

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

February 28, 2022

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

**RE: Notice of Exempt Modification // Site: Harwinton N CT (ATC: 302502)
159 Weingart Road, Harwinton, CT 06791
N 41.78775 // W 73.0925**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 175-foot mount on the existing 185-foot monopole tower, located at 159 Weingart Road, Harwinton, CT 06791. The tower is owned by American Tower. The property is owned by SBA Tower Holdings LLC, P.O. Box 723, Atlanta, GA 31139.

Verizon Wireless facility was approved for colocation by the Council in 2008. Verizon Wireless now intends to remove 12 RRU's, add 3 antennas, 6 RRU's and 3 diplexers for the 5G upgrades.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to, its First Selectman, Michael Criss, Michelle Rewenki, Zoning Chairman, American Tower, the tower owner, and to the ground owner, SBA Tower Holdings, LLC.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated June 21, 2021 and a structural analysis dated July 8th 2021 by A.T. Engineering Service, PLLC, a structural mount analysis by Maser Consulting Connecticut dated May 21, 2021 and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

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

2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by A.T. Engineering Service, PLLC, dated July 8th 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final mount and handrail reinforcement modification dated May 21st 2021 and construction drawings dated, signed and stamped June 21st 2021.

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

Sincerely,

John Coleman

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Attachments

cc: Michael Criss, First Selectman - as chief elected official
Michelle Ruwenko, Zoning Commission Chair - as P&Z official
American Tower Corporation - as tower owner
SBA Holdings, LLC- as property owner

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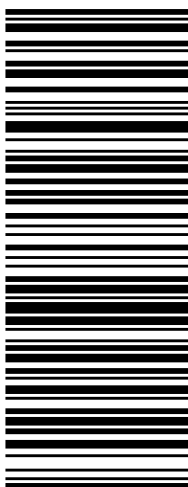

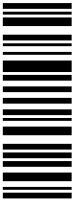
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<p style="text-align: right;">1 LBS</p> <p style="text-align: right;">1 OF 1</p> <p>KAREN KILBY 860-830-8847 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: FIRST SELECTMAN 8604859051 MICHAEL CRISS 100 BENTLEY DRIVE HARWINTON CT 06791-2200</p>	<p style="font-size: 2em;">CT 067 9-02</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0057 8533</p> 	<p>BILLING: P/P</p>  <p>Reference # 1: 302502 Reference # 2: Harwinton CT <small>CS 22.0.1g WINTNV50 31.0A 07/2021*</small></p> <p style="text-align: center;">302502</p> 
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Tracking Number

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Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

07/30/2021

Delivered On

08/05/2021 10:13 A.M.

Delivered To

HARWINTON, CT, US

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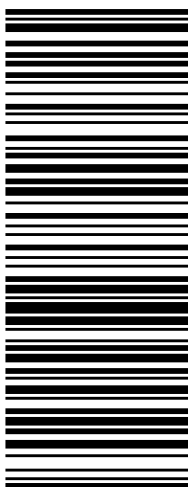

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302502



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Weight

1.00 LBS

Service

UPS Ground

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08/05/2021 10:13 A.M.

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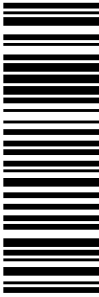
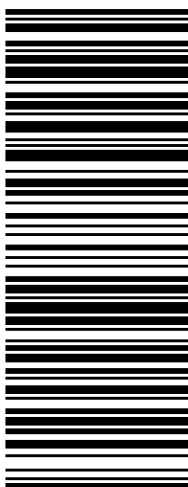

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1Z9Y45030313798558

Weight

1.00 LBS

Service

UPS Ground

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Delivered On

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Delivered To

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			<p>302502</p> 

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Weight

1.00 LBS

Service

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07/30/2021

Delivered On

08/13/2021 5:20 P.M.

Delivered To

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DOCKET NO. 138 -- An application of SNET Cellular, Inc., for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of cellular facilities in the Towns of Plymouth, Harwinton, Winchester, and New Milford, Connecticut.

Connecticut
Siting
Council

November 26, 1990

FINDINGS OF FACT

1. SNET Cellular, Inc. (SNET), in accordance with the provisions of Sections 16-50g to 16-50z of the Connecticut General Statutes (CGS), applied to the Connecticut Siting Council (Council) on May 23, 1990, for a Certificate of Environmental Compatibility and Public Need (Certificate) for the construction, maintenance, and operation of four telecommunications towers and associated equipment to provide domestic public cellular radio communication service (cellular service) in the Towns of Harwinton, New Milford, Plymouth, and Winchester, Connecticut, within the Litchfield County Rural Service Area (RSA). (Record)
2. The Applicant submitted proof of service as required by CGS Section 16-501. (SNET 1, Section 1; SNET 3)
3. Public notice of the application, as required by CGS Section 16-501 was published in the following:
The New Milford Times, on May 17 and 24, 1990;
The Bristol Press, on May 21 and 22, 1990;
The Register-Citizen, on May 21 and 22, 1990; and
The Danbury News Times, on May 21 and 22, 1990.
(SNET 1, Section 1, pp. 5-8)
4. Corrections to the service list and supplemental legal notices were submitted by SNET on June 13, 1990. Corrected public notices were published in the Danbury News Times on June 1, June 13, and June 14, 1990, and in the New Milford Times on June 7, and 14, 1990. (SNET 3)
5. After giving due notice thereof, the Council and its staff made an inspection of the proposed and alternate Harwinton, Plymouth, and Winchester sites, and the proposed New Milford site on August 27, 1990. (Record)
6. Pursuant to CGS Section 16-50m, the Council, after giving due notice thereof, held a public hearing for the proposed application on August 27, 1990, beginning at 3:30 P.M. and reconvening at 7:00 P.M. in the Community Room, Plymouth Town Hall, 19 East Main Street, Terryville, Connecticut. (Record)

7. The parties and intervenors to the proceeding are the applicant and the persons and organizations whose names are listed in the Decision and Order, which accompany these Findings of Fact. (Record)
8. The Department of Environmental Protection (DEP) filed written comments with the Council pursuant to CGS Section 16-50j in a letter dated June 12, 1990. (Record)
9. In 1981, the Federal Communications Commission (FCC) recognized a national need for technical improvement, wide area coverage, high quality service, and competitive pricing in mobile telephone service. (SNET 1, Section III, p. 1)
10. The FCC has promulgated regulations for cellular service in the following areas: technical standards to assure technical integrity of systems for nationwide compatibility, market structure, and state certification prior to federal application for a construction permit. (SNET 1, pp. 2, 3; SNET 1, Section III, pp. 3, 4)
11. The FCC has pre-empted State regulation in determining that a public need currently exists for cellular service, setting technical standards for that service, and establishing a competitive market. Applicants for FCC cellular system authorizations are not required to demonstrate a public need for the service. (SNET 1, pp. 3, 4; SNET 1, Section III, pp. 3, 4)
12. The FCC has determined that the public interest requires two licenses for cellular service be made available in each market area or RSA to provide competition. One license is awarded to a wireline company, the other to a non-wireline company. (SNET 1, pp. 2, 3)
13. The FCC allocated 832 channels from a frequency spectrum of the 870-890 MHz band. Half of the channels were awarded to a "wireline" carrier and the other half to a "non-wireline" carrier. (SNET 1, pp. 2, 3)
14. An application by SNET proposing construction and operation of four cellular facilities in the Litchfield County RSA was submitted to the Council on September 25, 1989. On November 22, 1989, the Council ruled to dismiss this application without prejudice until such time SNET receives the necessary Federal Communications Commission (FCC) licenses to construct and operate cellular facilities in the Litchfield County RSA. (Docket 119 Record)
15. On April 25, 1990, the FCC authorized SNET to be the wireline service provider in the Litchfield County RSA by granting SNET a license to construct and operate the

four proposed facilities. (SNET 1, pp. 4, 5; SNET 1, Exhibit III, pp. 2, 3; SNET 4, Q-6)

16. Pikeville Cellular Partnership (Pikeville) was admitted to this proceeding as an intervenor. Pikeville was granted the non-wireline service license to construct and operate a cellular facility in the Litchfield County RSA on April 13, 1990, by the FCC. (Record; Tr. II. pp. 56, 57)

Cellular Technology

17. Cellular service consists of small, overlapping radio broadcast regions, two to ten miles in diameter, known as cells. The original technical standards of the FCC limited each cell to no more than 100 watts effective radiated power per channel. The RSA cells are presently limited to an output of 500 watts effective power per channel. The proposed cells would accommodate a maximum of 45 cellular channels. Each cell is connected to a central switching station containing electronic apparatus uniting the cells into a system. The system design provides for frequency reuse and call transfer (hand off), orderly expansion, and compatibility with other cellular systems. (SNET 1, Section II, pp. 2-6; Section III, pp. 3, 4; SNET 4, Q-10)
18. Use of digital technology would increase the number of channels that could be derived from the frequencies assigned. (Tr. I, pp. 23, 24)
19. In cellular systems, mobile units are currently limited to a maximum of seven (7) watts transmitting power. Cell coverages must overlap in order for an active mobile unit to continue operating as it travels from one coverage area to another coverage area. This "hand-off" allows calls to continue uninterrupted. (SNET 1, Exhibit II, pp. 2-6)
20. SNET has designed a system that would provide continuous cellular coverage from existing service areas through proposed service areas in the new RSA. Computer modeling was used to predict the best possible coverage within each area through the use of a minimum number of overlapping cell sites. (SNET 1, Section IV, pp. 4, 5)
21. SNET's computer modeling was used to select a geographical search area within each cell containing the elevations needed for potential tower sites. The modeling predicts the minimum tower heights at these selected locations for the optimal coverage needed within each area. (SNET 1, Section IV, p. 5)

22. SNET's system would attempt to cover the area along Route 8 from Waterbury north to the state line with as few tower sites as possible. The proposed sites in Plymouth, Harwinton, and Winchester would help link most of Route 8 from Bridgeport to Winsted. A future unspecified and presently undeveloped site in the Seymour-Beacon Falls area would complete the link. (Tr. I, pp. 24, 25, 29, 30)
23. SNET's system is designed to provide the flexibility to add future facilities between existing cell sites for increased call capacity. Each major cell site would have secondary and tertiary search areas for cell splitting locations. The FCC requires this ability to expand the system. (Tr. I, pp. 26, 27)
24. SNET has no present plans to exceed 100 watts effective radiated power per channel at any of its proposed or alternate sites, given the technology currently in use. Increasing authorized power above 100 watts could cause interference, intermodulation, and frequency reuse problems. (SNET 4, Q-10; Tr. I, p. 22)
25. Initially, SNET would install about 12 channels at each of the proposed cell sites. Expansion to 45 channels would be possible when service demand made it necessary. (Tr. I, pp. 25, 26)
26. The antennas to be used at all sites would initially be 12-foot long by three inches in diameter omnidirectional whip antennas. A minimum of four or a maximum of six antennas would be mounted vertically at the corners of the triangular platform. If necessary, directional antennas would be mounted within the triangle, out of sight, behind a fiberglass cover of the triangular sides. The whip antennas would add twelve feet to the overall height of the tower structure. The total height from ground level to the top of the antennas for a 150-foot tower would be 162 feet or, from a 180-foot tower, 192 feet. (SNET 1, Exhibit V, pp. 4, 7)
27. The supporting structures would be monopole towers either 150 feet or 180 feet high. At the top of each monopole, a triangular-shaped platform would be attached to hold the affixed cellular antennas. The triangular support is approximately ten feet wide and increases the height of the structure by four feet. The monopole would be attached to a reinforced concrete base approximately twenty-foot square and eight feet deep. All structures would be designed to withstand 125 mile per hour winds with two inches of radial ice. (SNET 1, Section V, pp. 3 and 3A)

Facility Construction

28. On each proposed or alternate site, SNET would construct a monopole tower and a single story equipment building approximately 12 feet by 26 feet by 10 feet high. Each site would be accessed by a driveway and would contain sufficient parking space for a technician's vehicle. Eight-foot high chain link security fences would surround the tower and building sites. Security and fire alarm systems would be installed within each building. (SNET 1, Section V, pp. 1, 2; SNET 4, Q-18)
29. The physical structures on each site would not produce any air pollutants. No noise would be emitted except for air conditioning. Any construction noise created during site preparation would be temporary. No permanent emergency generator would be located on any site. (SNET 1, Section VI, pp. 18, 19; SNET 1, Section VIII, pp. 16, 17; SNET 1, Section X, pp. 16, 17; SNET 1, Section XII, pp. 19, 20)
30. None of the seven proposed or alternate sites contain inland wetlands within their boundaries. No access road for any of these sites would cross any inland wetland. (SNET 4, Q-3)
31. SNET has communicated with Pikeville and the Connecticut State Police regarding the shared use of towers in Litchfield County. (Tr. II, p. 52)
32. The Federal Aviation Administration has determined that the towers to be constructed on the proposed or alternate sites would not cause an obstruction to air navigation and that no tower would be required to be marked or lit for air traffic. (SNET 1, p. 5; SNET 1, Section IV, p. 4; SNET 1, Section VI, p. 29; Section VIII, p. 27; Section X, p. 27; Section XII, p. 30; SNET 4, Q-19)

Plymouth: Proposed

33. SNET would construct a 180-foot monopole tower with antennas and an associated equipment building on the proposed Plymouth site off North Street. (SNET 1, Section VI, p. 1)
34. The proposed Plymouth cell site is planned to overlap coverage areas from SNET's existing Waterbury cellular facility and a proposed Harwinton cell site in the Litchfield RSA. (SNET 1, Section VI, pp. 1, 2, 32)
35. Coverage from the proposed site would include sections of Routes 4, 6, 8, 72, 109, 222, and 254, within the Towns of Harwinton, Thomaston, Burlington, Watertown,

Morris, and Litchfield, and the City of Bristol. (SNET 1 Section VI, p. 1)

36. SNET considered seven potential cell site locations, including existing tower sites, rejecting five to provide cellular coverage in the Plymouth-Thomaston area. There are 24 existing tower sites located within a 10-mile radius of the proposed and alternate sites. (SNET 1, Section VI, pp. 3-8)
37. The proposed Plymouth site would be a leased 100-foot by 100-foot section within the interior of a 41.5 acre wooded parcel owned by Francis and Barbara Bart and Raymond and Brenda Lagosz. SNET has negotiated a leasing option agreement with the property owners. The tower site would be situated approximately 500 feet west of North Street and 1000 feet west by northwest of the intersection of North Street and Barry Road, Plymouth. The site is located in an area zoned Residential. (SNET 1, Section VI, pp. 1, 2, 9, 12, 13, 16; SNET 4, Q-18 Attachment)
38. The elevation of the Plymouth proposed site varies from 807 feet to 823 feet above mean sea level (AMSL). The average elevation of the proposed site is about 820 feet (AMSL). (SNET 1, Section VI, pp. 12, 24, 29; SNET 4, Q-18 Attachment)
39. The proposed tower and equipment building would be located totally within the property lines of the land owner. The fall zone of the proposed tower would lie entirely within the lessor's property. (SNET 1, Section VI, pp. 12, 13, 17; SNET 4, Q-18 Attachment)
40. The nearest residence, owned by the lessor, is situated about 200 feet from the proposed site. There are 34 residences located within a 2000-foot radius of the proposed site. (SNET 4, Q-4, Q-18 Attachment)
41. The proposed site would be accessed from an existing 850-foot driveway off North Street and along a new, approximately 265-foot long, gravel roadway constructed by SNET to link the driveway to the proposed site. Utility services would run from the driveway to the leased site. (SNET 1, Section VI, pp. 13, 16; SNET 4, Q. 2-18 attachment)
42. The parcel is undeveloped except for a barn and fenced area used for boarding horses. Trees shield the proposed site along its northern and western borders. Nearby adjacent transmission structures would further minimize the visual impact of the proposed facility. (SNET 1, Section VI, pp. 16, 33)

43. The facility plot is slightly sloped while the tower site is basically level; therefore, grading would be slight and should pose no drainage problems. Water runoff areas would be constructed to minimize erosion. SNET would use erosion control measures including hay spread on loose soil, haybales, crushed stone, erection of temporary sediment basins, and sediment fences to mitigate the effects of sedimentation. Some trees and brush would be cleared from the edge of the site. (SNET 1, Section VI, p. 18; SNET 4, Q-18 Attachment, Q-25)
44. After construction, water quality on or surrounding the proposed site would remain unchanged. No water services would be installed in the equipment building. (SNET 1, Section VI, p. 18)
45. The principal aesthetic impact would be visibility of the towers. SNET would paint the tower a mixed blue-grey color to blend against the background of the sky. (SNET 1, Section VI, p. 20)
46. The Natural Resources Center of the DEP has determined that there are no known extant populations of federally endangered and threatened species or Connecticut "species of special concern" occurring at the site. (SNET 1, Section VI, p. 21)
47. The Connecticut Historical Commission and the Office of State Parks and Recreation have determined that the proposed and alternate cell sites do not represent any historical, cultural, or recreational significance to Connecticut and would not have any effect on any historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places. (SNET 1, Section VI, p. 23)
48. Based on conservative assumptions with a maximum of 45 channels operating simultaneously at maximum power, the worst case power density level as measured at the base of the tower at a vertical distance of 189 feet, would be 0.082270 mW/cm². The power density at the nearest residence, a distance from the antennas of 313 feet, would be 0.02920 mW/cm², many times lower than the current Connecticut standard of 2.933 mW/cm² for 880 MHz. (SNET 1, Section VI, p. 24)
49. The estimated construction costs to be incurred by SNET are as follows:

Radio equipment	\$179,515
Antenna equipment and tower	64,000
Power and associated equipment	171,570
Land and building	256,500
Miscellaneous	<u>77,700</u>
Total	\$749,285

(SNET 1, Section VI, p. 25)

50. If approved, site construction and testing would be completed in December 1990. The facility could be operational before the end of 1990. (SNET 1, Section VI, p. 26)
51. SNET met or communicated with Plymouth and Thomaston town officials in 1989 and 1990 regarding the planning for a Plymouth site. No town officials made any specific recommendations regarding a site location for the facility. (SNET 1, Section VI, pp. 30-31; Tr. II, p. 47)
52. SNET has not been contacted by any Plymouth municipal official regarding the use of a Plymouth tower for municipal agency antennas. (Tr. II, p. 51)

Plymouth: Alternate

53. SNET would construct a 150-foot monopole tower with antennas and a one-story equipment building as an alternate site off North Street. (SNET 1, Section VII, p. 1)
54. The alternate Plymouth site would be a 100-foot by 100-foot plot on a parcel of land owned by Raymond and Brenda Lagosz and Francis and Barbara Bart, located on the west side of North Street approximately 700 feet north of the intersection of North Street and Barry Road. The alternate Plymouth site would be situated approximately 500 feet southeast of the proposed site. SNET has a leasing option agreement with the property owner for use of the site. The site is located in an area zoned Residential. (SNET 1, Section VII, pp. 1, 3-5,8,9,11,15; SNET 4, Q-18 Attachment)
55. The site elevation of the Plymouth alternative site ranges from about 840 feet to 849 feet AMSL. The average site elevation is approximately 848 feet AMSL, about 28 feet higher than the proposed site. (SNET 1, Section VII, p. 1, 3-6, 8, 9, 11, 15; SNET 4, Q-18 Attachment)
56. The alternate site would be accessed from the same gravel driveway as the proposed site. A new gravel extension, approximately 100 feet long, would link the middle section of the existing driveway about 440 feet from North Street, to the site. Utilities would be provided from an existing line along the existing driveway and proposed accessway. (SNET 1, Section VII, p. 8; SNET 4, Q-18 Attachment)
57. The alternate site is level and bordered by a tree line on the eastern and northern sides. Due to a lesser number of shielding trees, the tower could be more

visible to area residences, as it would be located about 500 feet closer to North Street. (SNET, Section VII, p. 8)

58. No cut or fill work of the driveway would be needed, but some minor grading would be required to level the driveway and tower site. Some small trees and bushes would be cleared from the area surrounding the site. (SNET 1, Section VII, p. 8; SNET 4, Q-25)
59. The closest residence is located 275 feet from the alternate site. There are 31 residences within a 2000-foot radius of the alternate site. (SNET 4, Q-4)
60. The fall zone of the alternate tower would include the lessor's property and the properties of Raymond and Brenda Lagosz and Hugh and Dorothy Johnston. (SNET 4, Q-18 Attachment)
61. Based on conservative assumptions, with a maximum of 45 channels operating simultaneously at maximum power, the worst case power density level would be 0.11624 mW/cm² as measured at the alternate tower base, 159 feet below the antennas, and 0.03692 mW/cm² as measured at the nearest residence about 282 feet from the antennas, well below the current Connecticut standard of 2.933 mW/cm² for 880 MHz. (SNET 1, Section VII, p. 9)
62. The estimated construction cost to be incurred by SNET is as follows:

Radio equipment	\$179,515
Antenna equipment and tower	57,000
Power and associated equipment	171,570
Land and building	263,000
Miscellaneous	<u>77,700</u>
Total	\$748,785

(SNET 1, Section VII, p. 10)

63. If approved, site construction and testing would be completed in December 1990. The facility could be operational before the end of 1990. (SNET 1, Section VII, p. 11)

Harwinton: Proposed

64. SNET would construct a 180-foot, self-supporting monopole tower with antennas and associated equipment building on the proposed site off Weingart Road. (SNET 1, Section VIII, p. 1)
65. The proposed Harwinton cell site is planned to overlap coverage areas from SNET's proposed Plymouth and Winchester sites. (SNET 1, Section VIII, pp. 1, 2)

66. The coverage from the proposed Harwinton site would include a large section of Route 8 and parts of Routes 4, 72, 118, 183, 202, and 222. The cell would provide service to Harwinton, Litchfield, Burlington, and Goshen. (SNET 1, Section VIII, pp. 1, 29)
67. Reducing the height of the proposed tower from 180 feet to 150 feet would lose coverage of five miles along Route 8, two miles on Route 118, two miles on Route 4, and 1.5 miles on Route 163. (Tr. I, pp. 39, 40)
68. SNET considered nine potential sites, including existing tower sites, rejecting seven to provide coverage in the Harwinton-Torrington area. There are 15 existing tower sites within a 10-mile radius of the proposed and alternate sites. The reasons for rejection included insufficient coverage due to excessive distance outside the search area, site inaccessibility, unavailability of space on an existing building, and lack of interest in leasing land to SNET by a property owner. (SNET 1, Section VIII, pp. 3-4A)
69. The proposed site would be a slightly sloped 100-foot by 100-foot section of a 5.4 acre parcel owned by John J. and Clara D. Basile located approximately 100 feet east of Weingart Road and 1600 feet northeast of Clearview Avenue, Harwinton. The property is bordered on the north by a high voltage electrical transmission line owned by Northeast Utilities. The parcel is located in an area zoned Town Residential (TR). (SNET 1, Section VIII, pp. 2, 8, 11, 12; SNET 4, Q-18 Attachment, SNET 8)
70. The Harwinton proposed site elevation ranges from 1008 feet to 1030 feet AMSL. After grading, the average elevation of the proposed site would be about 1019 feet AMSL. (SNET 1, Section, VIII, p. 22, 27; SNET 4, Q-14)
71. The proposed tower and equipment building would be located totally within the property lines of the land owner. SNET has negotiated a leasing option with the property owners for use of the land for a cellular facility. The fall zone of the tower would lie entirely within the lessor's property. (SNET 1, Section VIII, pp. 1, 12, 15, 17; SNET 4, Q-18 Attachment)
72. The nearest residence, owned by Karen Fowler would be about 285 feet from the proposed site. There are 63 residences located within a 2000-foot radius of the site. (SNET 4, Q-4)
73. SNET could move the proposed Harwinton site north and closer to an electric transmission line ROW since the site owner has no objection to this move. However, SNET states that any northerly movement could result in tower

fall zone intrusion onto property owned by Rocky River Realty, a company owned by Northeast Utilities Company. Rocky River Realty Company informed SNET that no part of its land off Weingart Road would be available to SNET. (SNET 4, Q-13; SNET 7, pp. 1-3)

74. The site is sloped, undeveloped, and wooded, which provides some screening from streets and nearby residences in the area. Some grading, and cut and fill work would be needed for the construction of the tower foundation, building, and bituminous accessway. Trees, boulders, and underbrush would be cleared from the tower site and along the accessway from Weingart Road. (SNET 1, Section VIII, pp. 15, 16, 19; SNET 4, Q-18 Attachment; Q-25; SNET 8; Tr. II, pp. 17-19)
75. The accessway would be a bituminous concrete driveway approximately 300 feet long by 12 feet wide, rising from an elevation of 982 feet at Weingart Road to 1022 feet at the site's security fence. A 25-foot wide utility and access easement covers the entire length of the proposed driveway. SNET would need to break through a stone wall when constructing the driveway to the site. The path through the stone wall would be required due to the grading of the slope in that area. (SNET 4, Q-18 Attachment; SNET 8; Tr. II, pp. 15-17, 20-22)
76. The effects of construction on waterflow would be minimal. Water runoff would be channelized to minimize erosion. SNET would use erosion control measures such as the spreading of hay on loose soil, gravel, haybales, or the construction of temporary sediment basins to mitigate the effects of sedimentation. (SNET 1, Section VIII, pp. 15, 16, 19; SNET 8; Tr. II, pp. 17-19)
77. Water quality on or surrounding the proposed site would remain unchanged as a result of construction. No water services would be installed in the equipment building. (SNET 1, Section VIII, p. 16)
78. The principal aesthetic impact would be the visibility of the tower from some areas including parts of Lake Harwinton. SNET would paint the tower a mixed blue-grey color to blend against the background of the sky. The site is surrounded by tall, mature trees, which would help reduce the visual impact of the tower. (SNET 1, Section VIII, p. 18; Tr. I, p. 39)
79. The Natural Resources Center of the DEP has determined that there are no known extant populations of federally endangered and threatened species or Connecticut "Species of Special Concern" occurring at the proposed site. (SNET 1, Section VIII, p. 19)

80. The Connecticut Historical Commission and the Office of State Parks and Recreation of the DEP have determined that neither the proposed nor alternate site would have any effect on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic places. (SNET 1, Section VIII, p. 2)
81. Based on conservative assumptions with a maximum number of 45 channels operating simultaneously at maximum power, the worst case power density level as measured at the base of the tower at a vertical distance of 189 feet would be 0.08227 mW/cm². The power density level at the nearest residence, a distance from the antenna of 265 feet, would be 0.041968 mW/cm², many times lower than the current Connecticut standard of 2.933 mW/cm² for 880 MHz. (SNET 1, Section VIII, p. 22)
82. The estimated construction costs to be incurred by SNET are as follows:

Radio equipment	\$179,515
Antenna equipment and tower	64,000
Power and associated equipment	171,570
Land and building	260,000
Miscellaneous	<u>77,700</u>
Total	\$752,785

(SNET 1, Section VIII, p. 23)

83. If approved, construction and testing would be completed in December 1990. The facility could be operational before the end of 1990. (SNET 1, Section VIII, p. 24)
84. SNET met or communicated with Harwinton Town Officials in 1989 and 1990 regarding the planning for a Harwinton site. No town officials made any specific recommendations regarding a site location for the facility. (SNET 1, Section VIII, p. 28; Tr. II, p. 47)
85. SNET has not been contacted by any Harwinton municipal agencies regarding the use of the Harwinton tower for antenna sharing. (Tr. II, p. 23)

Harwinton: Alternate

86. SNET would erect a 150-foot monopole tower with antennas and associated equipment building as an alternate site off Windmill Road. (SNET 1, Section IX, p. 7)
87. The alternate Harwinton site would be a 100-foot by 100-foot section of a parcel owned by Robert N. and Judith A. D'Amato located east of Windmill Road, approximately 150 feet from the road. The Harwinton

alternate site would be approximately one quarter mile north by northeast of the proposed site. The site is zoned Town Residential (TR). The parcel is presently a vacant building lot in an area of single family residences. A new 120-foot long gravel driveway would access the site from Windmill Road. Utilities would be installed underground from the street. (SNET 1, Section IX, pp. 1, 5, 7; SNET 4, Q-18 Attachment)

88. The elevation of the Harwinton alternate site ranges from 1031 feet to 1071 feet AMSL. The average elevation of the Harwinton alternate site is approximately 1050 feet AGL, 31 feet higher than the proposed site. (SNET 1, Section IX, p. 1; SNET 4, Q-18 Attachment)
89. The propagation coverage of the proposed 180-foot tower and the 150-foot alternate tower would be essentially equal. (SNET 1, Section IX, pp. 1, 13; Tr. I, p. 39; Tr. II, p. 36)
90. The propagation coverage of the Harwinton 180-foot alternate tower, reduced to 150 feet, would result in a three mile loss along Route 8 north and south of Winsted, a 3.5 mile loss along Route 183, and about a three mile loss along Route 44 east and west of Winsted. (Tr. II, pp. 30-33)
91. Because the environmental characteristics of the alternate site are similar in nature to the proposed site, the effects of construction would also be similar. (SNET 1, Section IX, pp. 1, 14)
92. The alternate site is sparsely vegetated with grass, brush, and small trees. The alternate tower would be more visible to surrounding properties than the proposed tower because it is not screened by mature trees. (SNET 1, Section IX, p. 7; SNET 4, Q-18 Attachment)
93. Some cutting would be necessary along a sloped area connecting Breezy Hill Road to the alternate site. Minor grading and leveling would be required at the alternate tower site. No trees or shrubbery would be removed. (SNET 4, Q-25, p. 2)
94. There are 75 residences located within a 2000-foot radius of the alternate site. The closest residence is approximately 160 feet from the site. The fall zone of the tower would include the abutting properties of John and Rose Ponte, and Wayne and Senate Milford. No abuttor's buildings would lie within the fall zone. (SNET 4, Q-4, Q-18 Attachment)
95. The main differences between the proposed and alternate sites would be the greater number of houses near the

alternate site, the lesser visual intrusion of the primary site created by the proximity of the overhead transmission line and mature trees, and less difficult construction at the alternate site. (Tr. II, pp. 19, 20)

96. Based on conservative assumptions, with a maximum of 45 channels operating simultaneously at maximum power, the worst case power density level would be 0.11624 mW/cm² as measured at the alternate tower's base, 159 feet below the antennas, and 0.029920 mW/cm² as measured at the nearest residence, about 313 feet from the antennas, well below the current Connecticut standard of 2.933 mW/cm². (SNET 1, Section IX, p. 8)
97. The estimated construction cost to be incurred by SNET is as follows:

Radio equipment	\$179,515
Antenna equipment and tower	57,000
Power and associated equipment	171,570
Land and building	263,000
Miscellaneous	<u>77,700</u>
Total	\$748,785

(SNET 1, Section IX, p. 9)

98. If approved, site construction and testing would be completed in December 1990. The facility could be operational before the end of 1990. (SNET 1, Section IX, p. 10)
99. The D'Amatos, owners of the alternate site, submitted testimony indicating approval for the construction of the alternate facility on the D'Amato property from all abutting land owners. (Record; Tr. II, pp. 6, 7)

