100
51	MP1B	X	3.339	3.339	0 %100
52	MP1B	Z	-5.784	-5.784	0 %100
53	MP1C	X	3.339	3.339	0 %100
54	MP1C	Z	-5.784	-5.784	0 %100
55	MP2A	X	3.339	3.339	0 %100
56	MP2A	Z	-5.784	-5.784	0 %100
57	MP2B	X	3.339	3.339	0 %100
58	MP2B	Z	-5.784	-5.784	0 %100
59	MP2C	X	3.339	3.339	0 %100
60	MP2C	Z	-5.784	-5.784	0 %100
61	MP3A	X	3.339	3.339	0 %100
62	MP3A	Z	-5.784	-5.784	0 %100
63	MP3B	X	3.339	3.339	0 %100
64	MP3B	Z	-5.784	-5.784	0 %100
65	MP3C	X	3.339	3.339	0 %100
66	MP3C	Z	-5.784	-5.784	0 %100
67	MP4A	X	3.339	3.339	0 %100
68	MP4A	Z	-5.784	-5.784	0 %100
69	MP4B	X	3.339	3.339	0 %100
70	MP4B	Z	-5.784	-5.784	0 %100
71	MP4C	X	3.339	3.339	0 %100
72	MP4C	Z	-5.784	-5.784	0 %100
73	MP5A	X	4.043	4.043	0 %100
74	MP5A	Z	-7.002	-7.002	0 %100
75	MP5B	X	4.043	4.043	0 %100
76	MP5B	Z	-7.002	-7.002	0 %100
77	MP5C	X	4.043	4.043	0 %100
78	MP5C	Z	-7.002	-7.002	0 %100
79	M82	X	1.017	1.017	0 %100
80	M82	Z	-1.761	-1.761	0 %100
81	M83	X	3.288	3.288	0 %100
82	M83	Z	-5.695	-5.695	0 %100
83	M84	X	.831	.831	0 %100
84	M84	Z	-1.439	-1.439	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	4.11	4.11	0	%100
2	A1	Z	-2.373	-2.373	0	%100
3	A2	X	4.11	4.11	0	%100
4	A2	Z	-2.373	-2.373	0	%100
5	A5	X	4.73	4.73	0	%100
6	A5	Z	-2.731	-2.731	0	%100
7	A6	X	7.103	7.103	0	%100
8	A6	Z	-4.101	-4.101	0	%100
9	A7	X	1.446	1.446	0	%100
10	A7	Z	-.835	-.835	0	%100
11	A8	X	1.446	1.446	0	%100
12	A8	Z	-.835	-.835	0	%100
13	B26	X	4.11	4.11	0	%100
14	B26	Z	-2.373	-2.373	0	%100
15	B27	X	4.11	4.11	0	%100
16	B27	Z	-2.373	-2.373	0	%100
17	B30	X	4.73	4.73	0	%100
18	B30	Z	-2.731	-2.731	0	%100
19	B31	X	7.103	7.103	0	%100
20	B31	Z	-4.101	-4.101	0	%100
21	B32	X	1.446	1.446	0	%100
22	B32	Z	-.835	-.835	0	%100
23	B33	X	1.446	1.446	0	%100
24	B33	Z	-.835	-.835	0	%100
25	B80	X	4.201	4.201	0	%100
26	B80	Z	-2.425	-2.425	0	%100
27	B81	X	3.953	3.953	0	%100
28	B81	Z	-2.282	-2.282	0	%100
29	C51	X	.165	.165	0	%100
30	C51	Z	-.095	-.095	0	%100
31	C52	X	.165	.165	0	%100
32	C52	Z	-.095	-.095	0	%100
33	C55	X	4.73	4.73	0	%100
34	C55	Z	-2.731	-2.731	0	%100
35	C56	X	7.103	7.103	0	%100
36	C56	Z	-4.101	-4.101	0	%100
37	C57	X	5.61	5.61	0	%100
38	C57	Z	-3.239	-3.239	0	%100
39	C58	X	5.61	5.61	0	%100
40	C58	Z	-3.239	-3.239	0	%100
41	C78	X	5.213	5.213	0	%100
42	C78	Z	-3.01	-3.01	0	%100
43	C79	X	.531	.531	0	%100
44	C79	Z	-.307	-.307	0	%100
45	M76	X	.197	.197	0	%100
46	M76	Z	-.114	-.114	0	%100
47	M77	X	4.744	4.744	0	%100
48	M77	Z	-2.739	-2.739	0	%100
49	MP1A	X	5.784	5.784	0	%100
50	MP1A	Z	-3.339	-3.339	0	%100
51	MP1B	X	5.784	5.784	0	%100
52	MP1B	Z	-3.339	-3.339	0	%100
53	MP1C	X	5.784	5.784	0	%100
54	MP1C	Z	-3.339	-3.339	0	%100
55	MP2A	X	5.784	5.784	0	%100
56	MP2A	Z	-3.339	-3.339	0	%100
57	MP2B	X	5.784	5.784	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
58	MP2B	Z	-3.339	-3.339	0	%100
59	MP2C	X	5.784	5.784	0	%100
60	MP2C	Z	-3.339	-3.339	0	%100
61	MP3A	X	5.784	5.784	0	%100
62	MP3A	Z	-3.339	-3.339	0	%100
63	MP3B	X	5.784	5.784	0	%100
64	MP3B	Z	-3.339	-3.339	0	%100
65	MP3C	X	5.784	5.784	0	%100
66	MP3C	Z	-3.339	-3.339	0	%100
67	MP4A	X	5.784	5.784	0	%100
68	MP4A	Z	-3.339	-3.339	0	%100
69	MP4B	X	5.784	5.784	0	%100
70	MP4B	Z	-3.339	-3.339	0	%100
71	MP4C	X	5.784	5.784	0	%100
72	MP4C	Z	-3.339	-3.339	0	%100
73	MP5A	X	7.002	7.002	0	%100
74	MP5A	Z	-4.043	-4.043	0	%100
75	MP5B	X	7.002	7.002	0	%100
76	MP5B	Z	-4.043	-4.043	0	%100
77	MP5C	X	7.002	7.002	0	%100
78	MP5C	Z	-4.043	-4.043	0	%100
79	M82	X	4.632	4.632	0	%100
80	M82	Z	-2.674	-2.674	0	%100
81	M83	X	3.678	3.678	0	%100
82	M83	Z	-2.123	-2.123	0	%100
83	M84	X	.002	.002	0	%100
84	M84	Z	-.000927	-.000927	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	6.327	6.327	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	6.327	6.327	0	%100
4	A2	Z	0	0	0	%100
5	A5	X	5.462	5.462	0	%100
6	A5	Z	0	0	0	%100
7	A6	X	8.202	8.202	0	%100
8	A6	Z	0	0	0	%100
9	A7	X	0	0	0	%100
10	A7	Z	0	0	0	%100
11	A8	X	0	0	0	%100
12	A8	Z	0	0	0	%100
13	B26	X	1.582	1.582	0	%100
14	B26	Z	0	0	0	%100
15	B27	X	1.582	1.582	0	%100
16	B27	Z	0	0	0	%100
17	B30	X	5.462	5.462	0	%100
18	B30	Z	0	0	0	%100
19	B31	X	8.202	8.202	0	%100
20	B31	Z	0	0	0	%100
21	B32	X	5.009	5.009	0	%100
22	B32	Z	0	0	0	%100
23	B33	X	5.009	5.009	0	%100
24	B33	Z	0	0	0	%100
25	B80	X	6.674	6.674	0	%100
26	B80	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
27	B81	X	1.334	1.334	0 %100
28	B81	Z	0	0	0 %100
29	C51	X	.74	.74	0 %100
30	C51	Z	0	0	0 %100
31	C52	X	.74	.74	0 %100
32	C52	Z	0	0	0 %100
33	C55	X	5.462	5.462	0 %100
34	C55	Z	0	0	0 %100
35	C56	X	8.202	8.202	0 %100
36	C56	Z	0	0	0 %100
37	C57	X	5.898	5.898	0 %100
38	C57	Z	0	0	0 %100
39	C58	X	5.898	5.898	0 %100
40	C58	Z	0	0	0 %100
41	C78	X	2.969	2.969	0 %100
42	C78	Z	0	0	0 %100
43	C79	X	.308	.308	0 %100
44	C79	Z	0	0	0 %100
45	M76	X	1.836	1.836	0 %100
46	M76	Z	0	0	0 %100
47	M77	X	6.636	6.636	0 %100
48	M77	Z	0	0	0 %100
49	MP1A	X	6.679	6.679	0 %100
50	MP1A	Z	0	0	0 %100
51	MP1B	X	6.679	6.679	0 %100
52	MP1B	Z	0	0	0 %100
53	MP1C	X	6.679	6.679	0 %100
54	MP1C	Z	0	0	0 %100
55	MP2A	X	6.679	6.679	0 %100
56	MP2A	Z	0	0	0 %100
57	MP2B	X	6.679	6.679	0 %100
58	MP2B	Z	0	0	0 %100
59	MP2C	X	6.679	6.679	0 %100
60	MP2C	Z	0	0	0 %100
61	MP3A	X	6.679	6.679	0 %100
62	MP3A	Z	0	0	0 %100
63	MP3B	X	6.679	6.679	0 %100
64	MP3B	Z	0	0	0 %100
65	MP3C	X	6.679	6.679	0 %100
66	MP3C	Z	0	0	0 %100
67	MP4A	X	6.679	6.679	0 %100
68	MP4A	Z	0	0	0 %100
69	MP4B	X	6.679	6.679	0 %100
70	MP4B	Z	0	0	0 %100
71	MP4C	X	6.679	6.679	0 %100
72	MP4C	Z	0	0	0 %100
73	MP5A	X	8.085	8.085	0 %100
74	MP5A	Z	0	0	0 %100
75	MP5B	X	8.085	8.085	0 %100
76	MP5B	Z	0	0	0 %100
77	MP5C	X	8.085	8.085	0 %100
78	MP5C	Z	0	0	0 %100
79	M82	X	6.654	6.654	0 %100
80	M82	Z	0	0	0 %100
81	M83	X	1.01	1.01	0 %100
82	M83	Z	0	0	0 %100
83	M84	X	1.475	1.475	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
84	M84	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]	
1	A1	X	4.11	4.11	0	%100
2	A1	Z	2.373	2.373	0	%100
3	A2	X	4.11	4.11	0	%100
4	A2	Z	2.373	2.373	0	%100
5	A5	X	4.73	4.73	0	%100
6	A5	Z	2.731	2.731	0	%100
7	A6	X	7.103	7.103	0	%100
8	A6	Z	4.101	4.101	0	%100
9	A7	X	1.446	1.446	0	%100
10	A7	Z	.835	.835	0	%100
11	A8	X	1.446	1.446	0	%100
12	A8	Z	.835	.835	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	0	0	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	0	0	0	%100
17	B30	X	4.73	4.73	0	%100
18	B30	Z	2.731	2.731	0	%100
19	B31	X	7.103	7.103	0	%100
20	B31	Z	4.101	4.101	0	%100
21	B32	X	5.784	5.784	0	%100
22	B32	Z	3.339	3.339	0	%100
23	B33	X	5.784	5.784	0	%100
24	B33	Z	3.339	3.339	0	%100
25	B80	X	4.486	4.486	0	%100
26	B80	Z	2.59	2.59	0	%100
27	B81	X	.152	.152	0	%100
28	B81	Z	.088	.088	0	%100
29	C51	X	3.216	3.216	0	%100
30	C51	Z	1.857	1.857	0	%100
31	C52	X	3.216	3.216	0	%100
32	C52	Z	1.857	1.857	0	%100
33	C55	X	4.73	4.73	0	%100
34	C55	Z	2.731	2.731	0	%100
35	C56	X	7.103	7.103	0	%100
36	C56	Z	4.101	4.101	0	%100
37	C57	X	2.39	2.39	0	%100
38	C57	Z	1.38	1.38	0	%100
39	C58	X	2.39	2.39	0	%100
40	C58	Z	1.38	1.38	0	%100
41	C78	X	.265	.265	0	%100
42	C78	Z	.153	.153	0	%100
43	C79	X	2.628	2.628	0	%100
44	C79	Z	1.517	1.517	0	%100
45	M76	X	4.384	4.384	0	%100
46	M76	Z	2.531	2.531	0	%100
47	M77	X	3.953	3.953	0	%100
48	M77	Z	2.282	2.282	0	%100
49	MP1A	X	5.784	5.784	0	%100
50	MP1A	Z	3.339	3.339	0	%100
51	MP1B	X	5.784	5.784	0	%100
52	MP1B	Z	3.339	3.339	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
53	MP1C	X	5.784	5.784	0 %100
54	MP1C	Z	3.339	3.339	0 %100
55	MP2A	X	5.784	5.784	0 %100
56	MP2A	Z	3.339	3.339	0 %100
57	MP2B	X	5.784	5.784	0 %100
58	MP2B	Z	3.339	3.339	0 %100
59	MP2C	X	5.784	5.784	0 %100
60	MP2C	Z	3.339	3.339	0 %100
61	MP3A	X	5.784	5.784	0 %100
62	MP3A	Z	3.339	3.339	0 %100
63	MP3B	X	5.784	5.784	0 %100
64	MP3B	Z	3.339	3.339	0 %100
65	MP3C	X	5.784	5.784	0 %100
66	MP3C	Z	3.339	3.339	0 %100
67	MP4A	X	5.784	5.784	0 %100
68	MP4A	Z	3.339	3.339	0 %100
69	MP4B	X	5.784	5.784	0 %100
70	MP4B	Z	3.339	3.339	0 %100
71	MP4C	X	5.784	5.784	0 %100
72	MP4C	Z	3.339	3.339	0 %100
73	MP5A	X	7.002	7.002	0 %100
74	MP5A	Z	4.043	4.043	0 %100
75	MP5B	X	7.002	7.002	0 %100
76	MP5B	Z	4.043	4.043	0 %100
77	MP5C	X	7.002	7.002	0 %100
78	MP5C	Z	4.043	4.043	0 %100
79	M82	X	4.023	4.023	0 %100
80	M82	Z	2.323	2.323	0 %100
81	M83	X	.089	.089	0 %100
82	M83	Z	.051	.051	0 %100
83	M84	X	3.991	3.991	0 %100
84	M84	Z	2.304	2.304	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.791	.791	0 %100
2	A1	Z	1.37	1.37	0 %100
3	A2	X	.791	.791	0 %100
4	A2	Z	1.37	1.37	0 %100
5	A5	X	2.731	2.731	0 %100
6	A5	Z	4.73	4.73	0 %100
7	A6	X	4.101	4.101	0 %100
8	A6	Z	7.103	7.103	0 %100
9	A7	X	2.505	2.505	0 %100
10	A7	Z	4.338	4.338	0 %100
11	A8	X	2.505	2.505	0 %100
12	A8	Z	4.338	4.338	0 %100
13	B26	X	.791	.791	0 %100
14	B26	Z	1.37	1.37	0 %100
15	B27	X	.791	.791	0 %100
16	B27	Z	1.37	1.37	0 %100
17	B30	X	2.731	2.731	0 %100
18	B30	Z	4.73	4.73	0 %100
19	B31	X	4.101	4.101	0 %100
20	B31	Z	7.103	7.103	0 %100
21	B32	X	2.505	2.505	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
22	B32	Z	4.338	4.338	0 %100
23	B33	X	2.505	2.505	0 %100
24	B33	Z	4.338	4.338	0 %100
25	B80	X	.932	.932	0 %100
26	B80	Z	1.615	1.615	0 %100
27	B81	X	1.124	1.124	0 %100
28	B81	Z	1.946	1.946	0 %100
29	C51	X	3.068	3.068	0 %100
30	C51	Z	5.314	5.314	0 %100
31	C52	X	3.068	3.068	0 %100
32	C52	Z	5.314	5.314	0 %100
33	C55	X	2.731	2.731	0 %100
34	C55	Z	4.73	4.73	0 %100
35	C56	X	4.101	4.101	0 %100
36	C56	Z	7.103	7.103	0 %100
37	C57	X	.101	.101	0 %100
38	C57	Z	.174	.174	0 %100
39	C58	X	.101	.101	0 %100
40	C58	Z	.174	.174	0 %100
41	C78	X	.347	.347	0 %100
42	C78	Z	.602	.602	0 %100
43	C79	X	3.033	3.033	0 %100
44	C79	Z	5.254	5.254	0 %100
45	M76	X	3.339	3.339	0 %100
46	M76	Z	5.784	5.784	0 %100
47	M77	X	.667	.667	0 %100
48	M77	Z	1.155	1.155	0 %100
49	MP1A	X	3.339	3.339	0 %100
50	MP1A	Z	5.784	5.784	0 %100
51	MP1B	X	3.339	3.339	0 %100
52	MP1B	Z	5.784	5.784	0 %100
53	MP1C	X	3.339	3.339	0 %100
54	MP1C	Z	5.784	5.784	0 %100
55	MP2A	X	3.339	3.339	0 %100
56	MP2A	Z	5.784	5.784	0 %100
57	MP2B	X	3.339	3.339	0 %100
58	MP2B	Z	5.784	5.784	0 %100
59	MP2C	X	3.339	3.339	0 %100
60	MP2C	Z	5.784	5.784	0 %100
61	MP3A	X	3.339	3.339	0 %100
62	MP3A	Z	5.784	5.784	0 %100
63	MP3B	X	3.339	3.339	0 %100
64	MP3B	Z	5.784	5.784	0 %100
65	MP3C	X	3.339	3.339	0 %100
66	MP3C	Z	5.784	5.784	0 %100
67	MP4A	X	3.339	3.339	0 %100
68	MP4A	Z	5.784	5.784	0 %100
69	MP4B	X	3.339	3.339	0 %100
70	MP4B	Z	5.784	5.784	0 %100
71	MP4C	X	3.339	3.339	0 %100
72	MP4C	Z	5.784	5.784	0 %100
73	MP5A	X	4.043	4.043	0 %100
74	MP5A	Z	7.002	7.002	0 %100
75	MP5B	X	4.043	4.043	0 %100
76	MP5B	Z	7.002	7.002	0 %100
77	MP5C	X	4.043	4.043	0 %100
78	MP5C	Z	7.002	7.002	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
79	M82	X	.665	.665	0	%100
80	M82	Z	1.152	1.152	0	%100
81	M83	X	1.216	1.216	0	%100
82	M83	Z	2.107	2.107	0	%100
83	M84	X	3.134	3.134	0	%100
84	M84	Z	5.428	5.428	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A5	X	0	0	0	%100
6	A5	Z	5.462	5.462	0	%100
7	A6	X	0	0	0	%100
8	A6	Z	8.202	8.202	0	%100
9	A7	X	0	0	0	%100
10	A7	Z	6.679	6.679	0	%100
11	A8	X	0	0	0	%100
12	A8	Z	6.679	6.679	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	4.746	4.746	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	4.746	4.746	0	%100
17	B30	X	0	0	0	%100
18	B30	Z	5.462	5.462	0	%100
19	B31	X	0	0	0	%100
20	B31	Z	8.202	8.202	0	%100
21	B32	X	0	0	0	%100
22	B32	Z	1.67	1.67	0	%100
23	B33	X	0	0	0	%100
24	B33	Z	1.67	1.67	0	%100
25	B80	X	0	0	0	%100
26	B80	Z	.041	.041	0	%100
27	B81	X	0	0	0	%100
28	B81	Z	5.478	5.478	0	%100
29	C51	X	0	0	0	%100
30	C51	Z	5.587	5.587	0	%100
31	C52	X	0	0	0	%100
32	C52	Z	5.587	5.587	0	%100
33	C55	X	0	0	0	%100
34	C55	Z	5.462	5.462	0	%100
35	C56	X	0	0	0	%100
36	C56	Z	8.202	8.202	0	%100
37	C57	X	0	0	0	%100
38	C57	Z	.781	.781	0	%100
39	C58	X	0	0	0	%100
40	C58	Z	.781	.781	0	%100
41	C78	X	0	0	0	%100
42	C78	Z	3.746	3.746	0	%100
43	C79	X	0	0	0	%100
44	C79	Z	6.372	6.372	0	%100
45	M76	X	0	0	0	%100
46	M76	Z	5.07	5.07	0	%100
47	M77	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
48	M77	Z	.175	.175	0 %100
49	MP1A	X	0	0	0 %100
50	MP1A	Z	6.679	6.679	0 %100
51	MP1B	X	0	0	0 %100
52	MP1B	Z	6.679	6.679	0 %100
53	MP1C	X	0	0	0 %100
54	MP1C	Z	6.679	6.679	0 %100
55	MP2A	X	0	0	0 %100
56	MP2A	Z	6.679	6.679	0 %100
57	MP2B	X	0	0	0 %100
58	MP2B	Z	6.679	6.679	0 %100
59	MP2C	X	0	0	0 %100
60	MP2C	Z	6.679	6.679	0 %100
61	MP3A	X	0	0	0 %100
62	MP3A	Z	6.679	6.679	0 %100
63	MP3B	X	0	0	0 %100
64	MP3B	Z	6.679	6.679	0 %100
65	MP3C	X	0	0	0 %100
66	MP3C	Z	6.679	6.679	0 %100
67	MP4A	X	0	0	0 %100
68	MP4A	Z	6.679	6.679	0 %100
69	MP4B	X	0	0	0 %100
70	MP4B	Z	6.679	6.679	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	6.679	6.679	0 %100
73	MP5A	X	0	0	0 %100
74	MP5A	Z	8.085	8.085	0 %100
75	MP5B	X	0	0	0 %100
76	MP5B	Z	8.085	8.085	0 %100
77	MP5C	X	0	0	0 %100
78	MP5C	Z	8.085	8.085	0 %100
79	M82	X	0	0	0 %100
80	M82	Z	.025	.025	0 %100
81	M83	X	0	0	0 %100
82	M83	Z	5.669	5.669	0 %100
83	M84	X	0	0	0 %100
84	M84	Z	4.795	4.795	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.791	-.791	0 %100
2	A1	Z	1.37	1.37	0 %100
3	A2	X	-.791	-.791	0 %100
4	A2	Z	1.37	1.37	0 %100
5	A5	X	-2.731	-2.731	0 %100
6	A5	Z	4.73	4.73	0 %100
7	A6	X	-4.101	-4.101	0 %100
8	A6	Z	7.103	7.103	0 %100
9	A7	X	-2.505	-2.505	0 %100
10	A7	Z	4.338	4.338	0 %100