Rejected Harwington Alternatives

100. SNET investigated the propagation coverage from the highest points on towers located at existing and potential sites in the Torrington-Harwinton area, including a 180-foot tower located on the site of an existing SNET-owned facility off Wildcat Hill Road, Harwinton; an existing 300-foot SNET tower on University Drive, Torrington; an existing 240-foot tower owned by Laurel Cablevision in Torrington; an existing 160-foot guyed tower owned by the Traub Brothers, Inc., at the intersection of Breezy Hill Road and Route 4, Harwinton; and the property of Charlotte Hungerford Hospital in Torrington. (SNET 1, Section VIII, pp. 4, 5; SNET 4, Q-2)
101. SNET rejected the use of an existing SNET facility located off Wildcat Hill Road, Harwinton, that contains

a 100-foot tower. The site would be located outside of the search area and would be too far south to interconnect with the proposed Winchester facility; therefore, an additional facility would be needed between the Wildcat Hill Road site and the proposed Winchester facility. (Tr. II, p. 8)

102. Propagation from an alternate 180-foot tower at the Wildcat Hill Road site would not cover about 1.0 to 1.5 miles along Route 8 near Burrville and would duplicate a large portion of the coverage from the proposed Plymouth site. Coverage in parts of Goshen and Norfolk, that would be covered from the proposed site, would be lost from the Wildcat Hill site. (Tr. II, pp. 9-11)
103. SNET states that economic disadvantages would occur if the existing Wildcat Hill Road tower was disassembled and replaced by an 180-foot tower. It would be less expensive to construct a new tower on the proposed site than to replace the existing SNET tower on Wildcat Hill Road. (Tr. II, pp. 12-14)
104. Propagation from the top of the existing 300-foot SNET tower on University Drive, Torrington, would result in losses in coverage along portions of Route 8 in east Litchfield and the center of Litchfield. Any decrease in antenna height from this tower would increase the loss of coverage. (SNET 4, Q-2, p. 3; Tr. II, pp. 14, 15)
105. SNET investigated a site owned by the Traub Brothers at the intersection of Breezy Hill Road and Route 4 which contained an existing tower. The site's elevation is less than 950 feet AMSL and would require a tower exceeding 250 feet that would provide coverage equal to the proposed 180-foot tower site. (SNET 1, Section VIII, p. 4; Tr. I, pp. 41, 42)
106. SNET did not investigate the possibility of using an existing 260-foot high new tower, owned by Hugo Gerbi, located north of Highland Avenue, Torrington. SNET maintains the site lies outside the search areas for the proposed Harwinton and Winchester sites. Propagation studies indicate adequate coverage from the Highland Avenue location would require a tower exceeding 300 feet tall in order to reach parts of downtown Torrington and sections of Route 8. (SNET 5, Q-28)
107. A facility on the roof of Charlotte Hungerford Hospital in Torrington would be outside the search area, would not provide adequate coverage, and would be too constrained for needed space. SNET's discussions with hospital officials centered on using the hospital building's roof and did not explore use of the grounds. The hospital officials did not want to make space

available on the roof for the necessary 20-foot by 28-foot equipment shelter. (Tr. I, pp. 43, 44; SNET 4, Q-20)

109. Propagations from a theoretical 225-foot tower on the property of Charlotte Hungerford Hospital, 540 Litchfield Street, Torrington indicated various areas of inadequate coverage when compared to the proposed site's propagation, ranging from one to five miles in length, along Routes 4, 6, 63, 202, 219, and 254. (SNET 6, pp. 1, 2)
110. Propagation from the top of an existing 300-foot tower located on the University of Connecticut-Torrington Branch Campus would leave various sections along Routes 4, 8, and 202 uncovered. Interposing terrain features would leave shadowing effects on other sections of Routes 4, 8, and 202 west and south of Torrington, Route 4 for four miles in Harwinton, and along two miles of Route 202 between Torrington and Bakersfield. Various coverage deficiencies would also be encountered along Route 202 between Litchfield and Newberry Corner. (SNET 10, SNET 13)

Winchester: Proposed

111. SNET would construct a 150-foot, self-supporting monopole tower with antennas and associated equipment building on the proposed Winchester site off Oakdale Avenue. (SNET 1, Section X, p. 1)
112. The proposed Winchester site is planned to overlap the coverage area of SNET's proposed Harwinton facility. (SNET 1, Section X, pp. 1, 2)
113. The coverage from the proposed site would include a large section of Route 8, and parts of Routes 4, 20, 44, 72, 118, 181, 183, and 202 in portions of Torrington, Winchester, Barkhamsted, and New Hartford. (SNET 1, Section X, p. 1; Tr. pp. 29, 30)
114. The proposed Winchester site's coverage would eventually be linked to a future site to provide continuous coverage east along Route 44 to SNET's existing Canton, Hartford, and East Hartford cell sites. (Tr 1, pp. 29, 30)
115. SNET considered seven potential cell site locations, including existing tower sites, rejecting five sites to provide cellular coverage in the Torrington-Winchester area. There are 13 existing tower sites within a 10-mile radius of the proposed and alternate sites. Reasons for rejection included insufficient coverage due to interposing terrain features, location within a State

forest, excessive distance outside the search area to provide adequate coverage, and too low an elevation. (SNET 1, Section X, pp. 3-6)

116. The proposed Winchester site would be a leased 100-foot by 100-foot section situated entirely within the interior of a 106 acre parcel owned by William and Richard Stow. SNET has negotiated a leasing option agreement with the property owners for use of the proposed site. The site would be located approximately 470 feet northeast of the northern end of Oakdale Avenue, Winsted. The parcel lies within an area zoned Residential (RU). The fall zone of the proposed tower would lie entirely within the lessor's property. (SNET 1, Section X, pp. 2,4,7,10,11,14,15,17; SNET 4, Q-18 Attachment)
117. The nearest residence is situated about 480 feet from the proposed site. There are 92 residences located within a 2000-foot radius of the proposed site. (SNET 1, Section X, pp. 10, 11; SNET 4, Q-4, Q-18 Attachment)
118. The elevation of the proposed Winchester site ranges from 1126 feet to 1129 feet AMSL. After grading, the average elevation of the proposed site would be 1128 feet AMSL. (SNET 1, Section X, pp. 10,22,24; SNET 4, Q-18 attached)
119. The proposed site lies within a heavily wooded, undeveloped, mostly level area on a hilltop. Mature stands of trees surround the site and partially shield it from view from surrounding neighborhoods. The site would be accessed from a new 460-foot long by 12-foot wide bituminous concrete driveway built from the cul-de-sac at Oakdale Avenue. The accessway would cross at a right angle a cleared swath about 35 feet wide, within a right-of-way (ROW) containing a buried Tennessee Gas Company transmission line. An easement would be required for the gas line crossing. (SNET 1, Section X, p. 14; SNET 4, Q-18 Attachment; SNET 9; Tr. II, pp. 41, 42, 45)
120. Since the tower location is basically level, grading, and cutting and filling would be minimal and drainage from the site would be controlled by SNET. However, due to the presence of some ledge rock at the proposed site, SNET may be required to do some blasting for fine leveling of the tower site. (SNET 1, Section X, p. 14; Tr. II, p. 43)
121. Approximately 400 feet of tree and brush clearing and some cutting and filling would be needed to construct the accessway from Oakdale Avenue. SNET would design the accessway to the Winchester site with an angled turn in the drive that would prevent direct on-line

- visibility of the tower site from Oakdale Avenue. (SNET 4, Q-25, p. 2; Tr. II, pp. 41, 42)
122. Utilities would be brought to the site underground from Oakdale Avenue along the driveway. An 18-inch minimum clearance between the utility line and the gas transmission pipe would be maintained. (Tr. II, p. 44)
123. Because the elevation of the proposed path of the driveway would climb from 1049 feet at Oakwood Avenue to about 1127 feet at the proposed site, there would be potential for changing water runoff flow created by construction disruption of the ground surface. SNET would use erosion control techniques, such as spreading hay on loose soil, haybales, and the construction of temporary sediment basins to mitigate the effects of construction on the ground surface. (SNET 1, Section X, pp. 15, 16)
124. After construction, water quality on or surrounding the proposed site would remain unchanged. No water services would be installed in the equipment building. (SNET 1, Sections X, p. 16)
125. The principal aesthetic impact would be the visibility of the tower. Since mature trees and brush would be cleared for the driveway and site constructions, SNET would keep such clearing as minimal as necessary in order to maintain vegetative screening. SNET would decrease the tower's appearance by painting it a mixed blue-grey color to blend against the background of the sky. (SNET 1, Section X, pp. 18, 20)
126. Both the Winchester proposed and alternate site towers would be visible from the center of Winsted. (Tr. II, p. 33)
127. The property owner of the proposed and alternate sites selected where the towers could be placed, which does not allow SNET much flexibility for moving the tower site. (Tr. II, pp. 39, 40)
128. The Natural Resources Center of the DEP has determined that there are no known extent populations of federally endangered and threatened species or Connecticut "species of special concern" occurring on the site. (SNET 1, Section X, p. 19)
129. The Connecticut Historical Commission and the Office of State Parks and Recreation have determined that the proposed and alternate cell sites would have no effect on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places. (SNET 1, Section X, p. 21)

130. SNET has discussed and received assurances from the Tennessee Gas Transmission Company for a crossing of the existing gas transmission line's ROW to access either the proposed or alternate sites. (SNET 4, Q-5)
131. SNET discussed an alternate accessway from Town Farm Road to the proposed and alternate sites with the property owners. This option was rejected because such an accessway would be longer than the one constructed from Oakdale Avenue, would need to traverse more steeply sloped ground which would make water runoff and erosion difficult to control, and the property owners preferred the planned accessway from Oakdale Avenue. (SNET 4, Q-13; Tr. 2, pp. 40, 41)
132. Based on conservative assumptions with a maximum number of 45 channels operating simultaneously at maximum power, the worst case power density level, as measured at the base of the tower at a vertical distance of 159 feet, would be 0.11624 mW/cm². The power density level at the nearest residence, a distance from the antennas of 649 feet, would be 0.006980 m/W/cm², many times lower than the current Connecticut standard of 2.933 mW/cm² for 880 MHz. (SNET 1, Exhibit X, p. 22)
133. The estimated construction costs of the proposed Winchester facility to be incurred by SNET are as follows:
- | | |
|--------------------------------|------------------|
| Radio equipment | \$179,515 |
| Antenna equipment and tower | \$ 64,000 |
| Power and associated equipment | \$171,570 |
| Land and building | \$278,000 |
| Miscellaneous | <u>\$ 77,700</u> |
| Total | \$770,785 |
- (SNET 1, Section X, p. 23)
134. If approved, site construction and testing would be completed in December 1990. The facility could be operational before the end of 1990. (SNET 1, Section X, p. 24)
135. SNET discussed and communicated with Winchester town officials in 1989 and 1990, the planning for the location of a Winchester cellular tower site. No official made any specific recommendation regarding a site location. (SNET 1, Section X, pp. 28, 29; Tr. II, pp. 47, 48)
136. SNET has not been contacted by any Winchester municipal agencies regarding the use of the Winchester tower for antenna sharing. (Tr. II, p. 46)

Winchester: Alternate

137. SNET would erect a 180-foot monopole tower with antennas and an associated equipment building as an alternate site off Oakdale Avenue. (SNET 1, Section XI, p. 1)
138. The alternate Winchester site would be located on the same property as the proposed site, about 150 feet northeast of the northern end of Oakdale Avenue and approximately 250 feet south of the proposed site. SNET has a leasing option agreement with the property owners to use the site. The alternate Winchester site would be located in an area zoned Residential. The fall zone of the tower would include the property owner's parcel and abutting land owned by Paul and Linda Vaccari. (SNET 1, Section XI, pp. 1, 4, 9, 14, 15; SNET 4, Q-18 Attachment)
139. The elevation of the Winchester alternate site ranges from 1069 feet to 1088 feet AMSL. The average site elevation is 1078 feet AMSL, about 50 feet lower than the proposed site. (SNET 1, Section XI, pp. 4, 9; SNET 4, Q-18 Attachment)
140. A 180-foot tower would be used to compensate for the change in elevation between the proposed and alternate sites to provide similar coverage to Routes 4, 8, 72, 118, 183, 202, and 222, and to Winsted, Torrington, New Hartford, and Barkhamsted. (Tr. II, pp. 33, 34)
141. The Winchester alternate site would be accessed from Oakdale Avenue along the same proposed route of the new paved driveway crossing the Tennessee Gas Company's transmission line. This accessway would be subject to the same easement acquisition as the proposed site. Utilities would be accessed from Oakdale Avenue in the same manner as the proposed site. (SNET 1, Exhibit XI, pp. 8)
142. The Winchester alternate site would be subject to similar construction constraints as the proposed site except that less clearing of trees and brush would be required. The alternate site is less wooded and the driveway shorter than the proposed site. About 125 feet of tree and brush clearing would be required along the driveway. Since the alternate site would be more open and closer to Oakdale Avenue, the facility would be more visible to nearby residents. (SNET 1, Exhibit XI, pp. 14, 15; SNET 4, Q-25, p. 2; Tr. II, p. 41)
143. There are 95 residences within a 2000-foot radius of the Winchester alternate site. The nearest residence is located 335 feet from the site. (SNET 4, Q-4)

144. Based on conservative assumptions, with a maximum of 45 channels operating simultaneously at maximum power, the worst case power density would be 0.08227 mW/cm² as measured at the alternate tower's base, 189 feet below the antennas. The power density at the nearest residence, about 339 feet from the antennas, would be 0.02839 mW/cm², well below the current Connecticut standard of 2.933 mW/cm² for 880 MHz. (SNET 1, Section XI, p. 9)
145. The estimated construction cost of the Winchester alternate facility to be incurred by SNET is as follows:

Radio equipment	\$179,515
Antenna equipment and tower	\$ 64,000
Power and associated equipment	\$171,570
Land and building	\$266,000
Miscellaneous	\$ 77,700
Total	\$758,785

(SNET 1, Section XI, p. 10)

146. If approved, site construction and testing would be completed in December 1990. The facility could be operational before the end of 1990. (SNET 1, Section XI, p. 11)

Rejected Winchester Alternatives

147. A 130-foot tower at the proposed site would have a similar elevation as the 180-foot tower of the alternate site and would provide essentially the same coverage, but both would provide less coverage than the proposed 150-foot tower. (SNET 12, pp. 33-39)
148. The construction of a 130-foot tower on the proposed site would create areas of inadequate coverage along 1.5 miles of Route 8 south of Winchester, 0.75 miles along Route 183 in Burrville, 1.0 miles along Route 183 near Algonquin State Forest northwest of Winchester, and 1.0 miles along Route 181 in Hartland. (SNET 12; Tr. II, pp. 33-36)
149. A 150-foot tower at the Winchester alternate site would result in an unacceptable cellular coverage created by interposing terrain elevations, including unacceptable coverage on 1.0 to 1.5 miles along Routes 8, 44, 183, and 263 in Burrville, Mooreville, Pleasant Valley, Algonquin State Forest, Winchester, and areas north of Torrington. (SNET 11)
150. SNET rejected sites near an existing water tank on Wallen Street, because an intervening ridge line of Wallen's Hill would block coverage along Route 8 and

parts of the Torrington Area. (SNET 4, Q-13; Tr. I, p. 20)

151. Use of an existing 259-foot AT&T Long Lines tower in Winchester near Platt Hill State Park was rejected because of gaps in coverage of varying lengths along Route 44 west of Winsted, Route 272 southwest of Winsted from Torrington to South Norwalk, and areas west of Route 8, north of Torrington. (SNET 4, Q-21, pp. 1, 2; Tr. 2, p. 24)
152. An existing 180-foot State Police tower in South Norfolk would provide inadequate cover along a section of Route 44 from Winsted to Norfolk and would provide no coverage of Route 8 and areas east of Route 8 from Torrington to Winsted and along extensive lengths of Route 183 from Burrville to Mooreville. (SNET 4, Q-21, pp. 1, 3)

New Milford

153. SNET would construct a 150-foot, self-supporting monopole tower with antennas and an associated equipment building on the proposed New Milford site off Aspetuck Avenue. (SNET 1, Section XII, p. 1)
154. The proposed New Milford site is planned to partially overlap the coverage areas of SNET's existing cell sites to the south in Newtown and Danbury. (SNET 1, Section XII, pp. 1, 2; Tr. I, pp. 28, 29)
155. The New Milford cell site would be a secondary cell site and a future cell site in Brookfield may be necessary to provide additional overlap with the proposed New Milford site with SNET's existing Newtown site. An interconnection with the Newtown site would provide improved coverage along Route 7. (Tr. I, pp. 26-28)
156. The New Milford site would provide primary coverage to a section of Route 7, and to parts of Routes 6, 109, and 202, within the towns of New Milford, Sherman, Kent, and Washington. (SNET 1, Section XII, pp. 1, 33)
157. SNET considered seven potential cell site locations, including existing tower sites, rejecting six sites, to provide cellular coverage in the Danbury-New Milford area. There are 10 existing towers located within a 10-mile radius of the proposed site. Reasons for rejection included towers too short or structurally inadequate to support cellular equipment, inadequate coverage due to interposing terrain features, location too far outside the search area to provide acceptable coverage, site inaccessibility, and a site too low in elevation. (SNET 1, Section XII, pp. 3-7)

158. The proposed New Milford site would be a leased 100-foot by 100-foot section located within the northern edge of property owned by the Canterbury School, Inc. It would be approximately 1300 feet east of Aspetuck Avenue and 800 feet north of Elkington Farm Road. The site would be approximately 200 feet southeast of an existing 60-foot high New Milford Water Company water tank. The proposed site would be bordered on the south by athletic fields of the Canterbury School. The nearest school building would be situated about 1000 feet from the proposed site. The parcel lies within an area zoned Residential. (SNET 1, Section XII, pp. 2, 4a, 5, 8, 9, 11, 12, 17, 24, 25; SNET 4, Q-7, Q-18 Attachment, Q-19)
159. The elevation of the New Milford proposed site ranges from 466 feet to 476 feet AMSL. The average elevation of the proposed site is 471 feet AMSL. (SNET 1, Section XII, p. 17; SNET 4, Q-18 Attachment)
160. The fall zone of the proposed tower would lie within Canterbury School property and would include part of the New Milford Water Company parcel, but not the existing water tank. (SNET 4, Q-18 Attachment)
161. The nearest residence would be located about 245 feet from the tower site. There are 95 residences within a 2000-foot radius of the proposed site. (SNET 4, Q-4)
162. Access to the proposed site would extend about 800 feet from Elkington Farm Road Extension along the tree line bordering an open field. Some grading and brush, tree, and boulder removal would be needed to prepare a new 12-foot wide gravel driveway. Since the drive slopes upward from about 420 feet elevation to 465 feet elevation, some off-site erosion could be expected during driveway preparation. SNET would use crushed stone, haybales, fabric siltation-protection devices, and temporary sediment basins to mitigate erosion and water runoff created by disruption of the ground surface. Utilities would be installed underground along the new road to the site. (SNET 1, Section XII, pp. 12, 13, 19; SNET 4, Q-18 Attachment; Q-25, p. 2; Tr. II, pp. 22, 23, 46)
163. The proposed tower site is bordered by mature trees on the north along Taylor Terrace and west of the adjacent water tank. The site is level therefore grading would be minimal and should not pose any drainage problems created by construction. SNET would use erosion control devices to control any erosion off-site. Some small trees and brush would be cleared from the site. (SNET 1, Exhibit XII, pp. 17-19, 22)

164. After construction, water quality on or surrounding the proposed site would remain unchanged. No water services would be installed in the equipment building. (SNET 1, Section XII, p. 19)
165. The principal aesthetic impact would be visibility of the tower. SNET would paint the tower a mixed blue-grey color to blend against the background of the sky. (SNET 1, Exhibit XII, p. 21)
166. Residents of Taylor Terrace who border on the Canterbury School property would have increased visibility of the proposed tower during wintertime when the leaves are off the trees. (Tr. I, p. 36)
167. Moving the proposed tower site south of the existing water tank to provide additional screening would place the water tank within the proposed tower's fall zone and would require approval from the Canterbury School officials. Such a move would place the tower's fall zone across a part of the school's athletic fields. (SNET 4, Q-22; Tr. I, pp. 34, 35)
168. Based on conservative assumptions with a maximum of 45 channels operating simultaneously at maximum power, the worst case power density level, as measured at the base of the tower at a vertical distance of 159 feet, would be 0.11624 mW/cm². The power density at the nearest residence, a distance from the antenna of 524 feet, would be 0.02549 mW/cm², lower than the current Connecticut standard of 2.933 mW/cm² for 880 MHz. (SNET 1, Section XII, p. 25)
169. The estimated construction costs to be incurred by SNET are as follows:
- | | |
|--------------------------------|------------------|
| Radio equipment | \$179,515 |
| Antenna equipment and tower | \$ 57,000 |
| Power and associated equipment | \$171,570 |
| Land and building | \$282,000 |
| Miscellaneous | <u>\$ 77,700</u> |
| Total | \$767,785 |
- (SNET 1, Section XII, p. 26)
170. If approved, site construction and testing would be completed in December 1990. The facility could be operational before the end of 1990. (SNET 1, Section XII, p. 27)
171. SNET did not submit an alternate site to the proposed New Milford facility. (SNET 4, Q-17)
172. A reduction in height of the proposed 150-foot tower to 60 feet would lose coverage varying from 1.5 miles to

3.5 miles along Routes 7, 37, 39, and 202. Most of the 3.5 mile loss along Route 7 would be south of the New Milford site. The same signal loss would occur with a 100-foot tower at the proposed site. (SNET 4, Q-8; Tr. I, pp. 31-33)

173. SNET has not conducted a detailed analysis of the water tank to determine if the tank would be structurally able to support a cellular tower or antenna brackets. No discussions with the New Milford Water company have been held to consider this option. (Tr. I, p. 34)
174. SNET met or communicated with New Milford town officials in 1989 and 1990 to discuss planning for a New Milford cellular site. No town official made any specific recommendation regarding a site location. (SNET 1, Section XII, pp. 31, 32; Tr. I, p. 21; Tr. 2, pp. 47-48)
175. No New Milford town official has requested space on the proposed tower for municipal agency antennas. SNET is willing to share its tower with municipal agencies. (Tr. I, pp. 36, 37)

4779E

cp/bd



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CORPORATION

Structural Analysis Report

Structure : 181.9 ft Monopole
ATC Site Name : Harwinton, CT
ATC Asset Number : 302502
Engineering Number : 13668727_C3_04
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : HARWINTON N CT
Carrier Site Number : 467932
Site Location : 159 Weingart Road
Harwinton, CT 06791-1109
41.787800,-73.092500
County : Litchfield
Date : July 8, 2021
Max Usage : 100%
Result : Pass

Prepared By:
Hussam Al Tahan
Structural Engineer II

Hussam Al Tahan

Reviewed By:



COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 181.9 ft monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	Mapping by Smith Cullum Site #CT-0038, dated February 13, 2002
Foundation Drawing	Girard & Co. Engineers Job #3C237, dated April 24, 1990
Geotechnical Report	Johnson Soils Engineering Co. Report #14974-H, dated January 28, 2002
Modifications	Hutter Trunkina Engineering Project #03320B, dated August 4, 2003 ATC Project #42504234, dated February 27, 2009 ATC Job #OAA684307_C6_06, dated November 16, 2016
Inspection	Inspection by TEP for ATC Site #302502, dated August 19, 2019 No structural deficiencies were found.
Mount Analysis	Maser Consulting Project # 21777534A, dated May 21, 2021

Analysis

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

Basic Wind Speed:	115 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	$S_s = 0.18, S_1 = 0.05$
Site Class:	D - Stiff Soil

Conclusion

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

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
185.0	3	Kaelus DBC0061F1V51-2	Platform with Handrails w/ Side Arms	(2) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (12) 1 1/4" Coax (1) 2" conduit (1) 3" conduit	AT&T MOBILITY
	6	Powerwave Allgon LGP21401			
	3	CCI DMP65R-BU6DA			
	3	Quintel QS66512-2			
	2	CCI HPA65R-BU6A			
	1	Andrew SBNHH-1D65A			
	3	Powerwave Allgon 7770.00			
	3	Ericsson RRUS 32 (50.8 lbs)			
	3	Ericsson RRUS 4449 B5, B12			
	2	Raycap DC6-48-60-0-8F			
	1	Raycap DC6-48-60-18-8F ("Squid")			
	3	Ericsson Radio 8843 - B2 + B66A			
175.0	6	Antel LPA-80063/6CF	Platform with Handrails	(6) 1 5/8" Coax (1) 1 5/8" Hybriflex	VERIZON WIRELESS
	6	Commscope JAHH-65B-R3B			
	1	RFS DB-B1-6C-12AB-0Z			
163.0	3	Ericsson AIR 21, 1.3 M, B2A B4P	Triangular Platform with Handrails	(1) 1 5/8" (1.63"- 41.3mm) Fiber (6) 1 5/8" Coax	T-MOBILE
	3	Andrew LNX-6515DS-A1M			
	3	Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)			
145.0	3	KMW TTA (HB-X-WM-17-65-00T)	Flush	(6) 1 5/8" Coax	CLEARWIRE CORPORATION
	3	KMW HB-X-WM-17-65-00T			

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
175.0	3	Nokia B5 RRH4x40-850	-	-	VERIZON WIRELESS
	3	Nokia B66a RRH4x45 (UHIE)			
	3	Alcatel-Lucent B13 RRH4x30-4R			
	3	Alcatel-Lucent B25 RRH4x30			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
175.0	3	Samsung MT6407-77A	Platform with Handrails	-	VERIZON WIRELESS
	3	Commscope CBC78T-DS-43-2X			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	82%	Pass
Shaft	86%	Pass
Base Plate	24%	Pass
Reinforcement	100%	Pass
Flange	69%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3,839.3	81%
Axial (Kips)	67.6	66%
Shear (Kips)	29.8	15%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
175.0	Commscope CBC78T-DS-43-2X	VERIZON WIRELESS	2.771	1.981
	Samsung B5/B13 RRH-BR04C			
	Samsung B2/B66A RRH-BR049			
	Samsung MT6407-77A			

*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H



Standard Conditions

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

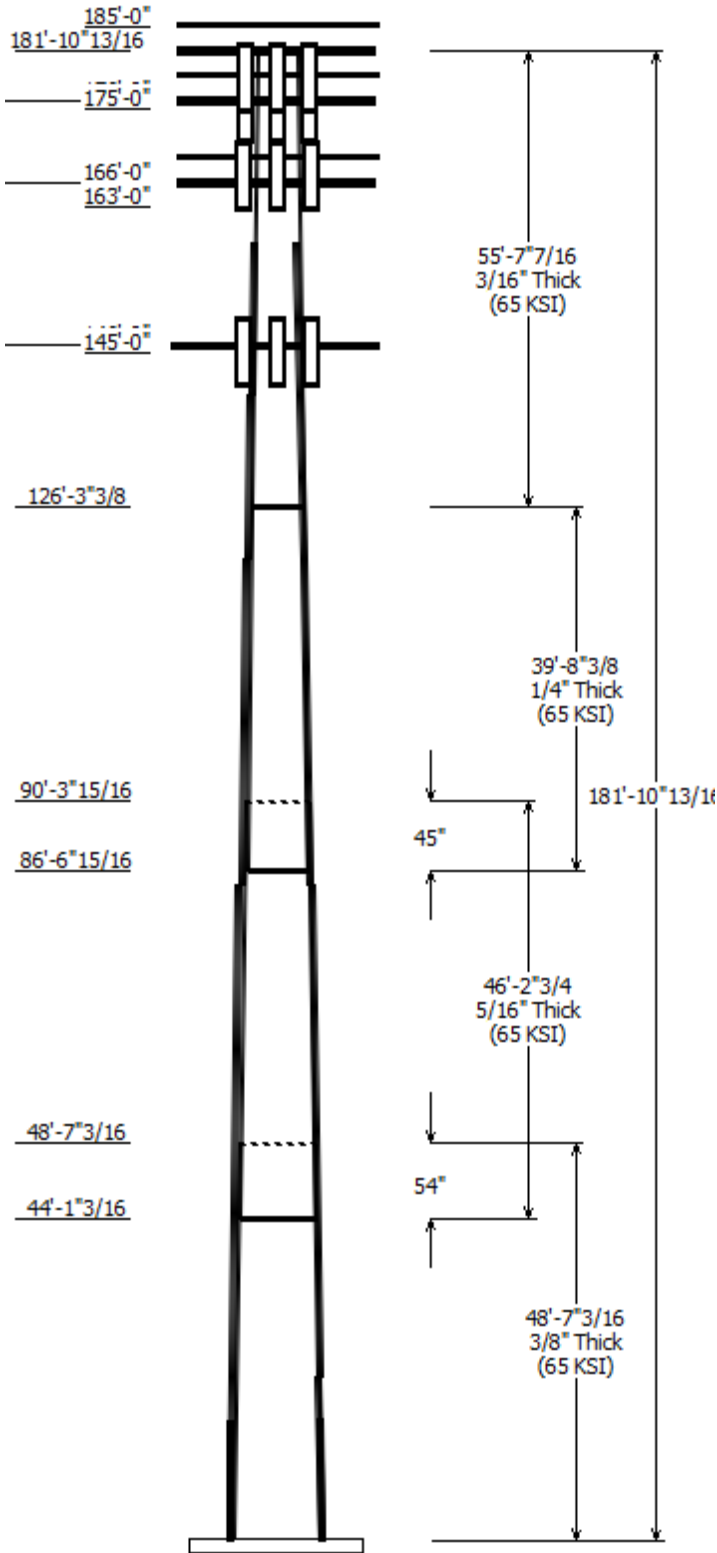
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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