11	A8	X	-2.505	-2.505	0 %100
12	A8	Z	4.338	4.338	0 %100
13	B26	X	-3.164	-3.164	0 %100
14	B26	Z	5.48	5.48	0 %100
15	B27	X	-3.164	-3.164	0 %100
16	B27	Z	5.48	5.48	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
17	B30	X	-2.731	-2.731	0 %100
18	B30	Z	4.73	4.73	0 %100
19	B31	X	-4.101	-4.101	0 %100
20	B31	Z	7.103	7.103	0 %100
21	B32	X	0	0	0 %100
22	B32	Z	0	0	0 %100
23	B33	X	0	0	0 %100
24	B33	Z	0	0	0 %100
25	B80	X	-.767	-.767	0 %100
26	B80	Z	1.329	1.329	0 %100
27	B81	X	-3.318	-3.318	0 %100
28	B81	Z	5.747	5.747	0 %100
29	C51	X	-1.307	-1.307	0 %100
30	C51	Z	2.264	2.264	0 %100
31	C52	X	-1.307	-1.307	0 %100
32	C52	Z	2.264	2.264	0 %100
33	C55	X	-2.731	-2.731	0 %100
34	C55	Z	4.73	4.73	0 %100
35	C56	X	-4.101	-4.101	0 %100
36	C56	Z	7.103	7.103	0 %100
37	C57	X	-1.96	-1.96	0 %100
38	C57	Z	3.394	3.394	0 %100
39	C58	X	-1.96	-1.96	0 %100
40	C58	Z	3.394	3.394	0 %100
41	C78	X	-3.204	-3.204	0 %100
42	C78	Z	5.55	5.55	0 %100
43	C79	X	-1.823	-1.823	0 %100
44	C79	Z	3.158	3.158	0 %100
45	M76	X	-.922	-.922	0 %100
46	M76	Z	1.597	1.597	0 %100
47	M77	X	-1.124	-1.124	0 %100
48	M77	Z	1.946	1.946	0 %100
49	MP1A	X	-3.339	-3.339	0 %100
50	MP1A	Z	5.784	5.784	0 %100
51	MP1B	X	-3.339	-3.339	0 %100
52	MP1B	Z	5.784	5.784	0 %100
53	MP1C	X	-3.339	-3.339	0 %100
54	MP1C	Z	5.784	5.784	0 %100
55	MP2A	X	-3.339	-3.339	0 %100
56	MP2A	Z	5.784	5.784	0 %100
57	MP2B	X	-3.339	-3.339	0 %100
58	MP2B	Z	5.784	5.784	0 %100
59	MP2C	X	-3.339	-3.339	0 %100
60	MP2C	Z	5.784	5.784	0 %100
61	MP3A	X	-3.339	-3.339	0 %100
62	MP3A	Z	5.784	5.784	0 %100
63	MP3B	X	-3.339	-3.339	0 %100
64	MP3B	Z	5.784	5.784	0 %100
65	MP3C	X	-3.339	-3.339	0 %100
66	MP3C	Z	5.784	5.784	0 %100
67	MP4A	X	-3.339	-3.339	0 %100
68	MP4A	Z	5.784	5.784	0 %100
69	MP4B	X	-3.339	-3.339	0 %100
70	MP4B	Z	5.784	5.784	0 %100
71	MP4C	X	-3.339	-3.339	0 %100
72	MP4C	Z	5.784	5.784	0 %100
73	MP5A	X	-4.043	-4.043	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
74	MP5A	Z	7.002	7.002	0	%100
75	MP5B	X	-4.043	-4.043	0	%100
76	MP5B	Z	7.002	7.002	0	%100
77	MP5C	X	-4.043	-4.043	0	%100
78	MP5C	Z	7.002	7.002	0	%100
79	M82	X	-1.017	-1.017	0	%100
80	M82	Z	1.761	1.761	0	%100
81	M83	X	-3.288	-3.288	0	%100
82	M83	Z	5.695	5.695	0	%100
83	M84	X	-.831	-.831	0	%100
84	M84	Z	1.439	1.439	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-4.11	-4.11	0	%100
2	A1	Z	2.373	2.373	0	%100
3	A2	X	-4.11	-4.11	0	%100
4	A2	Z	2.373	2.373	0	%100
5	A5	X	-4.73	-4.73	0	%100
6	A5	Z	2.731	2.731	0	%100
7	A6	X	-7.103	-7.103	0	%100
8	A6	Z	4.101	4.101	0	%100
9	A7	X	-1.446	-1.446	0	%100
10	A7	Z	.835	.835	0	%100
11	A8	X	-1.446	-1.446	0	%100
12	A8	Z	.835	.835	0	%100
13	B26	X	-4.11	-4.11	0	%100
14	B26	Z	2.373	2.373	0	%100
15	B27	X	-4.11	-4.11	0	%100
16	B27	Z	2.373	2.373	0	%100
17	B30	X	-4.73	-4.73	0	%100
18	B30	Z	2.731	2.731	0	%100
19	B31	X	-7.103	-7.103	0	%100
20	B31	Z	4.101	4.101	0	%100
21	B32	X	-1.446	-1.446	0	%100
22	B32	Z	.835	.835	0	%100
23	B33	X	-1.446	-1.446	0	%100
24	B33	Z	.835	.835	0	%100
25	B80	X	-4.201	-4.201	0	%100
26	B80	Z	2.425	2.425	0	%100
27	B81	X	-3.953	-3.953	0	%100
28	B81	Z	2.282	2.282	0	%100
29	C51	X	-.165	-.165	0	%100
30	C51	Z	.095	.095	0	%100
31	C52	X	-.165	-.165	0	%100
32	C52	Z	.095	.095	0	%100
33	C55	X	-4.73	-4.73	0	%100
34	C55	Z	2.731	2.731	0	%100
35	C56	X	-7.103	-7.103	0	%100
36	C56	Z	4.101	4.101	0	%100
37	C57	X	-5.61	-5.61	0	%100
38	C57	Z	3.239	3.239	0	%100
39	C58	X	-5.61	-5.61	0	%100
40	C58	Z	3.239	3.239	0	%100
41	C78	X	-5.213	-5.213	0	%100
42	C78	Z	3.01	3.01	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
43	C79	X	-531	-531	0 %100
44	C79	Z	.307	.307	0 %100
45	M76	X	-197	-197	0 %100
46	M76	Z	.114	.114	0 %100
47	M77	X	-4.744	-4.744	0 %100
48	M77	Z	2.739	2.739	0 %100
49	MP1A	X	-5.784	-5.784	0 %100
50	MP1A	Z	3.339	3.339	0 %100
51	MP1B	X	-5.784	-5.784	0 %100
52	MP1B	Z	3.339	3.339	0 %100
53	MP1C	X	-5.784	-5.784	0 %100
54	MP1C	Z	3.339	3.339	0 %100
55	MP2A	X	-5.784	-5.784	0 %100
56	MP2A	Z	3.339	3.339	0 %100
57	MP2B	X	-5.784	-5.784	0 %100
58	MP2B	Z	3.339	3.339	0 %100
59	MP2C	X	-5.784	-5.784	0 %100
60	MP2C	Z	3.339	3.339	0 %100
61	MP3A	X	-5.784	-5.784	0 %100
62	MP3A	Z	3.339	3.339	0 %100
63	MP3B	X	-5.784	-5.784	0 %100
64	MP3B	Z	3.339	3.339	0 %100
65	MP3C	X	-5.784	-5.784	0 %100
66	MP3C	Z	3.339	3.339	0 %100
67	MP4A	X	-5.784	-5.784	0 %100
68	MP4A	Z	3.339	3.339	0 %100
69	MP4B	X	-5.784	-5.784	0 %100
70	MP4B	Z	3.339	3.339	0 %100
71	MP4C	X	-5.784	-5.784	0 %100
72	MP4C	Z	3.339	3.339	0 %100
73	MP5A	X	-7.002	-7.002	0 %100
74	MP5A	Z	4.043	4.043	0 %100
75	MP5B	X	-7.002	-7.002	0 %100
76	MP5B	Z	4.043	4.043	0 %100
77	MP5C	X	-7.002	-7.002	0 %100
78	MP5C	Z	4.043	4.043	0 %100
79	M82	X	-4.632	-4.632	0 %100
80	M82	Z	2.674	2.674	0 %100
81	M83	X	-3.678	-3.678	0 %100
82	M83	Z	2.123	2.123	0 %100
83	M84	X	-.002	-.002	0 %100
84	M84	Z	.000927	.000927	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-6.327	-6.327	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	-6.327	-6.327	0 %100
4	A2	Z	0	0	0 %100
5	A5	X	-5.462	-5.462	0 %100
6	A5	Z	0	0	0 %100
7	A6	X	-8.202	-8.202	0 %100
8	A6	Z	0	0	0 %100
9	A7	X	0	0	0 %100
10	A7	Z	0	0	0 %100
11	A8	X	0	0	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]	
12	A8	Z	0	0	%100	
13	B26	X	-1.582	-1.582	0	%100
14	B26	Z	0	0	0	%100
15	B27	X	-1.582	-1.582	0	%100
16	B27	Z	0	0	0	%100
17	B30	X	-5.462	-5.462	0	%100
18	B30	Z	0	0	0	%100
19	B31	X	-8.202	-8.202	0	%100
20	B31	Z	0	0	0	%100
21	B32	X	-5.009	-5.009	0	%100
22	B32	Z	0	0	0	%100
23	B33	X	-5.009	-5.009	0	%100
24	B33	Z	0	0	0	%100
25	B80	X	-6.674	-6.674	0	%100
26	B80	Z	0	0	0	%100
27	B81	X	-1.334	-1.334	0	%100
28	B81	Z	0	0	0	%100
29	C51	X	-.74	-.74	0	%100
30	C51	Z	0	0	0	%100
31	C52	X	-.74	-.74	0	%100
32	C52	Z	0	0	0	%100
33	C55	X	-5.462	-5.462	0	%100
34	C55	Z	0	0	0	%100
35	C56	X	-8.202	-8.202	0	%100
36	C56	Z	0	0	0	%100
37	C57	X	-5.898	-5.898	0	%100
38	C57	Z	0	0	0	%100
39	C58	X	-5.898	-5.898	0	%100
40	C58	Z	0	0	0	%100
41	C78	X	-2.969	-2.969	0	%100
42	C78	Z	0	0	0	%100
43	C79	X	-.308	-.308	0	%100
44	C79	Z	0	0	0	%100
45	M76	X	-1.836	-1.836	0	%100
46	M76	Z	0	0	0	%100
47	M77	X	-6.636	-6.636	0	%100
48	M77	Z	0	0	0	%100
49	MP1A	X	-6.679	-6.679	0	%100
50	MP1A	Z	0	0	0	%100
51	MP1B	X	-6.679	-6.679	0	%100
52	MP1B	Z	0	0	0	%100
53	MP1C	X	-6.679	-6.679	0	%100
54	MP1C	Z	0	0	0	%100
55	MP2A	X	-6.679	-6.679	0	%100
56	MP2A	Z	0	0	0	%100
57	MP2B	X	-6.679	-6.679	0	%100
58	MP2B	Z	0	0	0	%100
59	MP2C	X	-6.679	-6.679	0	%100
60	MP2C	Z	0	0	0	%100
61	MP3A	X	-6.679	-6.679	0	%100
62	MP3A	Z	0	0	0	%100
63	MP3B	X	-6.679	-6.679	0	%100
64	MP3B	Z	0	0	0	%100
65	MP3C	X	-6.679	-6.679	0	%100
66	MP3C	Z	0	0	0	%100
67	MP4A	X	-6.679	-6.679	0	%100
68	MP4A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
69	MP4B	X	-6.679	-6.679	0	%100
70	MP4B	Z	0	0	0	%100
71	MP4C	X	-6.679	-6.679	0	%100
72	MP4C	Z	0	0	0	%100
73	MP5A	X	-8.085	-8.085	0	%100
74	MP5A	Z	0	0	0	%100
75	MP5B	X	-8.085	-8.085	0	%100
76	MP5B	Z	0	0	0	%100
77	MP5C	X	-8.085	-8.085	0	%100
78	MP5C	Z	0	0	0	%100
79	M82	X	-6.654	-6.654	0	%100
80	M82	Z	0	0	0	%100
81	M83	X	-1.01	-1.01	0	%100
82	M83	Z	0	0	0	%100
83	M84	X	-1.475	-1.475	0	%100
84	M84	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-4.11	-4.11	0	%100
2	A1	Z	-2.373	-2.373	0	%100
3	A2	X	-4.11	-4.11	0	%100
4	A2	Z	-2.373	-2.373	0	%100
5	A5	X	-4.73	-4.73	0	%100
6	A5	Z	-2.731	-2.731	0	%100
7	A6	X	-7.103	-7.103	0	%100
8	A6	Z	-4.101	-4.101	0	%100
9	A7	X	-1.446	-1.446	0	%100
10	A7	Z	-.835	-.835	0	%100
11	A8	X	-1.446	-1.446	0	%100
12	A8	Z	-.835	-.835	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	0	0	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	0	0	0	%100
17	B30	X	-4.73	-4.73	0	%100
18	B30	Z	-2.731	-2.731	0	%100
19	B31	X	-7.103	-7.103	0	%100
20	B31	Z	-4.101	-4.101	0	%100
21	B32	X	-5.784	-5.784	0	%100
22	B32	Z	-3.339	-3.339	0	%100
23	B33	X	-5.784	-5.784	0	%100
24	B33	Z	-3.339	-3.339	0	%100
25	B80	X	-4.486	-4.486	0	%100
26	B80	Z	-2.59	-2.59	0	%100
27	B81	X	-.152	-.152	0	%100
28	B81	Z	-.088	-.088	0	%100
29	C51	X	-3.216	-3.216	0	%100
30	C51	Z	-1.857	-1.857	0	%100
31	C52	X	-3.216	-3.216	0	%100
32	C52	Z	-1.857	-1.857	0	%100
33	C55	X	-4.73	-4.73	0	%100
34	C55	Z	-2.731	-2.731	0	%100
35	C56	X	-7.103	-7.103	0	%100
36	C56	Z	-4.101	-4.101	0	%100
37	C57	X	-2.39	-2.39	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
38	C57	Z	-1.38	-1.38	0 %100
39	C58	X	-2.39	-2.39	0 %100
40	C58	Z	-1.38	-1.38	0 %100
41	C78	X	-.265	-.265	0 %100
42	C78	Z	-.153	-.153	0 %100
43	C79	X	-2.628	-2.628	0 %100
44	C79	Z	-1.517	-1.517	0 %100
45	M76	X	-4.384	-4.384	0 %100
46	M76	Z	-2.531	-2.531	0 %100
47	M77	X	-3.953	-3.953	0 %100
48	M77	Z	-2.282	-2.282	0 %100
49	MP1A	X	-5.784	-5.784	0 %100
50	MP1A	Z	-3.339	-3.339	0 %100
51	MP1B	X	-5.784	-5.784	0 %100
52	MP1B	Z	-3.339	-3.339	0 %100
53	MP1C	X	-5.784	-5.784	0 %100
54	MP1C	Z	-3.339	-3.339	0 %100
55	MP2A	X	-5.784	-5.784	0 %100
56	MP2A	Z	-3.339	-3.339	0 %100
57	MP2B	X	-5.784	-5.784	0 %100
58	MP2B	Z	-3.339	-3.339	0 %100
59	MP2C	X	-5.784	-5.784	0 %100
60	MP2C	Z	-3.339	-3.339	0 %100
61	MP3A	X	-5.784	-5.784	0 %100
62	MP3A	Z	-3.339	-3.339	0 %100
63	MP3B	X	-5.784	-5.784	0 %100
64	MP3B	Z	-3.339	-3.339	0 %100
65	MP3C	X	-5.784	-5.784	0 %100
66	MP3C	Z	-3.339	-3.339	0 %100
67	MP4A	X	-5.784	-5.784	0 %100
68	MP4A	Z	-3.339	-3.339	0 %100
69	MP4B	X	-5.784	-5.784	0 %100
70	MP4B	Z	-3.339	-3.339	0 %100
71	MP4C	X	-5.784	-5.784	0 %100
72	MP4C	Z	-3.339	-3.339	0 %100
73	MP5A	X	-7.002	-7.002	0 %100
74	MP5A	Z	-4.043	-4.043	0 %100
75	MP5B	X	-7.002	-7.002	0 %100
76	MP5B	Z	-4.043	-4.043	0 %100
77	MP5C	X	-7.002	-7.002	0 %100
78	MP5C	Z	-4.043	-4.043	0 %100
79	M82	X	-4.023	-4.023	0 %100
80	M82	Z	-2.323	-2.323	0 %100
81	M83	X	-.089	-.089	0 %100
82	M83	Z	-.051	-.051	0 %100
83	M84	X	-3.991	-3.991	0 %100
84	M84	Z	-2.304	-2.304	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.791	-.791	0 %100
2	A1	Z	-1.37	-1.37	0 %100
3	A2	X	-.791	-.791	0 %100
4	A2	Z	-1.37	-1.37	0 %100
5	A5	X	-2.731	-2.731	0 %100
6	A5	Z	-4.73	-4.73	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	A6	X	-4.101	-4.101	0	%100
8	A6	Z	-7.103	-7.103	0	%100
9	A7	X	-2.505	-2.505	0	%100
10	A7	Z	-4.338	-4.338	0	%100
11	A8	X	-2.505	-2.505	0	%100
12	A8	Z	-4.338	-4.338	0	%100
13	B26	X	-0.791	-0.791	0	%100
14	B26	Z	-1.37	-1.37	0	%100
15	B27	X	-0.791	-0.791	0	%100
16	B27	Z	-1.37	-1.37	0	%100
17	B30	X	-2.731	-2.731	0	%100
18	B30	Z	-4.73	-4.73	0	%100
19	B31	X	-4.101	-4.101	0	%100
20	B31	Z	-7.103	-7.103	0	%100
21	B32	X	-2.505	-2.505	0	%100
22	B32	Z	-4.338	-4.338	0	%100
23	B33	X	-2.505	-2.505	0	%100
24	B33	Z	-4.338	-4.338	0	%100
25	B80	X	-0.932	-0.932	0	%100
26	B80	Z	-1.615	-1.615	0	%100
27	B81	X	-1.124	-1.124	0	%100
28	B81	Z	-1.946	-1.946	0	%100
29	C51	X	-3.068	-3.068	0	%100
30	C51	Z	-5.314	-5.314	0	%100
31	C52	X	-3.068	-3.068	0	%100
32	C52	Z	-5.314	-5.314	0	%100
33	C55	X	-2.731	-2.731	0	%100
34	C55	Z	-4.73	-4.73	0	%100
35	C56	X	-4.101	-4.101	0	%100
36	C56	Z	-7.103	-7.103	0	%100
37	C57	X	-1.101	-1.101	0	%100
38	C57	Z	-0.174	-0.174	0	%100
39	C58	X	-1.101	-1.101	0	%100
40	C58	Z	-0.174	-0.174	0	%100
41	C78	X	-0.347	-0.347	0	%100
42	C78	Z	-0.602	-0.602	0	%100
43	C79	X	-3.033	-3.033	0	%100
44	C79	Z	-5.254	-5.254	0	%100
45	M76	X	-3.339	-3.339	0	%100
46	M76	Z	-5.784	-5.784	0	%100
47	M77	X	-0.667	-0.667	0	%100
48	M77	Z	-1.155	-1.155	0	%100
49	MP1A	X	-3.339	-3.339	0	%100
50	MP1A	Z	-5.784	-5.784	0	%100
51	MP1B	X	-3.339	-3.339	0	%100
52	MP1B	Z	-5.784	-5.784	0	%100
53	MP1C	X	-3.339	-3.339	0	%100
54	MP1C	Z	-5.784	-5.784	0	%100
55	MP2A	X	-3.339	-3.339	0	%100
56	MP2A	Z	-5.784	-5.784	0	%100
57	MP2B	X	-3.339	-3.339	0	%100
58	MP2B	Z	-5.784	-5.784	0	%100
59	MP2C	X	-3.339	-3.339	0	%100
60	MP2C	Z	-5.784	-5.784	0	%100
61	MP3A	X	-3.339	-3.339	0	%100
62	MP3A	Z	-5.784	-5.784	0	%100
63	MP3B	X	-3.339	-3.339	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
64	MP3B	Z	-5.784	-5.784	0 %100
65	MP3C	X	-3.339	-3.339	0 %100
66	MP3C	Z	-5.784	-5.784	0 %100
67	MP4A	X	-3.339	-3.339	0 %100
68	MP4A	Z	-5.784	-5.784	0 %100
69	MP4B	X	-3.339	-3.339	0 %100
70	MP4B	Z	-5.784	-5.784	0 %100
71	MP4C	X	-3.339	-3.339	0 %100
72	MP4C	Z	-5.784	-5.784	0 %100
73	MP5A	X	-4.043	-4.043	0 %100
74	MP5A	Z	-7.002	-7.002	0 %100
75	MP5B	X	-4.043	-4.043	0 %100
76	MP5B	Z	-7.002	-7.002	0 %100
77	MP5C	X	-4.043	-4.043	0 %100
78	MP5C	Z	-7.002	-7.002	0 %100
79	M82	X	-.665	-.665	0 %100
80	M82	Z	-1.152	-1.152	0 %100
81	M83	X	-1.216	-1.216	0 %100
82	M83	Z	-2.107	-2.107	0 %100
83	M84	X	-3.134	-3.134	0 %100
84	M84	Z	-5.428	-5.428	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	0	0	0 %100
5	A5	X	0	0	0 %100
6	A5	Z	-1.999	-1.999	0 %100
7	A6	X	0	0	0 %100
8	A6	Z	-2.702	-2.702	0 %100
9	A7	X	0	0	0 %100
10	A7	Z	-2.418	-2.418	0 %100
11	A8	X	0	0	0 %100
12	A8	Z	-2.418	-2.418	0 %100
13	B26	X	0	0	0 %100
14	B26	Z	-1.511	-1.511	0 %100
15	B27	X	0	0	0 %100
16	B27	Z	-1.511	-1.511	0 %100
17	B30	X	0	0	0 %100
18	B30	Z	-1.999	-1.999	0 %100
19	B31	X	0	0	0 %100
20	B31	Z	-2.702	-2.702	0 %100
21	B32	X	0	0	0 %100
22	B32	Z	-.604	-.604	0 %100
23	B33	X	0	0	0 %100
24	B33	Z	-.604	-.604	0 %100
25	B80	X	0	0	0 %100
26	B80	Z	-.015	-.015	0 %100
27	B81	X	0	0	0 %100
28	B81	Z	-1.983	-1.983	0 %100
29	C51	X	0	0	0 %100
30	C51	Z	-1.779	-1.779	0 %100
31	C52	X	0	0	0 %100
32	C52	Z	-1.779	-1.779	0 %100



Company : GPD
 Designer : enieto
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Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]	
33	C55	X	0	0	%100	
34	C55	Z	-1.999	-1.999	0	%100
35	C56	X	0	0	0	%100
36	C56	Z	-2.702	-2.702	0	%100
37	C57	X	0	0	0	%100
38	C57	Z	-.283	-.283	0	%100
39	C58	X	0	0	0	%100
40	C58	Z	-.283	-.283	0	%100
41	C78	X	0	0	0	%100
42	C78	Z	-1.356	-1.356	0	%100
43	C79	X	0	0	0	%100
44	C79	Z	-2.307	-2.307	0	%100
45	M76	X	0	0	0	%100
46	M76	Z	-1.835	-1.835	0	%100
47	M77	X	0	0	0	%100
48	M77	Z	-.063	-.063	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	-2.418	-2.418	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	-2.418	-2.418	0	%100
53	MP1C	X	0	0	0	%100
54	MP1C	Z	-2.418	-2.418	0	%100
55	MP2A	X	0	0	0	%100
56	MP2A	Z	-2.418	-2.418	0	%100
57	MP2B	X	0	0	0	%100
58	MP2B	Z	-2.418	-2.418	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-2.418	-2.418	0	%100
61	MP3A	X	0	0	0	%100
62	MP3A	Z	-2.418	-2.418	0	%100
63	MP3B	X	0	0	0	%100
64	MP3B	Z	-2.418	-2.418	0	%100
65	MP3C	X	0	0	0	%100
66	MP3C	Z	-2.418	-2.418	0	%100
67	MP4A	X	0	0	0	%100
68	MP4A	Z	-2.418	-2.418	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	-2.418	-2.418	0	%100
71	MP4C	X	0	0	0	%100
72	MP4C	Z	-2.418	-2.418	0	%100
73	MP5A	X	0	0	0	%100
74	MP5A	Z	-2.681	-2.681	0	%100
75	MP5B	X	0	0	0	%100
76	MP5B	Z	-2.681	-2.681	0	%100
77	MP5C	X	0	0	0	%100
78	MP5C	Z	-2.681	-2.681	0	%100
79	M82	X	0	0	0	%100
80	M82	Z	-.009	-.009	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	-2.052	-2.052	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	-1.76	-1.76	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]	
1	A1	X	.252	.252	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10108062
 Model Name : 467920-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
2	A1	Z	-.436	-.436	0 %100
3	A2	X	.252	.252	0 %100
4	A2	Z	-.436	-.436	0 %100
5	A5	X	1	1	0 %100
6	A5	Z	-1.731	-1.731	0 %100
7	A6	X	1.351	1.351	0 %100
8	A6	Z	-2.34	-2.34	0 %100
9	A7	X	.907	.907	0 %100
10	A7	Z	-1.57	-1.57	0 %100
11	A8	X	.907	.907	0 %100
12	A8	Z	-1.57	-1.57	0 %100
13	B26	X	1.008	1.008	0 %100
14	B26	Z	-1.745	-1.745	0 %100
15	B27	X	1.008	1.008	0 %100
16	B27	Z	-1.745	-1.745	0 %100
17	B30	X	1	1	0 %100
18	B30	Z	-1.731	-1.731	0 %100
19	B31	X	1.351	1.351	0 %100
20	B31	Z	-2.34	-2.34	0 %100
21	B32	X	0	0	0 %100
22	B32	Z	0	0	0 %100
23	B33	X	0	0	0 %100
24	B33	Z	0	0	0 %100
25	B80	X	.278	.278	0 %100
26	B80	Z	-.481	-.481	0 %100
27	B81	X	1.201	1.201	0 %100
28	B81	Z	-2.08	-2.08	0 %100
29	C51	X	.416	.416	0 %100
30	C51	Z	-.721	-.721	0 %100
31	C52	X	.416	.416	0 %100
32	C52	Z	-.721	-.721	0 %100
33	C55	X	1	1	0 %100
34	C55	Z	-1.731	-1.731	0 %100
35	C56	X	1.351	1.351	0 %100
36	C56	Z	-2.34	-2.34	0 %100
37	C57	X	.709	.709	0 %100
38	C57	Z	-1.229	-1.229	0 %100
39	C58	X	.709	.709	0 %100
40	C58	Z	-1.229	-1.229	0 %100
41	C78	X	1.16	1.16	0 %100
42	C78	Z	-2.009	-2.009	0 %100
43	C79	X	.66	.66	0 %100
44	C79	Z	-1.143	-1.143	0 %100
45	M76	X	.334	.334	0 %100
46	M76	Z	-.578	-.578	0 %100
47	M77	X	.407	.407	0 %100
48	M77	Z	-.705	-.705	0 %100
49	MP1A	X	1.209	1.209	0 %100
50	MP1A	Z	-2.094	-2.094	0 %100
51	MP1B	X	1.209	1.209	0 %100
52	MP1B	Z	-2.094	-2.094	0 %100
53	MP1C	X	1.209	1.209	0 %100
54	MP1C	Z	-2.094	-2.094	0 %100
55	MP2A	X	1.209	1.209	0 %100
56	MP2A	Z	-2.094	-2.094	0 %100
57	MP2B	X	1.209	1.209	0 %100
58	MP2B	Z	-2.094	-2.094	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
59	MP2C	X	1.209	1.209	0	%100
60	MP2C	Z	-2.094	-2.094	0	%100
61	MP3A	X	1.209	1.209	0	%100
62	MP3A	Z	-2.094	-2.094	0	%100
63	MP3B	X	1.209	1.209	0	%100
64	MP3B	Z	-2.094	-2.094	0	%100
65	MP3C	X	1.209	1.209	0	%100
66	MP3C	Z	-2.094	-2.094	0	%100
67	MP4A	X	1.209	1.209	0	%100
68	MP4A	Z	-2.094	-2.094	0	%100
69	MP4B	X	1.209	1.209	0	%100
70	MP4B	Z	-2.094	-2.094	0	%100
71	MP4C	X	1.209	1.209	0	%100
72	MP4C	Z	-2.094	-2.094	0	%100
73	MP5A	X	1.34	1.34	0	%100
74	MP5A	Z	-2.321	-2.321	0	%100
75	MP5B	X	1.34	1.34	0	%100
76	MP5B	Z	-2.321	-2.321	0	%100
77	MP5C	X	1.34	1.34	0	%100
78	MP5C	Z	-2.321	-2.321	0	%100
79	M82	X	.368	.368	0	%100
80	M82	Z	-.638	-.638	0	%100
81	M83	X	1.19	1.19	0	%100
82	M83	Z	-2.062	-2.062	0	%100
83	M84	X	.305	.305	0	%100
84	M84	Z	-.528	-.528	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	1.309	1.309	0	%100
2	A1	Z	-.756	-.756	0	%100
3	A2	X	1.309	1.309	0	%100
4	A2	Z	-.756	-.756	0	%100
5	A5	X	1.731	1.731	0	%100
6	A5	Z	-1	-1	0	%100
7	A6	X	2.34	2.34	0	%100
8	A6	Z	-1.351	-1.351	0	%100
9	A7	X	.523	.523	0	%100
10	A7	Z	-.302	-.302	0	%100
11	A8	X	.523	.523	0	%100
12	A8	Z	-.302	-.302	0	%100
13	B26	X	1.309	1.309	0	%100
14	B26	Z	-.756	-.756	0	%100
15	B27	X	1.309	1.309	0	%100
16	B27	Z	-.756	-.756	0	%100
17	B30	X	1.731	1.731	0	%100
18	B30	Z	-1	-1	0	%100
19	B31	X	2.34	2.34	0	%100
20	B31	Z	-1.351	-1.351	0	%100
21	B32	X	.523	.523	0	%100
22	B32	Z	-.302	-.302	0	%100
23	B33	X	.523	.523	0	%100
24	B33	Z	-.302	-.302	0	%100
25	B80	X	1.521	1.521	0	%100
26	B80	Z	-.878	-.878	0	%100
27	B81	X	1.431	1.431	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
28	B81	Z	-.826	-.826	0 %100
29	C51	X	.053	.053	0 %100
30	C51	Z	-.03	-.03	0 %100
31	C52	X	.053	.053	0 %100
32	C52	Z	-.03	-.03	0 %100
33	C55	X	1.731	1.731	0 %100
34	C55	Z	-1	-1	0 %100
35	C56	X	2.34	2.34	0 %100
36	C56	Z	-1.351	-1.351	0 %100
37	C57	X	2.031	2.031	0 %100
38	C57	Z	-1.172	-1.172	0 %100
39	C58	X	2.031	2.031	0 %100
40	C58	Z	-1.172	-1.172	0 %100
41	C78	X	1.887	1.887	0 %100
42	C78	Z	-1.09	-1.09	0 %100
43	C79	X	.192	.192	0 %100
44	C79	Z	-.111	-.111	0 %100
45	M76	X	.071	.071	0 %100
46	M76	Z	-.041	-.041	0 %100
47	M77	X	1.717	1.717	0 %100
48	M77	Z	-.991	-.991	0 %100
49	MP1A	X	2.094	2.094	0 %100
50	MP1A	Z	-1.209	-1.209	0 %100
51	MP1B	X	2.094	2.094	0 %100
52	MP1B	Z	-1.209	-1.209	0 %100
53	MP1C	X	2.094	2.094	0 %100
54	MP1C	Z	-1.209	-1.209	0 %100
55	MP2A	X	2.094	2.094	0 %100
56	MP2A	Z	-1.209	-1.209	0 %100
57	MP2B	X	2.094	2.094	0 %100
58	MP2B	Z	-1.209	-1.209	0 %100
59	MP2C	X	2.094	2.094	0 %100
60	MP2C	Z	-1.209	-1.209	0 %100
61	MP3A	X	2.094	2.094	0 %100
62	MP3A	Z	-1.209	-1.209	0 %100
63	MP3B	X	2.094	2.094	0 %100
64	MP3B	Z	-1.209	-1.209	0 %100
65	MP3C	X	2.094	2.094	0 %100
66	MP3C	Z	-1.209	-1.209	0 %100
67	MP4A	X	2.094	2.094	0 %100
68	MP4A	Z	-1.209	-1.209	0 %100
69	MP4B	X	2.094	2.094	0 %100
70	MP4B	Z	-1.209	-1.209	0 %100
71	MP4C	X	2.094	2.094	0 %100
72	MP4C	Z	-1.209	-1.209	0 %100
73	MP5A	X	2.321	2.321	0 %100
74	MP5A	Z	-1.34	-1.34	0 %100
75	MP5B	X	2.321	2.321	0 %100
76	MP5B	Z	-1.34	-1.34	0 %100
77	MP5C	X	2.321	2.321	0 %100
78	MP5C	Z	-1.34	-1.34	0 %100
79	M82	X	1.677	1.677	0 %100
80	M82	Z	-.968	-.968	0 %100
81	M83	X	1.331	1.331	0 %100
82	M83	Z	-.769	-.769	0 %100
83	M84	X	.000589	.000589	0 %100
84	M84	Z	-.00034	-.00034	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	2.015	2.015	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	2.015	2.015	0	%100
4	A2	Z	0	0	0	%100
5	A5	X	1.999	1.999	0	%100
6	A5	Z	0	0	0	%100
7	A6	X	2.702	2.702	0	%100
8	A6	Z	0	0	0	%100
9	A7	X	0	0	0	%100
10	A7	Z	0	0	0	%100
11	A8	X	0	0	0	%100
12	A8	Z	0	0	0	%100
13	B26	X	.504	.504	0	%100
14	B26	Z	0	0	0	%100
15	B27	X	.504	.504	0	%100
16	B27	Z	0	0	0	%100
17	B30	X	1.999	1.999	0	%100
18	B30	Z	0	0	0	%100
19	B31	X	2.702	2.702	0	%100
20	B31	Z	0	0	0	%100
21	B32	X	1.813	1.813	0	%100
22	B32	Z	0	0	0	%100
23	B33	X	1.813	1.813	0	%100
24	B33	Z	0	0	0	%100
25	B80	X	2.416	2.416	0	%100
26	B80	Z	0	0	0	%100
27	B81	X	.483	.483	0	%100
28	B81	Z	0	0	0	%100
29	C51	X	.236	.236	0	%100
30	C51	Z	0	0	0	%100
31	C52	X	.236	.236	0	%100
32	C52	Z	0	0	0	%100
33	C55	X	1.999	1.999	0	%100
34	C55	Z	0	0	0	%100
35	C56	X	2.702	2.702	0	%100
36	C56	Z	0	0	0	%100
37	C57	X	2.135	2.135	0	%100
38	C57	Z	0	0	0	%100
39	C58	X	2.135	2.135	0	%100
40	C58	Z	0	0	0	%100
41	C78	X	1.075	1.075	0	%100
42	C78	Z	0	0	0	%100
43	C79	X	.111	.111	0	%100
44	C79	Z	0	0	0	%100
45	M76	X	.665	.665	0	%100
46	M76	Z	0	0	0	%100
47	M77	X	2.402	2.402	0	%100
48	M77	Z	0	0	0	%100
49	MP1A	X	2.418	2.418	0	%100
50	MP1A	Z	0	0	0	%100
51	MP1B	X	2.418	2.418	0	%100
52	MP1B	Z	0	0	0	%100
53	MP1C	X	2.418	2.418	0	%100
54	MP1C	Z	0	0	0	%100
55	MP2A	X	2.418	2.418	0	%100
56	MP2A	Z	0	0	0	%100
57	MP2B	X	2.418	2.418	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
58	MP2B	Z	0	0	0	%100
59	MP2C	X	2.418	2.418	0	%100
60	MP2C	Z	0	0	0	%100
61	MP3A	X	2.418	2.418	0	%100
62	MP3A	Z	0	0	0	%100
63	MP3B	X	2.418	2.418	0	%100
64	MP3B	Z	0	0	0	%100
65	MP3C	X	2.418	2.418	0	%100
66	MP3C	Z	0	0	0	%100
67	MP4A	X	2.418	2.418	0	%100
68	MP4A	Z	0	0	0	%100
69	MP4B	X	2.418	2.418	0	%100
70	MP4B	Z	0	0	0	%100
71	MP4C	X	2.418	2.418	0	%100
72	MP4C	Z	0	0	0	%100
73	MP5A	X	2.681	2.681	0	%100
74	MP5A	Z	0	0	0	%100
75	MP5B	X	2.681	2.681	0	%100
76	MP5B	Z	0	0	0	%100
77	MP5C	X	2.681	2.681	0	%100
78	MP5C	Z	0	0	0	%100
79	M82	X	2.409	2.409	0	%100
80	M82	Z	0	0	0	%100
81	M83	X	.365	.365	0	%100
82	M83	Z	0	0	0	%100
83	M84	X	.541	.541	0	%100
84	M84	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	1.309	1.309	0	%100
2	A1	Z	.756	.756	0	%100
3	A2	X	1.309	1.309	0	%100
4	A2	Z	.756	.756	0	%100
5	A5	X	1.731	1.731	0	%100
6	A5	Z	1	1	0	%100
7	A6	X	2.34	2.34	0	%100
8	A6	Z	1.351	1.351	0	%100
9	A7	X	.523	.523	0	%100
10	A7	Z	.302	.302	0	%100
11	A8	X	.523	.523	0	%100
12	A8	Z	.302	.302	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	0	0	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	0	0	0	%100
17	B30	X	1.731	1.731	0	%100
18	B30	Z	1	1	0	%100
19	B31	X	2.34	2.34	0	%100
20	B31	Z	1.351	1.351	0	%100
21	B32	X	2.094	2.094	0	%100
22	B32	Z	1.209	1.209	0	%100
23	B33	X	2.094	2.094	0	%100
24	B33	Z	1.209	1.209	0	%100
25	B80	X	1.624	1.624	0	%100
26	B80	Z	.938	.938	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
27	B81	X	.055	.055	0	%100
28	B81	Z	.032	.032	0	%100
29	C51	X	1.024	1.024	0	%100
30	C51	Z	.591	.591	0	%100
31	C52	X	1.024	1.024	0	%100
32	C52	Z	.591	.591	0	%100
33	C55	X	1.731	1.731	0	%100
34	C55	Z	1	1	0	%100
35	C56	X	2.34	2.34	0	%100
36	C56	Z	1.351	1.351	0	%100
37	C57	X	.865	.865	0	%100
38	C57	Z	.499	.499	0	%100
39	C58	X	.865	.865	0	%100
40	C58	Z	.499	.499	0	%100
41	C78	X	.096	.096	0	%100
42	C78	Z	.055	.055	0	%100
43	C79	X	.951	.951	0	%100
44	C79	Z	.549	.549	0	%100
45	M76	X	1.587	1.587	0	%100
46	M76	Z	.916	.916	0	%100
47	M77	X	1.431	1.431	0	%100
48	M77	Z	.826	.826	0	%100
49	MP1A	X	2.094	2.094	0	%100
50	MP1A	Z	1.209	1.209	0	%100
51	MP1B	X	2.094	2.094	0	%100
52	MP1B	Z	1.209	1.209	0	%100
53	MP1C	X	2.094	2.094	0	%100
54	MP1C	Z	1.209	1.209	0	%100
55	MP2A	X	2.094	2.094	0	%100
56	MP2A	Z	1.209	1.209	0	%100
57	MP2B	X	2.094	2.094	0	%100
58	MP2B	Z	1.209	1.209	0	%100
59	MP2C	X	2.094	2.094	0	%100
60	MP2C	Z	1.209	1.209	0	%100
61	MP3A	X	2.094	2.094	0	%100
62	MP3A	Z	1.209	1.209	0	%100
63	MP3B	X	2.094	2.094	0	%100
64	MP3B	Z	1.209	1.209	0	%100
65	MP3C	X	2.094	2.094	0	%100
66	MP3C	Z	1.209	1.209	0	%100
67	MP4A	X	2.094	2.094	0	%100
68	MP4A	Z	1.209	1.209	0	%100
69	MP4B	X	2.094	2.094	0	%100
70	MP4B	Z	1.209	1.209	0	%100
71	MP4C	X	2.094	2.094	0	%100
72	MP4C	Z	1.209	1.209	0	%100
73	MP5A	X	2.321	2.321	0	%100
74	MP5A	Z	1.34	1.34	0	%100
75	MP5B	X	2.321	2.321	0	%100
76	MP5B	Z	1.34	1.34	0	%100
77	MP5C	X	2.321	2.321	0	%100
78	MP5C	Z	1.34	1.34	0	%100
79	M82	X	1.456	1.456	0	%100
80	M82	Z	.841	.841	0	%100
81	M83	X	.032	.032	0	%100
82	M83	Z	.019	.019	0	%100
83	M84	X	1.465	1.465	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
84	M84	Z	.846	.846	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.252	.252	0	%100
2	A1	Z	.436	.436	0	%100
3	A2	X	.252	.252	0	%100
4	A2	Z	.436	.436	0	%100
5	A5	X	1	1	0	%100
6	A5	Z	1.731	1.731	0	%100
7	A6	X	1.351	1.351	0	%100
8	A6	Z	2.34	2.34	0	%100
9	A7	X	.907	.907	0	%100
10	A7	Z	1.57	1.57	0	%100
11	A8	X	.907	.907	0	%100
12	A8	Z	1.57	1.57	0	%100
13	B26	X	.252	.252	0	%100
14	B26	Z	.436	.436	0	%100
15	B27	X	.252	.252	0	%100
16	B27	Z	.436	.436	0	%100
17	B30	X	1	1	0	%100
18	B30	Z	1.731	1.731	0	%100
19	B31	X	1.351	1.351	0	%100
20	B31	Z	2.34	2.34	0	%100
21	B32	X	.907	.907	0	%100
22	B32	Z	1.57	1.57	0	%100
23	B33	X	.907	.907	0	%100
24	B33	Z	1.57	1.57	0	%100
25	B80	X	.337	.337	0	%100
26	B80	Z	.584	.584	0	%100
27	B81	X	.407	.407	0	%100
28	B81	Z	.705	.705	0	%100
29	C51	X	.977	.977	0	%100
30	C51	Z	1.692	1.692	0	%100
31	C52	X	.977	.977	0	%100
32	C52	Z	1.692	1.692	0	%100
33	C55	X	1	1	0	%100
34	C55	Z	1.731	1.731	0	%100
35	C56	X	1.351	1.351	0	%100
36	C56	Z	2.34	2.34	0	%100
37	C57	X	.036	.036	0	%100
38	C57	Z	.063	.063	0	%100
39	C58	X	.036	.036	0	%100
40	C58	Z	.063	.063	0	%100
41	C78	X	.126	.126	0	%100
42	C78	Z	.218	.218	0	%100
43	C79	X	1.098	1.098	0	%100
44	C79	Z	1.902	1.902	0	%100
45	M76	X	1.209	1.209	0	%100
46	M76	Z	2.094	2.094	0	%100
47	M77	X	.241	.241	0	%100
48	M77	Z	.418	.418	0	%100
49	MP1A	X	1.209	1.209	0	%100
50	MP1A	Z	2.094	2.094	0	%100
51	MP1B	X	1.209	1.209	0	%100
52	MP1B	Z	2.094	2.094	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
53	MP1C	X	1.209	1.209	0	%100
54	MP1C	Z	2.094	2.094	0	%100
55	MP2A	X	1.209	1.209	0	%100
56	MP2A	Z	2.094	2.094	0	%100
57	MP2B	X	1.209	1.209	0	%100
58	MP2B	Z	2.094	2.094	0	%100
59	MP2C	X	1.209	1.209	0	%100
60	MP2C	Z	2.094	2.094	0	%100
61	MP3A	X	1.209	1.209	0	%100
62	MP3A	Z	2.094	2.094	0	%100
63	MP3B	X	1.209	1.209	0	%100
64	MP3B	Z	2.094	2.094	0	%100
65	MP3C	X	1.209	1.209	0	%100
66	MP3C	Z	2.094	2.094	0	%100
67	MP4A	X	1.209	1.209	0	%100
68	MP4A	Z	2.094	2.094	0	%100
69	MP4B	X	1.209	1.209	0	%100
70	MP4B	Z	2.094	2.094	0	%100
71	MP4C	X	1.209	1.209	0	%100
72	MP4C	Z	2.094	2.094	0	%100
73	MP5A	X	1.34	1.34	0	%100
74	MP5A	Z	2.321	2.321	0	%100
75	MP5B	X	1.34	1.34	0	%100
76	MP5B	Z	2.321	2.321	0	%100
77	MP5C	X	1.34	1.34	0	%100
78	MP5C	Z	2.321	2.321	0	%100
79	M82	X	.241	.241	0	%100
80	M82	Z	.417	.417	0	%100
81	M83	X	.44	.44	0	%100
82	M83	Z	.763	.763	0	%100
83	M84	X	1.15	1.15	0	%100
84	M84	Z	1.992	1.992	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A5	X	0	0	0	%100
6	A5	Z	1.999	1.999	0	%100
7	A6	X	0	0	0	%100
8	A6	Z	2.702	2.702	0	%100
9	A7	X	0	0	0	%100
10	A7	Z	2.418	2.418	0	%100
11	A8	X	0	0	0	%100
12	A8	Z	2.418	2.418	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	1.511	1.511	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	1.511	1.511	0	%100
17	B30	X	0	0	0	%100
18	B30	Z	1.999	1.999	0	%100
19	B31	X	0	0	0	%100
20	B31	Z	2.702	2.702	0	%100
21	B32	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
22	B32	Z	.604	.604	0 %100
23	B33	X	0	0	0 %100
24	B33	Z	.604	.604	0 %100
25	B80	X	0	0	0 %100
26	B80	Z	.015	.015	0 %100
27	B81	X	0	0	0 %100
28	B81	Z	1.983	1.983	0 %100
29	C51	X	0	0	0 %100
30	C51	Z	1.779	1.779	0 %100
31	C52	X	0	0	0 %100
32	C52	Z	1.779	1.779	0 %100
33	C55	X	0	0	0 %100
34	C55	Z	1.999	1.999	0 %100
35	C56	X	0	0	0 %100
36	C56	Z	2.702	2.702	0 %100
37	C57	X	0	0	0 %100
38	C57	Z	.283	.283	0 %100
39	C58	X	0	0	0 %100
40	C58	Z	.283	.283	0 %100
41	C78	X	0	0	0 %100
42	C78	Z	1.356	1.356	0 %100
43	C79	X	0	0	0 %100
44	C79	Z	2.307	2.307	0 %100
45	M76	X	0	0	0 %100
46	M76	Z	1.835	1.835	0 %100
47	M77	X	0	0	0 %100
48	M77	Z	.063	.063	0 %100
49	MP1A	X	0	0	0 %100
50	MP1A	Z	2.418	2.418	0 %100
51	MP1B	X	0	0	0 %100
52	MP1B	Z	2.418	2.418	0 %100
53	MP1C	X	0	0	0 %100
54	MP1C	Z	2.418	2.418	0 %100
55	MP2A	X	0	0	0 %100
56	MP2A	Z	2.418	2.418	0 %100
57	MP2B	X	0	0	0 %100
58	MP2B	Z	2.418	2.418	0 %100
59	MP2C	X	0	0	0 %100
60	MP2C	Z	2.418	2.418	0 %100
61	MP3A	X	0	0	0 %100
62	MP3A	Z	2.418	2.418	0 %100
63	MP3B	X	0	0	0 %100
64	MP3B	Z	2.418	2.418	0 %100