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

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

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

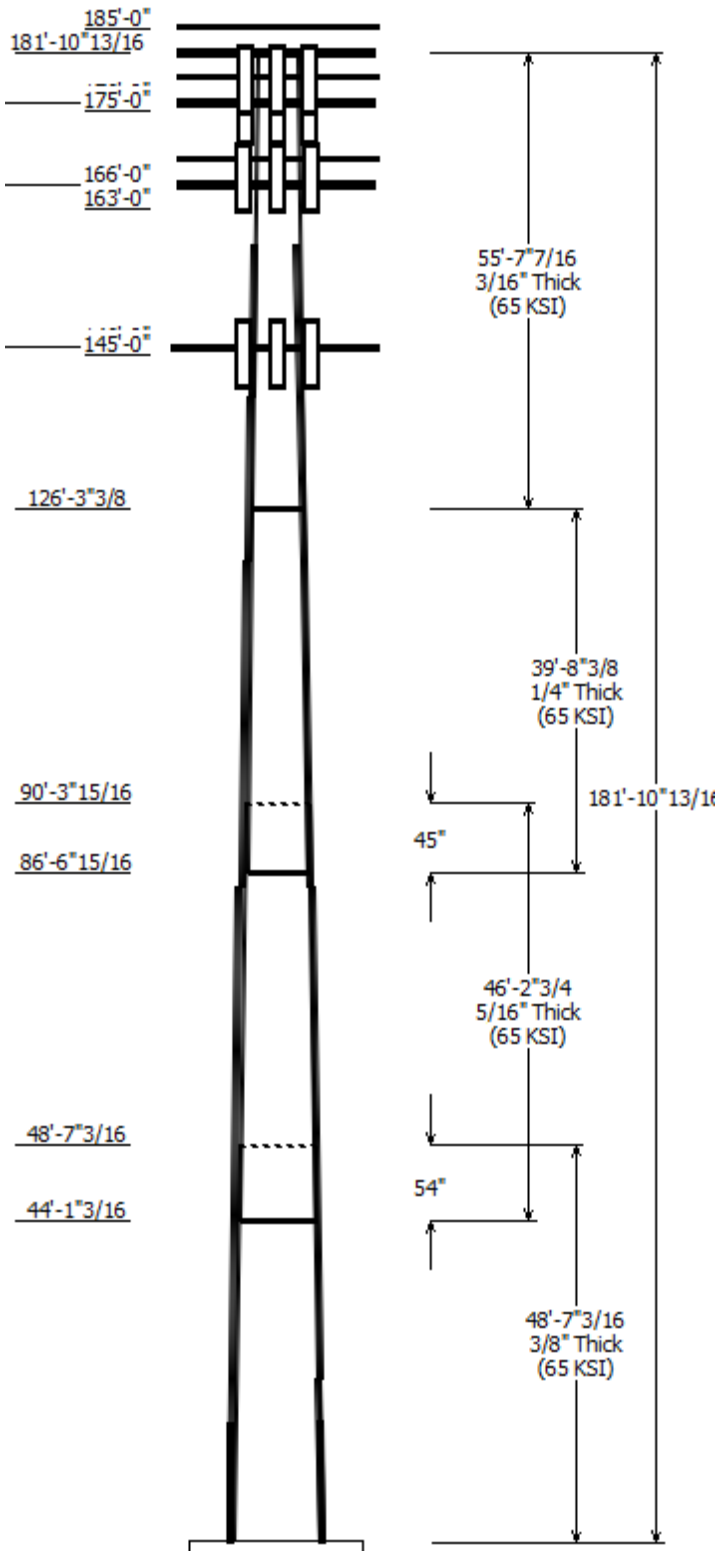


Job Information			
Client : VERIZON WIRELESS			
Pole : 302502		Code: ANSI/TIA-222-H	
Location : Harwinton, CT		Risk Category : II	
Description : 182 ft Monopole		Exposure : B	
Shape : 12 Sides		Topo Method : Method 1	
Height : 181.90 (ft)		Base Elev (ft): 0.00	
Taper: 0.162864(in/ft)		Topographic Category : 1	

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Grade
		Across Flats Top	Across Flats Bottom				
1	48.600	35.08	43.00	0.375		0.000	12 Sides 65
2	46.230	28.91	36.44	0.313	Slip Joint	54.000	12 Sides 65
3	39.700	23.55	30.02	0.250	Slip Joint	45.000	12 Sides 65
4	55.620	14.50	23.55	0.188	Butt Joint	0.000	12 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
185.000	185.000	3	CCI DMP65R-BU6DA
185.000	185.000	3	Quintel QS66512-2
185.000	185.000	2	CCI HPA65R-BU6A
185.000	185.000	1	Andrew SBNHH-1D65A
185.000	185.000	3	Powerwave Allgon 7770.00
185.000	185.000	3	Ericsson RRUS 32 (50.8 lbs)
185.000	185.000	3	Ericsson RRUS 4449 B5, B12
185.000	185.000	3	Ericsson Radio 8843 - B2 + B66
185.000	185.000	1	Raycap DC6-48-60-18-8F
185.000	185.000	2	Raycap DC6-48-60-0-8F
185.000	185.000	6	Powerwave Allgon LGP21401
185.000	185.000	3	Kaelus DBC0061F1V51-2
181.900	185.000	1	Round Platform w/ Handrails
176.000	176.000	1	Generic Flat Platform with Han
175.000	175.000	3	Samsung B5/B13 RRH-BR04C
175.000	175.000	3	Commscope CBC78T-DS-43-2X
175.000	175.000	3	Samsung MT6407-77A
175.000	175.000	3	Samsung B2/B66A RRH-BR049
175.000	176.000	6	Antel LPA-80063/6CF
175.000	176.000	6	Commscope JAHH-65B-R3B
175.000	176.000	1	RFS DB-B1-6C-12AB-0Z
166.000	166.000	1	Round Platform w/ Handrails
163.000	166.000	3	Andrew LNX-6515DS-A1M
163.000	166.000	3	Ericsson AIR 21, 1.3 M, B2A B4
163.000	166.000	3	Ericsson AIR 21, 1.3M, B4A B2P
146.000	146.000	3	Pipe
145.000	145.000	3	KMW HB-X-WM-17-65-00T
145.000	145.000	3	KMW TTA (HB-X-WM-17-65-00T)

Linear Appurtenance			
Elev (ft)	From To		Exposed To Wind
	From	To	
140.0	140.0	163.0	1 5/8" Coax Yes
140.0	140.0	163.0	1 5/8" Coax Yes
140.0	140.0	160.0	3" Solid Rod Yes
140.0	140.0	160.0	3" Solid Rod Yes
140.0	140.0	160.0	3" Solid Rod Yes
120.0	120.0	140.0	3.5" Solid Rod Yes
120.0	120.0	140.0	3.5" Solid Rod Yes
120.0	120.0	140.0	3.5" Solid Rod Yes



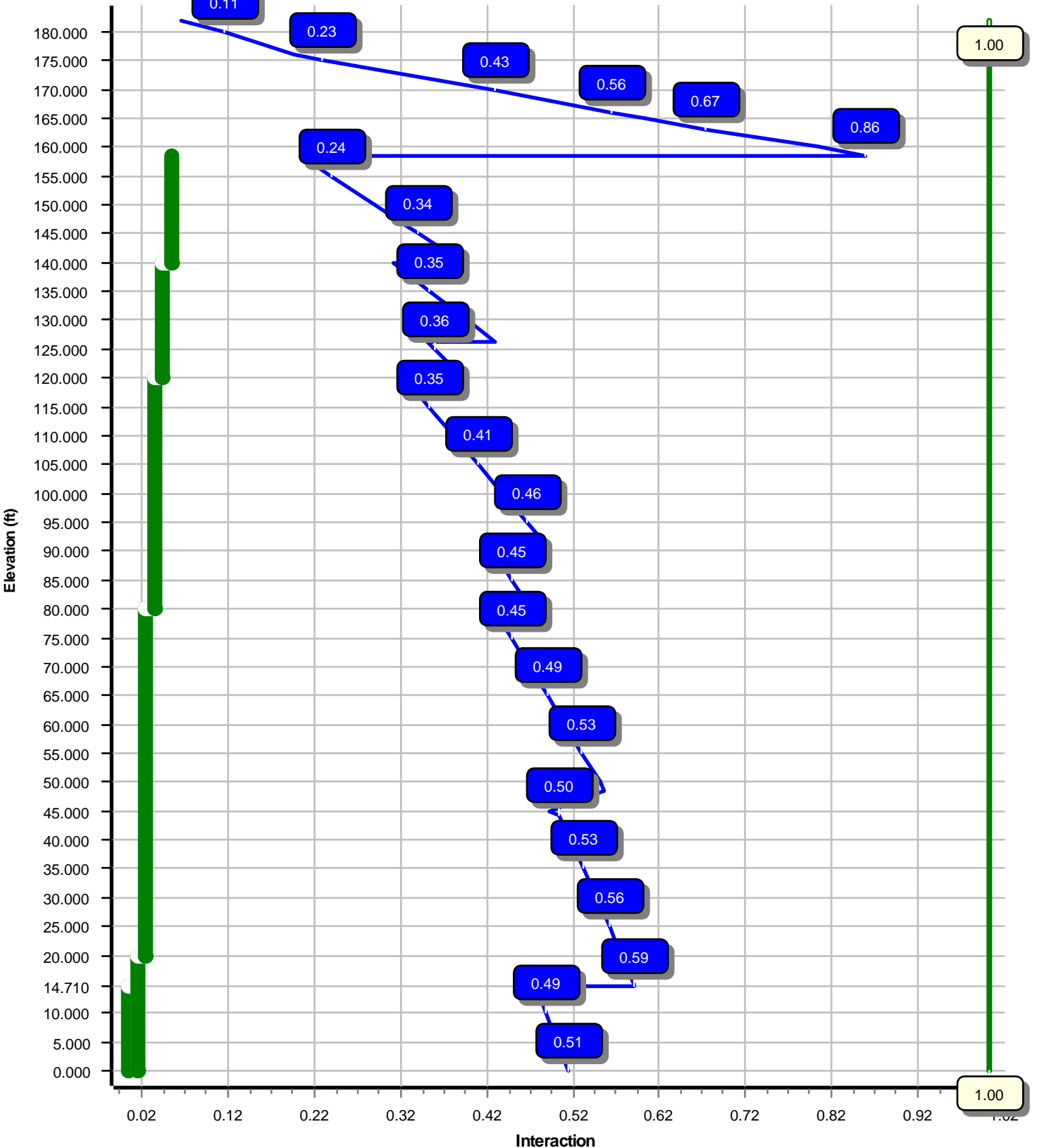
80.000	120.0	4.0" Solid Rod	Yes
80.000	120.0	4.0" Solid Rod	Yes
80.000	120.0	4.0" Solid Rod	Yes
5.000	145.0	1 5/8" Coax	No
0.000	19.500	#20Dywidag	Yes
0.000	19.500	#20Dywidag	Yes
0.000	19.500	#20Dywidag	Yes
0.000	80.000	4.25" Solid Rod	Yes
0.000	80.000	4.25" Solid Rod	Yes
0.000	80.000	4.25" Solid Rod	Yes
0.000	175.0	1 5/8" Coax	No
0.000	175.0	1 5/8" Hybriflex	No
0.000	185.0	0.39" (10mm)	No
0.000	185.0	0.78" (19.7mm) 8	No
0.000	185.0	1 1/4" Coax	No
0.000	185.0	2" conduit	No
0.000	185.0	3" conduit	No
0.000	163.0	1 5/8" (1.63")	No
0.000	163.0	1 5/8" Coax	No

Load Cases	
1.2D + 1.0W	115 mph with No Ice
0.9D + 1.0W	115 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	3839.25	29.81	67.63
0.9D + 1.0W	3759.40	29.78	50.71
1.2D + 1.0Di + 1.0Wi	970.68	6.76	84.68
1.2D + 1.0Ev + 1.0Eh	268.87	1.70	67.30
0.9D - 1.0Ev + 1.0Eh	261.68	1.70	46.90
1.0D + 1.0W	926.80	7.28	56.39

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000

Load Case : 1.2D + 1.0W
Max Ratio 85.60% at 158.5 ft



Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

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Customer: VERIZON WIRELESS

Analysis Parameters

Location :	Litchfield County, CT	Height (ft) :	181.9
Code :	ANSI/TIA-222-H	Base Diameter (in) :	43.00
Shape :	12 Sides	Top Diameter (in) :	14.50
Pole Type :	Taper	Taper (in/ft) :	0.163
Pole Manufacturer :	Mapped	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	0.96

Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	115 mph
Risk Category:	II	Design Wind Speed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	1051.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	3.45		
T_L (sec):	6	p :	1
S_s :	0.176	S_1 :	0.054
F_a :	1.600	F_v :	2.400
S_{ds} :	0.188	S_{d1} :	0.086
		C_s :	0.030
		C_s Max:	0.030
		C_s Min:	0.030

Load Cases

1.2D + 1.0W	115 mph with No Ice
0.9D + 1.0W	115 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

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Customer: VERIZON WIRELESS

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-12	48.600	0.3750	65		0.00	7,722	43.00	0.00	51.47	11936.2	28.05	114.67	35.08	48.60	41.91	6445.1	22.39	93.56	0.162864
2-12	46.230	0.3125	65	Slip	54.00	5,123	36.44	44.10	36.36	6057.6	28.57	116.62	28.91	90.33	28.78	3004.9	22.11	92.52	0.162864
3-12	39.700	0.2500	65	Slip	45.00	2,886	30.02	86.58	23.97	2712.1	29.50	120.10	23.55	126.28	18.76	1301.1	22.57	94.23	0.162864
4-12	55.620	0.1875	65	Butt	0.00	2,153	23.55	126.28	14.11	983.7	30.99	125.65	14.50	181.90	8.64	225.9	18.04	77.33	0.162864
Shaft Weight						17,884													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor
185.00	Kaelus DBC0061F1V51-2	3	0.75	0.000	25.50	0.433	0.50	38.08	0.739	0.50
185.00	Powerwave Allgon LGP21401	6	0.75	0.000	14.10	1.104	0.50	31.08	1.590	0.50
185.00	Raycap DC6-48-60-0-8F	2	0.75	0.000	32.80	1.360	0.50	72.37	1.811	0.50
185.00	Raycap DC6-48-60-18-8F	1	0.75	0.000	31.80	1.470	0.50	73.80	1.945	0.50
185.00	Ericsson Radio 8843 - B2 + B66A	3	0.75	0.000	71.90	1.650	0.50	113.84	2.227	0.50
185.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	114.87	2.604	0.50
185.00	Ericsson RRUS 32 (50.8 lbs)	3	0.75	0.000	50.80	2.692	0.50	99.48	3.478	0.50
185.00	Powerwave Allgon 7770.00	3	0.75	0.000	35.00	5.508	0.65	120.21	6.209	0.65
185.00	Andrew SBNHH-1D65A	1	0.75	0.000	40.90	5.883	0.67	133.16	7.336	0.67
185.00	CCI HPA65R-BU6A	2	0.75	0.000	41.90	7.864	0.67	161.19	9.743	0.67
185.00	Quintel QS66512-2	3	0.75	0.000	111.00	8.133	0.67	246.64	10.030	0.67
185.00	CCI DMP65R-BU6DA	3	0.75	0.000	79.40	12.709	0.63	254.74	14.607	0.63
181.90	Round Platform w/ Handrails	1	1.00	3.100	2,450.00	33.200	1.00	3,530.47	53.509	1.00
176.00	Generic Flat Platform with	1	1.00	0.000	2,500.00	42.400	1.00	3,705.53	56.632	1.00
175.00	Commscope CBC78T-DS-43-2X	3	0.80	0.000	20.70	0.552	0.50	35.67	0.896	0.50
175.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	109.05	2.486	0.50
175.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	127.62	2.486	0.50
175.00	RFS DB-B1-6C-12AB-0Z	1	0.75	1.000	21.40	2.512	0.50	75.47	3.217	0.50
175.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	150.65	5.738	0.61
175.00	Commscope JAHH-65B-R3B	6	0.75	1.000	60.60	9.113	0.67	197.65	10.992	0.67
175.00	Antel LPA-80063/6CF	6	0.75	1.000	27.00	9.593	0.67	212.67	10.495	0.67
166.00	Round Platform w/ Handrails	1	1.00	0.000	2,000.00	27.200	1.00	2,874.18	43.691	1.00
163.00	Ericsson AIR 21, 1.3 M, B2A B4P	3	0.75	3.000	83.00	6.049	0.71	181.22	7.504	0.71
163.00	Ericsson AIR 21, 1.3M, B4A B2P	3	0.75	3.000	90.40	6.092	0.70	188.39	7.549	0.70
163.00	Andrew LNX-6515DS-A1M	3	0.75	3.000	49.80	11.410	0.70	203.97	13.593	0.70
146.00	Pipe	3	1.00	0.000	40.00	1.630	0.67	71.42	2.386	0.67
145.00	KMW TTA (HB-X-WM-17-65-00T)	3	0.80	0.000	15.90	0.650	0.50	29.50	0.963	0.50
145.00	KMW HB-X-WM-17-65-00T	3	0.80	0.000	30.00	1.950	0.50	78.31	2.673	0.50
Totals	Num Loadings:28	79			10,835.80			19,999.15		

Linear Appurtenance Properties

Load Case Azimuth (deg) : 30

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax / Flat	Dist Between Rows	Dist Between Cols	Dist Azimuth (deg)	Dist From Face (in)	Dist Exposed To Wind Carrier
0.00	185.00	2	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	185.00	6	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	185.00	12	1 1/4" Coax	1.55	0.63	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	185.00	1	2" conduit	2.38	3.65	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	185.00	1	3" conduit	3.50	7.58	N	0	0.00	0.00	0	N AT&T MOBILITY
0.00	175.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	N VERIZON WIRELESS
0.00	175.00	1	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	N VERIZON WIRELESS

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

7/8/2021 10:55:49 PM

Customer: VERIZON WIRELESS

0.00	163.00	1	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	163.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	T-MOBILE
140.00	163.00	3	1 5/8" Coax	1.98	0.00	N	3	1.00	1.00	10	1.00	Y	
140.00	163.00	3	1 5/8" Coax	1.98	0.00	N	3	1.00	1.00	130	1.00	Y	
140.00	160.00	1	3" Solid Rod	4.30	0.00	N	1	0.00	0.00	0	0.00	Y	
140.00	160.00	1	3" Solid Rod	4.30	0.00	N	1	0.00	0.00	120	0.00	Y	
140.00	160.00	1	3" Solid Rod	4.30	0.00	N	1	0.00	0.00	240	0.00	Y	
5.00	145.00	6	1 5/8" Coax	1.98	0.82	N	3	0.00	0.00	90	0.00	N	CLEARWIRE
120.00	140.00	1	3.5" Solid Rod	4.80	0.00	N	1	0.00	0.00	120	0.00	Y	
120.00	140.00	1	3.5" Solid Rod	4.80	0.00	N	1	0.00	0.00	240	0.00	Y	
120.00	140.00	1	3.5" Solid Rod	4.80	0.00	N	1	0.00	0.00	0	0.00	Y	
80.00	120.00	1	4.0" Solid Rod	5.30	0.00	N	1	0.00	0.00	0	0.00	Y	
80.00	120.00	1	4.0" Solid Rod	5.30	0.00	N	1	0.00	0.00	240	0.00	Y	
80.00	120.00	1	4.0" Solid Rod	5.30	0.00	N	1	0.00	0.00	120	0.00	Y	
0.00	80.00	1	4.25" Solid Rod	5.50	0.00	N	1	0.00	0.00	180	0.00	Y	
0.00	80.00	1	4.25" Solid Rod	5.50	0.00	N	1	0.00	0.00	300	0.00	Y	
0.00	80.00	1	4.25" Solid Rod	5.50	0.00	N	1	0.00	0.00	60	0.00	Y	
0.00	19.50	1	#20Dywidag	4.00	0.00	N	1	0.00	0.00	240	0.00	Y	
0.00	19.50	1	#20Dywidag	4.00	0.00	N	1	0.00	0.00	0	0.00	Y	
0.00	19.50	1	#20Dywidag	4.00	0.00	N	1	0.00	0.00	120	0.00	Y	

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Intermediate Connections		Spacing (in)	Len (in)	Connectors	Continuation?
						Description					
0.00	14.71	3	SOL #20 All Thread	80	5.15	6" T Bracket	30.0	3.31		5/8" Hollo Bolt	No
0.00	20.00	3	SOL 4 1/4" SOLID	50	1.00	AJAX M20 Class	16.5	3.50		5/8" A36 U-Bolt	Yes
20.00	80.00	3	SOL 4 1/4" SOLID	50	1.00	AJAX M20 Class	22.0	3.50		5/8" Hollo Bolt	Yes
80.00	120.0	3	SOL 4" SOLID	50	0.88	AJAX M20 Class	22.0	3.50		5/8" Hollo Bolt	Yes
120.0	140.0	3	SOL 3 1/2" SOLID	50	1.13	AJAX M20 Class	22.0	3.50		5/8" Hollo Bolt	Yes
140.0	158.5	3	SOL 3" SOLID	50	1.38	AJAX M20 Class	22.0	3.50		5/8" Hollo Bolt	Yes

Segment Properties (Max Len : 5. ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.3750	43.000	51.470	11,936.2	28.05	114.67	74.1	536.3	0.0	0.0	57.28	18,69	0.0
5.00		0.3750	42.186	50.486	11,265.1	27.46	112.50	74.8	515.9	0.0	867.3	57.28	18,10	974.5
10.00		0.3750	41.371	49.503	10,619.6	26.88	110.32	75.4	495.9	0.0	850.6	57.28	17,52	974.5
14.71	Reinf. Top	0.3750	40.604	48.577	10,034.6	26.33	108.28	76.0	477.4	0.0	786.0	57.28	16,98	918.0
15.00		0.3750	40.557	48.520	9,999.3	26.30	108.15	76.0	476.3	0.0	47.9	42.55	11,70	42.0
20.00	Reinf. Top Reinf	0.3750	39.743	47.537	9,403.6	25.72	105.98	76.7	457.1	0.0	817.1	42.55	11,30	724.0
25.00		0.3750	38.928	46.553	8,832.0	25.14	103.81	77.3	438.3	0.0	800.4	42.55	10,90	724.0
30.00		0.3750	38.114	45.570	8,284.1	24.55	101.64	77.9	419.9	0.0	783.7	42.55	10,51	724.0
35.00		0.3750	37.300	44.587	7,759.4	23.97	99.47	78.6	401.9	0.0	767.0	42.55	10,13	724.0
40.00		0.3750	36.485	43.603	7,257.2	23.39	97.29	79.2	384.3	0.0	750.2	42.55	9,763	724.0
44.10	Bot - Section 2	0.3750	35.818	42.797	6,862.0	22.91	95.51	79.7	370.1	0.0	602.7	42.55	9,462	593.7
45.00		0.3750	35.671	42.620	6,777.3	22.81	95.12	79.8	367.0	0.0	241.9	42.55	9,677	130.3
48.60	Top - Section 1	0.3125	35.710	35.619	5,696.4	27.94	114.27	74.2	308.2	0.0	957.7	42.55	9,414	521.3
50.00		0.3125	35.482	35.389	5,587.1	27.74	113.54	74.5	304.2	0.0	169.1	42.55	9,312	202.7
55.00		0.3125	34.667	34.570	5,207.9	27.05	110.94	75.2	290.2	0.0	595.1	42.55	8,954	724.0
60.00		0.3125	33.853	33.750	4,846.3	26.35	108.33	76.0	276.6	0.0	581.2	42.55	8,603	724.0
65.00		0.3125	33.039	32.931	4,501.8	25.65	105.72	76.7	263.2	0.0	567.3	42.55	8,259	724.0
70.00		0.3125	32.225	32.111	4,174.0	24.95	103.12	77.5	250.2	0.0	553.3	42.55	7,922	724.0
75.00		0.3125	31.410	31.292	3,862.6	24.25	100.51	78.3	237.6	0.0	539.4	42.55	7,593	724.0
80.00	Reinf. Top Reinf	0.3125	30.596	30.473	3,567.0	23.55	97.91	79.0	225.2	0.0	525.4	42.55	7,270	724.0
85.00		0.3125	29.782	29.653	3,286.9	22.86	95.30	79.8	213.2	0.0	511.5	37.69	5,986	641.4
86.58	Bot - Section 3	0.3125	29.524	29.394	3,201.6	22.64	94.48	80.0	209.5	0.0	158.7	37.69	5,901	202.7
90.00		0.3125	28.967	28.834	3,021.9	22.16	92.70	80.5	201.5	0.0	615.1	37.69	5,882	438.7
90.33	Top - Section 2	0.2500	29.413	23.477	2,548.6	28.85	117.65	73.3	167.4	0.0	58.7	37.69	5,864	42.3
95.00		0.2500	28.653	22.864	2,354.3	28.03	114.61	74.1	158.7	0.0	368.2	37.69	5,614	599.1
100.0		0.2500	27.839	22.209	2,157.6	27.16	111.35	75.1	149.7	0.0	383.4	37.69	5,354	641.4
105.0		0.2500	27.024	21.553	1,972.1	26.29	108.10	76.0	141.0	0.0	372.3	37.69	5,099	641.4
110.0		0.2500	26.210	20.898	1,797.6	25.41	104.84	77.0	132.5	0.0	361.1	37.69	4,851	641.4
115.0		0.2500	25.396	20.242	1,633.7	24.54	101.58	78.0	124.3	0.0	350.0	37.69	4,608	641.4
120.0	Reinf. Top Reinf	0.2500	24.581	19.587	1,480.1	23.67	98.33	78.9	116.3	0.0	338.8	37.69	4,372	641.4
125.0		0.2500	23.767	18.931	1,336.4	22.79	95.07	79.9	108.6	0.0	327.7	28.86	3,165	491.1
126.2	Top - Section 3	0.2500	23.559	18.763	1,301.1	22.57	94.23	80.1	106.7	0.0	82.1	28.86	3,121	125.7
126.2	Bot - Section 4	0.1875	23.559	14.110	983.7	30.99	125.65	70.9	80.7	0.0		28.86	3,121	
130.0		0.1875	22.953	13.744	909.2	30.12	122.41	71.9	76.5	0.0	176.3	28.86	2,994	365.4
135.0		0.1875	22.138	13.253	815.1	28.96	118.07	73.1	71.1	0.0	229.7	28.86	2,828	491.1
140.0	Reinf. Top Reinf	0.1875	21.324	12.761	727.7	27.79	113.73	74.4	65.9	0.0	221.3	28.86	2,666	491.1
145.0		0.1875	20.510	12.270	646.8	26.63	109.39	75.7	60.9	0.0	212.9	21.20	1,839	360.8
146.0		0.1875	20.347	12.171	631.4	26.40	108.52	75.9	59.9	0.0	41.6	21.20	1,817	72.1
150.0		0.1875	19.695	11.778	572.1	25.47	105.04	76.9	56.1	0.0	163.0	21.20	1,728	288.6
155.0		0.1875	18.881	11.286	503.4	24.30	100.70	78.2	51.5	0.0	196.2	21.20	1,620	360.8
158.5	Reinf. Top	0.1875	18.311	10.942	458.7	23.49	97.66	79.1	48.4	0.0	132.4	21.20	1,546	252.5
160.0		0.1875	18.067	10.795	440.4	23.14	96.36	79.5	47.1	0.0	55.5			
163.0		0.1875	17.578	10.500	405.3	22.44	93.75	80.2	44.5	0.0	108.7			
165.0		0.1875	17.252	10.303	383.0	21.98	92.01	80.7	42.9	0.0	70.8			
166.0		0.1875	17.090	10.205	372.1	21.74	91.14	81.0	42.1	0.0	34.9			
170.0		0.1875	16.438	9.811	330.7	20.81	87.67	81.9	38.9	0.0	136.2			
175.0		0.1875	15.624	9.320	283.4	19.65	83.33	81.9	35.0	0.0	162.7			
176.0		0.1875	15.461	9.221	274.6	19.42	82.46	81.9	34.3	0.0	31.5			
180.0		0.1875	14.809	8.828	240.9	18.48	78.98	81.9	31.4	0.0	122.8			
181.9		0.1875	14.500	8.641	225.9	18.04	77.33	81.9	30.1	0.0	56.5			
											17,884.1	20,752.		

Load Case: 1.2D + 1.0W	115 mph with No Ice	28 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.20		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		262.8	0.0					0.0	0.0	262.8	0.0	0.0	0.0
5.00		520.6	1,040.8					106.8	1,380.7	627.4	2,421.5	0.0	0.0
10.00		496.0	1,020.7					106.8	1,410.2	602.8	2,430.9	0.0	0.0
14.71	Reinf. Top	252.8	943.2					100.6	1,328.4	353.4	2,271.5	0.0	0.0
15.00		262.3	57.5					6.2	64.4	268.5	121.8	0.0	0.0
20.00	Reinf. Top Reinf	482.4	980.6					106.8	1,109.6	589.2	2,090.2	0.0	0.0
25.00		468.1	960.5					0.0	1,109.6	468.1	2,070.1	0.0	0.0
30.00		471.2	940.4					0.0	1,109.6	471.2	2,050.0	0.0	0.0
35.00		484.1	920.3					0.0	1,109.6	484.1	2,029.9	0.0	0.0
40.00		454.1	900.3					0.0	1,109.6	454.1	2,009.9	0.0	0.0
44.10	Bot - Section 2	254.8	723.2					0.0	909.9	254.8	1,633.1	0.0	0.0
45.00		237.5	290.3					0.0	199.7	237.5	490.0	0.0	0.0
48.60	Top - Section 1	264.5	1,149.2					0.0	798.9	264.5	1,948.1	0.0	0.0
50.00		342.1	203.0					0.0	310.7	342.1	513.6	0.0	0.0
55.00		542.0	714.2					0.0	1,109.6	542.0	1,823.7	0.0	0.0
60.00		553.0	697.4					0.0	1,109.6	553.0	1,807.0	0.0	0.0
65.00		563.2	680.7					0.0	1,109.6	563.2	1,790.3	0.0	0.0
70.00		572.7	664.0					0.0	1,109.6	572.7	1,773.6	0.0	0.0
75.00		581.7	647.2					0.0	1,109.6	581.7	1,756.8	0.0	0.0
80.00	Reinf. Top Reinf	580.9	630.5					0.0	1,109.6	580.9	1,740.1	0.0	0.0
85.00		379.7	613.8					0.0	1,010.4	379.7	1,624.2	0.0	0.0
86.58	Bot - Section 3	295.0	190.5					0.0	319.3	295.0	509.8	0.0	0.0
90.00		223.0	738.2					0.0	691.1	223.0	1,429.3	0.0	0.0
90.33	Top - Section 2	296.1	70.5					0.0	66.7	296.1	137.2	0.0	0.0
95.00		575.5	441.8					0.0	943.7	575.5	1,385.6	0.0	0.0
100.00		601.6	460.1					0.0	1,010.4	601.6	1,470.5	0.0	0.0
105.00		604.7	446.7					0.0	1,010.4	604.7	1,457.1	0.0	0.0
110.00		603.4	433.4					0.0	1,010.4	603.4	1,443.8	0.0	0.0
115.00		597.4	420.0					0.0	1,010.4	597.4	1,430.4	0.0	0.0
120.00	Reinf. Top Reinf	580.9	406.6					71.9	1,010.4	652.8	1,417.0	0.0	0.0
125.00		357.2	393.2					0.0	830.0	357.2	1,223.2	0.0	0.0
126.28	Top - Section 3	282.6	98.5					0.0	212.5	282.6	311.0	0.0	0.0
130.00		486.7	211.6					0.0	617.6	486.7	829.1	0.0	0.0
135.00		546.2	275.6					73.1	830.0	619.3	1,105.6	0.0	0.0
140.00	Reinf. Top Reinf	471.2	265.6					73.5	830.0	544.6	1,095.6	0.0	0.0
145.00	Appurtenance(s)	241.2	255.5	116.8	0.0	0.0	165.2	82.1	673.6	440.1	1,094.4	0.0	0.0
146.00	Appurtenance(s)	195.7	49.9	122.9	0.0	0.0	144.0	16.8	128.8	335.3	322.7	0.0	0.0
150.00		345.6	195.6					68.4	515.3	414.0	710.9	0.0	0.0
155.00		318.5	235.4					88.3	644.1	406.8	879.5	0.0	0.0
158.50	Reinf. Top	183.2	158.8					63.7	450.9	246.9	609.7	0.0	0.0
160.00		138.9	66.6					27.8	63.4	166.6	129.9	0.0	0.0
163.00	Appurtenance(s)	139.9	130.4	1,448.3	0.0	4,344.9	803.5	0.0	126.7	1,588.2	1,060.7	0.0	0.0
165.00		82.7	84.9					0.0	68.8	82.7	153.8	0.0	0.0
166.00	Appurtenance(s)	134.6	41.9	1,058.1	0.0	0.0	2,400.0	0.0	34.4	1,192.8	2,476.3	0.0	0.0
170.00		236.5	163.5					0.0	137.6	236.5	301.1	0.0	0.0
175.00	Appurtenance(s)	154.4	195.3	2,744.4	0.0	2,268.3	1,581.6	0.0	172.0	2,898.8	1,948.9	0.0	0.0
176.00	Appurtenance(s)	123.6	37.9	1,677.3	0.0	0.0	3,000.0	0.0	26.9	1,800.9	3,064.8	0.0	0.0
180.00		144.0	147.4					0.0	107.8	144.0	255.2	0.0	0.0

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

7/8/2021 10:55:54 PM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0W

115 mph with No Ice

28 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

181.90

45.5

67.8

0.0

51.2

45.5

119.0

0.0

0.0

Totals: 26,192.7 62,768.2 0.00 0.00

Load Case: 1.2D + 1.0W

115 mph with No Ice

28 Iterations

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-67.63	-29.81	0.00	-3,839.25	0.00	3,839.25	3,433.77	903.29	3,632.17	2,981.33	0.00	0.00	0.512
5.00	-65.12	-29.38	0.00	-3,690.21	0.00	3,690.21	3,397.00	886.04	3,494.75	2,892.57	0.09	-0.17	0.499
10.00	-62.61	-28.95	0.00	-3,543.33	0.00	3,543.33	3,359.11	868.78	3,359.99	2,804.10	0.37	-0.35	0.487
14.71	-60.29	-28.67	0.00	-3,406.99	0.00	3,406.99	3,322.40	852.52	3,235.46	2,721.09	0.80	-0.52	0.474
14.71	-60.29	-28.67	0.00	-3,406.99	0.00	3,406.99	3,322.40	852.52	3,235.46	2,721.09	0.80	-0.52	0.588
15.00	-60.12	-28.52	0.00	-3,398.67	0.00	3,398.67	3,320.10	851.52	3,227.87	2,715.99	0.83	-0.53	0.587
20.00	-57.93	-28.13	0.00	-3,256.07	0.00	3,256.07	3,279.97	834.27	3,098.41	2,628.28	1.50	-0.74	0.573
20.00	-57.93	-28.13	0.00	-3,256.07	0.00	3,256.07	3,279.97	834.27	3,098.41	2,628.28	1.50	-0.74	0.573
25.00	-55.76	-27.84	0.00	-3,115.42	0.00	3,115.42	3,238.71	817.01	2,971.60	2,541.03	2.40	-0.96	0.559
30.00	-53.61	-27.54	0.00	-2,976.20	0.00	2,976.20	3,196.33	799.75	2,847.43	2,454.30	3.53	-1.18	0.544
35.00	-51.49	-27.21	0.00	-2,838.50	0.00	2,838.50	3,152.83	782.50	2,725.91	2,368.14	4.88	-1.40	0.529
40.00	-49.40	-26.87	0.00	-2,702.46	0.00	2,702.46	3,108.20	765.24	2,607.05	2,282.62	6.47	-1.62	0.514
44.10	-47.72	-26.66	0.00	-2,592.28	0.00	2,592.28	3,070.77	751.09	2,511.56	2,213.00	7.94	-1.80	0.501
45.00	-47.19	-26.49	0.00	-2,568.28	0.00	2,568.28	3,062.45	747.98	2,490.83	2,197.78	8.29	-1.84	0.490
48.60	-45.21	-26.25	0.00	-2,472.91	0.00	2,472.91	2,379.97	625.11	2,087.36	1,715.94	9.74	-2.00	0.554
50.00	-44.64	-26.00	0.00	-2,436.16	0.00	2,436.16	2,371.43	621.08	2,060.56	1,698.68	10.34	-2.06	0.548
55.00	-42.74	-25.56	0.00	-2,306.16	0.00	2,306.16	2,340.22	606.70	1,966.27	1,637.16	12.62	-2.29	0.528
60.00	-40.86	-25.09	0.00	-2,178.37	0.00	2,178.37	2,307.88	592.32	1,874.19	1,575.92	15.14	-2.51	0.508
65.00	-39.00	-24.60	0.00	-2,052.92	0.00	2,052.92	2,274.42	577.94	1,784.32	1,515.02	17.89	-2.74	0.487
70.00	-37.16	-24.08	0.00	-1,929.93	0.00	1,929.93	2,239.83	563.56	1,696.65	1,454.51	20.88	-2.96	0.467
75.00	-35.35	-23.54	0.00	-1,809.52	0.00	1,809.52	2,204.12	549.18	1,611.20	1,394.44	24.10	-3.18	0.446
80.00	-33.56	-22.99	0.00	-1,691.82	0.00	1,691.82	2,167.29	534.79	1,527.95	1,334.88	27.54	-3.40	0.425
80.00	-33.56	-22.99	0.00	-1,691.82	0.00	1,691.82	2,167.29	534.79	1,527.95	1,334.88	27.54	-3.40	0.469
85.00	-31.91	-22.59	0.00	-1,576.88	0.00	1,576.88	2,129.34	520.41	1,446.91	1,275.87	31.21	-3.61	0.447
86.58	-31.37	-22.33	0.00	-1,541.19	0.00	1,541.19	2,117.11	515.87	1,421.76	1,257.35	32.42	-3.69	0.439
90.00	-29.92	-22.06	0.00	-1,464.83	0.00	1,464.83	2,090.26	506.03	1,368.08	1,217.49	35.12	-3.85	0.416
90.33	-29.76	-21.81	0.00	-1,457.55	0.00	1,457.55	1,547.78	412.01	1,133.49	919.64	35.39	-3.86	0.490
95.00	-28.34	-21.25	0.00	-1,355.69	0.00	1,355.69	1,525.71	401.27	1,075.16	882.69	39.27	-4.07	0.464
100.00	-26.83	-20.65	0.00	-1,249.43	0.00	1,249.43	1,500.99	389.76	1,014.41	843.28	43.66	-4.31	0.435
105.00	-25.35	-20.04	0.00	-1,146.17	0.00	1,146.17	1,475.16	378.26	955.42	804.08	48.29	-4.53	0.407
110.00	-23.89	-19.41	0.00	-1,045.99	0.00	1,045.99	1,448.19	366.76	898.21	765.15	53.16	-4.75	0.378
115.00	-22.44	-18.77	0.00	-948.95	0.00	948.95	1,420.11	355.25	842.76	726.55	58.25	-4.97	0.350
120.00	-21.03	-18.07	0.00	-855.08	0.00	855.08	1,390.90	343.75	789.08	688.34	63.55	-5.17	0.322
120.00	-21.03	-18.07	0.00	-855.08	0.00	855.08	1,390.90	343.75	789.08	688.34	63.55	-5.17	0.390
125.00	-19.80	-17.65	0.00	-764.72	0.00	764.72	1,360.57	332.24	737.16	650.56	69.07	-5.37	0.358
126.28	-19.48	-17.38	0.00	-742.13	0.00	742.13	1,352.62	329.30	724.16	640.97	70.52	-5.43	0.349
126.28	-19.48	-17.38	0.00	-742.13	0.00	742.13	900.61	247.63	545.93	429.06	70.52	-5.43	0.427
130.00	-18.65	-16.88	0.00	-677.49	0.00	677.49	888.95	241.22	518.00	412.44	74.81	-5.60	0.394
135.00	-17.54	-16.22	0.00	-593.09	0.00	593.09	872.29	232.59	481.62	390.12	80.80	-5.83	0.351
140.00	-16.45	-15.63	0.00	-511.99	0.00	511.99	854.50	223.96	446.56	367.87	87.01	-6.05	0.309
140.00	-16.45	-15.63	0.00	-511.99	0.00	511.99	854.50	223.96	446.56	367.87	87.01	-6.05	0.390
145.00	-15.38	-15.10	0.00	-433.86	0.00	433.86	835.60	215.33	412.82	345.75	93.45	-6.25	0.338
146.00	-15.07	-14.77	0.00	-418.76	0.00	418.76	831.68	213.60	406.23	341.34	94.76	-6.30	0.328

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number:13668727_C3_04

7/8/2021 10:55:54 PM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0W

115 mph with No Ice

28 Iterations

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

150.00	-14.36	-14.32	0.00	-359.69	0.00	359.69	815.57	206.70	380.41	323.81	100.10	-6.48	0.287
155.00	-13.49	-13.86	0.00	-288.08	0.00	288.08	794.42	198.07	349.32	302.12	106.98	-6.68	0.237
158.50	-12.90	-13.56	0.00	-239.58	0.00	239.58	778.94	192.03	328.35	287.12	111.92	-6.80	0.202
158.50	-12.90	-13.56	0.00	-239.58	0.00	239.58	778.94	192.03	328.35	287.12	111.92	-6.80	0.856
160.00	-12.74	-13.43	0.00	-219.25	0.00	219.25	772.14	189.44	319.56	280.73	114.06	-6.85	0.802
163.00	-11.82	-11.78	0.00	-174.62	0.00	174.62	758.24	184.27	302.34	268.07	118.48	-7.23	0.671
165.00	-11.64	-11.72	0.00	-151.05	0.00	151.05	748.74	180.82	291.13	259.70	121.55	-7.46	0.601
166.00	-9.30	-10.25	0.00	-139.34	0.00	139.34	743.93	179.09	285.60	255.54	123.12	-7.57	0.561
170.00	-8.97	-10.03	0.00	-98.34	0.00	98.34	723.19	172.19	264.01	238.74	129.61	-7.93	0.428
175.00	-7.43	-6.90	0.00	-45.93	0.00	45.93	686.95	163.56	238.23	215.28	138.08	-8.25	0.226
176.00	-4.65	-4.69	0.00	-39.03	0.00	39.03	679.70	161.83	233.23	210.73	139.80	-8.29	0.193
180.00	-4.41	-4.51	0.00	-20.27	0.00	20.27	650.71	154.93	213.76	193.04	146.78	-8.42	0.113
181.90	0.00	-3.82	0.00	-11.70	0.00	11.70	636.94	151.65	204.82	184.90	150.13	-8.45	0.064

Load Case: 0.9D + 1.0W	115 mph with No Ice (Reduced DL)	28 Iterations
Gust Response Factor :1.10		
Dead Load Factor :0.90		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		262.8	0.0					0.0	0.0	262.8	0.0	0.0	0.0
5.00		520.6	780.6					106.8	1,035.5	627.4	1,816.1	0.0	0.0
10.00		496.0	765.5					106.8	1,057.6	602.8	1,823.2	0.0	0.0
14.71	Reinf. Top	252.8	707.4					100.6	996.3	353.4	1,703.7	0.0	0.0
15.00		262.3	43.1					6.2	48.3	268.5	91.4	0.0	0.0
20.00	Reinf. Top Reinf	482.4	735.4					106.8	832.2	589.2	1,567.6	0.0	0.0
25.00		468.1	720.4					0.0	832.2	468.1	1,552.6	0.0	0.0
30.00		471.2	705.3					0.0	832.2	471.2	1,537.5	0.0	0.0
35.00		484.1	690.3					0.0	832.2	484.1	1,522.4	0.0	0.0
40.00		454.1	675.2					0.0	832.2	454.1	1,507.4	0.0	0.0
44.10	Bot - Section 2	254.8	542.4					0.0	682.4	254.8	1,224.8	0.0	0.0
45.00		237.5	217.7					0.0	149.8	237.5	367.5	0.0	0.0
48.60	Top - Section 1	264.5	861.9					0.0	599.2	264.5	1,461.1	0.0	0.0
50.00		342.1	152.2					0.0	233.0	342.1	385.2	0.0	0.0
55.00		542.0	535.6					0.0	832.2	542.0	1,367.8	0.0	0.0
60.00		553.0	523.1					0.0	832.2	553.0	1,355.3	0.0	0.0
65.00		563.2	510.5					0.0	832.2	563.2	1,342.7	0.0	0.0
70.00		572.7	498.0					0.0	832.2	572.7	1,330.2	0.0	0.0
75.00		581.7	485.4					0.0	832.2	581.7	1,317.6	0.0	0.0
80.00	Reinf. Top Reinf	580.9	472.9					0.0	832.2	580.9	1,305.1	0.0	0.0
85.00		379.7	460.3					0.0	757.8	379.7	1,218.1	0.0	0.0
86.58	Bot - Section 3	295.0	142.9					0.0	239.5	295.0	382.3	0.0	0.0
90.00		223.0	553.6					0.0	518.3	223.0	1,072.0	0.0	0.0
90.33	Top - Section 2	296.1	52.9					0.0	50.0	296.1	102.9	0.0	0.0
95.00		575.5	331.4					0.0	707.8	575.5	1,039.2	0.0	0.0
100.00		601.6	345.1					0.0	757.8	601.6	1,102.9	0.0	0.0
105.00		604.7	335.1					0.0	757.8	604.7	1,092.9	0.0	0.0
110.00		603.4	325.0					0.0	757.8	603.4	1,082.8	0.0	0.0
115.00		597.4	315.0					0.0	757.8	597.4	1,072.8	0.0	0.0
120.00	Reinf. Top Reinf	580.9	304.9					71.9	757.8	652.8	1,062.7	0.0	0.0
125.00		357.2	294.9					0.0	622.5	357.2	917.4	0.0	0.0
126.28	Top - Section 3	282.6	73.9					0.0	159.4	282.6	233.2	0.0	0.0
130.00		486.7	158.7					0.0	463.2	486.7	621.8	0.0	0.0
135.00		546.2	206.7					73.1	622.5	619.3	829.2	0.0	0.0
140.00	Reinf. Top Reinf	471.2	199.2					73.5	622.5	544.6	821.7	0.0	0.0
145.00	Appurtenance(s)	241.2	191.6	116.8	0.0	0.0	123.9	82.1	505.2	440.1	820.8	0.0	0.0
146.00	Appurtenance(s)	195.7	37.4	122.9	0.0	0.0	108.0	16.8	96.6	335.3	242.0	0.0	0.0
150.00		345.6	146.7					68.4	386.5	414.0	533.1	0.0	0.0
155.00		318.5	176.6					88.3	483.1	406.8	659.7	0.0	0.0
158.50	Reinf. Top	183.2	119.1					63.7	338.2	246.9	457.3	0.0	0.0
160.00		138.9	49.9					27.8	47.5	166.6	97.4	0.0	0.0
163.00	Appurtenance(s)	139.9	97.8	1,448.3	0.0	4,344.9	602.6	0.0	95.0	1,588.2	795.5	0.0	0.0
165.00		82.7	63.7					0.0	51.6	82.7	115.3	0.0	0.0
166.00	Appurtenance(s)	134.6	31.4	1,058.1	0.0	0.0	1,800.0	0.0	25.8	1,192.8	1,857.2	0.0	0.0
170.00		236.5	122.6					0.0	103.2	236.5	225.8	0.0	0.0
175.00	Appurtenance(s)	154.4	146.5	2,744.4	0.0	2,268.3	1,186.2	0.0	129.0	2,898.8	1,461.7	0.0	0.0
176.00	Appurtenance(s)	123.6	28.4	1,677.3	0.0	0.0	2,250.0	0.0	20.2	1,800.9	2,298.6	0.0	0.0
180.00		144.0	110.6					0.0	80.8	144.0	191.4	0.0	0.0

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

7/8/2021 10:56:00 PM

Customer: VERIZON WIRELESS

Load Case: 0.9D + 1.0W

115 mph with No Ice (Reduced DL)

28 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

181.90	45.5	50.8	0.0	38.4	45.5	89.2	0.0	0.0		
Totals:							26,192.7	47,076.1	0.00	0.00

Load Case: 0.9D + 1.0W

115 mph with No Ice (Reduced DL)

28 Iterations

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.71	-29.78	0.00	-3,759.40	0.00	3,759.40	3,433.77	903.29	3,632.17	2,981.33	0.00	0.00	0.500
5.00	-48.81	-29.30	0.00	-3,610.50	0.00	3,610.50	3,397.00	886.04	3,494.75	2,892.57	0.09	-0.17	0.487
10.00	-46.91	-28.82	0.00	-3,464.02	0.00	3,464.02	3,359.11	868.78	3,359.99	2,804.10	0.36	-0.34	0.474
14.71	-45.16	-28.52	0.00	-3,328.27	0.00	3,328.27	3,322.40	852.52	3,235.46	2,721.09	0.79	-0.50	0.462
14.71	-45.16	-28.52	0.00	-3,328.27	0.00	3,328.27	3,322.40	852.52	3,235.46	2,721.09	0.79	-0.50	0.572
15.00	-45.02	-28.34	0.00	-3,320.00	0.00	3,320.00	3,320.10	851.52	3,227.87	2,715.99	0.82	-0.51	0.572
20.00	-43.35	-27.90	0.00	-3,178.29	0.00	3,178.29	3,279.97	834.27	3,098.41	2,628.28	1.47	-0.73	0.557
20.00	-43.35	-27.90	0.00	-3,178.29	0.00	3,178.29	3,279.97	834.27	3,098.41	2,628.28	1.47	-0.73	0.557
25.00	-41.70	-27.56	0.00	-3,038.80	0.00	3,038.80	3,238.71	817.01	2,971.60	2,541.03	2.35	-0.94	0.543
30.00	-40.07	-27.21	0.00	-2,900.99	0.00	2,900.99	3,196.33	799.75	2,847.43	2,454.30	3.45	-1.15	0.528
35.00	-38.46	-26.84	0.00	-2,764.93	0.00	2,764.93	3,152.83	782.50	2,725.91	2,368.14	4.77	-1.37	0.514
40.00	-36.88	-26.47	0.00	-2,630.73	0.00	2,630.73	3,108.20	765.24	2,607.05	2,282.62	6.32	-1.58	0.499
44.10	-35.61	-26.25	0.00	-2,522.20	0.00	2,522.20	3,070.77	751.09	2,511.56	2,213.00	7.76	-1.76	0.486
45.00	-35.21	-26.06	0.00	-2,498.57	0.00	2,498.57	3,062.45	747.98	2,490.83	2,197.78	8.10	-1.80	0.475
48.60	-33.71	-25.81	0.00	-2,404.76	0.00	2,404.76	2,379.97	625.11	2,087.36	1,715.94	9.51	-1.95	0.536
50.00	-33.27	-25.54	0.00	-2,368.63	0.00	2,368.63	2,371.43	621.08	2,060.56	1,698.68	10.09	-2.01	0.531
55.00	-31.83	-25.07	0.00	-2,240.95	0.00	2,240.95	2,340.22	606.70	1,966.27	1,637.16	12.32	-2.23	0.511
60.00	-30.41	-24.57	0.00	-2,115.62	0.00	2,115.62	2,307.88	592.32	1,874.19	1,575.92	14.77	-2.45	0.491
65.00	-29.00	-24.06	0.00	-1,992.75	0.00	1,992.75	2,274.42	577.94	1,784.32	1,515.02	17.46	-2.67	0.471
70.00	-27.61	-23.53	0.00	-1,872.44	0.00	1,872.44	2,239.83	563.56	1,696.65	1,454.51	20.37	-2.88	0.451
75.00	-26.24	-22.98	0.00	-1,754.81	0.00	1,754.81	2,204.12	549.18	1,611.20	1,394.44	23.50	-3.10	0.431
80.00	-24.89	-22.41	0.00	-1,639.93	0.00	1,639.93	2,167.29	534.79	1,527.95	1,334.88	26.86	-3.31	0.411
80.00	-24.89	-22.41	0.00	-1,639.93	0.00	1,639.93	2,167.29	534.79	1,527.95	1,334.88	26.86	-3.31	0.453
85.00	-23.64	-22.02	0.00	-1,527.86	0.00	1,527.86	2,129.34	520.41	1,446.91	1,275.87	30.43	-3.52	0.431
86.58	-23.23	-21.75	0.00	-1,493.07	0.00	1,493.07	2,117.11	515.87	1,421.76	1,257.35	31.61	-3.59	0.424
90.00	-22.15	-21.49	0.00	-1,418.69	0.00	1,418.69	2,090.26	506.03	1,368.08	1,217.49	34.24	-3.74	0.402
90.33	-22.02	-21.23	0.00	-1,411.60	0.00	1,411.60	1,547.78	412.01	1,133.49	919.64	34.50	-3.76	0.473
95.00	-20.95	-20.66	0.00	-1,312.46	0.00	1,312.46	1,525.71	401.27	1,075.16	882.69	38.27	-3.96	0.447
100.00	-19.81	-20.06	0.00	-1,209.14	0.00	1,209.14	1,500.99	389.76	1,014.41	843.28	42.54	-4.19	0.419
105.00	-18.69	-19.45	0.00	-1,108.82	0.00	1,108.82	1,475.16	378.26	955.42	804.08	47.05	-4.41	0.392
110.00	-17.59	-18.83	0.00	-1,011.57	0.00	1,011.57	1,448.19	366.76	898.21	765.15	51.77	-4.62	0.364
115.00	-16.51	-18.20	0.00	-917.44	0.00	917.44	1,420.11	355.25	842.76	726.55	56.72	-4.83	0.337
120.00	-15.45	-17.51	0.00	-826.43	0.00	826.43	1,390.90	343.75	789.08	688.34	61.88	-5.03	0.310
120.00	-15.45	-17.51	0.00	-826.43	0.00	826.43	1,390.90	343.75	789.08	688.34	61.88	-5.03	0.376
125.00	-14.53	-17.11	0.00	-738.87	0.00	738.87	1,360.57	332.24	737.16	650.56	67.24	-5.22	0.344
126.28	-14.29	-16.83	0.00	-716.98	0.00	716.98	1,352.62	329.30	724.16	640.97	68.65	-5.28	0.336
126.28	-14.29	-16.83	0.00	-716.98	0.00	716.98	900.61	247.63	545.93	429.06	68.65	-5.28	0.410
130.00	-13.66	-16.34	0.00	-654.37	0.00	654.37	888.95	241.22	518.00	412.44	72.82	-5.44	0.379
135.00	-12.84	-15.69	0.00	-572.69	0.00	572.69	872.29	232.59	481.62	390.12	78.63	-5.66	0.338
140.00	-12.02	-15.10	0.00	-494.25	0.00	494.25	854.50	223.96	446.56	367.87	84.67	-5.87	0.297
140.00	-12.02	-15.10	0.00	-494.25	0.00	494.25	854.50	223.96	446.56	367.87	84.67	-5.87	0.374
145.00	-11.22	-14.60	0.00	-418.73	0.00	418.73	835.60	215.33	412.82	345.75	90.91	-6.06	0.325
146.00	-10.99	-14.27	0.00	-404.13	0.00	404.13	831.68	213.60	406.23	341.34	92.19	-6.11	0.315

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

7/8/2021 10:56:00 PM

Customer: VERIZON WIRELESS

Load Case: 0.9D + 1.0W

115 mph with No Ice (Reduced DL)

28 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

150.00	-10.46	-13.83	0.00	-347.06	0.00	347.06	815.57	206.70	380.41	323.81	97.37	-6.28	0.276
155.00	-9.81	-13.38	0.00	-277.90	0.00	277.90	794.42	198.07	349.32	302.12	104.05	-6.48	0.227
158.50	-9.37	-13.10	0.00	-231.07	0.00	231.07	778.94	192.03	328.35	287.12	108.84	-6.60	0.193
158.50	-9.37	-13.10	0.00	-231.07	0.00	231.07	778.94	192.03	328.35	287.12	108.84	-6.60	0.821
160.00	-9.24	-12.95	0.00	-211.42	0.00	211.42	772.14	189.44	319.56	280.73	110.91	-6.64	0.770
163.00	-8.58	-11.33	0.00	-168.22	0.00	168.22	758.24	184.27	302.34	268.07	115.20	-7.02	0.643
165.00	-8.45	-11.25	0.00	-145.56	0.00	145.56	748.74	180.82	291.13	259.70	118.18	-7.24	0.576
166.00	-6.71	-9.86	0.00	-134.31	0.00	134.31	743.93	179.09	285.60	255.54	119.70	-7.34	0.538
170.00	-6.46	-9.64	0.00	-94.86	0.00	94.86	723.19	172.19	264.01	238.74	125.99	-7.69	0.409
175.00	-5.40	-6.58	0.00	-44.40	0.00	44.40	686.95	163.56	238.23	215.28	134.20	-8.00	0.216
176.00	-3.36	-4.48	0.00	-37.82	0.00	37.82	679.70	161.83	233.23	210.73	135.88	-8.04	0.185
180.00	-3.19	-4.32	0.00	-19.90	0.00	19.90	650.71	154.93	213.76	193.04	142.64	-8.16	0.109
181.90	0.00	-3.82	0.00	-11.70	0.00	11.70	636.94	151.65	204.82	184.90	145.89	-8.19	0.064

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice	27 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	
Dead Load Factor :1.20		Ice Importance Factor :1.00
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		52.2	0.0					0.0	0.0	52.2	0.0	0.0	0.0
5.00		103.9	1,255.8					0.0	1,453.4	103.9	2,709.2	0.0	0.0
10.00		99.8	1,256.6					0.0	1,492.1	99.8	2,748.7	0.0	0.0
14.71	Reinf. Top	51.0	1,172.7					0.0	1,409.8	51.0	2,582.5	0.0	0.0
15.00		53.3	71.9					0.0	69.5	53.3	141.3	0.0	0.0
20.00	Reinf. Top Reinf	98.4	1,227.9					0.0	1,195.5	98.4	2,423.4	0.0	0.0
25.00		95.2	1,209.2					0.0	1,162.3	95.2	2,371.5	0.0	0.0
30.00		94.5	1,189.1					0.0	1,163.5	94.5	2,352.5	0.0	0.0
35.00		95.7	1,168.0					0.0	1,164.5	95.7	2,332.5	0.0	0.0
40.00		88.5	1,146.2					0.0	1,165.3	88.5	2,311.6	0.0	0.0
44.10	Bot - Section 2	49.2	923.7					0.0	956.1	49.2	1,879.8	0.0	0.0
45.00		45.3	335.1					0.0	209.9	45.3	545.1	0.0	0.0
48.60	Top - Section 1	50.4	1,326.7					0.0	840.0	50.4	2,166.7	0.0	0.0
50.00		65.0	271.9					0.0	326.8	65.0	598.7	0.0	0.0
55.00		101.9	956.4					0.0	1,167.4	101.9	2,123.8	0.0	0.0
60.00		102.2	936.4					0.0	1,168.0	102.2	2,104.4	0.0	0.0
65.00		102.2	916.1					0.0	1,168.5	102.2	2,084.6	0.0	0.0
70.00		102.0	895.6					0.0	1,169.0	102.0	2,064.6	0.0	0.0
75.00		101.6	874.8					0.0	1,169.5	101.6	2,044.3	0.0	0.0
80.00	Reinf. Top Reinf	101.0	853.9					12.6	1,169.9	113.7	2,023.8	0.0	0.0
85.00		66.2	832.9					11.8	1,069.1	78.0	1,902.0	0.0	0.0
86.58	Bot - Section 3	50.5	259.4					5.0	337.9	55.5	597.3	0.0	0.0
90.00		38.0	887.5					12.5	731.6	50.5	1,619.1	0.0	0.0
90.33	Top - Section 2	50.2	84.9					1.3	70.6	51.6	155.5	0.0	0.0
95.00		96.6	641.4					18.5	999.3	115.1	1,640.6	0.0	0.0
100.00		98.8	669.0					23.6	1,070.2	122.4	1,739.2	0.0	0.0
105.00		97.5	650.8					27.0	1,070.5	124.5	1,721.3	0.0	0.0
110.00		96.1	632.5					30.0	1,070.9	126.0	1,703.3	0.0	0.0
115.00		94.5	614.1					32.6	1,071.2	127.1	1,685.2	0.0	0.0
120.00	Reinf. Top Reinf	92.9	595.6					35.0	1,071.4	127.9	1,667.0	0.0	0.0
125.00		57.7	577.0					30.3	886.1	87.9	1,463.1	0.0	0.0
126.28	Top - Section 3	45.1	145.3					8.2	226.9	53.3	372.2	0.0	0.0
130.00		77.7	344.4					24.6	659.5	102.3	1,003.9	0.0	0.0
135.00		87.4	448.8					35.0	886.6	122.4	1,335.4	0.0	0.0
140.00	Reinf. Top Reinf	86.2	433.3					37.0	886.9	123.2	1,320.2	0.0	0.0
145.00	Appurtenance(s)	51.5	417.8	30.9	0.0	0.0	310.9	32.6	814.6	115.0	1,543.2	0.0	0.0
146.00	Appurtenance(s)	42.3	82.2	34.0	0.0	0.0	217.9	6.8	157.1	83.0	457.2	0.0	0.0
150.00		75.2	321.0					27.9	628.4	103.2	949.5	0.0	0.0
155.00		70.0	386.6					104.6	786.0	174.6	1,172.5	0.0	0.0
158.50	Reinf. Top	40.6	261.9					74.9	550.4	115.5	812.3	0.0	0.0
160.00		34.9	110.3					32.5	106.1	67.3	216.4	0.0	0.0
163.00	Appurtenance(s)	37.7	215.7	333.0	0.0	999.1	1,630.5	42.0	180.8	412.7	2,027.0	0.0	0.0
165.00		22.3	140.9					0.0	68.8	22.3	209.7	0.0	0.0
166.00	Appurtenance(s)	36.5	69.6	321.3	0.0	0.0	2,874.2	0.0	34.4	357.8	2,978.2	0.0	0.0
170.00		64.3	270.7					0.0	137.6	64.3	408.3	0.0	0.0
175.00	Appurtenance(s)	42.1	323.5	608.8	0.0	493.5	3,778.7	0.0	172.0	650.9	4,274.3	0.0	0.0
176.00	Appurtenance(s)	34.0	63.3	423.5	0.0	0.0	3,950.5	0.0	26.9	457.4	4,040.8	0.0	0.0
180.00		39.6	245.3					0.0	107.8	39.6	353.1	0.0	0.0

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

7/8/2021 10:56:05 PM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

27 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

181.90	12.6	113.5	0.0	51.2	12.6	164.6	0.0	0.0
			Totals:	5,809.96	77,141.4	0.00	0.00	

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

7/8/2021 10:56:05 PM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0Di + 1.0Wi