65	MP3C	X	0	0	0 %100
66	MP3C	Z	2.418	2.418	0 %100
67	MP4A	X	0	0	0 %100
68	MP4A	Z	2.418	2.418	0 %100
69	MP4B	X	0	0	0 %100
70	MP4B	Z	2.418	2.418	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	2.418	2.418	0 %100
73	MP5A	X	0	0	0 %100
74	MP5A	Z	2.681	2.681	0 %100
75	MP5B	X	0	0	0 %100
76	MP5B	Z	2.681	2.681	0 %100
77	MP5C	X	0	0	0 %100
78	MP5C	Z	2.681	2.681	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
79	M82	X	0	0	0	%100
80	M82	Z	.009	.009	0	%100
81	M83	X	0	0	0	%100
82	M83	Z	2.052	2.052	0	%100
83	M84	X	0	0	0	%100
84	M84	Z	1.76	1.76	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.252	-.252	0	%100
2	A1	Z	.436	.436	0	%100
3	A2	X	-.252	-.252	0	%100
4	A2	Z	.436	.436	0	%100
5	A5	X	-1	-1	0	%100
6	A5	Z	1.731	1.731	0	%100
7	A6	X	-1.351	-1.351	0	%100
8	A6	Z	2.34	2.34	0	%100
9	A7	X	-.907	-.907	0	%100
10	A7	Z	1.57	1.57	0	%100
11	A8	X	-.907	-.907	0	%100
12	A8	Z	1.57	1.57	0	%100
13	B26	X	-1.008	-1.008	0	%100
14	B26	Z	1.745	1.745	0	%100
15	B27	X	-1.008	-1.008	0	%100
16	B27	Z	1.745	1.745	0	%100
17	B30	X	-1	-1	0	%100
18	B30	Z	1.731	1.731	0	%100
19	B31	X	-1.351	-1.351	0	%100
20	B31	Z	2.34	2.34	0	%100
21	B32	X	0	0	0	%100
22	B32	Z	0	0	0	%100
23	B33	X	0	0	0	%100
24	B33	Z	0	0	0	%100
25	B80	X	-.278	-.278	0	%100
26	B80	Z	.481	.481	0	%100
27	B81	X	-1.201	-1.201	0	%100
28	B81	Z	2.08	2.08	0	%100
29	C51	X	-.416	-.416	0	%100
30	C51	Z	.721	.721	0	%100
31	C52	X	-.416	-.416	0	%100
32	C52	Z	.721	.721	0	%100
33	C55	X	-1	-1	0	%100
34	C55	Z	1.731	1.731	0	%100
35	C56	X	-1.351	-1.351	0	%100
36	C56	Z	2.34	2.34	0	%100
37	C57	X	-.709	-.709	0	%100
38	C57	Z	1.229	1.229	0	%100
39	C58	X	-.709	-.709	0	%100
40	C58	Z	1.229	1.229	0	%100
41	C78	X	-1.16	-1.16	0	%100
42	C78	Z	2.009	2.009	0	%100
43	C79	X	-.66	-.66	0	%100
44	C79	Z	1.143	1.143	0	%100
45	M76	X	-.334	-.334	0	%100
46	M76	Z	.578	.578	0	%100
47	M77	X	-.407	-.407	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
48	M77	Z	.705	.705	0 %100
49	MP1A	X	-1.209	-1.209	0 %100
50	MP1A	Z	2.094	2.094	0 %100
51	MP1B	X	-1.209	-1.209	0 %100
52	MP1B	Z	2.094	2.094	0 %100
53	MP1C	X	-1.209	-1.209	0 %100
54	MP1C	Z	2.094	2.094	0 %100
55	MP2A	X	-1.209	-1.209	0 %100
56	MP2A	Z	2.094	2.094	0 %100
57	MP2B	X	-1.209	-1.209	0 %100
58	MP2B	Z	2.094	2.094	0 %100
59	MP2C	X	-1.209	-1.209	0 %100
60	MP2C	Z	2.094	2.094	0 %100
61	MP3A	X	-1.209	-1.209	0 %100
62	MP3A	Z	2.094	2.094	0 %100
63	MP3B	X	-1.209	-1.209	0 %100
64	MP3B	Z	2.094	2.094	0 %100
65	MP3C	X	-1.209	-1.209	0 %100
66	MP3C	Z	2.094	2.094	0 %100
67	MP4A	X	-1.209	-1.209	0 %100
68	MP4A	Z	2.094	2.094	0 %100
69	MP4B	X	-1.209	-1.209	0 %100
70	MP4B	Z	2.094	2.094	0 %100
71	MP4C	X	-1.209	-1.209	0 %100
72	MP4C	Z	2.094	2.094	0 %100
73	MP5A	X	-1.34	-1.34	0 %100
74	MP5A	Z	2.321	2.321	0 %100
75	MP5B	X	-1.34	-1.34	0 %100
76	MP5B	Z	2.321	2.321	0 %100
77	MP5C	X	-1.34	-1.34	0 %100
78	MP5C	Z	2.321	2.321	0 %100
79	M82	X	-.368	-.368	0 %100
80	M82	Z	.638	.638	0 %100
81	M83	X	-1.19	-1.19	0 %100
82	M83	Z	2.062	2.062	0 %100
83	M84	X	-.305	-.305	0 %100
84	M84	Z	.528	.528	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-1.309	-1.309	0 %100
2	A1	Z	.756	.756	0 %100
3	A2	X	-1.309	-1.309	0 %100
4	A2	Z	.756	.756	0 %100
5	A5	X	-1.731	-1.731	0 %100
6	A5	Z	1	1	0 %100
7	A6	X	-2.34	-2.34	0 %100
8	A6	Z	1.351	1.351	0 %100
9	A7	X	-.523	-.523	0 %100
10	A7	Z	.302	.302	0 %100
11	A8	X	-.523	-.523	0 %100
12	A8	Z	.302	.302	0 %100
13	B26	X	-1.309	-1.309	0 %100
14	B26	Z	.756	.756	0 %100
15	B27	X	-1.309	-1.309	0 %100
16	B27	Z	.756	.756	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
17	B30	X	-1.731	-1.731	0 %100
18	B30	Z	1	1	0 %100
19	B31	X	-2.34	-2.34	0 %100
20	B31	Z	1.351	1.351	0 %100
21	B32	X	-.523	-.523	0 %100
22	B32	Z	.302	.302	0 %100
23	B33	X	-.523	-.523	0 %100
24	B33	Z	.302	.302	0 %100
25	B80	X	-1.521	-1.521	0 %100
26	B80	Z	.878	.878	0 %100
27	B81	X	-1.431	-1.431	0 %100
28	B81	Z	.826	.826	0 %100
29	C51	X	-.053	-.053	0 %100
30	C51	Z	.03	.03	0 %100
31	C52	X	-.053	-.053	0 %100
32	C52	Z	.03	.03	0 %100
33	C55	X	-1.731	-1.731	0 %100
34	C55	Z	1	1	0 %100
35	C56	X	-2.34	-2.34	0 %100
36	C56	Z	1.351	1.351	0 %100
37	C57	X	-2.031	-2.031	0 %100
38	C57	Z	1.172	1.172	0 %100
39	C58	X	-2.031	-2.031	0 %100
40	C58	Z	1.172	1.172	0 %100
41	C78	X	-1.887	-1.887	0 %100
42	C78	Z	1.09	1.09	0 %100
43	C79	X	-.192	-.192	0 %100
44	C79	Z	.111	.111	0 %100
45	M76	X	-.071	-.071	0 %100
46	M76	Z	.041	.041	0 %100
47	M77	X	-1.717	-1.717	0 %100
48	M77	Z	.991	.991	0 %100
49	MP1A	X	-2.094	-2.094	0 %100
50	MP1A	Z	1.209	1.209	0 %100
51	MP1B	X	-2.094	-2.094	0 %100
52	MP1B	Z	1.209	1.209	0 %100
53	MP1C	X	-2.094	-2.094	0 %100
54	MP1C	Z	1.209	1.209	0 %100
55	MP2A	X	-2.094	-2.094	0 %100
56	MP2A	Z	1.209	1.209	0 %100
57	MP2B	X	-2.094	-2.094	0 %100
58	MP2B	Z	1.209	1.209	0 %100
59	MP2C	X	-2.094	-2.094	0 %100
60	MP2C	Z	1.209	1.209	0 %100
61	MP3A	X	-2.094	-2.094	0 %100
62	MP3A	Z	1.209	1.209	0 %100
63	MP3B	X	-2.094	-2.094	0 %100
64	MP3B	Z	1.209	1.209	0 %100
65	MP3C	X	-2.094	-2.094	0 %100
66	MP3C	Z	1.209	1.209	0 %100
67	MP4A	X	-2.094	-2.094	0 %100
68	MP4A	Z	1.209	1.209	0 %100
69	MP4B	X	-2.094	-2.094	0 %100
70	MP4B	Z	1.209	1.209	0 %100
71	MP4C	X	-2.094	-2.094	0 %100
72	MP4C	Z	1.209	1.209	0 %100
73	MP5A	X	-2.321	-2.321	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
74	MP5A	Z	1.34	1.34	0 %100
75	MP5B	X	-2.321	-2.321	0 %100
76	MP5B	Z	1.34	1.34	0 %100
77	MP5C	X	-2.321	-2.321	0 %100
78	MP5C	Z	1.34	1.34	0 %100
79	M82	X	-1.677	-1.677	0 %100
80	M82	Z	.968	.968	0 %100
81	M83	X	-1.331	-1.331	0 %100
82	M83	Z	.769	.769	0 %100
83	M84	X	-.000589	-.000589	0 %100
84	M84	Z	.00034	.00034	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-2.015	-2.015	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	-2.015	-2.015	0 %100
4	A2	Z	0	0	0 %100
5	A5	X	-1.999	-1.999	0 %100
6	A5	Z	0	0	0 %100
7	A6	X	-2.702	-2.702	0 %100
8	A6	Z	0	0	0 %100
9	A7	X	0	0	0 %100
10	A7	Z	0	0	0 %100
11	A8	X	0	0	0 %100
12	A8	Z	0	0	0 %100
13	B26	X	-.504	-.504	0 %100
14	B26	Z	0	0	0 %100
15	B27	X	-.504	-.504	0 %100
16	B27	Z	0	0	0 %100
17	B30	X	-1.999	-1.999	0 %100
18	B30	Z	0	0	0 %100
19	B31	X	-2.702	-2.702	0 %100
20	B31	Z	0	0	0 %100
21	B32	X	-1.813	-1.813	0 %100
22	B32	Z	0	0	0 %100
23	B33	X	-1.813	-1.813	0 %100
24	B33	Z	0	0	0 %100
25	B80	X	-2.416	-2.416	0 %100
26	B80	Z	0	0	0 %100
27	B81	X	-.483	-.483	0 %100
28	B81	Z	0	0	0 %100
29	C51	X	-.236	-.236	0 %100
30	C51	Z	0	0	0 %100
31	C52	X	-.236	-.236	0 %100
32	C52	Z	0	0	0 %100
33	C55	X	-1.999	-1.999	0 %100
34	C55	Z	0	0	0 %100
35	C56	X	-2.702	-2.702	0 %100
36	C56	Z	0	0	0 %100
37	C57	X	-2.135	-2.135	0 %100
38	C57	Z	0	0	0 %100
39	C58	X	-2.135	-2.135	0 %100
40	C58	Z	0	0	0 %100
41	C78	X	-1.075	-1.075	0 %100
42	C78	Z	0	0	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
43	C79	X	-1.111	-1.111	0 %100
44	C79	Z	0	0	0 %100
45	M76	X	-0.665	-0.665	0 %100
46	M76	Z	0	0	0 %100
47	M77	X	-2.402	-2.402	0 %100
48	M77	Z	0	0	0 %100
49	MP1A	X	-2.418	-2.418	0 %100
50	MP1A	Z	0	0	0 %100
51	MP1B	X	-2.418	-2.418	0 %100
52	MP1B	Z	0	0	0 %100
53	MP1C	X	-2.418	-2.418	0 %100
54	MP1C	Z	0	0	0 %100
55	MP2A	X	-2.418	-2.418	0 %100
56	MP2A	Z	0	0	0 %100
57	MP2B	X	-2.418	-2.418	0 %100
58	MP2B	Z	0	0	0 %100
59	MP2C	X	-2.418	-2.418	0 %100
60	MP2C	Z	0	0	0 %100
61	MP3A	X	-2.418	-2.418	0 %100
62	MP3A	Z	0	0	0 %100
63	MP3B	X	-2.418	-2.418	0 %100
64	MP3B	Z	0	0	0 %100
65	MP3C	X	-2.418	-2.418	0 %100
66	MP3C	Z	0	0	0 %100
67	MP4A	X	-2.418	-2.418	0 %100
68	MP4A	Z	0	0	0 %100
69	MP4B	X	-2.418	-2.418	0 %100
70	MP4B	Z	0	0	0 %100
71	MP4C	X	-2.418	-2.418	0 %100
72	MP4C	Z	0	0	0 %100
73	MP5A	X	-2.681	-2.681	0 %100
74	MP5A	Z	0	0	0 %100
75	MP5B	X	-2.681	-2.681	0 %100
76	MP5B	Z	0	0	0 %100
77	MP5C	X	-2.681	-2.681	0 %100
78	MP5C	Z	0	0	0 %100
79	M82	X	-2.409	-2.409	0 %100
80	M82	Z	0	0	0 %100
81	M83	X	-0.365	-0.365	0 %100
82	M83	Z	0	0	0 %100
83	M84	X	-0.541	-0.541	0 %100
84	M84	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-1.309	-1.309	0 %100
2	A1	Z	-0.756	-0.756	0 %100
3	A2	X	-1.309	-1.309	0 %100
4	A2	Z	-0.756	-0.756	0 %100
5	A5	X	-1.731	-1.731	0 %100
6	A5	Z	-1	-1	0 %100
7	A6	X	-2.34	-2.34	0 %100
8	A6	Z	-1.351	-1.351	0 %100
9	A7	X	-0.523	-0.523	0 %100
10	A7	Z	-0.302	-0.302	0 %100
11	A8	X	-0.523	-0.523	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
12	A8	Z	-0.302	-0.302	0 %100
13	B26	X	0	0	0 %100
14	B26	Z	0	0	0 %100
15	B27	X	0	0	0 %100
16	B27	Z	0	0	0 %100
17	B30	X	-1.731	-1.731	0 %100
18	B30	Z	-1	-1	0 %100
19	B31	X	-2.34	-2.34	0 %100
20	B31	Z	-1.351	-1.351	0 %100
21	B32	X	-2.094	-2.094	0 %100
22	B32	Z	-1.209	-1.209	0 %100
23	B33	X	-2.094	-2.094	0 %100
24	B33	Z	-1.209	-1.209	0 %100
25	B80	X	-1.624	-1.624	0 %100
26	B80	Z	-0.938	-0.938	0 %100
27	B81	X	-0.055	-0.055	0 %100
28	B81	Z	-0.032	-0.032	0 %100
29	C51	X	-1.024	-1.024	0 %100
30	C51	Z	-0.591	-0.591	0 %100
31	C52	X	-1.024	-1.024	0 %100
32	C52	Z	-0.591	-0.591	0 %100
33	C55	X	-1.731	-1.731	0 %100
34	C55	Z	-1	-1	0 %100
35	C56	X	-2.34	-2.34	0 %100
36	C56	Z	-1.351	-1.351	0 %100
37	C57	X	-0.865	-0.865	0 %100
38	C57	Z	-0.499	-0.499	0 %100
39	C58	X	-0.865	-0.865	0 %100
40	C58	Z	-0.499	-0.499	0 %100
41	C78	X	-0.096	-0.096	0 %100
42	C78	Z	-0.055	-0.055	0 %100
43	C79	X	-0.951	-0.951	0 %100
44	C79	Z	-0.549	-0.549	0 %100
45	M76	X	-1.587	-1.587	0 %100
46	M76	Z	-0.916	-0.916	0 %100
47	M77	X	-1.431	-1.431	0 %100
48	M77	Z	-0.826	-0.826	0 %100
49	MP1A	X	-2.094	-2.094	0 %100
50	MP1A	Z	-1.209	-1.209	0 %100
51	MP1B	X	-2.094	-2.094	0 %100
52	MP1B	Z	-1.209	-1.209	0 %100
53	MP1C	X	-2.094	-2.094	0 %100
54	MP1C	Z	-1.209	-1.209	0 %100
55	MP2A	X	-2.094	-2.094	0 %100
56	MP2A	Z	-1.209	-1.209	0 %100
57	MP2B	X	-2.094	-2.094	0 %100
58	MP2B	Z	-1.209	-1.209	0 %100
59	MP2C	X	-2.094	-2.094	0 %100
60	MP2C	Z	-1.209	-1.209	0 %100
61	MP3A	X	-2.094	-2.094	0 %100
62	MP3A	Z	-1.209	-1.209	0 %100
63	MP3B	X	-2.094	-2.094	0 %100
64	MP3B	Z	-1.209	-1.209	0 %100
65	MP3C	X	-2.094	-2.094	0 %100
66	MP3C	Z	-1.209	-1.209	0 %100
67	MP4A	X	-2.094	-2.094	0 %100
68	MP4A	Z	-1.209	-1.209	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
69	MP4B	X	-2.094	-2.094	0	%100
70	MP4B	Z	-1.209	-1.209	0	%100
71	MP4C	X	-2.094	-2.094	0	%100
72	MP4C	Z	-1.209	-1.209	0	%100
73	MP5A	X	-2.321	-2.321	0	%100
74	MP5A	Z	-1.34	-1.34	0	%100
75	MP5B	X	-2.321	-2.321	0	%100
76	MP5B	Z	-1.34	-1.34	0	%100
77	MP5C	X	-2.321	-2.321	0	%100
78	MP5C	Z	-1.34	-1.34	0	%100
79	M82	X	-1.456	-1.456	0	%100
80	M82	Z	-.841	-.841	0	%100
81	M83	X	-.032	-.032	0	%100
82	M83	Z	-.019	-.019	0	%100
83	M84	X	-1.465	-1.465	0	%100
84	M84	Z	-.846	-.846	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.252	-.252	0	%100
2	A1	Z	-.436	-.436	0	%100
3	A2	X	-.252	-.252	0	%100
4	A2	Z	-.436	-.436	0	%100
5	A5	X	-1	-1	0	%100
6	A5	Z	-1.731	-1.731	0	%100
7	A6	X	-1.351	-1.351	0	%100
8	A6	Z	-2.34	-2.34	0	%100
9	A7	X	-.907	-.907	0	%100
10	A7	Z	-1.57	-1.57	0	%100
11	A8	X	-.907	-.907	0	%100
12	A8	Z	-1.57	-1.57	0	%100
13	B26	X	-.252	-.252	0	%100
14	B26	Z	-.436	-.436	0	%100
15	B27	X	-.252	-.252	0	%100
16	B27	Z	-.436	-.436	0	%100
17	B30	X	-1	-1	0	%100
18	B30	Z	-1.731	-1.731	0	%100
19	B31	X	-1.351	-1.351	0	%100
20	B31	Z	-2.34	-2.34	0	%100
21	B32	X	-.907	-.907	0	%100
22	B32	Z	-1.57	-1.57	0	%100
23	B33	X	-.907	-.907	0	%100
24	B33	Z	-1.57	-1.57	0	%100
25	B80	X	-.337	-.337	0	%100
26	B80	Z	-.584	-.584	0	%100
27	B81	X	-.407	-.407	0	%100
28	B81	Z	-.705	-.705	0	%100
29	C51	X	-.977	-.977	0	%100
30	C51	Z	-1.692	-1.692	0	%100
31	C52	X	-.977	-.977	0	%100
32	C52	Z	-1.692	-1.692	0	%100
33	C55	X	-1	-1	0	%100
34	C55	Z	-1.731	-1.731	0	%100
35	C56	X	-1.351	-1.351	0	%100
36	C56	Z	-2.34	-2.34	0	%100
37	C57	X	-.036	-.036	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
38	C57	Z	-0.063	-0.063	0 %100
39	C58	X	-0.036	-0.036	0 %100
40	C58	Z	-0.063	-0.063	0 %100
41	C78	X	-0.126	-0.126	0 %100
42	C78	Z	-0.218	-0.218	0 %100
43	C79	X	-1.098	-1.098	0 %100
44	C79	Z	-1.902	-1.902	0 %100
45	M76	X	-1.209	-1.209	0 %100
46	M76	Z	-2.094	-2.094	0 %100
47	M77	X	-0.241	-0.241	0 %100
48	M77	Z	-0.418	-0.418	0 %100
49	MP1A	X	-1.209	-1.209	0 %100
50	MP1A	Z	-2.094	-2.094	0 %100
51	MP1B	X	-1.209	-1.209	0 %100
52	MP1B	Z	-2.094	-2.094	0 %100
53	MP1C	X	-1.209	-1.209	0 %100
54	MP1C	Z	-2.094	-2.094	0 %100
55	MP2A	X	-1.209	-1.209	0 %100
56	MP2A	Z	-2.094	-2.094	0 %100
57	MP2B	X	-1.209	-1.209	0 %100
58	MP2B	Z	-2.094	-2.094	0 %100
59	MP2C	X	-1.209	-1.209	0 %100
60	MP2C	Z	-2.094	-2.094	0 %100
61	MP3A	X	-1.209	-1.209	0 %100
62	MP3A	Z	-2.094	-2.094	0 %100
63	MP3B	X	-1.209	-1.209	0 %100
64	MP3B	Z	-2.094	-2.094	0 %100
65	MP3C	X	-1.209	-1.209	0 %100
66	MP3C	Z	-2.094	-2.094	0 %100
67	MP4A	X	-1.209	-1.209	0 %100
68	MP4A	Z	-2.094	-2.094	0 %100
69	MP4B	X	-1.209	-1.209	0 %100
70	MP4B	Z	-2.094	-2.094	0 %100
71	MP4C	X	-1.209	-1.209	0 %100
72	MP4C	Z	-2.094	-2.094	0 %100
73	MP5A	X	-1.34	-1.34	0 %100
74	MP5A	Z	-2.321	-2.321	0 %100
75	MP5B	X	-1.34	-1.34	0 %100
76	MP5B	Z	-2.321	-2.321	0 %100
77	MP5C	X	-1.34	-1.34	0 %100
78	MP5C	Z	-2.321	-2.321	0 %100
79	M82	X	-0.241	-0.241	0 %100
80	M82	Z	-0.417	-0.417	0 %100
81	M83	X	-0.44	-0.44	0 %100
82	M83	Z	-0.763	-0.763	0 %100
83	M84	X	-1.15	-1.15	0 %100
84	M84	Z	-1.992	-1.992	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	0	0	0 %100
5	A5	X	0	0	0 %100
6	A5	Z	-0.367	-0.367	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	A6	X	0	0	0	%100
8	A6	Z	-.552	-.552	0	%100
9	A7	X	0	0	0	%100
10	A7	Z	-.449	-.449	0	%100
11	A8	X	0	0	0	%100
12	A8	Z	-.449	-.449	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	-.319	-.319	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	-.319	-.319	0	%100
17	B30	X	0	0	0	%100
18	B30	Z	-.367	-.367	0	%100
19	B31	X	0	0	0	%100
20	B31	Z	-.552	-.552	0	%100
21	B32	X	0	0	0	%100
22	B32	Z	-.112	-.112	0	%100
23	B33	X	0	0	0	%100
24	B33	Z	-.112	-.112	0	%100
25	B80	X	0	0	0	%100
26	B80	Z	-.003	-.003	0	%100
27	B81	X	0	0	0	%100
28	B81	Z	-.369	-.369	0	%100
29	C51	X	0	0	0	%100
30	C51	Z	-.376	-.376	0	%100
31	C52	X	0	0	0	%100
32	C52	Z	-.376	-.376	0	%100
33	C55	X	0	0	0	%100
34	C55	Z	-.367	-.367	0	%100
35	C56	X	0	0	0	%100
36	C56	Z	-.552	-.552	0	%100
37	C57	X	0	0	0	%100
38	C57	Z	-.053	-.053	0	%100
39	C58	X	0	0	0	%100
40	C58	Z	-.053	-.053	0	%100
41	C78	X	0	0	0	%100
42	C78	Z	-.252	-.252	0	%100
43	C79	X	0	0	0	%100
44	C79	Z	-.429	-.429	0	%100
45	M76	X	0	0	0	%100
46	M76	Z	-.341	-.341	0	%100
47	M77	X	0	0	0	%100
48	M77	Z	-.012	-.012	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	-.449	-.449	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	-.449	-.449	0	%100
53	MP1C	X	0	0	0	%100
54	MP1C	Z	-.449	-.449	0	%100
55	MP2A	X	0	0	0	%100
56	MP2A	Z	-.449	-.449	0	%100
57	MP2B	X	0	0	0	%100
58	MP2B	Z	-.449	-.449	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-.449	-.449	0	%100
61	MP3A	X	0	0	0	%100
62	MP3A	Z	-.449	-.449	0	%100
63	MP3B	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
64	MP3B	Z	-.449	-.449	0 %100
65	MP3C	X	0	0	0 %100
66	MP3C	Z	-.449	-.449	0 %100
67	MP4A	X	0	0	0 %100
68	MP4A	Z	-.449	-.449	0 %100
69	MP4B	X	0	0	0 %100
70	MP4B	Z	-.449	-.449	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	-.449	-.449	0 %100
73	MP5A	X	0	0	0 %100
74	MP5A	Z	-.544	-.544	0 %100
75	MP5B	X	0	0	0 %100
76	MP5B	Z	-.544	-.544	0 %100
77	MP5C	X	0	0	0 %100
78	MP5C	Z	-.544	-.544	0 %100
79	M82	X	0	0	0 %100
80	M82	Z	-.002	-.002	0 %100
81	M83	X	0	0	0 %100
82	M83	Z	-.381	-.381	0 %100
83	M84	X	0	0	0 %100
84	M84	Z	-.323	-.323	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.053	.053	0 %100