50 mph with 1.00 in Radial Ice

27 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-84.68	-6.76	0.00	-970.68	0.00	970.68	3,433.77	903.29	3,632.17	2,981.33	0.00	0.00	0.139
5.00	-81.96	-6.72	0.00	-936.89	0.00	936.89	3,397.00	886.04	3,494.75	2,892.57	0.02	-0.04	0.136
10.00	-79.21	-6.67	0.00	-903.30	0.00	903.30	3,359.11	868.78	3,359.99	2,804.10	0.09	-0.09	0.133
14.71	-76.62	-6.65	0.00	-871.86	0.00	871.86	3,322.40	852.52	3,235.46	2,721.09	0.20	-0.13	0.130
14.71	-76.62	-6.65	0.00	-871.86	0.00	871.86	3,322.40	852.52	3,235.46	2,721.09	0.20	-0.13	0.160
15.00	-76.48	-6.63	0.00	-869.93	0.00	869.93	3,320.10	851.52	3,227.87	2,715.99	0.21	-0.13	0.160
20.00	-74.05	-6.60	0.00	-836.76	0.00	836.76	3,279.97	834.27	3,098.41	2,628.28	0.38	-0.19	0.157
20.00	-74.05	-6.60	0.00	-836.76	0.00	836.76	3,279.97	834.27	3,098.41	2,628.28	0.38	-0.19	0.157
25.00	-71.67	-6.57	0.00	-803.75	0.00	803.75	3,238.71	817.01	2,971.60	2,541.03	0.61	-0.25	0.153
30.00	-69.31	-6.53	0.00	-770.91	0.00	770.91	3,196.33	799.75	2,847.43	2,454.30	0.90	-0.30	0.150
35.00	-66.98	-6.49	0.00	-738.25	0.00	738.25	3,152.83	782.50	2,725.91	2,368.14	1.25	-0.36	0.146
40.00	-64.66	-6.44	0.00	-705.81	0.00	705.81	3,108.20	765.24	2,607.05	2,282.62	1.65	-0.42	0.142
44.10	-62.78	-6.41	0.00	-679.39	0.00	679.39	3,070.77	751.09	2,511.56	2,213.00	2.03	-0.46	0.139
45.00	-62.23	-6.39	0.00	-673.62	0.00	673.62	3,062.45	747.98	2,490.83	2,197.78	2.12	-0.48	0.136
48.60	-60.06	-6.35	0.00	-650.61	0.00	650.61	2,379.97	625.11	2,087.36	1,715.94	2.50	-0.52	0.155
50.00	-59.46	-6.32	0.00	-641.72	0.00	641.72	2,371.43	621.08	2,060.56	1,698.68	2.65	-0.53	0.153
55.00	-57.33	-6.26	0.00	-610.12	0.00	610.12	2,340.22	606.70	1,966.27	1,637.16	3.24	-0.59	0.148
60.00	-55.22	-6.19	0.00	-578.83	0.00	578.83	2,307.88	592.32	1,874.19	1,575.92	3.89	-0.65	0.143
65.00	-53.13	-6.12	0.00	-547.88	0.00	547.88	2,274.42	577.94	1,784.32	1,515.02	4.61	-0.71	0.138
70.00	-51.06	-6.04	0.00	-517.29	0.00	517.29	2,239.83	563.56	1,696.65	1,454.51	5.39	-0.77	0.133
75.00	-49.01	-5.96	0.00	-487.08	0.00	487.08	2,204.12	549.18	1,611.20	1,394.44	6.23	-0.83	0.127
80.00	-46.98	-5.87	0.00	-457.26	0.00	457.26	2,167.29	534.79	1,527.95	1,334.88	7.13	-0.89	0.122
80.00	-46.98	-5.87	0.00	-457.26	0.00	457.26	2,167.29	534.79	1,527.95	1,334.88	7.13	-0.89	0.134
85.00	-45.08	-5.79	0.00	-427.93	0.00	427.93	2,129.34	520.41	1,446.91	1,275.87	8.09	-0.95	0.128
86.58	-44.48	-5.75	0.00	-418.79	0.00	418.79	2,117.11	515.87	1,421.76	1,257.35	8.41	-0.97	0.126
90.00	-42.86	-5.69	0.00	-399.13	0.00	399.13	2,090.26	506.03	1,368.08	1,217.49	9.12	-1.01	0.120
90.33	-42.70	-5.66	0.00	-397.25	0.00	397.25	1,547.78	412.01	1,133.49	919.64	9.19	-1.02	0.142
95.00	-41.06	-5.56	0.00	-370.84	0.00	370.84	1,525.71	401.27	1,075.16	882.69	10.21	-1.07	0.134
100.00	-39.31	-5.44	0.00	-343.06	0.00	343.06	1,500.99	389.76	1,014.41	843.28	11.37	-1.14	0.127
105.00	-37.59	-5.32	0.00	-315.85	0.00	315.85	1,475.16	378.26	955.42	804.08	12.59	-1.20	0.119
110.00	-35.88	-5.20	0.00	-289.24	0.00	289.24	1,448.19	366.76	898.21	765.15	13.88	-1.26	0.111
115.00	-34.20	-5.07	0.00	-263.25	0.00	263.25	1,420.11	355.25	842.76	726.55	15.23	-1.32	0.103
120.00	-32.53	-4.93	0.00	-237.91	0.00	237.91	1,390.90	343.75	789.08	688.34	16.64	-1.38	0.096
120.00	-32.53	-4.93	0.00	-237.91	0.00	237.91	1,390.90	343.75	789.08	688.34	16.64	-1.38	0.116
125.00	-31.07	-4.83	0.00	-213.24	0.00	213.24	1,360.57	332.24	737.16	650.56	18.12	-1.43	0.107
126.28	-30.69	-4.78	0.00	-207.06	0.00	207.06	1,352.62	329.30	724.16	640.97	18.50	-1.45	0.104
126.28	-30.69	-4.78	0.00	-207.06	0.00	207.06	900.61	247.63	545.93	429.06	18.50	-1.45	0.127
130.00	-29.69	-4.68	0.00	-189.27	0.00	189.27	888.95	241.22	518.00	412.44	19.65	-1.50	0.118
135.00	-28.35	-4.56	0.00	-165.85	0.00	165.85	872.29	232.59	481.62	390.12	21.25	-1.56	0.106
140.00	-27.03	-4.42	0.00	-143.06	0.00	143.06	854.50	223.96	446.56	367.87	22.92	-1.62	0.093
140.00	-27.03	-4.42	0.00	-143.06	0.00	143.06	854.50	223.96	446.56	367.87	22.92	-1.62	0.118
145.00	-25.49	-4.28	0.00	-120.94	0.00	120.94	835.60	215.33	412.82	345.75	24.65	-1.68	0.103
146.00	-25.03	-4.20	0.00	-116.66	0.00	116.66	831.68	213.60	406.23	341.34	25.00	-1.69	0.099

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

7/8/2021 10:56:06 PM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice	27 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	
Dead Load Factor :1.20		Ice Importance Factor :1.00
Wind Load Factor :1.00		

150.00	-24.08	-4.09	0.00	-99.87	0.00	99.87	815.57	206.70	380.41	323.81	26.44	-1.74	0.088
155.00	-22.91	-3.90	0.00	-79.42	0.00	79.42	794.42	198.07	349.32	302.12	28.29	-1.80	0.073
158.50	-22.10	-3.76	0.00	-65.78	0.00	65.78	778.94	192.03	328.35	287.12	29.62	-1.83	0.062
158.50	-22.10	-3.76	0.00	-65.78	0.00	65.78	778.94	192.03	328.35	287.12	29.62	-1.83	0.258
160.00	-21.88	-3.71	0.00	-60.14	0.00	60.14	772.14	189.44	319.56	280.73	30.20	-1.84	0.243
163.00	-19.87	-3.26	0.00	-48.00	0.00	48.00	758.24	184.27	302.34	268.07	31.39	-1.95	0.206
165.00	-19.65	-3.25	0.00	-41.47	0.00	41.47	748.74	180.82	291.13	259.70	32.22	-2.01	0.186
166.00	-16.69	-2.81	0.00	-38.23	0.00	38.23	743.93	179.09	285.60	255.54	32.64	-2.04	0.172
170.00	-16.28	-2.75	0.00	-27.01	0.00	27.01	723.19	172.19	264.01	238.74	34.40	-2.14	0.136
175.00	-12.03	-1.95	0.00	-12.75	0.00	12.75	686.95	163.56	238.23	215.28	36.69	-2.23	0.077
176.00	-8.01	-1.34	0.00	-10.80	0.00	10.80	679.70	161.83	233.23	210.73	37.16	-2.24	0.063
180.00	-7.66	-1.29	0.00	-5.45	0.00	5.45	650.71	154.93	213.76	193.04	39.05	-2.27	0.040
181.90	0.00	-0.98	0.00	-3.00	0.00	3.00	636.94	151.65	204.82	184.90	39.96	-2.28	0.016

Load Case: 1.0D + 1.0W	Serviceability 60 mph	27 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.00		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		64.0	0.0					0.0	0.0	64.0	0.0	0.0	0.0
5.00		126.8	867.3					27.6	1,150.5	154.4	2,017.9	0.0	0.0
10.00		120.8	850.6					27.6	1,175.1	148.4	2,025.8	0.0	0.0
14.71	Reinf. Top	61.6	786.0					26.0	1,107.0	87.5	1,893.0	0.0	0.0
15.00		63.9	47.9					1.6	53.6	65.5	101.5	0.0	0.0
20.00	Reinf. Top Reinf	117.5	817.1					27.6	924.6	145.1	1,741.8	0.0	0.0
25.00		114.0	800.4					0.0	924.6	114.0	1,725.1	0.0	0.0
30.00		114.8	783.7					0.0	924.6	114.8	1,708.3	0.0	0.0
35.00		117.9	767.0					0.0	924.6	117.9	1,691.6	0.0	0.0
40.00		110.6	750.2					0.0	924.6	110.6	1,674.9	0.0	0.0
44.10	Bot - Section 2	62.1	602.7					0.0	758.2	62.1	1,360.9	0.0	0.0
45.00		57.9	241.9					0.0	166.4	57.9	408.3	0.0	0.0
48.60	Top - Section 1	64.4	957.7					0.0	665.7	64.4	1,623.4	0.0	0.0
50.00		83.3	169.1					0.0	258.9	83.3	428.0	0.0	0.0
55.00		132.0	595.1					0.0	924.6	132.0	1,519.8	0.0	0.0
60.00		134.7	581.2					0.0	924.6	134.7	1,505.8	0.0	0.0
65.00		137.2	567.3					0.0	924.6	137.2	1,491.9	0.0	0.0
70.00		139.5	553.3					0.0	924.6	139.5	1,478.0	0.0	0.0
75.00		141.7	539.4					0.0	924.6	141.7	1,464.0	0.0	0.0
80.00	Reinf. Top Reinf	141.5	525.4					0.0	924.6	141.5	1,450.1	0.0	0.0
85.00		92.5	511.5					0.0	842.0	92.5	1,353.5	0.0	0.0
86.58	Bot - Section 3	71.8	158.7					0.0	266.1	71.8	424.8	0.0	0.0
90.00		54.3	615.1					0.0	575.9	54.3	1,191.1	0.0	0.0
90.33	Top - Section 2	72.1	58.7					0.0	55.6	72.1	114.3	0.0	0.0
95.00		140.2	368.2					0.0	786.4	140.2	1,154.6	0.0	0.0
100.00		146.5	383.4					0.0	842.0	146.5	1,225.4	0.0	0.0
105.00		147.3	372.3					0.0	842.0	147.3	1,214.3	0.0	0.0
110.00		147.0	361.1					0.0	842.0	147.0	1,203.1	0.0	0.0
115.00		145.5	350.0					0.0	842.0	145.5	1,192.0	0.0	0.0
120.00	Reinf. Top Reinf	141.5	338.8					22.7	842.0	164.2	1,180.8	0.0	0.0
125.00		87.0	327.7					0.0	691.7	87.0	1,019.4	0.0	0.0
126.28	Top - Section 3	68.8	82.1					0.0	177.1	68.8	259.2	0.0	0.0
130.00		118.5	176.3					0.0	514.6	118.5	690.9	0.0	0.0
135.00		133.0	229.7					21.3	691.7	154.4	921.4	0.0	0.0
140.00	Reinf. Top Reinf	114.8	221.3					21.5	691.7	136.3	913.0	0.0	0.0
145.00	Appurtenance(s)	58.8	212.9	28.4	0.0	0.0	137.7	21.5	561.4	108.7	912.0	0.0	0.0
146.00	Appurtenance(s)	47.7	41.6	29.9	0.0	0.0	120.0	4.4	107.3	82.0	268.9	0.0	0.0
150.00		84.2	163.0					18.0	429.4	102.1	592.4	0.0	0.0
155.00		77.6	196.2					23.2	536.8	100.8	733.0	0.0	0.0
158.50	Reinf. Top	44.6	132.4					16.8	375.7	61.4	508.1	0.0	0.0
160.00		33.8	55.5					7.3	52.8	41.1	108.3	0.0	0.0
163.00	Appurtenance(s)	34.1	108.7	352.7	0.0	1,058.2	669.6	0.0	105.6	386.8	883.9	0.0	0.0
165.00		20.1	70.8					0.0	57.3	20.1	128.1	0.0	0.0
166.00	Appurtenance(s)	32.8	34.9	257.7	0.0	0.0	2,000.0	0.0	28.7	290.5	2,063.6	0.0	0.0
170.00		57.6	136.2					0.0	114.7	57.6	250.9	0.0	0.0
175.00	Appurtenance(s)	37.6	162.7	668.4	0.0	552.5	1,318.0	0.0	143.3	706.0	1,624.1	0.0	0.0
176.00	Appurtenance(s)	30.1	31.5	408.5	0.0	0.0	2,500.0	0.0	22.4	438.6	2,554.0	0.0	0.0
180.00		35.1	122.8					0.0	89.8	35.1	212.6	0.0	0.0

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

7/8/2021 10:56:12 PM

Customer: VERIZON WIRELESS

Load Case: 1.0D + 1.0W

Serviceability 60 mph

27 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

181.90	11.1	56.5	0.0	42.7	11.1	99.1	0.0	0.0		
Totals:							6,404.84	52,306.8	0.00	0.00

Load Case: 1.0D + 1.0W

Serviceability 60 mph

27 Iterations

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

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-56.39	-7.28	0.00	-926.80	0.00	926.80	3,433.77	903.29	3,632.17	2,981.33	0.00	0.00	0.129
5.00	-54.37	-7.17	0.00	-890.40	0.00	890.40	3,397.00	886.04	3,494.75	2,892.57	0.02	-0.04	0.126
10.00	-52.34	-7.05	0.00	-854.58	0.00	854.58	3,359.11	868.78	3,359.99	2,804.10	0.09	-0.08	0.122
14.71	-50.45	-6.98	0.00	-821.36	0.00	821.36	3,322.40	852.52	3,235.46	2,721.09	0.19	-0.12	0.119
14.71	-50.45	-6.98	0.00	-821.36	0.00	821.36	3,322.40	852.52	3,235.46	2,721.09	0.19	-0.12	0.147
15.00	-50.34	-6.94	0.00	-819.33	0.00	819.33	3,320.10	851.52	3,227.87	2,715.99	0.20	-0.13	0.147
20.00	-48.59	-6.83	0.00	-784.64	0.00	784.64	3,279.97	834.27	3,098.41	2,628.28	0.36	-0.18	0.143
20.00	-48.59	-6.83	0.00	-784.64	0.00	784.64	3,279.97	834.27	3,098.41	2,628.28	0.36	-0.18	0.143
25.00	-46.86	-6.76	0.00	-750.48	0.00	750.48	3,238.71	817.01	2,971.60	2,541.03	0.58	-0.23	0.140
30.00	-45.15	-6.68	0.00	-716.69	0.00	716.69	3,196.33	799.75	2,847.43	2,454.30	0.85	-0.29	0.136
35.00	-43.45	-6.59	0.00	-683.32	0.00	683.32	3,152.83	782.50	2,725.91	2,368.14	1.18	-0.34	0.132
40.00	-41.77	-6.50	0.00	-650.37	0.00	650.37	3,108.20	765.24	2,607.05	2,282.62	1.56	-0.39	0.128
44.10	-40.41	-6.45	0.00	-623.71	0.00	623.71	3,070.77	751.09	2,511.56	2,213.00	1.92	-0.43	0.125
45.00	-40.00	-6.41	0.00	-617.91	0.00	617.91	3,062.45	747.98	2,490.83	2,197.78	2.00	-0.44	0.122
48.60	-38.37	-6.35	0.00	-594.85	0.00	594.85	2,379.97	625.11	2,087.36	1,715.94	2.35	-0.48	0.138
50.00	-37.94	-6.28	0.00	-585.97	0.00	585.97	2,371.43	621.08	2,060.56	1,698.68	2.49	-0.50	0.137
55.00	-36.42	-6.17	0.00	-554.56	0.00	554.56	2,340.22	606.70	1,966.27	1,637.16	3.04	-0.55	0.132
60.00	-34.91	-6.05	0.00	-523.71	0.00	523.71	2,307.88	592.32	1,874.19	1,575.92	3.65	-0.61	0.127
65.00	-33.41	-5.93	0.00	-493.45	0.00	493.45	2,274.42	577.94	1,784.32	1,515.02	4.31	-0.66	0.121
70.00	-31.93	-5.80	0.00	-463.80	0.00	463.80	2,239.83	563.56	1,696.65	1,454.51	5.03	-0.71	0.116
75.00	-30.46	-5.67	0.00	-434.78	0.00	434.78	2,204.12	549.18	1,611.20	1,394.44	5.81	-0.77	0.111
80.00	-29.01	-5.54	0.00	-406.43	0.00	406.43	2,167.29	534.79	1,527.95	1,334.88	6.64	-0.82	0.106
80.00	-29.01	-5.54	0.00	-406.43	0.00	406.43	2,167.29	534.79	1,527.95	1,334.88	6.64	-0.82	0.117
85.00	-27.65	-5.44	0.00	-378.76	0.00	378.76	2,129.34	520.41	1,446.91	1,275.87	7.52	-0.87	0.111
86.58	-27.23	-5.37	0.00	-370.16	0.00	370.16	2,117.11	515.87	1,421.76	1,257.35	7.81	-0.89	0.109
90.00	-26.04	-5.31	0.00	-351.78	0.00	351.78	2,090.26	506.03	1,368.08	1,217.49	8.46	-0.93	0.104
90.33	-25.92	-5.25	0.00	-350.03	0.00	350.03	1,547.78	412.01	1,133.49	919.64	8.53	-0.93	0.122
95.00	-24.76	-5.11	0.00	-325.51	0.00	325.51	1,525.71	401.27	1,075.16	882.69	9.46	-0.98	0.115
100.00	-23.54	-4.97	0.00	-299.95	0.00	299.95	1,500.99	389.76	1,014.41	843.28	10.52	-1.04	0.108
105.00	-22.32	-4.82	0.00	-275.11	0.00	275.11	1,475.16	378.26	955.42	804.08	11.63	-1.09	0.101
110.00	-21.12	-4.67	0.00	-251.02	0.00	251.02	1,448.19	366.76	898.21	765.15	12.80	-1.14	0.094
115.00	-19.92	-4.52	0.00	-227.68	0.00	227.68	1,420.11	355.25	842.76	726.55	14.03	-1.19	0.087
120.00	-18.74	-4.34	0.00	-205.11	0.00	205.11	1,390.90	343.75	789.08	688.34	15.31	-1.24	0.080
120.00	-18.74	-4.34	0.00	-205.11	0.00	205.11	1,390.90	343.75	789.08	688.34	15.31	-1.24	0.097
125.00	-17.72	-4.24	0.00	-183.40	0.00	183.40	1,360.57	332.24	737.16	650.56	16.64	-1.29	0.089
126.28	-17.46	-4.18	0.00	-177.97	0.00	177.97	1,352.62	329.30	724.16	640.97	16.98	-1.31	0.087
126.28	-17.46	-4.18	0.00	-177.97	0.00	177.97	900.61	247.63	545.93	429.06	16.98	-1.31	0.106
130.00	-16.77	-4.06	0.00	-162.44	0.00	162.44	888.95	241.22	518.00	412.44	18.02	-1.35	0.098
135.00	-15.85	-3.89	0.00	-142.16	0.00	142.16	872.29	232.59	481.62	390.12	19.46	-1.40	0.088
140.00	-14.94	-3.75	0.00	-122.69	0.00	122.69	854.50	223.96	446.56	367.87	20.96	-1.45	0.077
140.00	-14.94	-3.75	0.00	-122.69	0.00	122.69	854.50	223.96	446.56	367.87	20.96	-1.45	0.097
145.00	-14.03	-3.62	0.00	-103.96	0.00	103.96	835.60	215.33	412.82	345.75	22.51	-1.50	0.085
146.00	-13.76	-3.54	0.00	-100.33	0.00	100.33	831.68	213.60	406.23	341.34	22.82	-1.51	0.082

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

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Customer: VERIZON WIRELESS

Load Case: 1.0D + 1.0W

Serviceability 60 mph

27 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

150.00	-13.17	-3.43	0.00	-86.17	0.00	86.17	815.57	206.70	380.41	323.81	24.11	-1.56	0.072
155.00	-12.43	-3.32	0.00	-69.01	0.00	69.01	794.42	198.07	349.32	302.12	25.77	-1.60	0.060
158.50	-11.93	-3.25	0.00	-57.39	0.00	57.39	778.94	192.03	328.35	287.12	26.95	-1.63	0.051
158.50	-11.93	-3.25	0.00	-57.39	0.00	57.39	778.94	192.03	328.35	287.12	26.95	-1.63	0.215
160.00	-11.82	-3.22	0.00	-52.52	0.00	52.52	772.14	189.44	319.56	280.73	27.47	-1.65	0.203
163.00	-10.94	-2.82	0.00	-41.81	0.00	41.81	758.24	184.27	302.34	268.07	28.53	-1.74	0.171
165.00	-10.81	-2.80	0.00	-36.18	0.00	36.18	748.74	180.82	291.13	259.70	29.27	-1.79	0.154
166.00	-8.76	-2.45	0.00	-33.38	0.00	33.38	743.93	179.09	285.60	255.54	29.65	-1.82	0.143
170.00	-8.50	-2.40	0.00	-23.57	0.00	23.57	723.19	172.19	264.01	238.74	31.21	-1.91	0.111
175.00	-6.90	-1.64	0.00	-11.01	0.00	11.01	686.95	163.56	238.23	215.28	33.25	-1.98	0.061
176.00	-4.37	-1.12	0.00	-9.37	0.00	9.37	679.70	161.83	233.23	210.73	33.67	-1.99	0.051
180.00	-4.15	-1.08	0.00	-4.90	0.00	4.90	650.71	154.93	213.76	193.04	35.35	-2.02	0.032
181.90	0.00	-0.93	0.00	-2.85	0.00	2.85	636.94	151.65	204.82	184.90	36.16	-2.03	0.015

Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period (S_s):	0.18
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.05
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.19
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	3.45
Redundancy Factor (ρ):	1.00
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	56.40 k
Seismic Base Shear (E):	1.69 k

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
48	180.95	99	3,246	0.005	8	123
47	178.00	213	6,737	0.010	17	263
46	175.50	54	1,663	0.003	4	67
45	172.50	306	9,108	0.014	24	379
44	168.00	251	7,081	0.011	18	310
43	165.50	64	1,741	0.003	5	79
42	164.00	128	3,446	0.005	9	159
41	161.50	214	5,589	0.009	14	265
40	159.25	108	2,746	0.004	7	134
39	156.75	508	12,484	0.019	32	629
38	152.50	733	17,046	0.026	44	907
37	148.00	592	12,976	0.020	34	733
36	145.50	149	3,153	0.005	8	184
35	142.50	774	15,723	0.024	41	958
34	137.50	913	17,261	0.026	45	1,130
33	132.50	921	16,176	0.025	42	1,140
32	128.14	691	11,345	0.017	29	855
31	125.64	259	4,091	0.006	11	321
30	122.50	1,019	15,297	0.023	40	1,262
29	117.50	1,181	16,303	0.025	42	1,461
28	112.50	1,192	15,086	0.023	39	1,475
27	107.50	1,203	13,904	0.021	36	1,489
26	102.50	1,214	12,758	0.020	33	1,503
25	97.50	1,225	11,649	0.018	30	1,517
24	92.67	1,155	9,915	0.015	26	1,429

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

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Customer: VERIZON WIRELESS

23	90.17	114	929	0.001	2	141
22	88.29	1,191	9,284	0.014	24	1,474
21	85.79	425	3,127	0.005	8	526
20	82.50	1,353	9,212	0.014	24	1,675
19	77.50	1,450	8,710	0.013	23	1,795
18	72.50	1,464	7,695	0.012	20	1,812
17	67.50	1,478	6,734	0.010	17	1,829
16	62.50	1,492	5,828	0.009	15	1,846
15	57.50	1,506	4,979	0.008	13	1,864
14	52.50	1,520	4,189	0.006	11	1,881
13	49.30	428	1,040	0.002	3	530
12	46.80	1,623	3,556	0.005	9	2,009
11	44.55	408	810	0.001	2	505
10	42.05	1,361	2,406	0.004	6	1,684
9	37.50	1,675	2,355	0.004	6	2,073
8	32.50	1,692	1,787	0.003	5	2,093
7	27.50	1,708	1,292	0.002	3	2,114
6	22.50	1,725	873	0.001	2	2,135
5	17.50	1,742	533	0.001	1	2,156
4	14.85	102	22	0.000	0	126
3	12.35	1,893	289	0.000	1	2,343
2	7.50	2,026	114	0.000	0	2,507
1	2.50	2,018	13	0.000	0	2,497
Kaelus DBC0061F1V51-	181.90	76	2,531	0.004	7	95
Powerwave Allgon LGP	181.90	85	2,799	0.004	7	105
Raycap DC6-48-60-0-8	181.90	66	2,171	0.003	6	81
Raycap DC6-48-60-18-	181.90	32	1,052	0.002	3	39
Ericsson Radio 8843	181.90	216	7,137	0.011	18	267
Ericsson RRUS 4449 B	181.90	213	7,048	0.011	18	264
Ericsson RRUS 32 (50	181.90	152	5,043	0.008	13	189
Powerwave Allgon 777	181.90	105	3,474	0.005	9	130
Andrew SBNHH-1D65A	181.90	41	1,353	0.002	4	51
CCI HPA65R-BU6A	181.90	84	2,773	0.004	7	104
Quintel QS66512-2	181.90	333	11,018	0.017	29	412
CCI DMP65R-BU6DA	181.90	238	7,881	0.012	20	295
Round Platform w/ Ha	181.90	2,450	81,065	0.124	210	3,032
Generic Flat Platfor	176.00	2,500	77,440	0.118	200	3,094
Commscope CBC78T-DS-	175.00	62	1,902	0.003	5	77
Samsung B5/B13 RRH-B	175.00	211	6,459	0.010	17	261
Samsung B2/B66A RRH-	175.00	253	7,754	0.012	20	313
RFS DB-B1-6C-12AB-0Z	175.00	21	655	0.001	2	26
Samsung MT6407-77A	175.00	245	7,497	0.011	19	303
Commscope JAHH-65B-R	175.00	364	11,135	0.017	29	450
Antel LPA-80063/6CF	175.00	162	4,961	0.008	13	200
Round Platform w/ Ha	166.00	2,000	55,112	0.084	143	2,475
Ericsson AIR 21, 1.3	163.00	249	6,616	0.010	17	308
Ericsson AIR 21, 1.3	163.00	271	7,206	0.011	19	336
Andrew LNX-6515DS-A1	163.00	149	3,969	0.006	10	185
Pipe	146.00	120	2,558	0.004	7	149
KMW TTA (HB-X-WM-17-	145.00	48	1,003	0.002	3	59
KMW HB-X-WM-17-65-00	145.00	90	1,892	0.003	5	111
		56,397	653,805	1.000	1,692	69,794

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
48	180.95	99	3,246	0.005	8	85
47	178.00	213	6,737	0.010	17	183
46	175.50	54	1,663	0.003	4	47
45	172.50	306	9,108	0.014	24	264

44	168.00	251	7,081	0.011	18	216
43	165.50	64	1,741	0.003	5	55
42	164.00	128	3,446	0.005	9	111
41	161.50	214	5,589	0.009	14	185
40	159.25	108	2,746	0.004	7	93
39	156.75	508	12,484	0.019	32	438
38	152.50	733	17,046	0.026	44	632
37	148.00	592	12,976	0.020	34	511
36	145.50	149	3,153	0.005	8	128
35	142.50	774	15,723	0.024	41	668
34	137.50	913	17,261	0.026	45	787
33	132.50	921	16,176	0.025	42	795
32	128.14	691	11,345	0.017	29	596
31	125.64	259	4,091	0.006	11	224
30	122.50	1,019	15,297	0.023	40	879
29	117.50	1,181	16,303	0.025	42	1,018
28	112.50	1,192	15,086	0.023	39	1,028
27	107.50	1,203	13,904	0.021	36	1,038
26	102.50	1,214	12,758	0.020	33	1,047
25	97.50	1,225	11,649	0.018	30	1,057
24	92.67	1,155	9,915	0.015	26	996
23	90.17	114	929	0.001	2	99
22	88.29	1,191	9,284	0.014	24	1,027
21	85.79	425	3,127	0.005	8	366
20	82.50	1,353	9,212	0.014	24	1,167
19	77.50	1,450	8,710	0.013	23	1,251
18	72.50	1,464	7,695	0.012	20	1,263
17	67.50	1,478	6,734	0.010	17	1,275
16	62.50	1,492	5,828	0.009	15	1,287
15	57.50	1,506	4,979	0.008	13	1,299
14	52.50	1,520	4,189	0.006	11	1,311
13	49.30	428	1,040	0.002	3	369
12	46.80	1,623	3,556	0.005	9	1,400
11	44.55	408	810	0.001	2	352
10	42.05	1,361	2,406	0.004	6	1,174
9	37.50	1,675	2,355	0.004	6	1,445
8	32.50	1,692	1,787	0.003	5	1,459
7	27.50	1,708	1,292	0.002	3	1,473
6	22.50	1,725	873	0.001	2	1,488
5	17.50	1,742	533	0.001	1	1,502
4	14.85	102	22	0.000	0	88
3	12.35	1,893	289	0.000	1	1,633
2	7.50	2,026	114	0.000	0	1,747
1	2.50	2,018	13	0.000	0	1,740
Kaelus DBC0061F1V51-	181.90	76	2,531	0.004	7	66
Powerwave Allgon LGP	181.90	85	2,799	0.004	7	73
Raycap DC6-48-60-0-8	181.90	66	2,171	0.003	6	57
Raycap DC6-48-60-18-	181.90	32	1,052	0.002	3	27
Ericsson Radio 8843	181.90	216	7,137	0.011	18	186
Ericsson RRUS 4449 B	181.90	213	7,048	0.011	18	184
Ericsson RRUS 32 (50	181.90	152	5,043	0.008	13	131
Powerwave Allgon 777	181.90	105	3,474	0.005	9	91
Andrew SBNHH-1D65A	181.90	41	1,353	0.002	4	35
CCI HPA65R-BU6A	181.90	84	2,773	0.004	7	72
Quintel QS66512-2	181.90	333	11,018	0.017	29	287
CCI DMP65R-BU6DA	181.90	238	7,881	0.012	20	205
Round Platform w/ Ha	181.90	2,450	81,065	0.124	210	2,113
Generic Flat Platfor	176.00	2,500	77,440	0.118	200	2,156
Commscope CBC78T-DS-	175.00	62	1,902	0.003	5	54
Samsung B5/B13 RRH-B	175.00	211	6,459	0.010	17	182
Samsung B2/B66A RRH-	175.00	253	7,754	0.012	20	218
RFS DB-B1-6C-12AB-OZ	175.00	21	655	0.001	2	18
Samsung MT6407-77A	175.00	245	7,497	0.011	19	211
Commscope JAHH-65B-R	175.00	364	11,135	0.017	29	314

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

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Customer: VERIZON WIRELESS

Antel LPA-80063/6CF	175.00	162	4,961	0.008	13	140
Round Platform w/ Ha	166.00	2,000	55,112	0.084	143	1,725
Ericsson AIR 21, 1.3	163.00	249	6,616	0.010	17	215
Ericsson AIR 21, 1.3	163.00	271	7,206	0.011	19	234
Andrew LNX-6515DS-A1	163.00	149	3,969	0.006	10	129
Pipe	146.00	120	2,558	0.004	7	103
KMW TTA (HB-X-WM-17-	145.00	48	1,003	0.002	3	41
KMW HB-X-WM-17-65-00	145.00	90	1,892	0.003	5	78
		56,397	653,805	1.000	1,692	48,640

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-67.30	-1.70	0.00	-268.87	0.00	268.87	3,433.77	903.29	3,632.17	2,981.33	0.00	0.00	0.044
5.00	-64.79	-1.71	0.00	-260.38	0.00	260.38	3,397.00	886.04	3,494.75	2,892.57	0.01	-0.01	0.043
10.00	-62.45	-1.72	0.00	-251.82	0.00	251.82	3,359.11	868.78	3,359.99	2,804.10	0.03	-0.02	0.043
14.71	-62.32	-1.73	0.00	-243.70	0.00	243.70	3,322.40	852.52	3,235.46	2,721.09	0.06	-0.04	0.042
14.71	-62.32	-1.73	0.00	-243.70	0.00	243.70	3,322.40	852.52	3,235.46	2,721.09	0.06	-0.04	0.051
15.00	-60.16	-1.74	0.00	-243.20	0.00	243.20	3,320.10	851.52	3,227.87	2,715.99	0.06	-0.04	0.051
20.00	-58.03	-1.75	0.00	-234.52	0.00	234.52	3,279.97	834.27	3,098.41	2,628.28	0.11	-0.05	0.050
20.00	-58.03	-1.75	0.00	-234.52	0.00	234.52	3,279.97	834.27	3,098.41	2,628.28	0.11	-0.05	0.050
25.00	-55.92	-1.76	0.00	-225.78	0.00	225.78	3,238.71	817.01	2,971.60	2,541.03	0.17	-0.07	0.049
30.00	-53.82	-1.77	0.00	-216.98	0.00	216.98	3,196.33	799.75	2,847.43	2,454.30	0.25	-0.08	0.048
35.00	-51.75	-1.77	0.00	-208.16	0.00	208.16	3,152.83	782.50	2,725.91	2,368.14	0.35	-0.10	0.047
40.00	-50.06	-1.77	0.00	-199.30	0.00	199.30	3,108.20	765.24	2,607.05	2,282.62	0.46	-0.12	0.045
44.10	-49.56	-1.78	0.00	-192.03	0.00	192.03	3,070.77	751.09	2,511.56	2,213.00	0.57	-0.13	0.045
45.00	-47.55	-1.77	0.00	-190.43	0.00	190.43	3,062.45	747.98	2,490.83	2,197.78	0.59	-0.13	0.043
48.60	-47.02	-1.77	0.00	-184.05	0.00	184.05	2,379.97	625.11	2,087.36	1,715.94	0.70	-0.14	0.049
50.00	-45.14	-1.77	0.00	-181.57	0.00	181.57	2,371.43	621.08	2,060.56	1,698.68	0.74	-0.15	0.049
55.00	-43.27	-1.76	0.00	-172.74	0.00	172.74	2,340.22	606.70	1,966.27	1,637.16	0.91	-0.17	0.047
60.00	-41.43	-1.75	0.00	-163.93	0.00	163.93	2,307.88	592.32	1,874.19	1,575.92	1.09	-0.18	0.045
65.00	-39.60	-1.74	0.00	-155.17	0.00	155.17	2,274.42	577.94	1,784.32	1,515.02	1.29	-0.20	0.044
70.00	-37.78	-1.73	0.00	-146.47	0.00	146.47	2,239.83	563.56	1,696.65	1,454.51	1.51	-0.22	0.042
75.00	-35.99	-1.71	0.00	-137.84	0.00	137.84	2,204.12	549.18	1,611.20	1,394.44	1.75	-0.23	0.040
80.00	-34.31	-1.68	0.00	-129.31	0.00	129.31	2,167.29	534.79	1,527.95	1,334.88	2.00	-0.25	0.039
80.00	-34.31	-1.68	0.00	-129.31	0.00	129.31	2,167.29	534.79	1,527.95	1,334.88	2.00	-0.25	0.042
85.00	-33.79	-1.68	0.00	-120.89	0.00	120.89	2,129.34	520.41	1,446.91	1,275.87	2.27	-0.27	0.041
86.58	-32.31	-1.66	0.00	-118.23	0.00	118.23	2,117.11	515.87	1,421.76	1,257.35	2.36	-0.27	0.040
90.00	-32.17	-1.66	0.00	-112.57	0.00	112.57	2,090.26	506.03	1,368.08	1,217.49	2.56	-0.28	0.038
90.33	-30.74	-1.63	0.00	-112.03	0.00	112.03	1,547.78	412.01	1,133.49	919.64	2.58	-0.29	0.045
95.00	-29.23	-1.60	0.00	-104.43	0.00	104.43	1,525.71	401.27	1,075.16	882.69	2.87	-0.30	0.042
100.00	-27.72	-1.57	0.00	-96.43	0.00	96.43	1,500.99	389.76	1,014.41	843.28	3.20	-0.32	0.040
105.00	-26.23	-1.53	0.00	-88.60	0.00	88.60	1,475.16	378.26	955.42	804.08	3.54	-0.34	0.037
110.00	-24.76	-1.49	0.00	-80.96	0.00	80.96	1,448.19	366.76	898.21	765.15	3.90	-0.35	0.035
115.00	-23.30	-1.44	0.00	-73.52	0.00	73.52	1,420.11	355.25	842.76	726.55	4.28	-0.37	0.032
120.00	-22.04	-1.40	0.00	-66.30	0.00	66.30	1,390.90	343.75	789.08	688.34	4.68	-0.39	0.030
120.00	-22.04	-1.40	0.00	-66.30	0.00	66.30	1,390.90	343.75	789.08	688.34	4.68	-0.39	0.036
125.00	-21.72	-1.39	0.00	-59.29	0.00	59.29	1,360.57	332.24	737.16	650.56	5.10	-0.40	0.033
126.28	-20.86	-1.36	0.00	-57.50	0.00	57.50	1,352.62	329.30	724.16	640.97	5.20	-0.41	0.032
126.28	-20.86	-1.36	0.00	-57.50	0.00	57.50	900.61	247.63	545.93	429.06	5.20	-0.41	0.040
130.00	-19.72	-1.32	0.00	-52.44	0.00	52.44	888.95	241.22	518.00	412.44	5.53	-0.42	0.037
135.00	-18.59	-1.27	0.00	-45.86	0.00	45.86	872.29	232.59	481.62	390.12	5.98	-0.44	0.033
140.00	-17.63	-1.23	0.00	-39.52	0.00	39.52	854.50	223.96	446.56	367.87	6.45	-0.46	0.029
140.00	-17.63	-1.23	0.00	-39.52	0.00	39.52	854.50	223.96	446.56	367.87	6.45	-0.46	0.037
145.00	-17.28	-1.21	0.00	-33.39	0.00	33.39	835.60	215.33	412.82	345.75	6.93	-0.47	0.033
146.00	-16.40	-1.16	0.00	-32.19	0.00	32.19	831.68	213.60	406.23	341.34	7.03	-0.47	0.032
150.00	-15.49	-1.12	0.00	-27.53	0.00	27.53	815.57	206.70	380.41	323.81	7.43	-0.49	0.028
155.00	-14.86	-1.08	0.00	-21.94	0.00	21.94	794.42	198.07	349.32	302.12	7.95	-0.50	0.024
158.50	-14.73	-1.08	0.00	-18.15	0.00	18.15	778.94	192.03	328.35	287.12	8.33	-0.51	0.021
158.50	-14.73	-1.08	0.00	-18.15	0.00	18.15	778.94	192.03	328.35	287.12	8.33	-0.51	0.082

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

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Customer: VERIZON WIRELESS

160.00	-14.46	-1.06	0.00	-16.54	0.00	16.54	772.14	189.44	319.56	280.73	8.49	-0.52	0.078
163.00	-13.47	-1.00	0.00	-13.35	0.00	13.35	758.24	184.27	302.34	268.07	8.82	-0.55	0.068
165.00	-13.39	-1.00	0.00	-11.34	0.00	11.34	748.74	180.82	291.13	259.70	9.05	-0.56	0.062
166.00	-10.61	-0.82	0.00	-10.34	0.00	10.34	743.93	179.09	285.60	255.54	9.17	-0.57	0.055
170.00	-10.23	-0.79	0.00	-7.07	0.00	7.07	723.19	172.19	264.01	238.74	9.66	-0.60	0.044
175.00	-8.54	-0.67	0.00	-3.10	0.00	3.10	686.95	163.56	238.23	215.28	10.30	-0.62	0.027
176.00	-5.18	-0.42	0.00	-2.43	0.00	2.43	679.70	161.83	233.23	210.73	10.43	-0.62	0.019
180.00	-5.06	-0.41	0.00	-0.77	0.00	0.77	650.71	154.93	213.76	193.04	10.96	-0.63	0.012
181.90	0.00	-0.35	0.00	0.00	0.00	0.00	636.94	151.65	204.82	184.90	11.21	-0.63	0.000

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-46.90	-1.70	0.00	-261.68	0.00	261.68	3,433.77	903.29	3,632.17	2,981.33	0.00	0.00	0.041
5.00	-45.15	-1.70	0.00	-253.20	0.00	253.20	3,397.00	886.04	3,494.75	2,892.57	0.01	-0.01	0.040
10.00	-43.52	-1.71	0.00	-244.68	0.00	244.68	3,359.11	868.78	3,359.99	2,804.10	0.03	-0.02	0.039
14.71	-43.43	-1.72	0.00	-236.61	0.00	236.61	3,322.40	852.52	3,235.46	2,721.09	0.05	-0.04	0.038
14.71	-43.43	-1.72	0.00	-236.61	0.00	236.61	3,322.40	852.52	3,235.46	2,721.09	0.05	-0.04	0.047
15.00	-41.93	-1.72	0.00	-236.11	0.00	236.11	3,320.10	851.52	3,227.87	2,715.99	0.06	-0.04	0.047
20.00	-40.44	-1.73	0.00	-227.51	0.00	227.51	3,279.97	834.27	3,098.41	2,628.28	0.10	-0.05	0.046
20.00	-40.44	-1.73	0.00	-227.51	0.00	227.51	3,279.97	834.27	3,098.41	2,628.28	0.10	-0.05	0.046
25.00	-38.97	-1.73	0.00	-218.87	0.00	218.87	3,238.71	817.01	2,971.60	2,541.03	0.17	-0.07	0.045
30.00	-37.51	-1.74	0.00	-210.21	0.00	210.21	3,196.33	799.75	2,847.43	2,454.30	0.24	-0.08	0.044
35.00	-36.06	-1.74	0.00	-201.52	0.00	201.52	3,152.83	782.50	2,725.91	2,368.14	0.34	-0.10	0.043
40.00	-34.89	-1.74	0.00	-192.83	0.00	192.83	3,108.20	765.24	2,607.05	2,282.62	0.45	-0.11	0.042
44.10	-34.54	-1.74	0.00	-185.70	0.00	185.70	3,070.77	751.09	2,511.56	2,213.00	0.55	-0.13	0.041
45.00	-33.14	-1.73	0.00	-184.14	0.00	184.14	3,062.45	747.98	2,490.83	2,197.78	0.58	-0.13	0.040
48.60	-32.77	-1.73	0.00	-177.90	0.00	177.90	2,379.97	625.11	2,087.36	1,715.94	0.68	-0.14	0.045
50.00	-31.46	-1.72	0.00	-175.47	0.00	175.47	2,371.43	621.08	2,060.56	1,698.68	0.72	-0.15	0.045
55.00	-30.16	-1.72	0.00	-166.85	0.00	166.85	2,340.22	606.70	1,966.27	1,637.16	0.88	-0.16	0.043
60.00	-28.87	-1.71	0.00	-158.26	0.00	158.26	2,307.88	592.32	1,874.19	1,575.92	1.06	-0.18	0.042
65.00	-27.59	-1.69	0.00	-149.73	0.00	149.73	2,274.42	577.94	1,784.32	1,515.02	1.25	-0.19	0.040
70.00	-26.33	-1.68	0.00	-141.27	0.00	141.27	2,239.83	563.56	1,696.65	1,454.51	1.47	-0.21	0.039
75.00	-25.08	-1.66	0.00	-132.89	0.00	132.89	2,204.12	549.18	1,611.20	1,394.44	1.69	-0.23	0.037
80.00	-23.91	-1.63	0.00	-124.61	0.00	124.61	2,167.29	534.79	1,527.95	1,334.88	1.94	-0.24	0.035
80.00	-23.91	-1.63	0.00	-124.61	0.00	124.61	2,167.29	534.79	1,527.95	1,334.88	1.94	-0.24	0.039
85.00	-23.55	-1.63	0.00	-116.44	0.00	116.44	2,129.34	520.41	1,446.91	1,275.87	2.20	-0.26	0.037
86.58	-22.52	-1.60	0.00	-113.87	0.00	113.87	2,117.11	515.87	1,421.76	1,257.35	2.29	-0.26	0.037
90.00	-22.42	-1.60	0.00	-108.39	0.00	108.39	2,090.26	506.03	1,368.08	1,217.49	2.48	-0.28	0.035
90.33	-21.42	-1.58	0.00	-107.86	0.00	107.86	1,547.78	412.01	1,133.49	919.64	2.50	-0.28	0.041
95.00	-20.37	-1.55	0.00	-100.50	0.00	100.50	1,525.71	401.27	1,075.16	882.69	2.78	-0.29	0.039
100.00	-19.32	-1.51	0.00	-92.77	0.00	92.77	1,500.99	389.76	1,014.41	843.28	3.09	-0.31	0.036
105.00	-18.28	-1.48	0.00	-85.21	0.00	85.21	1,475.16	378.26	955.42	804.08	3.43	-0.33	0.034
110.00	-17.25	-1.44	0.00	-77.82	0.00	77.82	1,448.19	366.76	898.21	765.15	3.78	-0.34	0.032
115.00	-16.23	-1.39	0.00	-70.64	0.00	70.64	1,420.11	355.25	842.76	726.55	4.15	-0.36	0.029
120.00	-15.35	-1.35	0.00	-63.68	0.00	63.68	1,390.90	343.75	789.08	688.34	4.53	-0.37	0.027
120.00	-15.35	-1.35	0.00	-63.68	0.00	63.68	1,390.90	343.75	789.08	688.34	4.53	-0.37	0.033
125.00	-15.13	-1.34	0.00	-56.92	0.00	56.92	1,360.57	332.24	737.16	650.56	4.93	-0.39	0.030
126.28	-14.54	-1.31	0.00	-55.20	0.00	55.20	1,352.62	329.30	724.16	640.97	5.04	-0.39	0.030
126.28	-14.54	-1.31	0.00	-55.20	0.00	55.20	900.61	247.63	545.93	429.06	5.04	-0.39	0.036
130.00	-13.74	-1.27	0.00	-50.32	0.00	50.32	888.95	241.22	518.00	412.44	5.35	-0.41	0.033
135.00	-12.95	-1.22	0.00	-43.99	0.00	43.99	872.29	232.59	481.62	390.12	5.78	-0.42	0.030
140.00	-12.29	-1.18	0.00	-37.89	0.00	37.89	854.50	223.96	446.56	367.87	6.23	-0.44	0.027
140.00	-12.29	-1.18	0.00	-37.89	0.00	37.89	854.50	223.96	446.56	367.87	6.23	-0.44	0.033
145.00	-12.04	-1.16	0.00	-32.00	0.00	32.00	835.60	215.33	412.82	345.75	6.70	-0.45	0.029
146.00	-11.42	-1.12	0.00	-30.83	0.00	30.83	831.68	213.60	406.23	341.34	6.80	-0.46	0.028
150.00	-10.79	-1.07	0.00	-26.36	0.00	26.36	815.57	206.70	380.41	323.81	7.19	-0.47	0.025
155.00	-10.35	-1.04	0.00	-21.00	0.00	21.00	794.42	198.07	349.32	302.12	7.69	-0.49	0.021
158.50	-10.26	-1.03	0.00	-17.36	0.00	17.36	778.94	192.03	328.35	287.12	8.05	-0.49	0.018
158.50	-10.26	-1.03	0.00	-17.36	0.00	17.36	778.94	192.03	328.35	287.12	8.05	-0.49	0.074

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

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Customer: VERIZON WIRELESS

160.00	-10.08	-1.02	0.00	-15.81	0.00	15.81	772.14	189.44	319.56	280.73	8.20	-0.50	0.069
163.00	-9.39	-0.96	0.00	-12.76	0.00	12.76	758.24	184.27	302.34	268.07	8.52	-0.53	0.060
165.00	-9.33	-0.96	0.00	-10.83	0.00	10.83	748.74	180.82	291.13	259.70	8.75	-0.54	0.054
166.00	-7.39	-0.78	0.00	-9.88	0.00	9.88	743.93	179.09	285.60	255.54	8.86	-0.55	0.049
170.00	-7.13	-0.76	0.00	-6.75	0.00	6.75	723.19	172.19	264.01	238.74	9.33	-0.58	0.038
175.00	-5.95	-0.64	0.00	-2.96	0.00	2.96	686.95	163.56	238.23	215.28	9.95	-0.60	0.022
176.00	-3.61	-0.40	0.00	-2.32	0.00	2.32	679.70	161.83	233.23	210.73	10.07	-0.60	0.016
180.00	-3.52	-0.39	0.00	-0.74	0.00	0.74	650.71	154.93	213.76	193.04	10.58	-0.60	0.009
181.90	0.00	-0.35	0.00	0.00	0.00	0.00	636.94	151.65	204.82	184.90	10.82	-0.61	0.000

Site Number: 302502

Code: ANSI/TIA-222-H

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Site Name: Harwinton, CT

Engineering Number: 13668727_C3_04

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Customer: VERIZON WIRELESS

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	29.81	0.00	67.63	0.00	0.00	3839.25	158.50	0.86
0.9D + 1.0W	29.78	0.00	50.71	0.00	0.00	3759.40	158.50	0.82
1.2D + 1.0Di + 1.0Wi	6.76	0.00	84.68	0.00	0.00	970.68	158.50	0.26
1.2D + 1.0Ev + 1.0Eh	1.70	0.00	67.30	0.00	0.00	268.87	158.50	0.08
0.9D - 1.0Ev + 1.0Eh	1.70	0.00	46.90	0.00	0.00	261.68	158.50	0.07
1.0D + 1.0W	7.28	0.00	56.39	0.00	0.00	926.80	158.50	0.22

Additional Steel Summary

			Intermediate Connectors				Max Member		
Elev From (ft)	Elev To (ft)	Member	VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Ratio	Pu (kip)	phiPn (kip)	Ratio
0.00	14.71	(3) SOL-#20 All Thread Bar	139.1	4.2	16.8	0.248	209.1	330.5	0.633
0.00	20.00	(3) SOL-4 1/4" SOLID	443.2	7.3	38.3	0.191	633.8	635.6	0.997
20.00	80.00	(3) SOL-4 1/4" SOLID	554.4	12.2	38.3	0.319	624.8	633.4	0.986
80.00	120.00	(3) SOL-4" SOLID	588.5	12.9	38.3	0.338	477.8	560.5	0.853
120.00	140.00	(3) SOL-3 1/2" SOLID	599.6	13.2	38.3	0.345	314.7	428.0	0.735
140.00	158.50	(3) SOL-3" SOLID	575.0	12.6	38.3	0.331	222.6	313.1	0.711

			Upper Termination Connectors				Lower Termination Connectors					
Elev From (ft)	Elev To (ft)	Member	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio
0.00	14.71	(3) SOL-#20 All Thread Bar	198.4	25.3	8	12	0.654	0.0	25.3	0	0	0.000
0.00	20.00	(3) SOL-4 1/4" SOLID	0.0	12.0	0	0	0.000	0.0	12.0	0	0	0.000
20.00	80.00	(3) SOL-4 1/4" SOLID	0.0	25.3	0	0	0.000	0.0	25.3	0	0	0.000
80.00	120.00	(3) SOL-4" SOLID	0.0	25.3	0	0	0.000	0.0	25.3	0	0	0.000
120.00	140.00	(3) SOL-3 1/2" SOLID	0.0	25.3	0	0	0.000	0.0	25.3	0	0	0.000
140.00	158.50	(3) SOL-3" SOLID	121.9	25.3	5	5	0.965	0.0	25.3	0	0	0.000

Site Name: Harwinton, CT
Site Number: 302502
Tower Type: MP
Design Loads (Factored) - Analysis per TIA-222-H Standards

Monolithic Mat & Pier Foundation Analysis

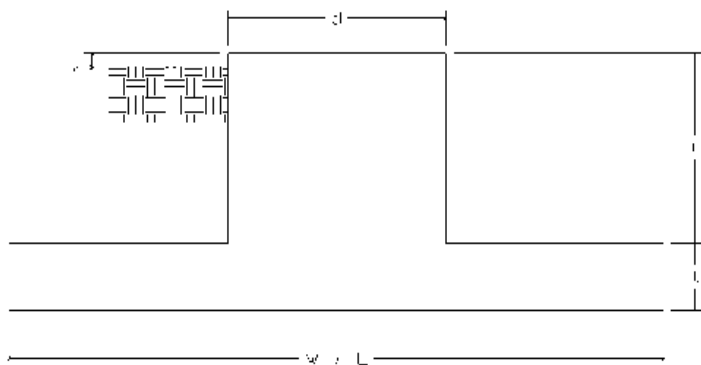
Foundation Analysis Parameters		
Design / Analysis / Mapping:	Analysis	-
Compression/Leg:	67.6	k
Uplift/Leg:	0.0	k
Total Shear:	29.8	k
Moment:	3,839.3	k-ft
Tower + Appurtenance Weight:	67.6	k
Depth to Base of Foundation (l + t - h):	8	ft
Diameter of Pier (d):	6.770275	ft
Length of Pier (l):	5.5	ft
Height of Pier above Ground (h):	0.5	ft
Width of Pad (W):	20	ft
Length of Pad (L):	20	ft
Thickness of Pad (t):	3	ft
Tower Leg Center to Center:	0	ft
Number of Tower Legs:	1	-
Tower Center from Mat Center:	0	ft
Depth Below Ground Surface to Water Table:	99	ft
Unit Weight of Concrete:	150	pcf
Unit Weight of Soil Above Water Table:	136	pcf
Unit Weight of Water:	62.4	pcf
Unit Weight of Soil Below Water Table:	73.6	pcf
Friction Angle of Uplift:	15	°
Coefficient of Shear Friction:	0.30	-
Ultimate Compressive Bearing Pressure:	22,642	psf
Ultimate Passive Pressure on Pad Face:	2,365	psf
$f_{\text{Soil and Concrete Weight}}$:	0.9	-
f_{Soil} :	0.75	-

Foundation Steel Parameters		
Shear/Leg (Compression):	29.8	k
Shear/Leg (Uplift):	29.8	k
Concrete Strength (f'_c):	3,000	psi
Pad Tension Steel Depth:	32.38	in
Dead Load Factor:	0.9	-
f_{Shear} :	0.75	-
$f_{\text{Flexure / Tension}}$:	0.9	-
$f_{\text{Compression}}$:	0.65	-
b:	0.85	-
Bottom Pad Rebar Size #:	10	-
# of Bottom Pad Rebar:	40	-
Pad Bottom Steel Area:	50.80	in ²
Pad Steel F_y :	60,000	psi
Top Pad Rebar Size #:	5	-
# of Top Pad Rebar:	40	-
Pad Top Steel Area:	12.40	in ²
Pier Rebar Size #:	11	-
Pier Steel Area (Single Bar):	1.56	in ²
# of Pier Rebar:	52	-
Pier Steel F_y :	60,000	psi
Pier Cage Diameter:	72.9	in
Rebar Strain Limit:	0.008	-
Steel Elastic Modulus:	29,000	ksi
Tie Rebar Size #:	4	-
Tie Steel Area (Single Bar):	0.20	in ²
Tie Spacing:	12	in
Tie Steel F_y :	60,000	psi
Clear Cover:	3	in

Overturning Moment Usage		
Design OTM:	4092.6	k-ft
OTM Resistance:	5053.3	k-ft
Design OTM / OTM Resistance:	81%	Pass

Soil Bearing Pressure Usage		
Net Bearing Pressure:	5408	psf
Factored Nominal Bearing Pressure:	16982	psf
Factored Nominal (Net) Bearing Pressure:	32%	Pass
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge	

Sliding Factor of Safety		
Ultimate Friction Resistance:	154.1	k
Ultimate Passive Pressure Resistance:	106.4	k
Total Factored Sliding Resistance:	195.4	k
Sliding Design / Sliding Resistance:	15%	Pass



Pad Strength Capacity			
Factored One Way Shear (V_u):	423.6	k	
One Way Shear Capacity (fV_c):	638.4	k	ACI 318-14 25.5.5.1
V_u / fV_c :	66%	Pass	
Load Direction Controlling Shear Capacity:	Parallel to Pad Edge		
Lower Steel Pad Factored Moment (M_u):	2189.0	k-ft	
Lower Steel Pad Moment Capacity (fM_n):	6917.1	k-ft	ACI 318-14 22.3.1.1
M_u / fM_n :	32%	Pass	
Load Direction Controlling Flexural Capacity:	Parallel to Pad Edge		
Upper Steel Pad Factored Moment (M_u):	494.4	k-ft	
Upper Steel Pad Moment Capacity (fM_n):	1777.7	k-ft	
M_u / fM_n :	28%	Pass	
Lower Pad Flexural Reinforcement Ratio:	0.0065		OK - ACI 318-14 7.6.1.1 & 8.6.1.1
Upper Pad Flexural Reinforcement Ratio:	0.0016		OK - ACI 318-14 7.6.1.1 & 8.6.1.1
Lower Pad Reinforcement Spacing:	6.0	in	OK - ACI 318-14 7.7.2.3, 8.7.2.2, & 24.4.3.3
Upper Pad Reinforcement Spacing:	6.0	in	OK - ACI 318-14 7.7.2.3, 8.7.2.2, & 24.4.3.3
Ultimate Punching Shear Stress, v_u :	49.78	psi	ACI 318-14 R8.4.4.2.3
Nominal Punching Shear Capacity ($f_c v_c$):	164.3	psi	ACI 318-14 22.6.5.2
$v_u / f_c v_c$:	30%	Pass	
Pier Moment Pad Flexure Transfer Ratio, γ_f :	0.60		TIA-222-H 9.4.2
Moment Transfer Effective Flexural Width, B_{eff} :	15.77	ft	TIA-222-H 9.4.2
Moment Transfer Through Pad Flexure:	28823.04	k-in	TIA-222-H 9.4.2
Moment Transfer Flexural Capacity ($fM_{sc,t}$):	67537.88	k-in	
$g_f M_{sc} / fM_{sc,t}$:	0%	Pass	

Pier Strength Capacity			
Factored Moment in Pier (M_u):	4003.2	k-ft	
Pier Moment Capacity (fM_n):	13006.1	k-ft	
M_u / fM_n :	31%	Pass	
Factored Shear in Pier (V_u):	29.8	k	
Pier Shear Capacity (fV_n):	526.2	k	ACI 318-14 22.5.1.1
V_u / fV_c :	6%	Pass	
Pier Shear Reinforcement Ratio:	0.0004		OK - No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0	k	
Pier Tension Capacity (fT_n):	4380.5	k	
T_u / fT_n :	0%	Pass	
Factored Compression in Pier (P_u):	67.6	k	
Pier Compression Capacity (fP_n):	6815.1	k	ACI 318-14 22.4.2.1
P_u / fP_n :	1%	Pass	
Minimum Depth to Develop Vertical Rebar:	63	in	ACI 318-14 25.4.2.3
Minimum Hook Development Length:	31	in	ACI 318-14 25.4.3.1
Minimum Mat Thickness / Edge Distance from Pier:	34.0	in	
Minimum Foundation Depth:	8.35	ft	
$M_u / f_B M_n + T_u / f_T T_n$:	31%	Pass	



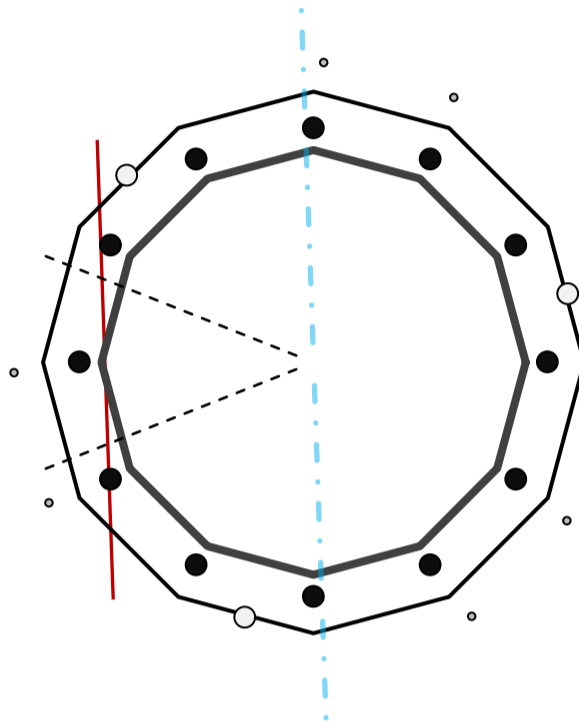
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	12	-
Diameter	43	in
Thickness	3/8	in
Orientation Offset	0	°

Base Reactions		
Moment, Mu	3,839.3	k-ft
Axial, Pu	67.6	k
Shear, Vu	29.8	k
Neutral Axis	92	°

Report Capacities		
Component	Capacity	Result
Base Plate	24%	Pass
Anchor Rods	82%	Pass
Dwyidag	62%	Pass

Base Plate		
Number of Sides	12	-
Diameter, ϕ	55	in
Thickness	2 1/2	in
Grade	A572-50	
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Clip	N/A	in
Orientation Offset		°
Anchor Rod Detail	c	$\eta=0.55$
Clear Distance	N/A	in
Applied Moment, Mu	361.9	k
Bending Stress, ϕMn	1481.5	k



Dwyidag Reinforcement		
Quantity	3	-
Bar Size	#20	in
Diameter, ϕ	2.5	in
Bracket Type	Angle	-
Circle	55.50	in
Orientation Offset	15	°
Applied Force, Pu	228.5	k
Dwyidag Bar, ϕPn	368.2	k

Original Anchor Rods		
Arrangement	Radial	-
Quantity	12	-
Diameter, ϕ	2 1/4	in
Bolt Circle	49.25	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	12.9	in
Orientation Offset	0	°
Applied Force, Pu	194.5	k
Anchor Rods, ϕPn	243.6	k