2	A1	Z	-.092	-.092	0 %100
3	A2	X	.053	.053	0 %100
4	A2	Z	-.092	-.092	0 %100
5	A5	X	.184	.184	0 %100
6	A5	Z	-.318	-.318	0 %100
7	A6	X	.276	.276	0 %100
8	A6	Z	-.478	-.478	0 %100
9	A7	X	.169	.169	0 %100
10	A7	Z	-.292	-.292	0 %100
11	A8	X	.169	.169	0 %100
12	A8	Z	-.292	-.292	0 %100
13	B26	X	.213	.213	0 %100
14	B26	Z	-.369	-.369	0 %100
15	B27	X	.213	.213	0 %100
16	B27	Z	-.369	-.369	0 %100
17	B30	X	.184	.184	0 %100
18	B30	Z	-.318	-.318	0 %100
19	B31	X	.276	.276	0 %100
20	B31	Z	-.478	-.478	0 %100
21	B32	X	0	0	0 %100
22	B32	Z	0	0	0 %100
23	B33	X	0	0	0 %100
24	B33	Z	0	0	0 %100
25	B80	X	.052	.052	0 %100
26	B80	Z	-.089	-.089	0 %100
27	B81	X	.223	.223	0 %100
28	B81	Z	-.387	-.387	0 %100
29	C51	X	.088	.088	0 %100
30	C51	Z	-.152	-.152	0 %100
31	C52	X	.088	.088	0 %100
32	C52	Z	-.152	-.152	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
33	C55	X	.184	.184	0 %100
34	C55	Z	-.318	-.318	0 %100
35	C56	X	.276	.276	0 %100
36	C56	Z	-.478	-.478	0 %100
37	C57	X	.132	.132	0 %100
38	C57	Z	-.228	-.228	0 %100
39	C58	X	.132	.132	0 %100
40	C58	Z	-.228	-.228	0 %100
41	C78	X	.216	.216	0 %100
42	C78	Z	-.373	-.373	0 %100
43	C79	X	.123	.123	0 %100
44	C79	Z	-.212	-.212	0 %100
45	M76	X	.062	.062	0 %100
46	M76	Z	-.107	-.107	0 %100
47	M77	X	.076	.076	0 %100
48	M77	Z	-.131	-.131	0 %100
49	MP1A	X	.225	.225	0 %100
50	MP1A	Z	-.389	-.389	0 %100
51	MP1B	X	.225	.225	0 %100
52	MP1B	Z	-.389	-.389	0 %100
53	MP1C	X	.225	.225	0 %100
54	MP1C	Z	-.389	-.389	0 %100
55	MP2A	X	.225	.225	0 %100
56	MP2A	Z	-.389	-.389	0 %100
57	MP2B	X	.225	.225	0 %100
58	MP2B	Z	-.389	-.389	0 %100
59	MP2C	X	.225	.225	0 %100
60	MP2C	Z	-.389	-.389	0 %100
61	MP3A	X	.225	.225	0 %100
62	MP3A	Z	-.389	-.389	0 %100
63	MP3B	X	.225	.225	0 %100
64	MP3B	Z	-.389	-.389	0 %100
65	MP3C	X	.225	.225	0 %100
66	MP3C	Z	-.389	-.389	0 %100
67	MP4A	X	.225	.225	0 %100
68	MP4A	Z	-.389	-.389	0 %100
69	MP4B	X	.225	.225	0 %100
70	MP4B	Z	-.389	-.389	0 %100
71	MP4C	X	.225	.225	0 %100
72	MP4C	Z	-.389	-.389	0 %100
73	MP5A	X	.272	.272	0 %100
74	MP5A	Z	-.471	-.471	0 %100
75	MP5B	X	.272	.272	0 %100
76	MP5B	Z	-.471	-.471	0 %100
77	MP5C	X	.272	.272	0 %100
78	MP5C	Z	-.471	-.471	0 %100
79	M82	X	.068	.068	0 %100
80	M82	Z	-.119	-.119	0 %100
81	M83	X	.221	.221	0 %100
82	M83	Z	-.383	-.383	0 %100
83	M84	X	.056	.056	0 %100
84	M84	Z	-.097	-.097	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.277	.277	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
2	A1	Z	-.16	-.16	0 %100
3	A2	X	.277	.277	0 %100
4	A2	Z	-.16	-.16	0 %100
5	A5	X	.318	.318	0 %100
6	A5	Z	-.184	-.184	0 %100
7	A6	X	.478	.478	0 %100
8	A6	Z	-.276	-.276	0 %100
9	A7	X	.097	.097	0 %100
10	A7	Z	-.056	-.056	0 %100
11	A8	X	.097	.097	0 %100
12	A8	Z	-.056	-.056	0 %100
13	B26	X	.277	.277	0 %100
14	B26	Z	-.16	-.16	0 %100
15	B27	X	.277	.277	0 %100
16	B27	Z	-.16	-.16	0 %100
17	B30	X	.318	.318	0 %100
18	B30	Z	-.184	-.184	0 %100
19	B31	X	.478	.478	0 %100
20	B31	Z	-.276	-.276	0 %100
21	B32	X	.097	.097	0 %100
22	B32	Z	-.056	-.056	0 %100
23	B33	X	.097	.097	0 %100
24	B33	Z	-.056	-.056	0 %100
25	B80	X	.283	.283	0 %100
26	B80	Z	-.163	-.163	0 %100
27	B81	X	.266	.266	0 %100
28	B81	Z	-.154	-.154	0 %100
29	C51	X	.011	.011	0 %100
30	C51	Z	-.006	-.006	0 %100
31	C52	X	.011	.011	0 %100
32	C52	Z	-.006	-.006	0 %100
33	C55	X	.318	.318	0 %100
34	C55	Z	-.184	-.184	0 %100
35	C56	X	.478	.478	0 %100
36	C56	Z	-.276	-.276	0 %100
37	C57	X	.377	.377	0 %100
38	C57	Z	-.218	-.218	0 %100
39	C58	X	.377	.377	0 %100
40	C58	Z	-.218	-.218	0 %100
41	C78	X	.351	.351	0 %100
42	C78	Z	-.203	-.203	0 %100
43	C79	X	.036	.036	0 %100
44	C79	Z	-.021	-.021	0 %100
45	M76	X	.013	.013	0 %100
46	M76	Z	-.008	-.008	0 %100
47	M77	X	.319	.319	0 %100
48	M77	Z	-.184	-.184	0 %100
49	MP1A	X	.389	.389	0 %100
50	MP1A	Z	-.225	-.225	0 %100
51	MP1B	X	.389	.389	0 %100
52	MP1B	Z	-.225	-.225	0 %100
53	MP1C	X	.389	.389	0 %100
54	MP1C	Z	-.225	-.225	0 %100
55	MP2A	X	.389	.389	0 %100
56	MP2A	Z	-.225	-.225	0 %100
57	MP2B	X	.389	.389	0 %100
58	MP2B	Z	-.225	-.225	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
59	MP2C	X	.389	.389	0 %100
60	MP2C	Z	-.225	-.225	0 %100
61	MP3A	X	.389	.389	0 %100
62	MP3A	Z	-.225	-.225	0 %100
63	MP3B	X	.389	.389	0 %100
64	MP3B	Z	-.225	-.225	0 %100
65	MP3C	X	.389	.389	0 %100
66	MP3C	Z	-.225	-.225	0 %100
67	MP4A	X	.389	.389	0 %100
68	MP4A	Z	-.225	-.225	0 %100
69	MP4B	X	.389	.389	0 %100
70	MP4B	Z	-.225	-.225	0 %100
71	MP4C	X	.389	.389	0 %100
72	MP4C	Z	-.225	-.225	0 %100
73	MP5A	X	.471	.471	0 %100
74	MP5A	Z	-.272	-.272	0 %100
75	MP5B	X	.471	.471	0 %100
76	MP5B	Z	-.272	-.272	0 %100
77	MP5C	X	.471	.471	0 %100
78	MP5C	Z	-.272	-.272	0 %100
79	M82	X	.312	.312	0 %100
80	M82	Z	-.18	-.18	0 %100
81	M83	X	.247	.247	0 %100
82	M83	Z	-.143	-.143	0 %100
83	M84	X	.000108	.000108	0 %100
84	M84	Z	-6.2e-5	-6.2e-5	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.426	.426	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	.426	.426	0 %100
4	A2	Z	0	0	0 %100
5	A5	X	.367	.367	0 %100
6	A5	Z	0	0	0 %100
7	A6	X	.552	.552	0 %100
8	A6	Z	0	0	0 %100
9	A7	X	0	0	0 %100
10	A7	Z	0	0	0 %100
11	A8	X	0	0	0 %100
12	A8	Z	0	0	0 %100
13	B26	X	.106	.106	0 %100
14	B26	Z	0	0	0 %100
15	B27	X	.106	.106	0 %100
16	B27	Z	0	0	0 %100
17	B30	X	.367	.367	0 %100
18	B30	Z	0	0	0 %100
19	B31	X	.552	.552	0 %100
20	B31	Z	0	0	0 %100
21	B32	X	.337	.337	0 %100
22	B32	Z	0	0	0 %100
23	B33	X	.337	.337	0 %100
24	B33	Z	0	0	0 %100
25	B80	X	.449	.449	0 %100
26	B80	Z	0	0	0 %100
27	B81	X	.09	.09	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
28	B81	Z	0	0	%100
29	C51	X	.05	.05	%100
30	C51	Z	0	0	%100
31	C52	X	.05	.05	%100
32	C52	Z	0	0	%100
33	C55	X	.367	.367	%100
34	C55	Z	0	0	%100
35	C56	X	.552	.552	%100
36	C56	Z	0	0	%100
37	C57	X	.397	.397	%100
38	C57	Z	0	0	%100
39	C58	X	.397	.397	%100
40	C58	Z	0	0	%100
41	C78	X	.2	.2	%100
42	C78	Z	0	0	%100
43	C79	X	.021	.021	%100
44	C79	Z	0	0	%100
45	M76	X	.124	.124	%100
46	M76	Z	0	0	%100
47	M77	X	.446	.446	%100
48	M77	Z	0	0	%100
49	MP1A	X	.449	.449	%100
50	MP1A	Z	0	0	%100
51	MP1B	X	.449	.449	%100
52	MP1B	Z	0	0	%100
53	MP1C	X	.449	.449	%100
54	MP1C	Z	0	0	%100
55	MP2A	X	.449	.449	%100
56	MP2A	Z	0	0	%100
57	MP2B	X	.449	.449	%100
58	MP2B	Z	0	0	%100
59	MP2C	X	.449	.449	%100
60	MP2C	Z	0	0	%100
61	MP3A	X	.449	.449	%100
62	MP3A	Z	0	0	%100
63	MP3B	X	.449	.449	%100
64	MP3B	Z	0	0	%100
65	MP3C	X	.449	.449	%100
66	MP3C	Z	0	0	%100
67	MP4A	X	.449	.449	%100
68	MP4A	Z	0	0	%100
69	MP4B	X	.449	.449	%100
70	MP4B	Z	0	0	%100
71	MP4C	X	.449	.449	%100
72	MP4C	Z	0	0	%100
73	MP5A	X	.544	.544	%100
74	MP5A	Z	0	0	%100
75	MP5B	X	.544	.544	%100
76	MP5B	Z	0	0	%100
77	MP5C	X	.544	.544	%100
78	MP5C	Z	0	0	%100
79	M82	X	.448	.448	%100
80	M82	Z	0	0	%100
81	M83	X	.068	.068	%100
82	M83	Z	0	0	%100
83	M84	X	.099	.099	%100
84	M84	Z	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.277	.277	0	%100
2	A1	Z	.16	.16	0	%100
3	A2	X	.277	.277	0	%100
4	A2	Z	.16	.16	0	%100
5	A5	X	.318	.318	0	%100
6	A5	Z	.184	.184	0	%100
7	A6	X	.478	.478	0	%100
8	A6	Z	.276	.276	0	%100
9	A7	X	.097	.097	0	%100
10	A7	Z	.056	.056	0	%100
11	A8	X	.097	.097	0	%100
12	A8	Z	.056	.056	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	0	0	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	0	0	0	%100
17	B30	X	.318	.318	0	%100
18	B30	Z	.184	.184	0	%100
19	B31	X	.478	.478	0	%100
20	B31	Z	.276	.276	0	%100
21	B32	X	.389	.389	0	%100
22	B32	Z	.225	.225	0	%100
23	B33	X	.389	.389	0	%100
24	B33	Z	.225	.225	0	%100
25	B80	X	.302	.302	0	%100
26	B80	Z	.174	.174	0	%100
27	B81	X	.01	.01	0	%100
28	B81	Z	.006	.006	0	%100
29	C51	X	.216	.216	0	%100
30	C51	Z	.125	.125	0	%100
31	C52	X	.216	.216	0	%100
32	C52	Z	.125	.125	0	%100
33	C55	X	.318	.318	0	%100
34	C55	Z	.184	.184	0	%100
35	C56	X	.478	.478	0	%100
36	C56	Z	.276	.276	0	%100
37	C57	X	.161	.161	0	%100
38	C57	Z	.093	.093	0	%100
39	C58	X	.161	.161	0	%100
40	C58	Z	.093	.093	0	%100
41	C78	X	.018	.018	0	%100
42	C78	Z	.01	.01	0	%100
43	C79	X	.177	.177	0	%100
44	C79	Z	.102	.102	0	%100
45	M76	X	.295	.295	0	%100
46	M76	Z	.17	.17	0	%100
47	M77	X	.266	.266	0	%100
48	M77	Z	.154	.154	0	%100
49	MP1A	X	.389	.389	0	%100
50	MP1A	Z	.225	.225	0	%100
51	MP1B	X	.389	.389	0	%100
52	MP1B	Z	.225	.225	0	%100
53	MP1C	X	.389	.389	0	%100
54	MP1C	Z	.225	.225	0	%100
55	MP2A	X	.389	.389	0	%100
56	MP2A	Z	.225	.225	0	%100
57	MP2B	X	.389	.389	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
58	MP2B	Z	.225	.225	0 %100
59	MP2C	X	.389	.389	0 %100
60	MP2C	Z	.225	.225	0 %100
61	MP3A	X	.389	.389	0 %100
62	MP3A	Z	.225	.225	0 %100
63	MP3B	X	.389	.389	0 %100
64	MP3B	Z	.225	.225	0 %100
65	MP3C	X	.389	.389	0 %100
66	MP3C	Z	.225	.225	0 %100
67	MP4A	X	.389	.389	0 %100
68	MP4A	Z	.225	.225	0 %100
69	MP4B	X	.389	.389	0 %100
70	MP4B	Z	.225	.225	0 %100
71	MP4C	X	.389	.389	0 %100
72	MP4C	Z	.225	.225	0 %100
73	MP5A	X	.471	.471	0 %100
74	MP5A	Z	.272	.272	0 %100
75	MP5B	X	.471	.471	0 %100
76	MP5B	Z	.272	.272	0 %100
77	MP5C	X	.471	.471	0 %100
78	MP5C	Z	.272	.272	0 %100
79	M82	X	.271	.271	0 %100
80	M82	Z	.156	.156	0 %100
81	M83	X	.006	.006	0 %100
82	M83	Z	.003	.003	0 %100
83	M84	X	.269	.269	0 %100
84	M84	Z	.155	.155	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.053	.053	0 %100
2	A1	Z	.092	.092	0 %100
3	A2	X	.053	.053	0 %100
4	A2	Z	.092	.092	0 %100
5	A5	X	.184	.184	0 %100
6	A5	Z	.318	.318	0 %100
7	A6	X	.276	.276	0 %100
8	A6	Z	.478	.478	0 %100
9	A7	X	.169	.169	0 %100
10	A7	Z	.292	.292	0 %100
11	A8	X	.169	.169	0 %100
12	A8	Z	.292	.292	0 %100
13	B26	X	.053	.053	0 %100
14	B26	Z	.092	.092	0 %100
15	B27	X	.053	.053	0 %100
16	B27	Z	.092	.092	0 %100
17	B30	X	.184	.184	0 %100
18	B30	Z	.318	.318	0 %100
19	B31	X	.276	.276	0 %100
20	B31	Z	.478	.478	0 %100
21	B32	X	.169	.169	0 %100
22	B32	Z	.292	.292	0 %100
23	B33	X	.169	.169	0 %100
24	B33	Z	.292	.292	0 %100
25	B80	X	.063	.063	0 %100
26	B80	Z	.109	.109	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
27	B81	X	.076	.076	0 %100
28	B81	Z	.131	.131	0 %100
29	C51	X	.206	.206	0 %100
30	C51	Z	.358	.358	0 %100
31	C52	X	.206	.206	0 %100
32	C52	Z	.358	.358	0 %100
33	C55	X	.184	.184	0 %100
34	C55	Z	.318	.318	0 %100
35	C56	X	.276	.276	0 %100
36	C56	Z	.478	.478	0 %100
37	C57	X	.007	.007	0 %100
38	C57	Z	.012	.012	0 %100
39	C58	X	.007	.007	0 %100
40	C58	Z	.012	.012	0 %100
41	C78	X	.023	.023	0 %100
42	C78	Z	.04	.04	0 %100
43	C79	X	.204	.204	0 %100
44	C79	Z	.353	.353	0 %100
45	M76	X	.225	.225	0 %100
46	M76	Z	.389	.389	0 %100
47	M77	X	.045	.045	0 %100
48	M77	Z	.078	.078	0 %100
49	MP1A	X	.225	.225	0 %100
50	MP1A	Z	.389	.389	0 %100
51	MP1B	X	.225	.225	0 %100
52	MP1B	Z	.389	.389	0 %100
53	MP1C	X	.225	.225	0 %100
54	MP1C	Z	.389	.389	0 %100
55	MP2A	X	.225	.225	0 %100
56	MP2A	Z	.389	.389	0 %100
57	MP2B	X	.225	.225	0 %100
58	MP2B	Z	.389	.389	0 %100
59	MP2C	X	.225	.225	0 %100
60	MP2C	Z	.389	.389	0 %100
61	MP3A	X	.225	.225	0 %100
62	MP3A	Z	.389	.389	0 %100
63	MP3B	X	.225	.225	0 %100
64	MP3B	Z	.389	.389	0 %100
65	MP3C	X	.225	.225	0 %100
66	MP3C	Z	.389	.389	0 %100
67	MP4A	X	.225	.225	0 %100
68	MP4A	Z	.389	.389	0 %100
69	MP4B	X	.225	.225	0 %100
70	MP4B	Z	.389	.389	0 %100
71	MP4C	X	.225	.225	0 %100
72	MP4C	Z	.389	.389	0 %100
73	MP5A	X	.272	.272	0 %100
74	MP5A	Z	.471	.471	0 %100
75	MP5B	X	.272	.272	0 %100
76	MP5B	Z	.471	.471	0 %100
77	MP5C	X	.272	.272	0 %100
78	MP5C	Z	.471	.471	0 %100
79	M82	X	.045	.045	0 %100
80	M82	Z	.078	.078	0 %100
81	M83	X	.082	.082	0 %100
82	M83	Z	.142	.142	0 %100
83	M84	X	.211	.211	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
84	M84	Z	.365	.365	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A5	X	0	0	0	%100
6	A5	Z	.367	.367	0	%100
7	A6	X	0	0	0	%100
8	A6	Z	.552	.552	0	%100
9	A7	X	0	0	0	%100
10	A7	Z	.449	.449	0	%100
11	A8	X	0	0	0	%100
12	A8	Z	.449	.449	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	.319	.319	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	.319	.319	0	%100
17	B30	X	0	0	0	%100
18	B30	Z	.367	.367	0	%100
19	B31	X	0	0	0	%100
20	B31	Z	.552	.552	0	%100
21	B32	X	0	0	0	%100
22	B32	Z	.112	.112	0	%100
23	B33	X	0	0	0	%100
24	B33	Z	.112	.112	0	%100
25	B80	X	0	0	0	%100
26	B80	Z	.003	.003	0	%100
27	B81	X	0	0	0	%100
28	B81	Z	.369	.369	0	%100
29	C51	X	0	0	0	%100
30	C51	Z	.376	.376	0	%100
31	C52	X	0	0	0	%100
32	C52	Z	.376	.376	0	%100
33	C55	X	0	0	0	%100
34	C55	Z	.367	.367	0	%100
35	C56	X	0	0	0	%100
36	C56	Z	.552	.552	0	%100
37	C57	X	0	0	0	%100
38	C57	Z	.053	.053	0	%100
39	C58	X	0	0	0	%100
40	C58	Z	.053	.053	0	%100
41	C78	X	0	0	0	%100
42	C78	Z	.252	.252	0	%100
43	C79	X	0	0	0	%100
44	C79	Z	.429	.429	0	%100
45	M76	X	0	0	0	%100
46	M76	Z	.341	.341	0	%100
47	M77	X	0	0	0	%100
48	M77	Z	.012	.012	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	.449	.449	0	%100
51	MP1B	X	0	0	0	%100
52	MP1B	Z	.449	.449	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
53	MP1C	X	0	0	%100
54	MP1C	Z	.449	.449	%100
55	MP2A	X	0	0	%100
56	MP2A	Z	.449	.449	%100
57	MP2B	X	0	0	%100
58	MP2B	Z	.449	.449	%100
59	MP2C	X	0	0	%100
60	MP2C	Z	.449	.449	%100
61	MP3A	X	0	0	%100
62	MP3A	Z	.449	.449	%100
63	MP3B	X	0	0	%100
64	MP3B	Z	.449	.449	%100
65	MP3C	X	0	0	%100
66	MP3C	Z	.449	.449	%100
67	MP4A	X	0	0	%100
68	MP4A	Z	.449	.449	%100
69	MP4B	X	0	0	%100
70	MP4B	Z	.449	.449	%100
71	MP4C	X	0	0	%100
72	MP4C	Z	.449	.449	%100
73	MP5A	X	0	0	%100
74	MP5A	Z	.544	.544	%100
75	MP5B	X	0	0	%100
76	MP5B	Z	.544	.544	%100
77	MP5C	X	0	0	%100
78	MP5C	Z	.544	.544	%100
79	M82	X	0	0	%100
80	M82	Z	.002	.002	%100
81	M83	X	0	0	%100
82	M83	Z	.381	.381	%100
83	M84	X	0	0	%100
84	M84	Z	.323	.323	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.053	0	%100
2	A1	Z	.092	0	%100
3	A2	X	-.053	0	%100
4	A2	Z	.092	0	%100
5	A5	X	-.184	0	%100
6	A5	Z	.318	0	%100
7	A6	X	-.276	0	%100
8	A6	Z	.478	0	%100
9	A7	X	-.169	0	%100
10	A7	Z	.292	0	%100
11	A8	X	-.169	0	%100
12	A8	Z	.292	0	%100
13	B26	X	-.213	0	%100
14	B26	Z	.369	0	%100
15	B27	X	-.213	0	%100
16	B27	Z	.369	0	%100
17	B30	X	-.184	0	%100
18	B30	Z	.318	0	%100
19	B31	X	-.276	0	%100
20	B31	Z	.478	0	%100
21	B32	X	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
22	B32	Z	0	0	%100
23	B33	X	0	0	%100
24	B33	Z	0	0	%100
25	B80	X	-.052	-.052	0
26	B80	Z	.089	.089	0
27	B81	X	-.223	-.223	0
28	B81	Z	.387	.387	0
29	C51	X	-.088	-.088	0
30	C51	Z	.152	.152	0
31	C52	X	-.088	-.088	0
32	C52	Z	.152	.152	0
33	C55	X	-.184	-.184	0
34	C55	Z	.318	.318	0
35	C56	X	-.276	-.276	0
36	C56	Z	.478	.478	0
37	C57	X	-.132	-.132	0
38	C57	Z	.228	.228	0
39	C58	X	-.132	-.132	0
40	C58	Z	.228	.228	0
41	C78	X	-.216	-.216	0
42	C78	Z	.373	.373	0
43	C79	X	-.123	-.123	0
44	C79	Z	.212	.212	0
45	M76	X	-.062	-.062	0
46	M76	Z	.107	.107	0
47	M77	X	-.076	-.076	0
48	M77	Z	.131	.131	0
49	MP1A	X	-.225	-.225	0
50	MP1A	Z	.389	.389	0
51	MP1B	X	-.225	-.225	0
52	MP1B	Z	.389	.389	0
53	MP1C	X	-.225	-.225	0
54	MP1C	Z	.389	.389	0
55	MP2A	X	-.225	-.225	0
56	MP2A	Z	.389	.389	0
57	MP2B	X	-.225	-.225	0
58	MP2B	Z	.389	.389	0
59	MP2C	X	-.225	-.225	0
60	MP2C	Z	.389	.389	0
61	MP3A	X	-.225	-.225	0
62	MP3A	Z	.389	.389	0
63	MP3B	X	-.225	-.225	0
64	MP3B	Z	.389	.389	0
65	MP3C	X	-.225	-.225	0
66	MP3C	Z	.389	.389	0
67	MP4A	X	-.225	-.225	0
68	MP4A	Z	.389	.389	0
69	MP4B	X	-.225	-.225	0
70	MP4B	Z	.389	.389	0
71	MP4C	X	-.225	-.225	0
72	MP4C	Z	.389	.389	0
73	MP5A	X	-.272	-.272	0
74	MP5A	Z	.471	.471	0
75	MP5B	X	-.272	-.272	0
76	MP5B	Z	.471	.471	0
77	MP5C	X	-.272	-.272	0
78	MP5C	Z	.471	.471	0



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
79	M82	X	-.068	-.068	0	%100
80	M82	Z	.119	.119	0	%100
81	M83	X	-.221	-.221	0	%100
82	M83	Z	.383	.383	0	%100
83	M84	X	-.056	-.056	0	%100
84	M84	Z	.097	.097	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.277	-.277	0	%100
2	A1	Z	.16	.16	0	%100
3	A2	X	-.277	-.277	0	%100
4	A2	Z	.16	.16	0	%100
5	A5	X	-.318	-.318	0	%100
6	A5	Z	.184	.184	0	%100
7	A6	X	-.478	-.478	0	%100
8	A6	Z	.276	.276	0	%100
9	A7	X	-.097	-.097	0	%100
10	A7	Z	.056	.056	0	%100
11	A8	X	-.097	-.097	0	%100
12	A8	Z	.056	.056	0	%100
13	B26	X	-.277	-.277	0	%100
14	B26	Z	.16	.16	0	%100
15	B27	X	-.277	-.277	0	%100
16	B27	Z	.16	.16	0	%100
17	B30	X	-.318	-.318	0	%100
18	B30	Z	.184	.184	0	%100
19	B31	X	-.478	-.478	0	%100
20	B31	Z	.276	.276	0	%100
21	B32	X	-.097	-.097	0	%100
22	B32	Z	.056	.056	0	%100
23	B33	X	-.097	-.097	0	%100
24	B33	Z	.056	.056	0	%100
25	B80	X	-.283	-.283	0	%100
26	B80	Z	.163	.163	0	%100
27	B81	X	-.266	-.266	0	%100
28	B81	Z	.154	.154	0	%100
29	C51	X	-.011	-.011	0	%100
30	C51	Z	.006	.006	0	%100
31	C52	X	-.011	-.011	0	%100
32	C52	Z	.006	.006	0	%100
33	C55	X	-.318	-.318	0	%100
34	C55	Z	.184	.184	0	%100
35	C56	X	-.478	-.478	0	%100
36	C56	Z	.276	.276	0	%100
37	C57	X	-.377	-.377	0	%100
38	C57	Z	.218	.218	0	%100
39	C58	X	-.377	-.377	0	%100
40	C58	Z	.218	.218	0	%100
41	C78	X	-.351	-.351	0	%100
42	C78	Z	.203	.203	0	%100
43	C79	X	-.036	-.036	0	%100
44	C79	Z	.021	.021	0	%100
45	M76	X	-.013	-.013	0	%100
46	M76	Z	.008	.008	0	%100
47	M77	X	-.319	-.319	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
48	M77	Z	.184	.184	0 %100
49	MP1A	X	-.389	-.389	0 %100
50	MP1A	Z	.225	.225	0 %100
51	MP1B	X	-.389	-.389	0 %100
52	MP1B	Z	.225	.225	0 %100
53	MP1C	X	-.389	-.389	0 %100
54	MP1C	Z	.225	.225	0 %100
55	MP2A	X	-.389	-.389	0 %100
56	MP2A	Z	.225	.225	0 %100
57	MP2B	X	-.389	-.389	0 %100
58	MP2B	Z	.225	.225	0 %100
59	MP2C	X	-.389	-.389	0 %100
60	MP2C	Z	.225	.225	0 %100
61	MP3A	X	-.389	-.389	0 %100
62	MP3A	Z	.225	.225	0 %100
63	MP3B	X	-.389	-.389	0 %100
64	MP3B	Z	.225	.225	0 %100
65	MP3C	X	-.389	-.389	0 %100
66	MP3C	Z	.225	.225	0 %100
67	MP4A	X	-.389	-.389	0 %100
68	MP4A	Z	.225	.225	0 %100
69	MP4B	X	-.389	-.389	0 %100
70	MP4B	Z	.225	.225	0 %100
71	MP4C	X	-.389	-.389	0 %100
72	MP4C	Z	.225	.225	0 %100
73	MP5A	X	-.471	-.471	0 %100
74	MP5A	Z	.272	.272	0 %100
75	MP5B	X	-.471	-.471	0 %100
76	MP5B	Z	.272	.272	0 %100
77	MP5C	X	-.471	-.471	0 %100
78	MP5C	Z	.272	.272	0 %100
79	M82	X	-.312	-.312	0 %100
80	M82	Z	.18	.18	0 %100
81	M83	X	-.247	-.247	0 %100
82	M83	Z	.143	.143	0 %100
83	M84	X	-.000108	-.000108	0 %100
84	M84	Z	6.2e-5	6.2e-5	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.426	-.426	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	-.426	-.426	0 %100
4	A2	Z	0	0	0 %100
5	A5	X	-.367	-.367	0 %100
6	A5	Z	0	0	0 %100
7	A6	X	-.552	-.552	0 %100
8	A6	Z	0	0	0 %100
9	A7	X	0	0	0 %100
10	A7	Z	0	0	0 %100
11	A8	X	0	0	0 %100
12	A8	Z	0	0	0 %100
13	B26	X	-.106	-.106	0 %100
14	B26	Z	0	0	0 %100
15	B27	X	-.106	-.106	0 %100
16	B27	Z	0	0	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
17	B30	X	-.367	-.367	0 %100
18	B30	Z	0	0	0 %100
19	B31	X	-.552	-.552	0 %100
20	B31	Z	0	0	0 %100
21	B32	X	-.337	-.337	0 %100
22	B32	Z	0	0	0 %100
23	B33	X	-.337	-.337	0 %100
24	B33	Z	0	0	0 %100
25	B80	X	-.449	-.449	0 %100
26	B80	Z	0	0	0 %100
27	B81	X	-.09	-.09	0 %100
28	B81	Z	0	0	0 %100
29	C51	X	-.05	-.05	0 %100
30	C51	Z	0	0	0 %100
31	C52	X	-.05	-.05	0 %100
32	C52	Z	0	0	0 %100
33	C55	X	-.367	-.367	0 %100
34	C55	Z	0	0	0 %100
35	C56	X	-.552	-.552	0 %100
36	C56	Z	0	0	0 %100
37	C57	X	-.397	-.397	0 %100
38	C57	Z	0	0	0 %100
39	C58	X	-.397	-.397	0 %100
40	C58	Z	0	0	0 %100
41	C78	X	-.2	-.2	0 %100
42	C78	Z	0	0	0 %100
43	C79	X	-.021	-.021	0 %100
44	C79	Z	0	0	0 %100
45	M76	X	-.124	-.124	0 %100
46	M76	Z	0	0	0 %100
47	M77	X	-.446	-.446	0 %100
48	M77	Z	0	0	0 %100
49	MP1A	X	-.449	-.449	0 %100
50	MP1A	Z	0	0	0 %100
51	MP1B	X	-.449	-.449	0 %100
52	MP1B	Z	0	0	0 %100
53	MP1C	X	-.449	-.449	0 %100
54	MP1C	Z	0	0	0 %100
55	MP2A	X	-.449	-.449	0 %100
56	MP2A	Z	0	0	0 %100
57	MP2B	X	-.449	-.449	0 %100
58	MP2B	Z	0	0	0 %100
59	MP2C	X	-.449	-.449	0 %100
60	MP2C	Z	0	0	0 %100
61	MP3A	X	-.449	-.449	0 %100
62	MP3A	Z	0	0	0 %100
63	MP3B	X	-.449	-.449	0 %100
64	MP3B	Z	0	0	0 %100
65	MP3C	X	-.449	-.449	0 %100
66	MP3C	Z	0	0	0 %100
67	MP4A	X	-.449	-.449	0 %100
68	MP4A	Z	0	0	0 %100
69	MP4B	X	-.449	-.449	0 %100
70	MP4B	Z	0	0	0 %100
71	MP4C	X	-.449	-.449	0 %100
72	MP4C	Z	0	0	0 %100
73	MP5A	X	-.544	-.544	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
74	MP5A	Z	0	0	0	%100
75	MP5B	X	-.544	-.544	0	%100
76	MP5B	Z	0	0	0	%100
77	MP5C	X	-.544	-.544	0	%100
78	MP5C	Z	0	0	0	%100
79	M82	X	-.448	-.448	0	%100
80	M82	Z	0	0	0	%100
81	M83	X	-.068	-.068	0	%100
82	M83	Z	0	0	0	%100
83	M84	X	-.099	-.099	0	%100
84	M84	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.277	-.277	0	%100
2	A1	Z	-.16	-.16	0	%100
3	A2	X	-.277	-.277	0	%100
4	A2	Z	-.16	-.16	0	%100
5	A5	X	-.318	-.318	0	%100
6	A5	Z	-.184	-.184	0	%100
7	A6	X	-.478	-.478	0	%100
8	A6	Z	-.276	-.276	0	%100
9	A7	X	-.097	-.097	0	%100
10	A7	Z	-.056	-.056	0	%100
11	A8	X	-.097	-.097	0	%100
12	A8	Z	-.056	-.056	0	%100
13	B26	X	0	0	0	%100
14	B26	Z	0	0	0	%100
15	B27	X	0	0	0	%100
16	B27	Z	0	0	0	%100
17	B30	X	-.318	-.318	0	%100
18	B30	Z	-.184	-.184	0	%100
19	B31	X	-.478	-.478	0	%100
20	B31	Z	-.276	-.276	0	%100
21	B32	X	-.389	-.389	0	%100
22	B32	Z	-.225	-.225	0	%100
23	B33	X	-.389	-.389	0	%100
24	B33	Z	-.225	-.225	0	%100
25	B80	X	-.302	-.302	0	%100
26	B80	Z	-.174	-.174	0	%100
27	B81	X	-.01	-.01	0	%100
28	B81	Z	-.006	-.006	0	%100
29	C51	X	-.216	-.216	0	%100
30	C51	Z	-.125	-.125	0	%100
31	C52	X	-.216	-.216	0	%100
32	C52	Z	-.125	-.125	0	%100
33	C55	X	-.318	-.318	0	%100
34	C55	Z	-.184	-.184	0	%100
35	C56	X	-.478	-.478	0	%100
36	C56	Z	-.276	-.276	0	%100
37	C57	X	-.161	-.161	0	%100
38	C57	Z	-.093	-.093	0	%100
39	C58	X	-.161	-.161	0	%100
40	C58	Z	-.093	-.093	0	%100
41	C78	X	-.018	-.018	0	%100
42	C78	Z	-.01	-.01	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
43	C79	X	-177	-177	0 %100
44	C79	Z	-102	-102	0 %100
45	M76	X	-295	-295	0 %100
46	M76	Z	-17	-17	0 %100
47	M77	X	-266	-266	0 %100
48	M77	Z	-154	-154	0 %100
49	MP1A	X	-389	-389	0 %100
50	MP1A	Z	-225	-225	0 %100
51	MP1B	X	-389	-389	0 %100
52	MP1B	Z	-225	-225	0 %100
53	MP1C	X	-389	-389	0 %100
54	MP1C	Z	-225	-225	0 %100
55	MP2A	X	-389	-389	0 %100
56	MP2A	Z	-225	-225	0 %100
57	MP2B	X	-389	-389	0 %100
58	MP2B	Z	-225	-225	0 %100
59	MP2C	X	-389	-389	0 %100
60	MP2C	Z	-225	-225	0 %100
61	MP3A	X	-389	-389	0 %100
62	MP3A	Z	-225	-225	0 %100
63	MP3B	X	-389	-389	0 %100
64	MP3B	Z	-225	-225	0 %100
65	MP3C	X	-389	-389	0 %100
66	MP3C	Z	-225	-225	0 %100
67	MP4A	X	-389	-389	0 %100
68	MP4A	Z	-225	-225	0 %100
69	MP4B	X	-389	-389	0 %100
70	MP4B	Z	-225	-225	0 %100
71	MP4C	X	-389	-389	0 %100
72	MP4C	Z	-225	-225	0 %100
73	MP5A	X	-471	-471	0 %100
74	MP5A	Z	-272	-272	0 %100
75	MP5B	X	-471	-471	0 %100
76	MP5B	Z	-272	-272	0 %100
77	MP5C	X	-471	-471	0 %100
78	MP5C	Z	-272	-272	0 %100
79	M82	X	-271	-271	0 %100
80	M82	Z	-156	-156	0 %100
81	M83	X	-006	-006	0 %100
82	M83	Z	-003	-003	0 %100
83	M84	X	-269	-269	0 %100
84	M84	Z	-155	-155	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-053	-053	0 %100
2	A1	Z	-092	-092	0 %100
3	A2	X	-053	-053	0 %100
4	A2	Z	-092	-092	0 %100
5	A5	X	-184	-184	0 %100
6	A5	Z	-318	-318	0 %100
7	A6	X	-276	-276	0 %100
8	A6	Z	-478	-478	0 %100
9	A7	X	-169	-169	0 %100
10	A7	Z	-292	-292	0 %100
11	A8	X	-169	-169	0 %100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10108062
 Model Name : 467920-VZW_MT_LO_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
12	A8	Z	-0.292	-0.292	0 %100
13	B26	X	-0.053	-0.053	0 %100
14	B26	Z	-0.092	-0.092	0 %100
15	B27	X	-0.053	-0.053	0 %100
16	B27	Z	-0.092	-0.092	0 %100
17	B30	X	-0.184	-0.184	0 %100
18	B30	Z	-0.318	-0.318	0 %100
19	B31	X	-0.276	-0.276	0 %100
20	B31	Z	-0.478	-0.478	0 %100
21	B32	X	-0.169	-0.169	0 %100
22	B32	Z	-0.292	-0.292	0 %100
23	B33	X	-0.169	-0.169	0 %100
24	B33	Z	-0.292	-0.292	0 %100
25	B80	X	-0.063	-0.063	0 %100
26	B80	Z	-0.109	-0.109	0 %100
27	B81	X	-0.076	-0.076	0 %100
28	B81	Z	-0.131	-0.131	0 %100
29	C51	X	-0.206	-0.206	0 %100
30	C51	Z	-0.358	-0.358	0 %100
31	C52	X	-0.206	-0.206	0 %100
32	C52	Z	-0.358	-0.358	0 %100
33	C55	X	-0.184	-0.184	0 %100
34	C55	Z	-0.318	-0.318	0 %100
35	C56	X	-0.276	-0.276	0 %100
36	C56	Z	-0.478	-0.478	0 %100
37	C57	X	-0.007	-0.007	0 %100
38	C57	Z	-0.012	-0.012	0 %100
39	C58	X	-0.007	-0.007	0 %100
40	C58	Z	-0.012	-0.012	0 %100
41	C78	X	-0.023	-0.023	0 %100
42	C78	Z	-0.04	-0.04	0 %100
43	C79	X	-0.204	-0.204	0 %100
44	C79	Z	-0.353	-0.353	0 %100
45	M76	X	-0.225	-0.225	0 %100
46	M76	Z	-0.389	-0.389	0 %100
47	M77	X	-0.045	-0.045	0 %100
48	M77	Z	-0.078	-0.078	0 %100
49	MP1A	X	-0.225	-0.225	0 %100
50	MP1A	Z	-0.389	-0.389	0 %100
51	MP1B	X	-0.225	-0.225	0 %100
52	MP1B	Z	-0.389	-0.389	0 %100
53	MP1C	X	-0.225	-0.225	0 %100
54	MP1C	Z	-0.389	-0.389	0 %100
55	MP2A	X	-0.225	-0.225	0 %100
56	MP2A	Z	-0.389	-0.389	0 %100
57	MP2B	X	-0.225	-0.225	0 %100
58	MP2B	Z	-0.389	-0.389	0 %100
59	MP2C	X	-0.225	-0.225	0 %100
60	MP2C	Z	-0.389	-0.389	0 %100
61	MP3A	X	-0.225	-0.225	0 %100
62	MP3A	Z	-0.389	-0.389	0 %100
63	MP3B	X	-0.225	-0.225	0 %100
64	MP3B	Z	-0.389	-0.389	0 %100
65	MP3C	X	-0.225	-0.225	0 %100
66	MP3C	Z	-0.389	-0.389	0 %100
67	MP4A	X	-0.225	-0.225	0 %100
68	MP4A	Z	-0.389	-0.389	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
69	MP4B	X	-225	-225	0 %100
70	MP4B	Z	-389	-389	0 %100
71	MP4C	X	-225	-225	0 %100
72	MP4C	Z	-389	-389	0 %100
73	MP5A	X	-272	-272	0 %100
74	MP5A	Z	-471	-471	0 %100
75	MP5B	X	-272	-272	0 %100
76	MP5B	Z	-471	-471	0 %100
77	MP5C	X	-272	-272	0 %100
78	MP5C	Z	-471	-471	0 %100
79	M82	X	-045	-045	0 %100
80	M82	Z	-078	-078	0 %100
81	M83	X	-082	-082	0 %100
82	M83	Z	-142	-142	0 %100
83	M84	X	-211	-211	0 %100
84	M84	Z	-365	-365	0 %100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	A5	m...741.797	9	859.953	13	899.482	2	-463	6	0	51	.685	39
2		min-540.971	3	295.951	7	-1412.01	8	-1.196	24	0	1	-1.18	33
3	A6	m...243.537	12	850.426	15	1103.674	9	-.46	2	0	51	.671	39
4		min-435.111	30	344.779	9	-571.36	3	-1.197	20	0	1	-1.18	33
5	B54	m...1173.168	11	857.218	16	1195.753	12	1.196	24	0	51	-.072	12
6		min-834.503	5	327.636	10	-753.555	6	-.147	6	0	1	-.821	18
7	B55	m...563.404	7	850.311	23	286.944	5	1.204	24	0	51	-.136	12
8		min-938.61	1	358.8	5	-672.137	11	-.175	6	0	1	-.81	18
9	C102	m...1026.882	10	861.829	21	623.205	2	.585	11	0	51	1.367	17
10		min-1566.4...	4	317.3	3	-656.842	8	-.673	5	0	1	.289	11
11	C103	m...1223.665	5	853.928	23	367.154	2	.57	11	0	51	1.375	16
12		min-678.544	11	345.885	5	-418.404	8	-.661	4	0	1	.258	10
13	N150	m...679.009	8	222.121	8	444.468	2	.138	3	0	51	.078	39
14		min-773.785	2	-151.49	2	-386.728	8	-.261	9	0	1	-.598	33
15	N152	m...25.718	5	139.143	12	869.465	12	.403	24	0	51	.138	7
16		min-27.861	1	-67.52	6	-1011.649	6	-.039	6	0	1	-.105	1
17	N153	m...681.666	10	130.928	4	603.825	10	-.051	10	0	51	.322	5
18		min-579.063	4	-59.783	10	-507.13	4	-.266	16	0	1	-.117	11
19	N155	m...662.293	11	41.505	22	145.135	4	.065	11	0	51	.085	10
20		min-670.93	5	-5.66	4	-141.346	10	-.05	5	0	1	-.049	4
21	N156	m...38.174	2	106.025	3	536.7	3	.162	33	0	51	.106	39
22		min-36.741	8	-78.34	9	-544.206	9	-.504	39	0	1	-.109	33
23	B162	m...542.637	12	114.652	6	269.947	1	.078	13	0	51	.114	12
24		min-534.585	6	-88.167	12	-262.545	7	-.004	7	0	1	-.127	6
25	Totals:	m...3917.313	10	5385.056	24	3832.279	1						
26		min-3917.2...	4	2421.541	6	-3832.267	7						