Additional Dwyidag Reinforcement		
Quantity	6	-
Diameter, ϕ	1	in
Bolt Circle	63	in
Grade	Other	
Yield Strength, Fy	109	ksi
Tensile Strength, Fu	125	ksi
Bypass Base?	Yes (Dwyidag)	
Orientation Offset	0	°
Applied Force, Pu	60.4	k
Additional Rod, ϕPn	73.6	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	29.8	2244.3	0.58
Anchor Rod Forces	29.8	2244.3	0.58
Additional Bolt (Grp1) Forces	0.0	465.3	0.12
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	1129.6	0.29
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	49.6447	4.1371	0.1948		11277.22
Bolt	3.9761	3.2477	0.8393	4.5	10714.13
Bolt1	0.7854	0.7854	0.0491	8	2338.23
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	4.9087	4.9087	1.9175		5675.81
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate

Shape	12	-
Width, W	55	in
Thickness, t	2.5	in
Yield Strength, Fy	50	ksi
Tensile Strength, Fu	65	ksi
Base Plate Chord	34.293	in
Detail Type	c	-
Detail Factor	0.55	-
Clear Distance	N/A	-

Anchor Rods

Anchor Rod Quantity, N	12	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	49.25	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	194.5	k
Applied Shear, Vu	0.8	k
Compressive Capacity, φPn	243.6	k
Tensile Capacity, φRnt	0.799	OK
Interaction Capacity	0.804	OK

External Base Plate

Chord Length AA	34.657	in
Additional AA	5.000	in
Section Modulus, Z	61.964	in ³
Applied Moment, Mu	361.9	k-ft
Bending Capacity, φMn	2788.4	k-ft
Capacity, Mu/φMn	0.130	OK
Chord Length AB	33.135	in
Additional AB	5.000	in
Section Modulus, Z	59.587	in ³
Applied Moment, Mu	214.0	k-ft
Bending Capacity, φMn	2681.4	k-ft
Capacity, Mu/φMn	0.080	OK
Bend Line Length	21.070	in
Additional Bend Line	0.000	in
Section Modulus, Z	32.921	in ³
Applied Moment, Mu	361.9	k-ft
Bending Capacity, φMn	1481.5	k-ft
Capacity, Mu/φMn	0.244	OK

Additional Bolt Group 1

Bolt Quantity, N	6	-
Bolt Diameter, d	1	in
Bolt Circle, BC	63	in
Yield Strength, Fy	109	ksi
Tensile Strength, Fu	125	ksi
Applied Axial, Pu	60.4	k
Applied Shear, Vu	0.1	k
Compressive Capacity, φPn	73.6	k
Compressive Capacity, φPn	0.821	OK
Interaction Capacity	0.821	OK

Internal Base Plate

Arc Length	0.000	in
Section Modulus, Z	0.000	in ³
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, φMn	0.0	k-ft
Capacity, Mu/φMn		

Dywidag Reinforcement

Dywidag Quantity, N	3	-
Dywidag Diameter, d	2.5	in
Bolt Circle, BC	55.5	in
Yield Strength, Fy	80	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	228.5	k
Compressive Capacity, φPn	368.2	k
Capacity, Pu/φPn	0.621	OK

Flange Plate Analysis

Flange Plate	Plate Type	Flange	@ 120 ft
	Pole Diameter	23.55	in
	Pole Thickness	0.1875	in
	Plate Diameter	30	in
	Plate Thickness	1.25	in
	Plate Fy	36	ksi
	Weld Length	0.1875	in
	f _s Resistance	58.52	k-in
	Applied	20.08	k-in

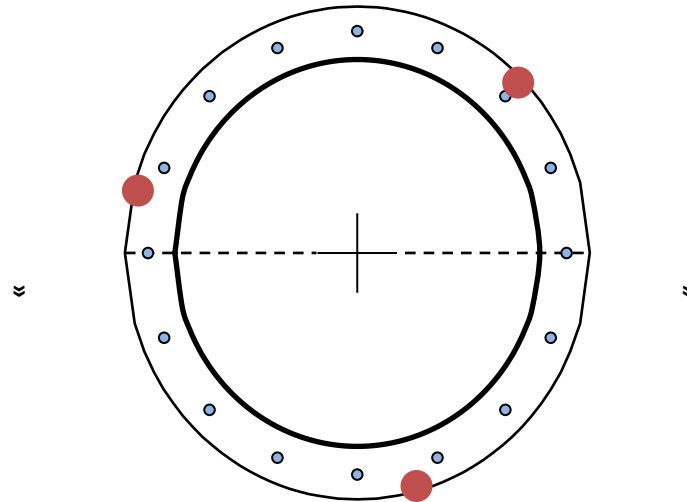
Code Rev.	H
Moment	855.1 k-ft
Axial	21.0 k

Date	7/8/2021
Engineer	HAT
Site #	302502
Carrier	VZW

Required Flange Thickness:
0.73 in OK

Stiffeners	#	
------------	---	--

Bolts	#	16	
	Bolt Circle	27	in
	(R)adial / (S)quare	R	
	Bolt Gap	6	in
	Diameter	1	in
	Hole Diameter	1.125	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	f _s Resistance	54.52	k
Applied	20.60	k	



Reinforcement	#	3	
	DYW. Circle	29.35	in
	Offset Angle	45	°
	Type	Other	
	Diameter	3.5	in
	Fu	65	ksi
	f _s Resistance	500.30	k
Applied	343.91	k	

Plate Stress Ratio:
34% Pass

Bolt Stress Ratio:
38% Pass

Extra Bolts	#	
-------------	---	--

Reinforcement Stress Ratio:
69% Pass



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Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10050575
Maser Consulting Connecticut Project #: 21777534A

May 21, 2021

Site Information

Site ID: 467932-VZW / HARWINTON N CT
Site Name: HARWINTON N CT
Carrier Name: Verizon Wireless
Address: 159 Weingart Rd
Harwinton, Connecticut 06791
Litchfield County
Latitude: 41.787753°
Longitude: -73.092531°

Structure Information

Tower Type: Monopole
Mount Type: 14.00-ft Platform

FUZE ID # 16244159

Analysis Results

Platform: 49.0% Pass

*****Contractor PMI Requirements:**

Included at the end of this MA report

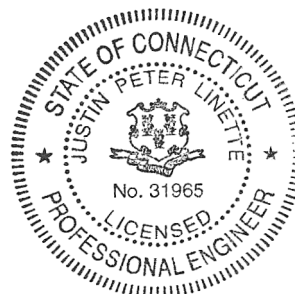
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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

Report Prepared By: Erin Towler



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 324069, dated March 16, 2021</i>
<i>Mount Mapping Report</i>	<i>RKS Design & Engineering LLC, Site ID: ATC: 302502, VZW:467932, dated April 16, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 115 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 : 0.963
Seismic Parameters:	S_s : 0.176 S_1 : 0.054
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)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
173.75	175.00	6	Antel	LPA-80063/6CF_5	Retained
		6	Commscope	JAHH-65B-R3B	
		1	Raycap	RHSDC-6627-PF-48	
		3	Samsung	MT6407-77A	Added
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Commscope	CBC78T-DS-43-2X	

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut 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 Maser Consulting Connecticut 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 by Maser Consulting Connecticut, 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. Maser Consulting Connecticut 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:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face	46.4 %	Pass
Inner Standoff	20.9 %	Pass
Outer Standoff	10.1 %	Pass
Grating Support	14.5 %	Pass
Grating Corner Support	36.6 %	Pass
Support Rail	31.9 %	Pass
Support Rail Corner	13.8 %	Pass
Kicker	11.8 %	Pass
V-Brace	11.9 %	Pass
Antenna Pipe	49.0 %	Pass
Mount Connection	36.6 %	Pass
Structure Rating – (Controlling Utilization of all Components)		49.0%

Recommendation:

The existing mount is **SUFFICIENT** for the final loading configuration and do not require modifications.

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.

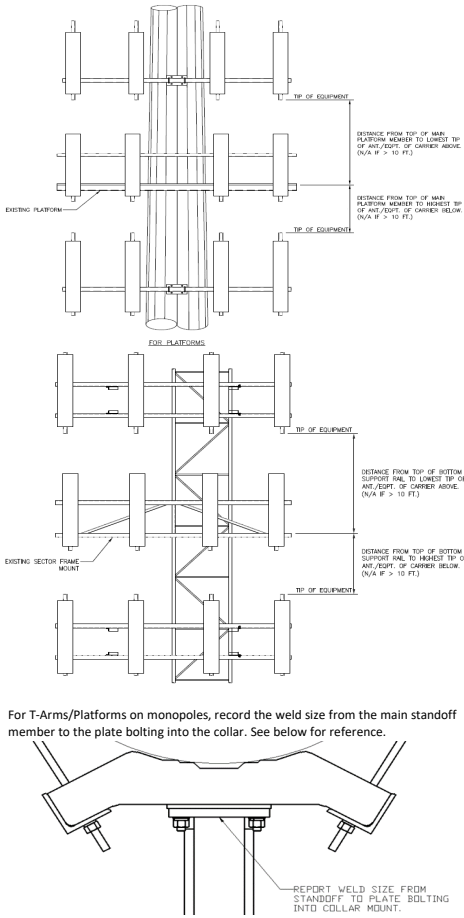
Attachments:

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



Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B											
Sector A:	20.00	Deg	Leg A:		Deg			Ant _{1a}	B13 RRH4X30	11.80	7.50	21.00		175.375	14.50	-7.50		378	
Sector B:	140.00	Deg	Leg B:		Deg			Ant _{1b}	LPA-80063-6CF-EDIN-	15.20	13.10	71.10		174.021	30.75	14.75	160.00	23,376	
Sector C:	260.00	Deg	Leg C:		Deg			Ant _{1c}											
Sector D:		Deg	Leg D:		Deg			Ant _{2a}											
Climbing Facility Information								Ant _{2b}	(2) JAHH-65B-R3B	13.80	8.20	72.00		173.688	47.00	13.50	150.00	23,388	
Location:	260.00	Deg	Sector C																
Climbing Facility	Corrosion Type:	N/A																	
	Access:	Climbing path was unobstructed.																	
	Condition:	Good condition.																	
Sector B								Ant _{2c}											
Sector C								Ant _{3a}	AHCA	11.60	6.50	13.30		176.625	11.75	9.25		23,394	
								Ant _{3b}	(UHIE)B66A RRH 4X4	11.80	7.20	25.80		174.488	37.40	8.50		23,398	
								Ant _{3c}	(UHFA)B25 RRH 4X30	12.00	7.20	21.20		174.375	38.75	-8.25		396	
								Ant _{4a}											
								Ant _{4b}	LPA-80063-6CF-EDIN-	15.20	13.10	71.10		173.854	32.75	14.75	180.00	23,404	
								Ant _{4c}											
								Ant _{5a}											
								Ant _{5b}											
								Ant _{5c}											
								Ant on Standoff											
								Ant on Standoff											
								Ant on Tower											
								Ant on Tower											
Sector C								Ant _{1a}	B13 RRH4X30	11.80	7.50	21.00		175.375	14.50	-7.50		414	
								Ant _{1b}	LPA-80063-6CF-EDIN-	15.20	13.10	71.10		174.021	30.75	14.75	290.00	30,411	
								Ant _{1c}											
								Ant _{2a}											
								Ant _{2b}	(2) JAHH-65B-R3B	13.80	8.20	72.00		173.688	47.00	13.50	300.00	30,424	
								Ant _{2c}											
								Ant _{3a}	AHCA	11.60	6.50	13.30		176.625	11.75	9.25		30,430	
								Ant _{3b}	(UHIE)B66A RRH 4X4	11.80	7.20	25.80		174.488	37.40	8.50		30,434	
								Ant _{3c}	(UHFA)B25 RRH 4X30	12.00	7.20	21.20		174.375	38.75	-8.25		432	
								Ant _{4a}											
								Ant _{4b}	LPA-80063-6CF-EDIN-	15.20	13.10	71.10		173.854	32.75	14.75	300.00	30,440	
								Ant _{4c}											
								Ant _{5a}											
								Ant _{5b}											
								Ant _{5c}											
								Ant on Standoff											
								Ant on Standoff											
								Ant on Tower											
								Ant on Tower											
Sector D								Ant _{1a}											
								Ant _{1b}											
								Ant _{1c}											
								Ant _{2a}											
								Ant _{2b}											
								Ant _{2c}											
								Ant _{3a}											
								Ant _{3b}											
								Ant _{3c}											
								Ant _{4a}											
								Ant _{4b}											
								Ant _{4c}											
								Ant _{5a}											
								Ant _{5b}											
								Ant _{5c}											
								Ant on Standoff											
								Ant on Standoff											
								Ant on Tower											
								Ant on Tower											

Please insert a photo of the mount centerline measurement here.



Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	COAX TOTAL(7): (6)FH 1-5/8, (1) 2" Ø HYBRID	51
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
<ol style="list-style-type: none"> 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
<ol style="list-style-type: none"> 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.



PAUL J. FORD & COMPANY

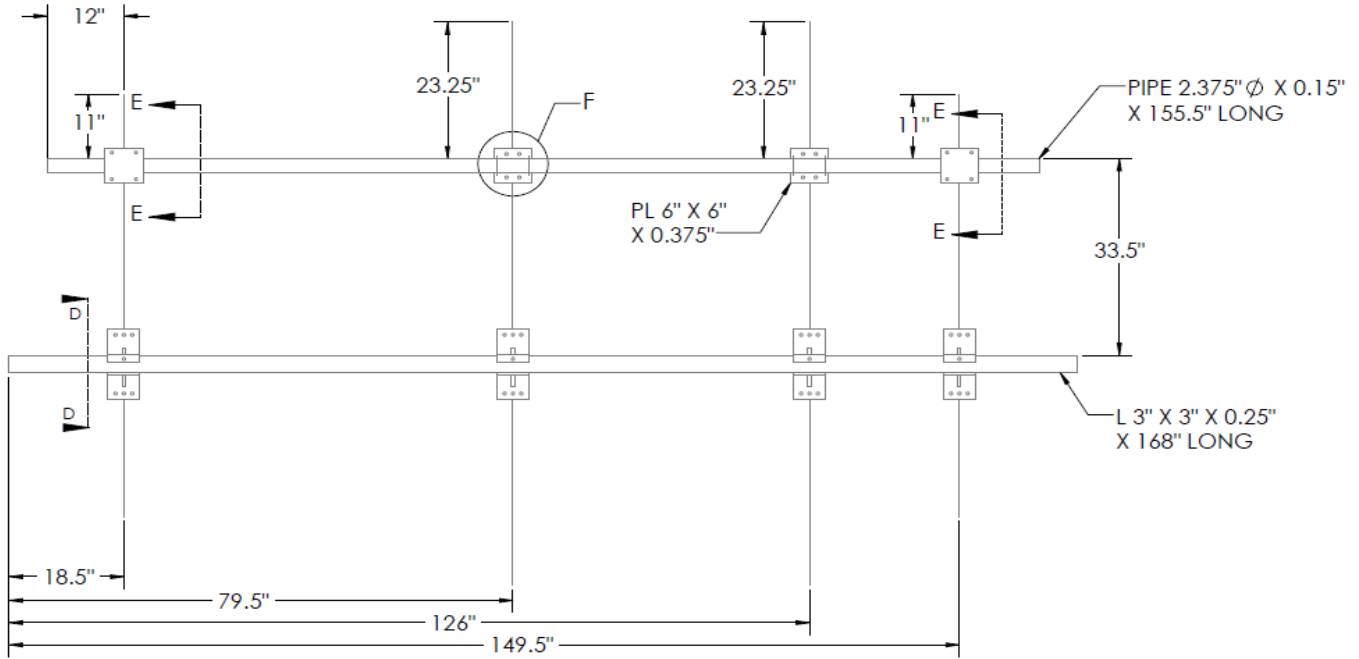
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

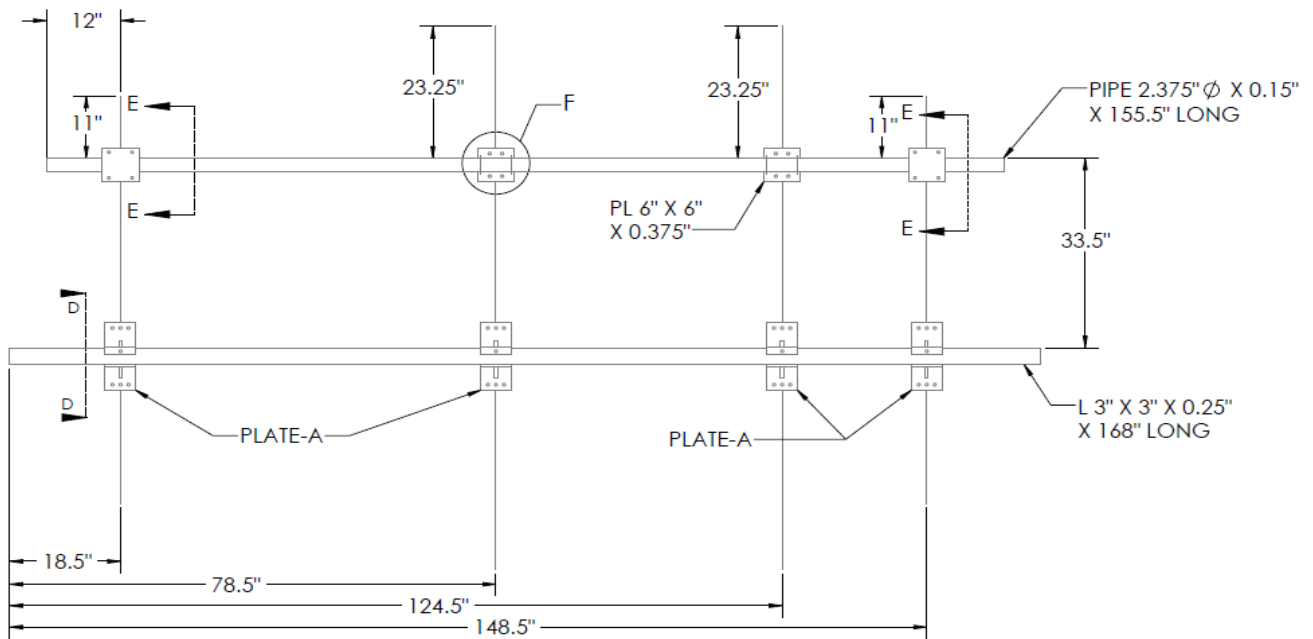
Tower Owner:	ATC	Mapping Date:	4/16/2021
Site Name:	ATC: HARWINTON, VZW: HARWINTON N CT	Tower Type:	MONOPOLE
Site Number or ID:	ATC: 302502, VZW:467932	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	172.75

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.

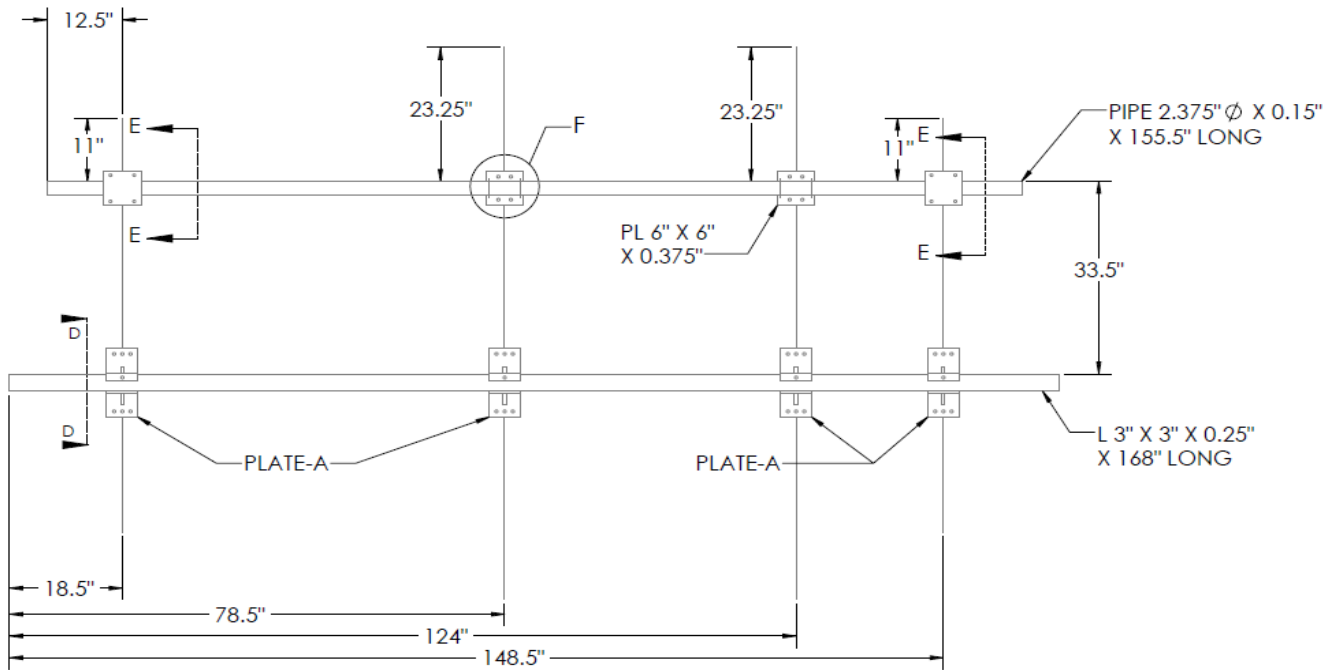
Please Insert Sketches of the Antenna Mount



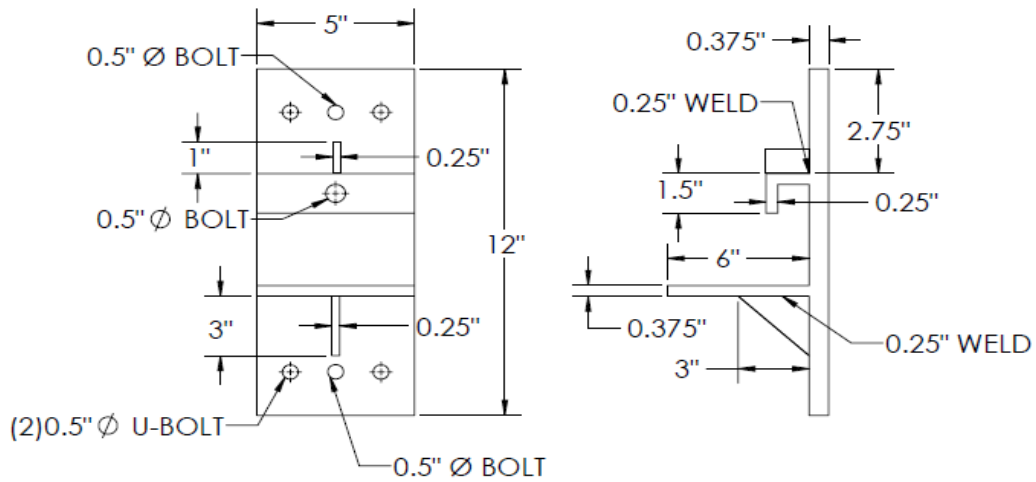
SECTOR-A



SECTOR-B



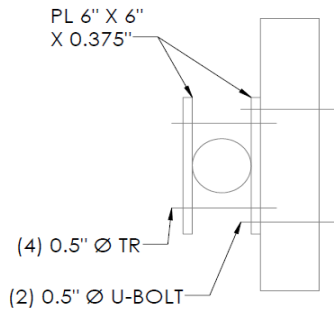
SECTOR-C



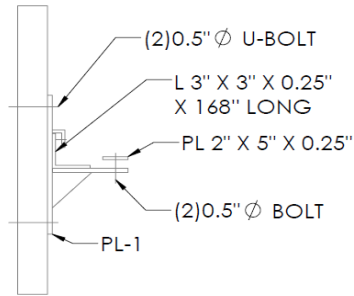
FRONT VIEW

SIDE VIEW

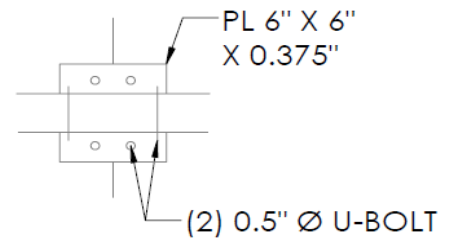
DETAIL OF PL-A



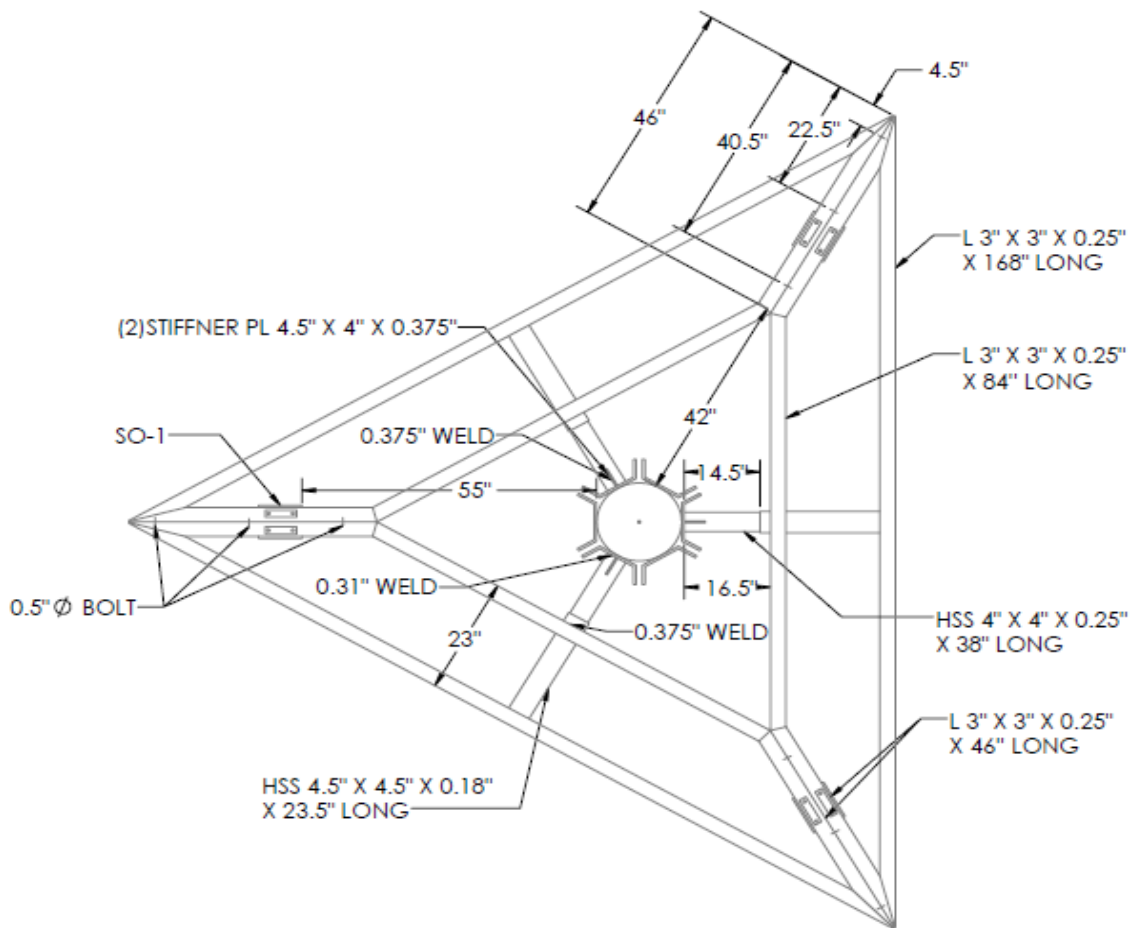
SECTION E-E



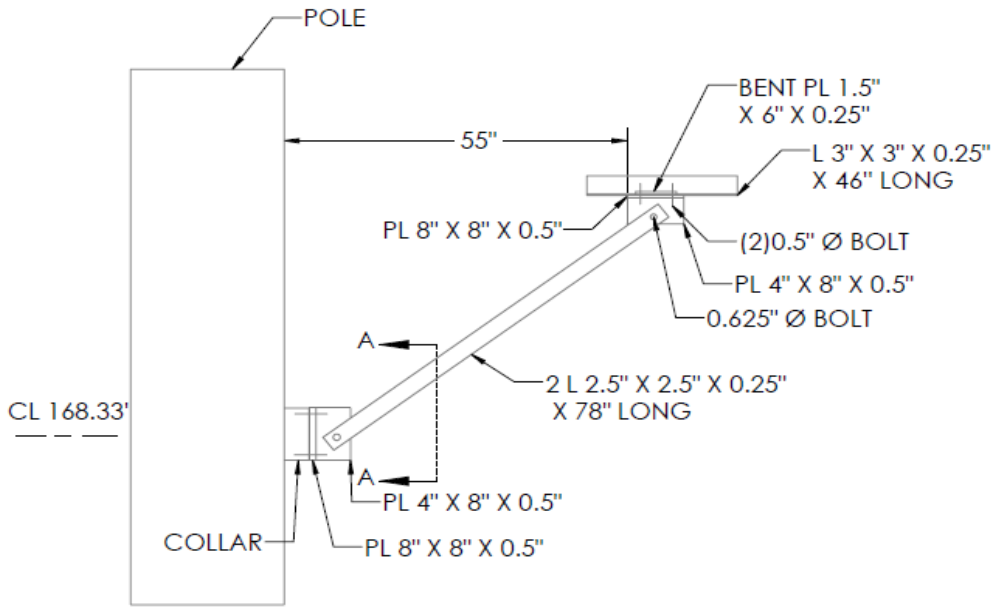
SECTION D-D



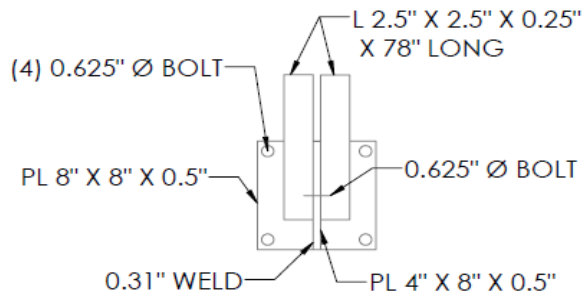
DETAIL F



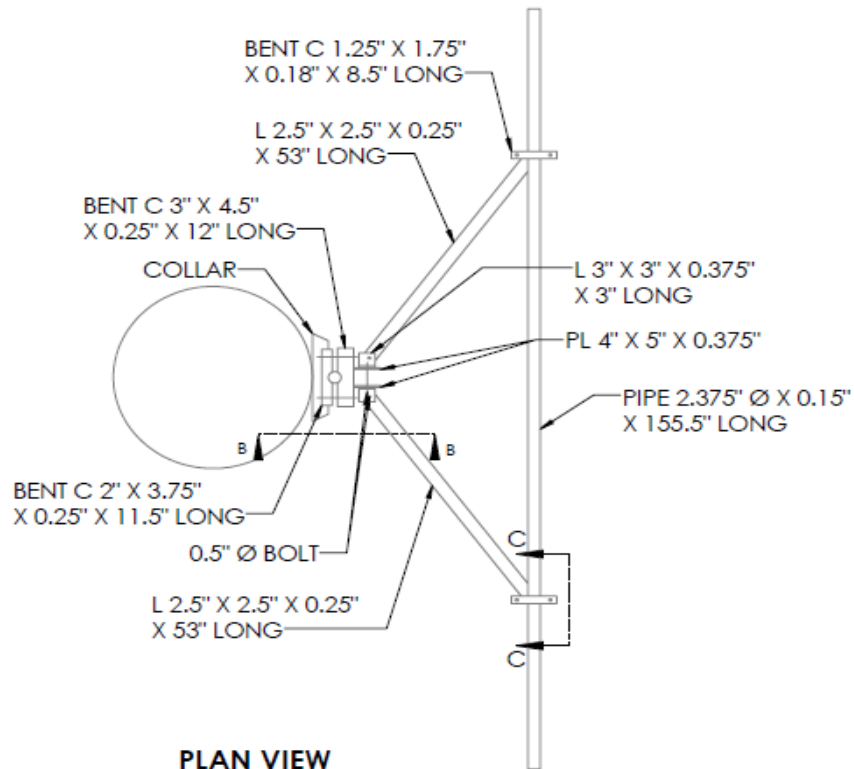
MOUNT PLAN VIEW



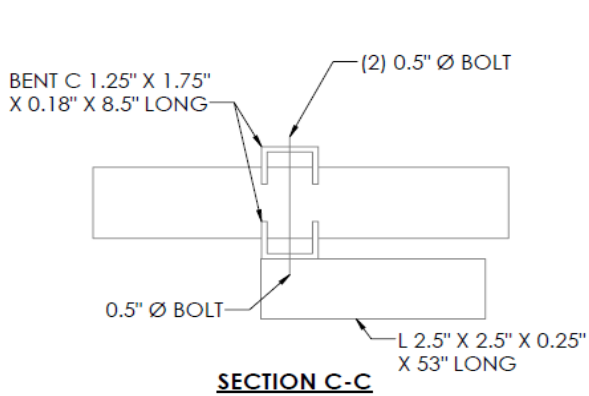
STAND OFF VIEW-1



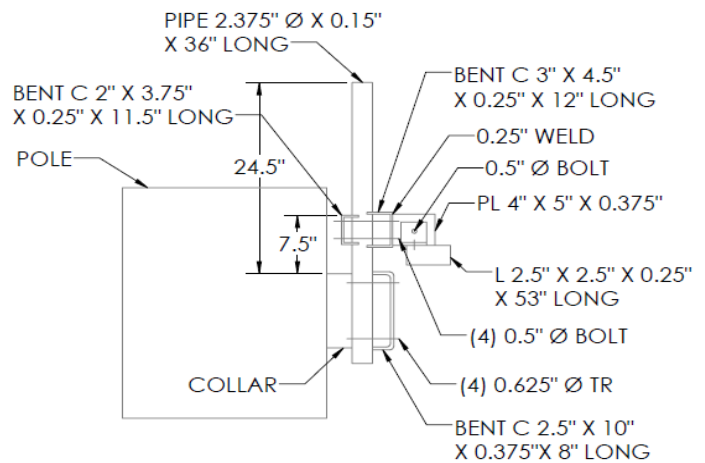
SECTION A-A



PLAN VIEW
(MOUNT CL 175.08')