Company : GPD
 Designer : enieto
 Job Number : Project No. 10108062
 Model Name : 467920-VZW_MT_LO_H

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

Member	Shape	Code Che...	Loc[ft]	LC	Shear Che...	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn
1	C57	PIPE 2.0	.856	5.25	9	.294	6.453	4	8922..	.32130	1.872	1.872	... H1-...
2	B32	PIPE 2.0	.800	5.25	4	.303	6.453	12	8922..	.32130	1.872	1.872	... H1-...
3	A7	PIPE 2.0	.652	5.25	12	.265	2.188	3	8922..	.32130	1.872	1.872	... H1-...
4	C58	PIPE 2.0	.535	5.25	8	.244	8.203	4	8922..	.32130	1.872	1.872	... H1-...
5	B33	PIPE 2.0	.530	5.25	3	.195	10.172	12	8922..	.32130	1.872	1.872	... H1-...
6	A8	PIPE 2.0	.464	5.25	11	.209	.328	3	8922..	.32130	1.872	1.872	... H1-...
7	MP4A	PIPE 2.0	.393	5.125	26	.233	5.125	3	2086..	.32130	1.872	1.872	... H1-...
8	MP1B	PIPE 2.0	.388	4.75	12	.267	4.75	12	2086..	.32130	1.872	1.872	... H3-6
9	MP1A	PIPE 2.0	.382	5.5	45	.222	4.75	8	2086..	.32130	1.872	1.872	... H1-...
10	M76	PIPE 2.0	.335	4.967	33	.099	4.967	3	2390..	.32130	1.872	1.872	... H1-...
11	MP2A	PIPE 2.0	.334	5.125	45	.149	1.313	8	2086..	.32130	1.872	1.872	... H1-...
12	MP4B	PIPE 2.0	.306	5.125	18	.188	5.125	6	2086..	.32130	1.872	1.872	... H1-...
13	MP4C	PIPE 2.0	.301	5.125	22	.180	5.125	11	2086..	.32130	1.872	1.872	... H1-...
14	MP1C	PIPE 2.0	.277	1.625	10	.192	5.5	10	2086..	.32130	1.872	1.872	... H1-...
15	M77	PIPE 2.0	.274	5.92	39	.061	0	33	2110..	.32130	1.872	1.872	... H1-...
16	A1	HSS3X3X3	.244	1.75	10	.239	0	y 33	7648..	.78246	6.796	6.796	... H1-...
17	MP3A	PIPE 2.0	.243	5.5	26	.120	1.688	3	2086..	.32130	1.872	1.872	... H1-...
18	C51	HSS3X3X3	.240	1.75	8	.185	0	z 5	7648..	.78246	6.796	6.796	... H1-...
19	B26	HSS3X3X3	.232	1.75	2	.180	0	z 12	7648..	.78246	6.796	6.796	... H1-...
20	MP5A	PIPE 2.5	.227	3.417	9	.145	3.5	9	3003..	.50715	3.596	3.596	... H1-...
21	C78	PIPE 2.0	.218	5.673	17	.077	0	11	2184..	.32130	1.872	1.872	... H1-...
22	MP3B	PIPE 2.0	.218	5.5	17	.097	1.688	6	2086..	.32130	1.872	1.872	... H1-...
23	MP3C	PIPE 2.0	.216	5.5	22	.084	1.688	11	2086..	.32130	1.872	1.872	... H1-...
24	B80	PIPE 2.0	.216	5.673	24	.085	0	6	2184..	.32130	1.872	1.872	... H1-...
25	MP5B	PIPE 2.5	.213	3.417	1	.117	3.5	1	3003..	.50715	3.596	3.596	... H1-...
26	A2	HSS3X3X3	.207	0	32	.239	0	y 33	7648..	.78246	6.796	6.796	... H3-6
27	MP5C	PIPE 2.5	.206	3.417	5	.112	3.5	5	3003..	.50715	3.596	3.596	... H1-...
28	B27	HSS3X3X3	.193	1.75	10	.175	0	y 12	7648..	.78246	6.796	6.796	... H1-...
29	C52	HSS3X3X3	.183	1.75	2	.178	0	y 4	7648..	.78246	6.796	6.796	... H1-...
30	A6	PIPE 3.0	.165	.826	10	.270	.826	10	5802..	.65205	5.749	5.749	... H3-6
31	C56	PIPE 3.0	.149	.826	4	.271	.826	8	5802..	.65205	5.749	5.749	... H1-...
32	B31	PIPE 3.0	.148	.826	12	.252	.826	3	5802..	.65205	5.749	5.749	... H1-...
33	MP2B	PIPE 2.0	.131	1.313	24	.181	1.313	12	2086..	.32130	1.872	1.872	... H1-...
34	MP2C	PIPE 2.0	.131	5.125	22	.219	1.313	4	2086..	.32130	1.872	1.872	... H1-...
35	A5	PIPE 2.0	.119	3	33	.184	3	33	2884..	.32130	1.872	1.872	... H1-...
36	C55	PIPE 2.0	.096	3	5	.149	3	5	2884..	.32130	1.872	1.872	... H1-...
37	B30	PIPE 2.0	.096	3	12	.146	3	12	2884..	.32130	1.872	1.872	... H1-...
38	B81	PIPE 2.0	.077	5.92	6	.057	0	1	2110..	.32130	1.872	1.872	... H1-...
39	C79	PIPE 2.0	.068	6.384	11	.030	6.384	11	1971..	.32130	1.872	1.872	... H1-...
40	M83	PIPE 2.0	.026	3.064	2	.090	6.127	11	2048..	.32130	1.872	1.872	... H1-...
41	M82	PIPE 2.0	.023	2.604	10	.123	0	6	2321..	.32130	1.872	1.872	... H1-...
42	M84	PIPE 2.0	.016	0	8	.133	0	3	2575..	.32130	1.872	1.872	... H1-...



TIA-222-H CONNECTION CHECK
Mount to Tower Connection - Typ. All Sectors
2021740.467920.02

Bolt Information	
Bolt Diameter (d)	0.5 in
Net Tensile Area (A _n)	0.142 in ²
# of Bolts Total (n)	4
Bolt Distance Up-Down	1.5 in
Bolt Distance Left-Right	9.5 in
Bolt Grade	F1554-36
Bolt Tensile Strength (F _{ub})	58 ksi

RISA 3D Reactions	
Moment (M)	1.20 k-ft
Axial (T)	0.91 kips
Shear (V)	0.91 kips

Bolt Capacity	
Nominal Tensile Strength (R _{nt})	8.230 kips
Nominal Shear Strength (R _{nv})	5.69 kips
Bolt Tensile Force (T _{ub})	5.03 kips
Bolt Shear Force (V _{ub})	0.228 kips
$T_{ub}/\phi R_{nt}$	0.81570
$V_{ub}/\phi R_{nv}$	0.05346
$(V_{ub}/\phi R_{nv})^2 + (T_{ub}/\phi R_{nt})^2$	0.66823
Bolt Capacity =	81.6% OK



TIA-222-H CONNECTION CHECK
Tieback to Tower Connection - Typ. All Sectors
2021740.467920.02

Bolt Information	
Bolt Diameter (d)	0.5 in
Net Tensile Area (A _n)	0.142 in ²
# of Bolts Total (n)	4
Bolt Grade	A307
Bolt Tensile Strength (F _{ub})	60 ksi

RISA 3D Reactions	
Moment (M)	0.63 k-ft
Axial (T)	0.00 kips
Shear (V)	0.14 kips

Bolt Capacity	
Nominal Tensile Strength (R _{nt})	8.514 kips
Nominal Shear Strength (R _{nv})	5.89 kips
Bolt Tensile Force (T _{ub})	0.83 kips
Bolt Shear Force (V _{ub})	0.034 kips
$T_{ub}/\phi R_{nt}$	0.13055
$V_{ub}/\phi R_{nv}$	0.00777
$(V_{ub}/\phi R_{nv})^2 + (T_{ub}/\phi R_{nt})^2$	0.01710
Bolt Capacity =	13.1% OK

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

Purpose – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor 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 modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- If installation of the modification 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 drawings” showing contractor’s name, 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 post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is 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 of the modifications.
 - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation of modifications. Each entire sector must 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.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
 - If the materials are as specified on the drawings
 - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
 - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
 - If seeking permission to use an equivalent
 - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.

All hardware has been properly installed, and the existing hardware was inspected.

The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings 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 as an "equivalent" and this approval is included as part of the contractor submission.

Antenna & equipment placement and Geometry Confirmation:

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.

Comments:

Certifying Individual:

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

Was the mount modification completed in conjunction with the equipment change / installation?

Yes No

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

Response:

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

Yes No

Contractor certifies no new damage/obstructions created during the current installation:

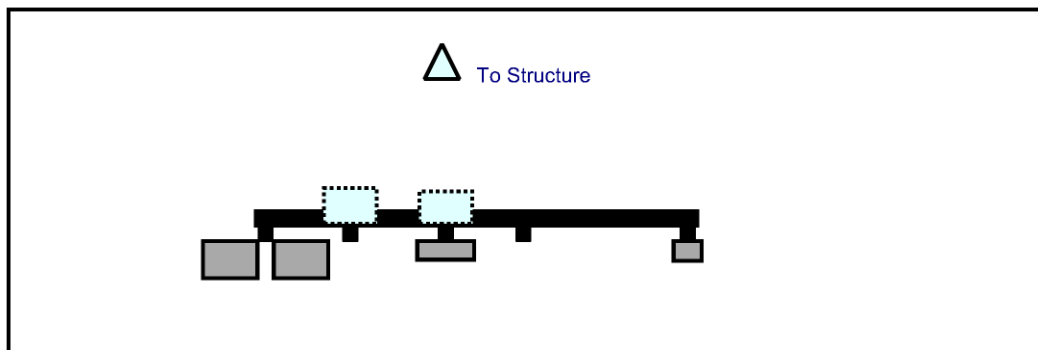
Yes No

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

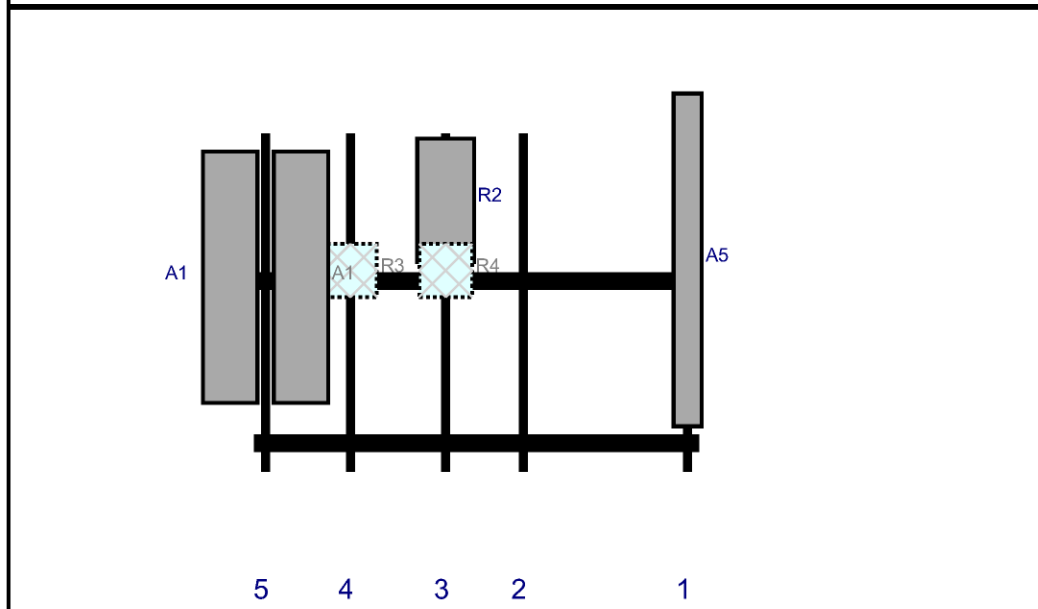
Safety climb in good condition with no obstructions Safety Climb Damaged
 Safety Climb Obstructed

Comments:

Plan View

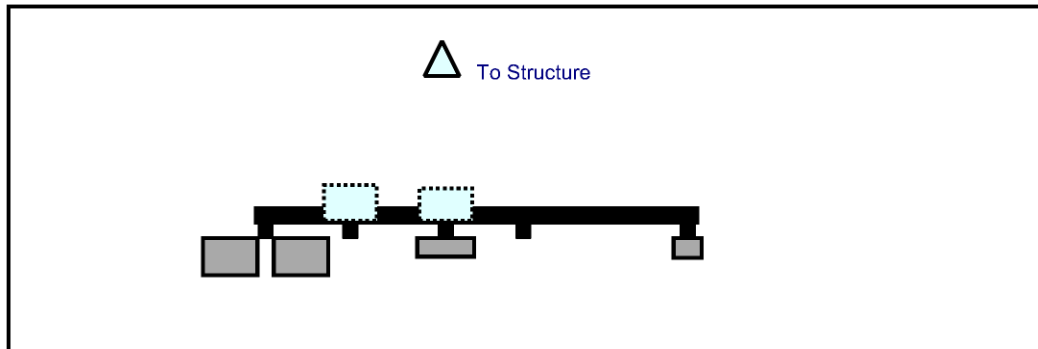


Front View
Looking at Structure

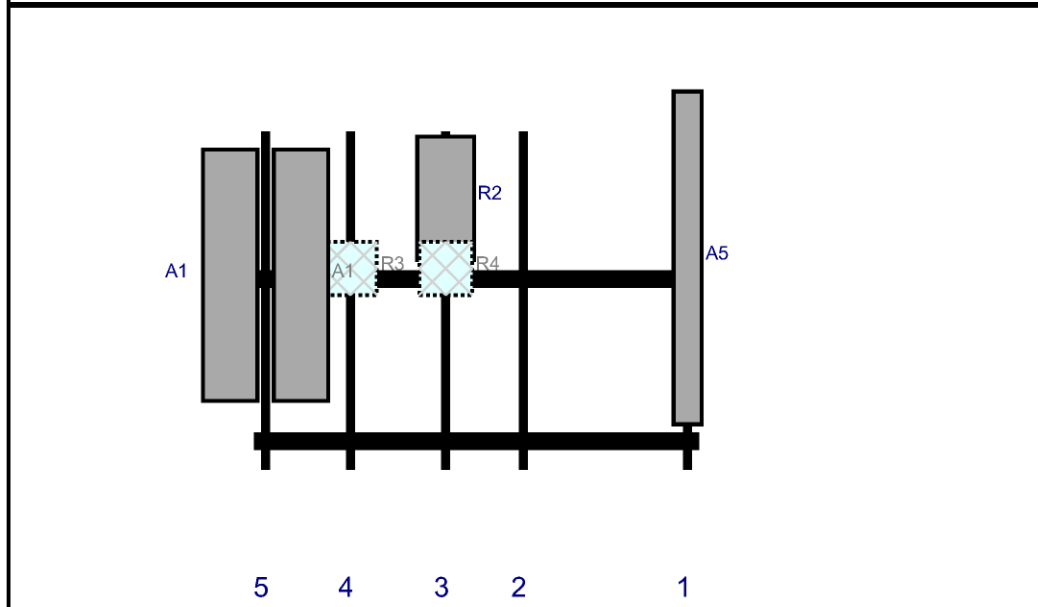


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	BXA-80090/8	94.6	8	122.75	1	a	Front	36	0	Retained	04/20/2021
R2	MT6407-77A	35.1	16.1	54.25	3	a	Front	19.02	0	Added	
R4	RF4440d-13A	15	15	54.25	3	a	Behind	39	0	Added	
R3	RF4439d-25A	15	15	27.25	4	a	Behind	39	0	Added	
A1	MX06FRO660-03	71.3	15.4	3.25	5	a	Front	41.04	10	Added	
A1	MX06FRO660-03	71.3	15.4	3.25	5	b	Front	41.04	-10	Added	

Plan View

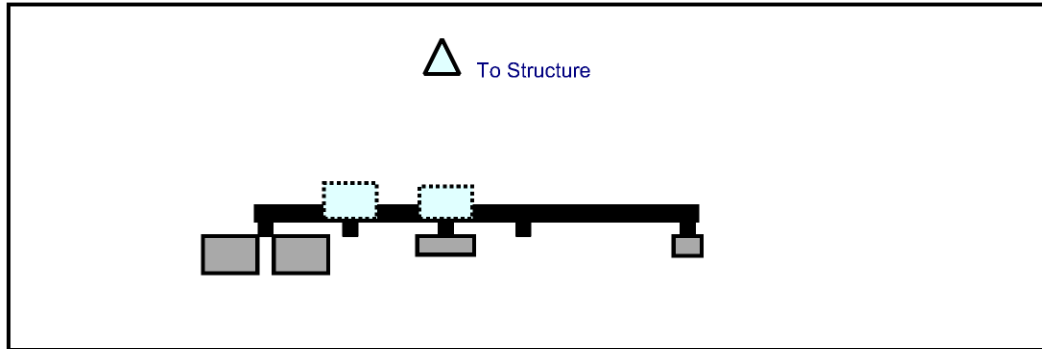


Front View
Looking at Structure

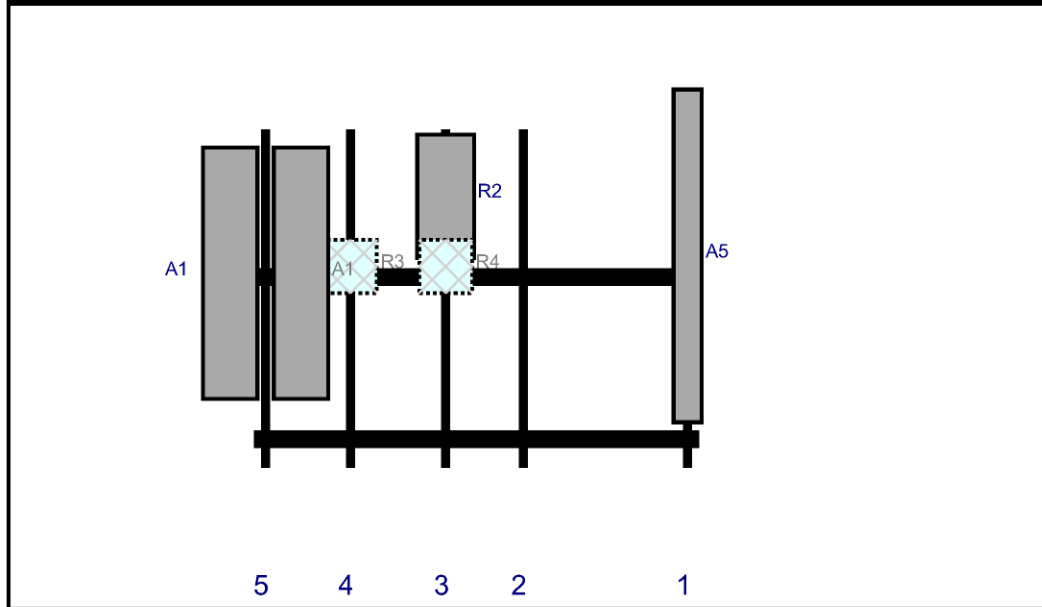


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	BXA-80090/8	94.6	8	122.75	1	a	Front	36	0	Retained	04/20/2021
R2	MT6407-77A	35.1	16.1	54.25	3	a	Front	19.02	0	Added	
R4	RF4440d-13A	15	15	54.25	3	a	Behind	39	0	Added	
R3	RF4439d-25A	15	15	27.25	4	a	Behind	39	0	Added	
A1	MX06FRO660-03	71.3	15.4	3.25	5	a	Front	41.04	10	Added	
A1	MX06FRO660-03	71.3	15.4	3.25	5	b	Front	41.04	-10	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
A5	BXA-80090/8	94.6	8	122.75	1	a	Front	36	0	Retained	04/20/2021
R2	MT6407-77A	35.1	16.1	54.25	3	a	Front	19.02	0	Added	
R4	RF4440d-13A	15	15	54.25	3	a	Behind	39	0	Added	
R3	RF4439d-25A	15	15	27.25	4	a	Behind	39	0	Added	
A1	MX06FRO660-03	71.3	15.4	3.25	5	a	Front	41.04	10	Added	
A1	MX06FRO660-03	71.3	15.4	3.25	5	b	Front	41.04	-10	Added	

Subject TIA-222-H Usage

Site Information Site ID: 467920-VZW / WILTON WEST CT
Site Name: WILTON WEST CT
Carrier Name: Verizon Wireless
Address: 160 Deer Run Road
Wilton, Connecticut 06897
Fairfield County
Latitude: 41.241372°
Longitude: -73.469889°

Structure Information Tower Type: 118-Ft Self Support
Mount Type: 10.50-Ft T-Frames

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2018 Connecticut State Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H Standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

GPD Group



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

WILTON WEST CT

SITE #: 467920

SMART TOOL PROJECT #: 10108062



MOUNT INFORMATION:

MOUNT TYPE: 10'-6" T-FRAME
 SITE LOCATION:
 LAT.: 41.241372°
 LONG.: -73.469889°
 STREET ADDRESS: 160 DEER RUN ROAD
 CITY, STATE ZIP: WILTON, CT 06897
 COUNTY: FAIRFIELD
 TOWER OWNER: SBA
 TOWER SITE NUMBER: CT98078

CODE COMPLIANCE:

GOVERNING CODES: TIA-222-H
 WIND SPEEDS: 116 MPH 3-SECOND GUST
 50 MPH 3-SECOND GUST (W/ ICE)
 ICE THICKNESS: 1"
 RISK CATEGORY: II
 EXPOSURE CATEGORY: B
 TOPO CATEGORY: 1
 SEISMIC CRITERIA:
 SITE CLASS: D
 RESPONSE COEFFICIENT (R): 2
 1-SECOND SPECTRAL RESPONSE ACCELERATION (S₁): 0.057
 SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (S_s): 0.243

PROJECT CONTACTS:

MASER CONSULTING CONTACT:
 PETER ALBANO
 PETER.ALBANO@COLLIERSENGINEERING.COM
 (856) 371-9457
 PROJECT #: 21777786

ENGINEER CONTACT:
 GPD ENGINEERING AND ARCHITECTURE
 PROFESSIONAL CORPORATION
 520 SOUTH MAIN STREET, SUITE 2531
 AKRON, OH 44311
 (330)572-2100
 FOR QUESTIONS PLEASE EMAIL:
 GPDMODS@GPDGROUP.COM

SHEET INDEX:

- T-01: TITLE SHEET
- N-01: PROJECT NOTES & INSPECTION CHECKLIST
- S-01: BILL OF MATERIALS
- S-02: CLIMBING FACILITY DETAIL
- S-03: MODIFICATION SCHEDULE & DETAILS
- S-04: DETAILS/PARTS
- P-01: MOUNT PHOTOS

CONTRACTOR PMI REQUIREMENTS:

PMI LOCATION: [HTTPS://PMI.VZWSMART.COM](https://pmi.vzwsmart.com)
 SMART TOOL PROJECT #: 10108062
 VZW LOCATION CODE (PSLC): 467920
 FUZE ID: 16092793

REFERENCED DOCUMENTS:

PASSING MOUNT ANALYSIS REPORT
 SMART TOOL PROJECT #: 10108062
 GPD PROJECT #: 2021740.467920.02
 ANALYSIS DATE: 10/19/2021

WILTON WEST CT
 160 DEER RUN ROAD
 WILTON, CT 06897

TITLE SHEET

ISSUED FOR	10/19/2021
PERMIT	10/19/2021
BID	
CONSTRUCTION	
RECORD	

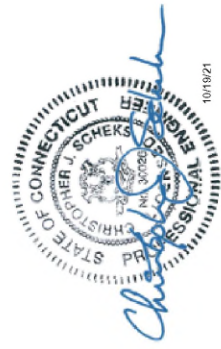
ENGINEER	DESIGNER
DATE	DATE
PROJECT NUMBER	APPROVED BY
DATE	DATE

JOB NO.
2021740.467920.02

T-01



REF	DATE	DESCRIPTION
0	10/19/21	FINAL RELEASE





REV	DATE	DESCRIPTION
0	10/19/21	INITIAL RELEASE

WILTON WEST CT
160 DEER RUN ROAD
WILTON, CT 06897

SUBJECT FOR PERMIT	10/19/2021
ISSUED	
CONSTRUCTION RECORD	

ENGINEER	DESIGNER
PROJECT MANAGER	APPROVED BY
DATE	C/S

JOB NO
2021740-467920.02

S-01

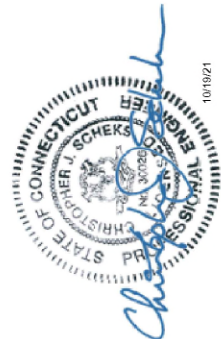
BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT	WEIGHT
12	VZWSMART	VZWSMART-ASK1	CROSSOVER PLATE ASSEMBLY		14	168
1	SITE PRO 1	12U-2030317	SAFETY CLIMB UNIVERSAL STAND-OFF ASSEMBLY		2	2
3		8-0"FP2.5 STD PIPE	MOUNT PIPE	SEE PAGE N-01 FOR STEEL GRADE REQUIREMENTS.	46	138
3		7-3/4"FP2 STD PIPE	STABILIZER PIPE	FIELD VERIFY REQUIRED LENGTH - SEE PAGE N-01 FOR STEEL GRADE REQUIREMENTS.	27	81
TOTAL						380

OTHER REQUIRED KITS

VZWSMART KITS - APPROVED VENDORS	
COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 394-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT FRAMBY
PHONE	(706) 335-7046 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-8173
EMAIL	WIRELESSALES@PERFECTVISION.COM
WEBSITE	WWW.PERFECTVISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-8937
EMAIL	AWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPROT.COM



NOTES:
1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

2.

REV	DATE	DESCRIPTION
0	10/25/21	INITIAL RELEASE

WILTON WEST CT
 160 DEER RUN ROAD
 WILTON, CT 06897
CLIMBING FACILITY DETAIL

SUBJECT FOR PERMIT	10/19/21
ISSUED FOR	10/19/21
CONSTRUCTION RECORD	

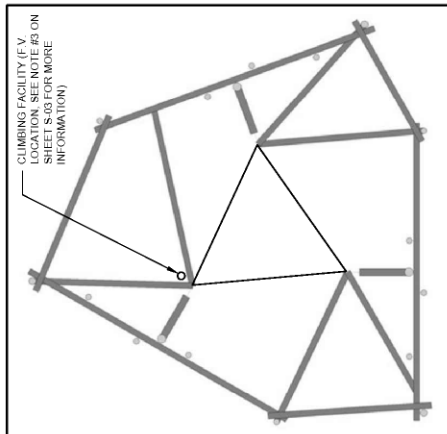
ENGINEER	DESIGNER
PROJECT MANAGER	APPROVED BY

JOB NO
 2021740-467920-02

S-02



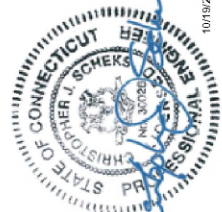
CLIMBING FACILITY PHOTO



CLIMBING FACILITY (S.V. LOCATION SEE NOTE #3 ON SHEET S-03 FOR MORE INFORMATION)

CLIMBING FACILITY LOCATION

- NOTES
- CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE CONNECTIONS AND SAFETY CLIMB WIRE ROPE CONNECTIONS TO THE EXISTING STRUCTURE. CONTRACTOR SHALL NOT CAUSE HARM TO THE STRUCTURE. CLIMBING FACILITY SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE OWNER (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCE.
 -


Christopher J. Scheeks
 10/19/21



REV	DATE	DESCRIPTION
0	10/19/21	INITIAL RELEASE

WILTON WEST CT
160 DEER RUN ROAD
WILTON, CT 06897

SUBJECT FOR PERMIT	10/19/2021
ISSUED FOR	10/19/2021
CONSTRUCTION RECORD	

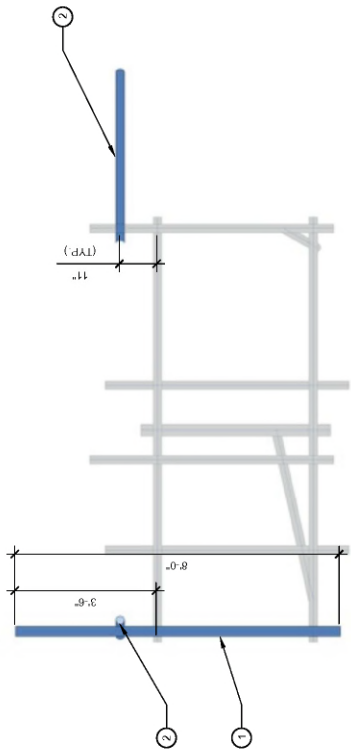
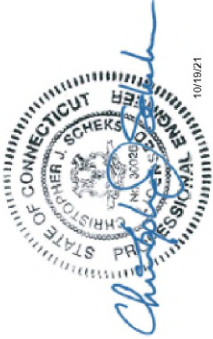
ENGINEER	DESIGNER
DATE	DATE
PROJECT MANAGER	APPROVED BY
DATE	DATE

JOB NO
2021740-467920.02

S-03

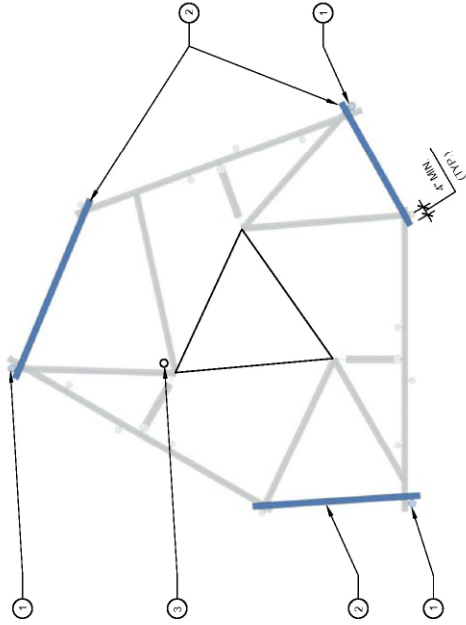
MOUNT MODIFICATION SCHEDULE			
NO.	ELEVATION	QUANTITY	DESCRIPTION
1		3	REPLACE EXISTING POSITIONS MOUNT PIPE WITH A NEW LARGER DIAMETER MOUNT PIPE. CONNECT NEW REPLACEMENT MOUNT PIPE TO EXISTING HORIZONTALS USING NEW CROSSOVER PLATE ASSEMBLIES (VERZON P/N VZWSMART-MSK1).
2	96'-02"	3	INSTALL A NEW STABILIZER PIPE CONNECTED TO MOUNT PIPES (E.V. REQUIRED) (SUNSHINE (OR OTHER)) TO CONNECT NEW STABILIZER PIPE TO MOUNT PIPES USING NEW CROSSOVER PLATE ASSEMBLIES (VERZON P/N VZWSMART-MSK1).
3		1	INSTALL NEW SAFETY CLIMB STAND-OFF ASSEMBLY TO TOWER LEG IN ORDER TO AVOID INTERFERENCE WITH MOUNT.

NOTES:
1. ANY SUBSTITUTION OF PARTS SPECIFIED IN THIS DESIGN PACKAGE SHALL REQUIRE ENGINEER APPROVAL PRIOR TO FABRICATION.
2. ALL MATERIAL REMOVED FROM MOUNT SHALL BE DISPOSED OF BY CONTRACTOR ON SITE.
3. ALL MATERIALS SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.

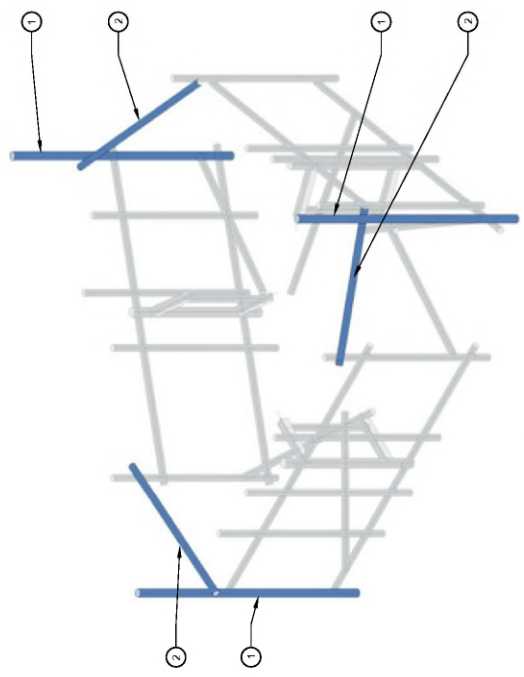


1 ELEVATION VIEW
S-03

NOTE:
1. DETAIL IS TYPICAL FOR ALL THREE SECTORS. ONLY ONE SECTOR SHOWN FOR DETAIL CLARITY.



2 PLAN VIEW
S-03



3 ISOMETRIC VIEW
S-03

REV	DATE	DESCRIPTION
0	10/25/17	INITIAL RELEASE

WILTON WEST CT
 160 DEER RUN ROAD
 WILTON, CT 06897

SHEET FOR	10/25/2017
PERMIT	
END	
CONSTRUCTION	
RECORD	

DESIGNER	OSMAN
DRAWN	OSMAN
CHECKED BY	MA
DATE	10/25/17
PROJECT MANAGER	APPROVED BY
DP	CSB

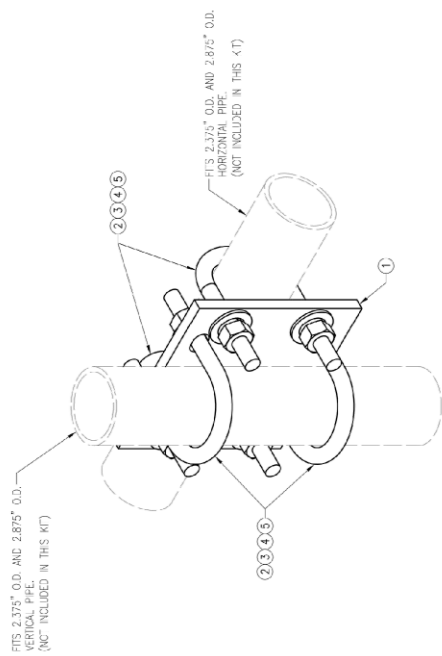
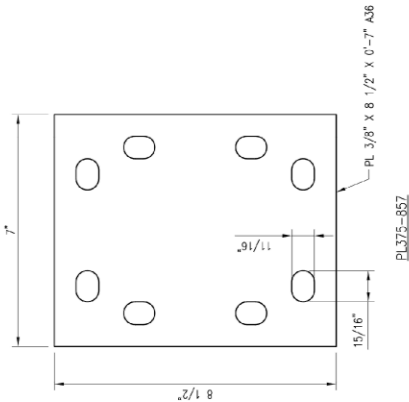
JOB NO
 2021740.467920.02

S-04

VzW
SMART Tool
Vendor
verizon

OWNER	ETHRIP	CHECKED BY	MA
REV	DESCRIPTION	BY	DATE
1	AS BUILT	MA	10/25/17
2	REVISION	MA	10/25/17
3	REVISION	MA	10/25/17
4	REVISION	MA	10/25/17
5	REVISION	MA	10/25/17
6	REVISION	MA	10/25/17
7	REVISION	MA	10/25/17
8	REVISION	MA	10/25/17
9	REVISION	MA	10/25/17
10	REVISION	MA	10/25/17

SHEET TITLE	VZWSMART-MSK1 CROSSOVER PLATE
SHEET NUMBER	VZWSMART-MSK1 0
REV #	0



REFERENCE ONLY

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	1	PL375-857	PL 3/8" X 8 1/2" X 0-7" A36	MSK1-1	6	
2	4	MS02-622-300-500	RL-BOLT 5/8" X 3" LW X 5" TL A36 (OR EQUIV.)	REC-1	5	
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1	
4	8	LW-625	5/8" HDG LOCK WASHER	---	0	
5	8	NUT-625	5/8" HDG HEX NUT	---	1	
					GALVANIZED WT	14

NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.



DESIGN DRAWING
PREPARED FOR
WILTON WEST CT
SITE # 49220
SMART TOOL PROJECT # 1010002

VERIZON

REV	DATE	DESCRIPTION
0	10/9/21	INITIAL RELEASE

WILTON WEST CT
160 DEER RUN ROAD
WILTON, CT 06897

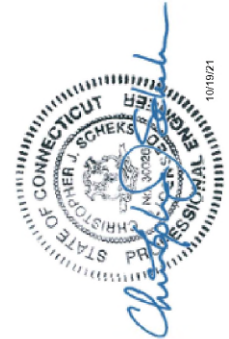
MOUNT PHOTOS

SUBJECT FOR PERMIT	10119221
END	
CONSTRUCTION RECORD	

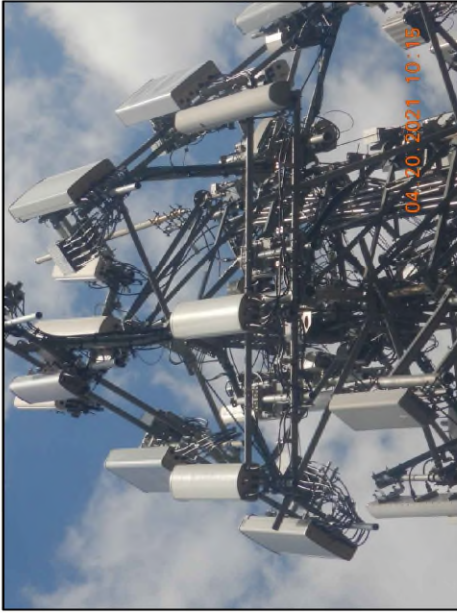
ENGINEER	DESIGNER
DATE	DATE
PROJECT MANAGER	APPROVED BY
DATE	C/S

JOB NO
2021740-467920.02

P-01



10119221



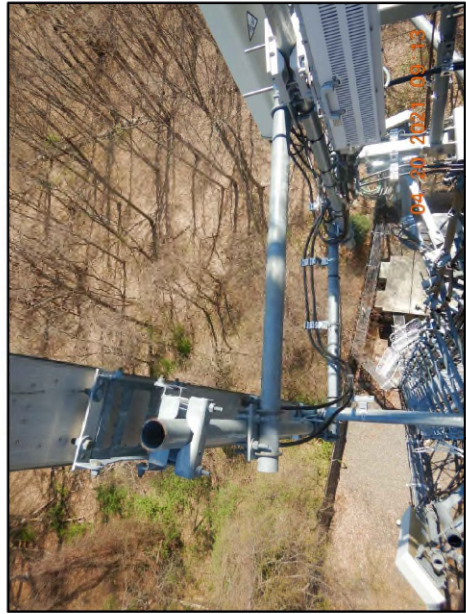
MOUNT PHOTO



MOUNT PHOTO



MOUNT PHOTO



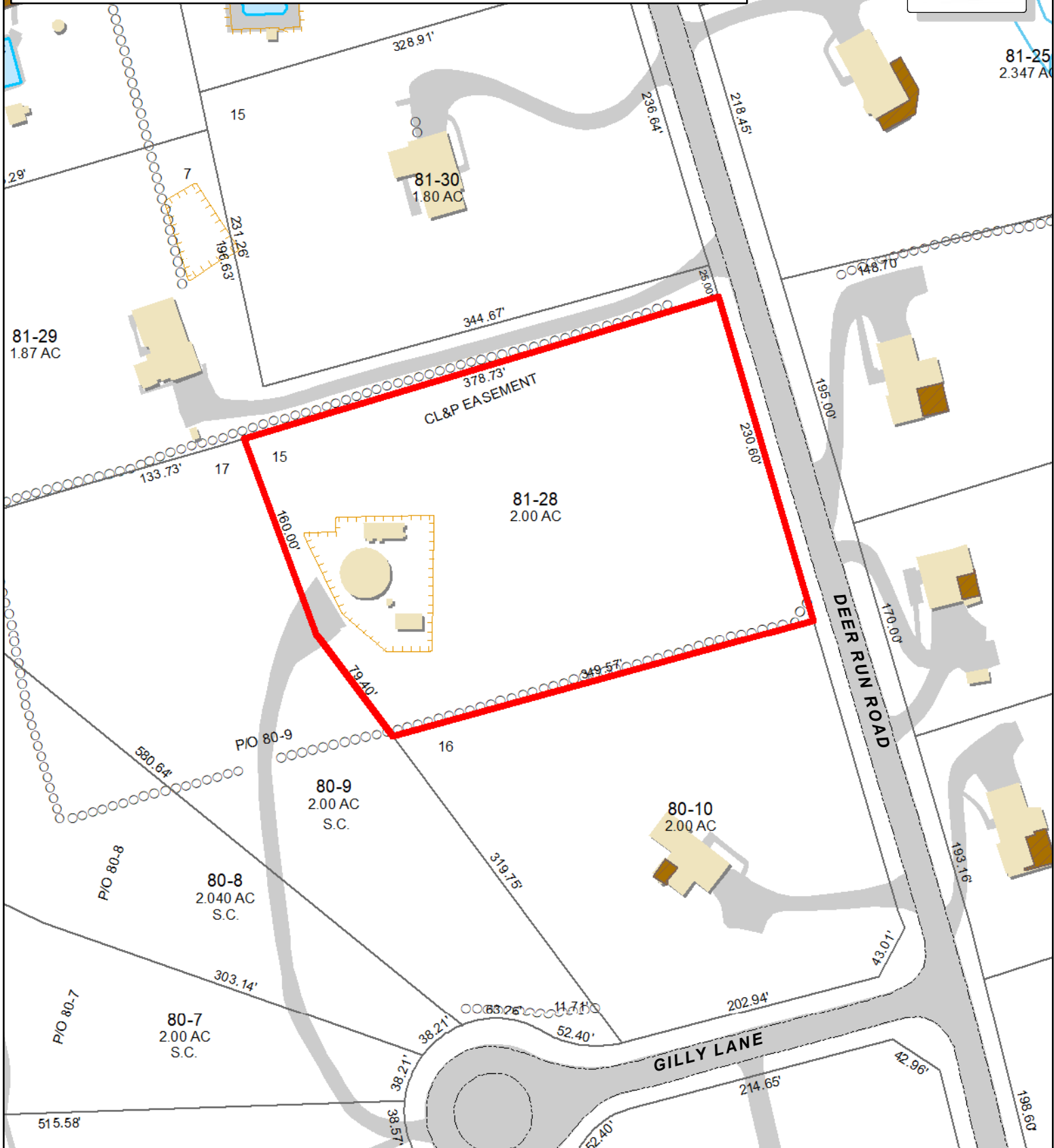
MOUNT PHOTO

ATTACHMENT 5

Town of Wilton, Connecticut - Assessment Parcel Map

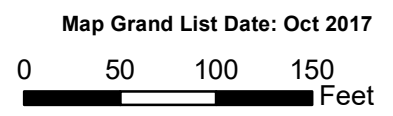
MBL: 81-28

Address: 160 DEER RUN RD



Approximate Scale:
1 inch = 100 feet

Disclaimer:
This map is for informational purposes only.
All information is subject to verification by any user.
The Town of Wilton and its mapping contractors
assume no legal responsibility for the information contained herein.





Town of Wilton, CT

Property Listing Report

Map Block Lot

81-28

Account

001780

Property Information

Property Location	160 DEER RUN RD
Owner	WESTPORT BROADCASTING CO LLC
Co-Owner	
Mailing Address	PO BOX 1041 VIRGINIA BEACH VA 23451
Land Use	2-1V Commercial
Land Class	C
Zoning Code	R-2
Census Tract	
Sub Lot	
Neighborhood	05
Acreage	2
Utilities	
Lot Setting/Desc	Above Street
Survey Map	
Foundation	1

Photo



Sketch

Primary Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Floors	
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

Exterior Walls	
Interior Walls	
Heating Type	
Heating Fuel	
AC Type	
Gross Bldg Area	
Total Living Area	



Town of Wilton, CT

Property Listing Report

Map Block Lot **81-28**

Account **001780**

Valuation Summary (Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	0	0
Extras	0	0
Outbuildings	286800	200760
Land	733200	513240
Total	1020000	714000

Outbuilding and Extra Items

Type	Description
Shed Good	476 S.F.
CELL TOWER	1 UNITS
Patio	892 S.F.
Fence 6'	180 L.F.

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		0

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
WESTPORT BROADCASTING CO LLC	1081/0146	2/11/1998	400000
FLAMM, DONALD	0177/0277	6/27/1972	50000

ATTACHMENT 6



**WILTON WEST
Certificate of Mailing — Firm**

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here <i>Postmark with Date of Receipt.</i>
	Postmaster, per (name of receiving employee) 		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Lynne Vanderslice, First Selectwoman Town of Wilton 238 Danbury Road Wilton, CT 06897				
2.	Michael Wrinn, Director of Planning & Land Use Management/Town Planner Town of Wilton 238 Danbury Road Wilton, CT 06897				
3.	Westport Broadcasting Co. LLC P.O. Box 1041 Virginia Beach, VA 23451				
4.					
5.					
6.					