SECTION C-C



SECTION B-B



**PAUL J. FORD
& COMPANY**

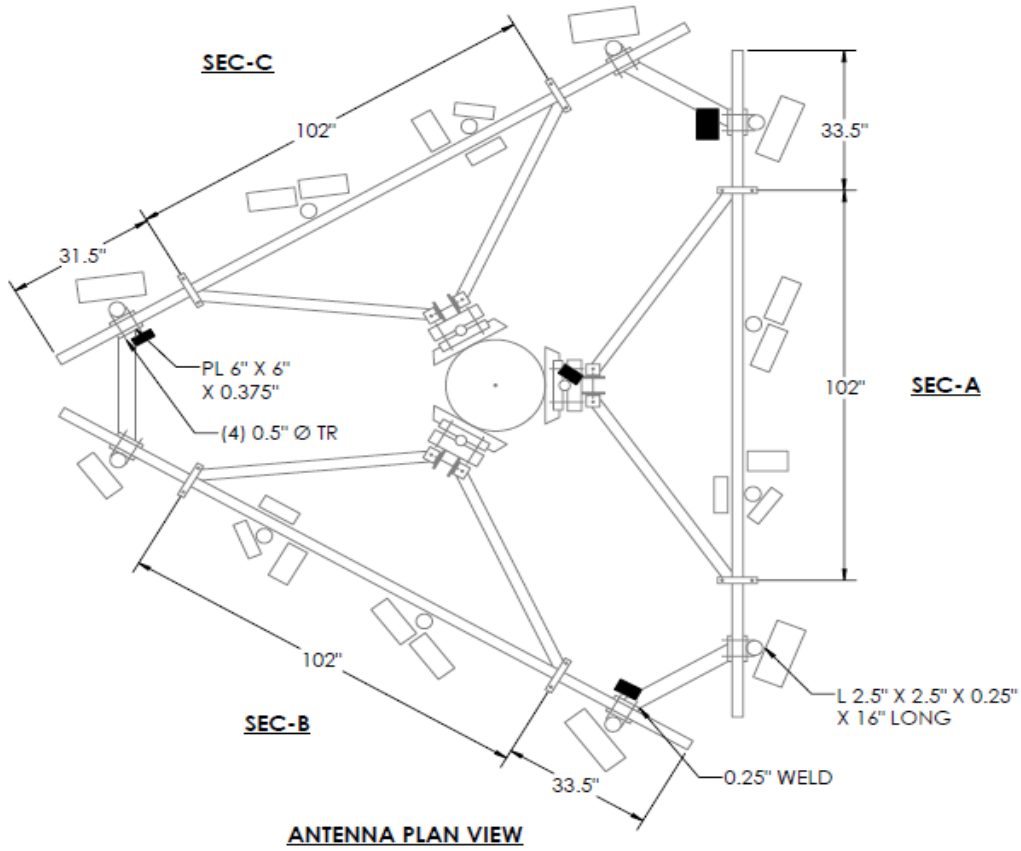
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

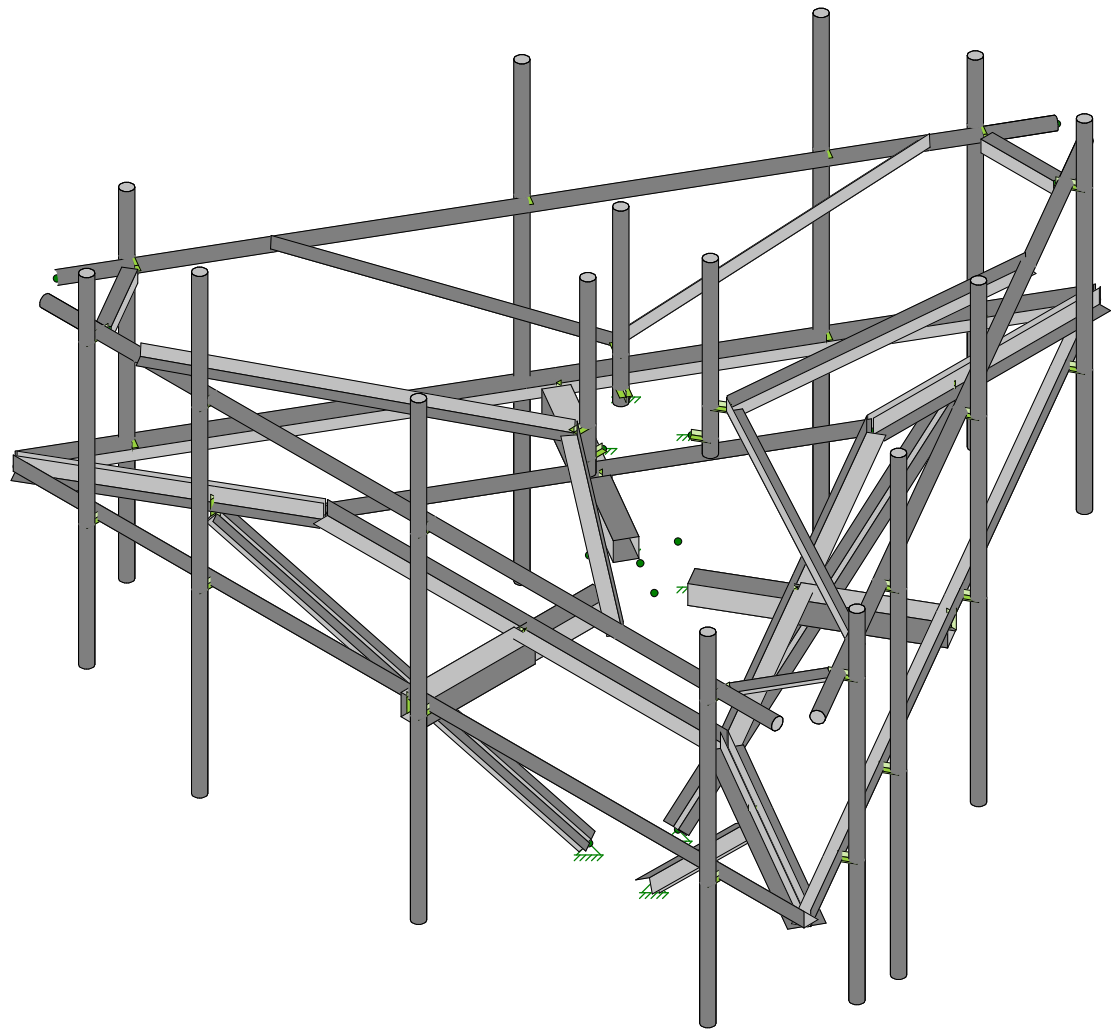
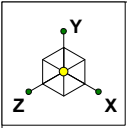
Tower Owner:	ATC	Mapping Date:	4/16/2021
Site Name:	ATC: HARWINTON, VZW: HARWINTON N CT	Tower Type:	MONOPOLE
Site Number or ID:	ATC: 302502, VZW:467932	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	172.75

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Please Insert Sketches of the Antenna Mount



ANTENNA PLAN VIEW



Basic Load Cases

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

Load Combinations (Continued)

	Description	S...	PDe...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
39	1.2D + 1.5Lm2 + 1.0Wm (60 D...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1								
40	1.2D + 1.5Lm2 + 1.0Wm (90 D...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1								
41	1.2D + 1.5Lm2 + 1.0Wm (120 ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1								
42	1.2D + 1.5Lm2 + 1.0Wm (150 ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1								
43	1.2D + 1.5Lm2 + 1.0Wm (180 ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1								
44	1.2D + 1.5Lm2 + 1.0Wm (210 ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1								
45	1.2D + 1.5Lm2 + 1.0Wm (240 ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1								
46	1.2D + 1.5Lm2 + 1.0Wm (270 ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1								
47	1.2D + 1.5Lm2 + 1.0Wm (300 ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1								
48	1.2D + 1.5Lm2 + 1.0Wm (330 ...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1								
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5												
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5												
51	1.4D	Yes	Y		1	1.4	39	1.4														
52	Seismic Mass		Y		1	1	39	1														
53	1.2D + 1.0Ev + 1.0Eh (0 Deg)		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1								
54	1.2D + 1.0Ev + 1.0Eh (30 Deg)		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-8...								
55	1.2D + 1.0Ev + 1.0Eh (60 Deg)		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5								
56	1.2D + 1.0Ev + 1.0Eh (90 Deg)		Y		1	1.2	39	1.2	SX	1	SY	1	SZ									
57	1.2D + 1.0Ev + 1.0Eh (120 Deg)		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5								
58	1.2D + 1.0Ev + 1.0Eh (150 Deg)		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866								
59	1.2D + 1.0Ev + 1.0Eh (180 Deg)		Y		1	1.2	39	1.2	SX		SY	1	SZ	1								
60	1.2D + 1.0Ev + 1.0Eh (210 Deg)		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866								
61	1.2D + 1.0Ev + 1.0Eh (240 Deg)		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	.5								
62	1.2D + 1.0Ev + 1.0Eh (270 Deg)		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ									
63	1.2D + 1.0Ev + 1.0Eh (300 Deg)		Y		1	1.2	39	1.2	SX	-.8...	SY	1	SZ	-.5								
64	1.2D + 1.0Ev + 1.0Eh (330 Deg)		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.8...								

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Dia...
1	N1	0	0	0	0	
2	N2	0	-25	0.666452	0	
3	N3	-0.577164	-25	-0.333226	0	
4	N4	0.577164	-25	-0.333226	0	
5	N5	-7	0	4.041452	0	
6	N6	7	0	4.041452	0	
7	N7	0	0	-8.082904	0	
8	N8	0	-25	4.041452	0	
9	N9	-3.5	-25	-2.020726	0	
10	N10	3.5	-25	-2.020726	0	
11	N11	0	0	2.041452	0	
12	N12	3.535898	0	2.041452	0	
13	N13	-3.535898	0	2.041452	0	
14	N14	1.767949	0	-1.020726	0	
15	N15	0	0	-4.082904	0	
16	N16	-1.767949	0	-1.020726	0	
17	N17	0	0	4.041452	0	
18	N18	-3.5	0	-2.020726	0	
19	N19	3.5	0	-2.020726	0	
20	N20	0	-25	2.041452	0	
21	N21	1.767949	-25	-1.020726	0	
22	N22	-1.767949	-25	-1.020726	0	
23	N23	-6.479167	2.791667	4.041452	0	
24	N24	6.479167	2.791667	4.041452	0	
25	N25	6.739583	2.791667	3.590397	0	
26	N26	0.260417	2.791667	-7.631849	0	
27	N27	-0.260417	2.791667	-7.631849	0	
28	N28	-6.739583	2.791667	3.590397	0	
29	N29	5.5	0	4.041452	0	
30	N30	.375	0	4.041452	0	
31	N31	-3.5	0	4.041452	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Dia...
32	N32	-5.5	0	4.041452	0	
33	N33	5.5	2.791667	4.041452	0	
34	N34	.375	2.791667	4.041452	0	
35	N35	-3.5	2.791667	4.041452	0	
36	N36	-5.5	2.791667	4.041452	0	
37	N37	5.5	0	4.291452	0	
38	N38	.375	0	4.291452	0	
39	N39	-3.5	0	4.291452	0	
40	N40	-5.5	0	4.291452	0	
41	N41	5.5	2.791667	4.291452	0	
42	N42	.375	2.791667	4.291452	0	
43	N43	-3.5	2.791667	4.291452	0	
44	N44	-5.5	2.791667	4.291452	0	
45	N45	5.5	3.833333	4.291452	0	
46	N46	-5.5	3.833333	4.291452	0	
47	N47	5.5	-2.166667	4.291452	0	
48	N48	-5.5	-2.166667	4.291452	0	
49	N49	.375	4.854167	4.291452	0	
50	N50	-3.5	4.854167	4.291452	0	
51	N51	.375	-3.145833	4.291452	0	
52	N52	-3.5	-3.145833	4.291452	0	
53	N53	0.75	0	-6.783866	0	
54	N54	3.3125	0	-2.345485	0	
55	N55	5.25	0	1.010363	0	
56	N56	6.25	0	2.742414	0	
57	N57	0.75	2.791667	-6.783866	0	
58	N58	3.3125	2.791667	-2.345485	0	
59	N59	5.25	2.791667	1.010363	0	
60	N60	6.25	2.791667	2.742414	0	
61	N61	0.966506	0	-6.908866	0	
62	N62	3.529006	0	-2.470485	0	
63	N63	5.466506	0	0.885363	0	
64	N64	6.466506	0	2.617414	0	
65	N65	0.966506	2.791667	-6.908866	0	
66	N66	3.529006	2.791667	-2.470485	0	
67	N67	5.466506	2.791667	0.885363	0	
68	N68	6.466506	2.791667	2.617414	0	
69	N69	0.966506	3.833333	-6.908866	0	
70	N70	6.466506	3.833333	2.617414	0	
71	N71	0.966506	-2.166667	-6.908866	0	
72	N72	6.466506	-2.166667	2.617414	0	
73	N73	3.529006	4.854167	-2.470485	0	
74	N74	5.466506	4.854167	0.885363	0	
75	N75	3.529006	-3.145833	-2.470485	0	
76	N76	5.466506	-3.145833	0.885363	0	
77	N77	-6.25	0	2.742414	0	
78	N78	-3.6875	0	-1.695966	0	
79	N79	-1.75	0	-5.051815	0	
80	N80	-0.75	0	-6.783866	0	
81	N81	-6.25	2.791667	2.742414	0	
82	N82	-3.6875	2.791667	-1.695966	0	
83	N83	-1.75	2.791667	-5.051815	0	
84	N84	-0.75	2.791667	-6.783866	0	
85	N85	-6.466506	0	2.617414	0	
86	N86	-3.904006	0	-1.820966	0	
87	N87	-1.966506	0	-5.176815	0	
88	N88	-0.966506	0	-6.908866	0	
89	N89	-6.466506	2.791667	2.617414	0	
90	N90	-3.904006	2.791667	-1.820966	0	
91	N91	-1.966506	2.791667	-5.176815	0	
92	N92	-0.966506	2.791667	-6.908866	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Dia...
93	N93	-6.466506	3.833333	2.617414	0	
94	N94	-0.966506	3.833333	-6.908866	0	
95	N95	-6.466506	-2.166667	2.617414	0	
96	N96	-0.966506	-2.166667	-6.908866	0	
97	N97	-3.904006	4.854167	-1.820966	0	
98	N98	-1.966506	4.854167	-5.176815	0	
99	N99	-3.904006	-3.145833	-1.820966	0	
100	N100	-1.966506	-3.145833	-5.176815	0	
101	N101	5.5	2.791667	3.916452	0	
102	N102	-5.5	2.791667	3.916452	0	
103	N103	0.641747	2.791667	-6.721366	0	
104	N104	6.141747	2.791667	2.804914	0	
105	N105	-6.141747	2.791667	2.804914	0	
106	N106	-0.641747	2.791667	-6.721366	0	
107	N107	0.577164	0	0.333226	0	
108	N108	-0.577164	0	0.333226	0	
109	N109	-0.	0	-0.666452	0	
110	N110	-0.	0	-5.499785	0	
111	N111	-4.762954	0	2.749893	0	
112	N112	4.762954	0	2.749893	0	
113	N113	-0.	-.25	-5.499785	0	
114	N114	-4.762954	-.25	2.749893	0	
115	N115	4.762954	-.25	2.749893	0	
116	N116	0.577164	-4.416667	0.333226	0	
117	N117	-0.577164	-4.416667	0.333226	0	
118	N118	-0.	-4.416667	-0.666452	0	
119	N119	0	2.083333	0.666452	0	
120	N120	0	2.083333	0.916452	0	
121	N121	0	1.833333	0.916452	0	
122	N122	0	4.833333	0.916452	0	
123	N123	0	2.583333	0.916452	0	
124	N124	0	2.583333	1.166452	0	
125	N125	3.6875	2.791667	4.041452	0	
126	N126	-4.8125	2.791667	4.041452	0	
127	N127	0.577164	2.083333	-0.333226	0	
128	N128	0.793671	2.083333	-0.458226	0	
129	N129	0.793671	1.833333	-0.458226	0	
130	N130	0.793671	4.833333	-0.458226	0	
131	N131	0.793671	2.583333	-0.458226	0	
132	N132	1.010177	2.583333	-0.583226	0	
133	N133	1.65625	2.791667	-5.214195	0	
134	N134	5.90625	2.791667	2.147021	0	
135	N135	-0.577164	2.083333	-0.333226	0	
136	N136	-0.793671	2.083333	-0.458226	0	
137	N137	-0.793671	1.833333	-0.458226	0	
138	N138	-0.793671	4.833333	-0.458226	0	
139	N139	-0.793671	2.583333	-0.458226	0	
140	N140	-1.010177	2.583333	-0.583226	0	
141	N141	-5.34375	2.791667	1.172743	0	
142	N142	-1.09375	2.791667	-6.188473	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
2	Inner Standoff	HSS4X4X4	None	None	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Outer Standoff	HSS4.5X4.5...	None	None	A500 Gr.B Rect	Typical	3.84	11.4	11.4	18.5
4	Grating Support	L3X3X4	None	None	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Grating Corner Support	LL3x3x4x0	None	None	A36 Gr.36	Typical	2.88	4.5	2.46	.063
6	Support Rail	PIPE_2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Support Rail Corner	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
8	Kicker	LL2.5x2.5x4x3	None	None	A36 Gr.36	Typical	2.38	3.31	1.38	.052
9	V-Brace	L2.5x2.5x4	None	None	A36 Gr.36	Typical	1.19	.692	.692	.026
10	Antenna 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 (/1...	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	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3

Member Primary Data

	Label	I Joint	J Joint	K J...	Rot...	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N5	N6		270	Face	None	None	A36 Gr.36	Typical
2	M2	N7	N5		270	Face	None	None	A36 Gr.36	Typical
3	M3	N6	N7		270	Face	None	None	A36 Gr.36	Typical
4	M4	N20	N2			Inner Standoff	None	None	A500 Gr.B ...	Typical
5	M5	N22	N3			Inner Standoff	None	None	A500 Gr.B ...	Typical
6	M6	N21	N4			Inner Standoff	None	None	A500 Gr.B ...	Typical
7	M7	N20	N8		90	Outer Standoff	None	None	A500 Gr.B ...	Typical
8	M8	N22	N9		90	Outer Standoff	None	None	A500 Gr.B ...	Typical
9	M9	N21	N10		90	Outer Standoff	None	None	A500 Gr.B ...	Typical
10	M10	N12	N13		270	Grating Support	None	None	A36 Gr.36	Typical
11	M11	N13	N15		270	Grating Support	None	None	A36 Gr.36	Typical
12	M12	N15	N12		270	Grating Support	None	None	A36 Gr.36	Typical
13	M13	N12	N6		180	Grating Corner Support	None	None	A36 Gr.36	Typical
14	M14	N13	N5		180	Grating Corner Support	None	None	A36 Gr.36	Typical
15	M15	N15	N7		180	Grating Corner Support	None	None	A36 Gr.36	Typical
16	M16	N23	N24		270	Support Rail	None	None	A53 Gr.B	Typical
17	M17	N27	N28		270	Support Rail	None	None	A53 Gr.B	Typical
18	M18	N25	N26		270	Support Rail	None	None	A53 Gr.B	Typical
19	M19	N102	N105		180	Support Rail Corner	None	None	A36 Gr.36	Typical
20	M20	N106	N103		180	Support Rail Corner	None	None	A36 Gr.36	Typical
21	M21	N104	N101		180	Support Rail Corner	None	None	A36 Gr.36	Typical
22	M22	N114	N117			Kicker	None	None	A36 Gr.36	Typical
23	M23	N115	N116			Kicker	None	None	A36 Gr.36	Typical
24	M24	N113	N118			Kicker	None	None	A36 Gr.36	Typical
25	M25	N126	N124			V-Brace	None	None	A36 Gr.36	Typical
26	M26	N125	N124		270	V-Brace	None	None	A36 Gr.36	Typical
27	M27	N134	N132			V-Brace	None	None	A36 Gr.36	Typical
28	M28	N133	N132		270	V-Brace	None	None	A36 Gr.36	Typical
29	M29	N141	N140		270	V-Brace	None	None	A36 Gr.36	Typical
30	M30	N142	N140			V-Brace	None	None	A36 Gr.36	Typical
31	M31	N122	N121			Antenna Pipe	None	None	A53 Gr.B	Typical
32	M32	N130	N129			Antenna Pipe	None	None	A53 Gr.B	Typical
33	M33	N138	N137			Antenna Pipe	None	None	A53 Gr.B	Typical
34	MP1A	N45	N47			Antenna Pipe	None	None	A53 Gr.B	Typical
35	MP2A	N49	N51			Antenna Pipe	None	None	A53 Gr.B	Typical
36	MP3A	N50	N52			Antenna Pipe	None	None	A53 Gr.B	Typical
37	MP4A	N46	N48			Antenna Pipe	None	None	A53 Gr.B	Typical
38	MP1B	N93	N95			Antenna Pipe	None	None	A53 Gr.B	Typical
39	MP2B	N97	N99			Antenna Pipe	None	None	A53 Gr.B	Typical
40	MP3B	N98	N100			Antenna Pipe	None	None	A53 Gr.B	Typical
41	MP4B	N94	N96			Antenna Pipe	None	None	A53 Gr.B	Typical
42	MP1C	N69	N71			Antenna Pipe	None	None	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K J...	Rot...	Section/Shape	Type	Design List	Material	Design Rules
43	MP2C	N73	N75			Antenna Pipe	None	None	A53 Gr.B	Typical
44	MP3C	N74	N76			Antenna Pipe	None	None	A53 Gr.B	Typical
45	MP4C	N70	N72			Antenna Pipe	None	None	A53 Gr.B	Typical
46	M46	N29	N37			RIGID	None	None	RIGID	Typical
47	M47	N33	N41			RIGID	None	None	RIGID	Typical
48	M48	N30	N38			RIGID	None	None	RIGID	Typical
49	M49	N34	N42			RIGID	None	None	RIGID	Typical
50	M50	N31	N39			RIGID	None	None	RIGID	Typical
51	M51	N35	N43			RIGID	None	None	RIGID	Typical
52	M52	N32	N40			RIGID	None	None	RIGID	Typical
53	M53	N36	N44			RIGID	None	None	RIGID	Typical
54	M54	N53	N61			RIGID	None	None	RIGID	Typical
55	M55	N57	N65			RIGID	None	None	RIGID	Typical
56	M56	N54	N62			RIGID	None	None	RIGID	Typical
57	M57	N58	N66			RIGID	None	None	RIGID	Typical
58	M58	N8	N17			RIGID	None	None	RIGID	Typical
59	M59	N55	N63			RIGID	None	None	RIGID	Typical
60	M60	N59	N67			RIGID	None	None	RIGID	Typical
61	M61	N20	N11			RIGID	None	None	RIGID	Typical
62	M62	N9	N18			RIGID	None	None	RIGID	Typical
63	M63	N56	N64			RIGID	None	None	RIGID	Typical
64	M64	N22	N16			RIGID	None	None	RIGID	Typical
65	M65	N60	N68			RIGID	None	None	RIGID	Typical
66	M66	N10	N19			RIGID	None	None	RIGID	Typical
67	M67	N21	N14			RIGID	None	None	RIGID	Typical
68	M68	N77	N85			RIGID	None	None	RIGID	Typical
69	M69	N81	N89			RIGID	None	None	RIGID	Typical
70	M70	N78	N86			RIGID	None	None	RIGID	Typical
71	M71	N82	N90			RIGID	None	None	RIGID	Typical
72	M72	N79	N87			RIGID	None	None	RIGID	Typical
73	M73	N83	N91			RIGID	None	None	RIGID	Typical
74	M74	N80	N88			RIGID	None	None	RIGID	Typical
75	M75	N84	N92			RIGID	None	None	RIGID	Typical
76	M76	N33	N101			RIGID	None	None	RIGID	Typical
77	M77	N36	N102			RIGID	None	None	RIGID	Typical
78	M78	N57	N103			RIGID	None	None	RIGID	Typical
79	M79	N60	N104			RIGID	None	None	RIGID	Typical
80	M80	N81	N105			RIGID	None	None	RIGID	Typical
81	M81	N84	N106			RIGID	None	None	RIGID	Typical
82	M82	N111	N114			RIGID	None	None	RIGID	Typical
83	M83	N110	N113			RIGID	None	None	RIGID	Typical
84	M84	N112	N115			RIGID	None	None	RIGID	Typical
85	M85	N119	N120			RIGID	None	None	RIGID	Typical
86	M86	N123	N124			RIGID	None	None	RIGID	Typical
87	M87	N127	N128			RIGID	None	None	RIGID	Typical
88	M88	N131	N132			RIGID	None	None	RIGID	Typical
89	M89	N135	N136			RIGID	None	None	RIGID	Typical
90	M90	N139	N140			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M7						Yes	** NA **			None
8	M8						Yes	** NA **			None
9	M9						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
10	M10						Yes	** NA **			None
11	M11						Yes	** NA **			None
12	M12						Yes	** NA **			None
13	M13						Yes	** NA **			None
14	M14						Yes	** NA **			None
15	M15						Yes	** NA **			None
16	M16						Yes	** NA **			None
17	M17						Yes	** NA **			None
18	M18						Yes	** NA **			None
19	M19						Yes	** NA **			None
20	M20						Yes	** NA **			None
21	M21						Yes	** NA **			None
22	M22						Yes	** NA **			None
23	M23						Yes	** NA **			None
24	M24						Yes	** NA **			None
25	M25	BenPIN	BenPIN				Yes	** NA **			None
26	M26	BenPIN	BenPIN				Yes	** NA **			None
27	M27	BenPIN	BenPIN				Yes	** NA **			None
28	M28	BenPIN	BenPIN				Yes	** NA **			None
29	M29	BenPIN	BenPIN				Yes	** NA **			None
30	M30	BenPIN	BenPIN				Yes	** NA **			None
31	M31						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	M33						Yes	** NA **			None
34	MP1A						Yes	** NA **			None
35	MP2A						Yes	** NA **			None
36	MP3A						Yes	** NA **			None
37	MP4A						Yes	** NA **			None
38	MP1B						Yes	** NA **			None
39	MP2B						Yes	** NA **			None
40	MP3B						Yes	** NA **			None
41	MP4B						Yes	** NA **			None
42	MP1C						Yes	** NA **			None
43	MP2C						Yes	** NA **			None
44	MP3C						Yes	** NA **			None
45	MP4C						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	M47						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None
65	M65						Yes	** NA **			None
66	M66						Yes	** NA **			None
67	M67						Yes	** NA **			None
68	M68						Yes	** NA **			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	M76	OOOOOX					Yes	** NA **			None
77	M77	OOOOOX					Yes	** NA **			None
78	M78	OOOOOX					Yes	** NA **			None
79	M79	OOOOOX					Yes	** NA **			None
80	M80	OOOOOX					Yes	** NA **			None
81	M81	OOOOOX					Yes	** NA **			None
82	M82						Yes	** NA **			None
83	M83						Yes	** NA **			None
84	M84						Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86						Yes	** NA **			None
87	M87						Yes	** NA **			None
88	M88						Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-13.5	.5
2	MP1A	My	-.007	.5
3	MP1A	Mz	-.001	.5
4	MP1A	Y	-13.5	5.5
5	MP1A	My	-.007	5.5
6	MP1A	Mz	-.001	5.5
7	MP1B	Y	-13.5	.5
8	MP1B	My	.003	.5
9	MP1B	Mz	-.006	.5
10	MP1B	Y	-13.5	5.5
11	MP1B	My	.003	5.5
12	MP1B	Mz	-.006	5.5
13	MP1C	Y	-13.5	.5
14	MP1C	My	-.001	.5
15	MP1C	Mz	.007	.5
16	MP1C	Y	-13.5	5.5
17	MP1C	My	-.001	5.5
18	MP1C	Mz	.007	5.5
19	MP4A	Y	-13.5	.5
20	MP4A	My	-.007	.5
21	MP4A	Mz	-.001	.5
22	MP4A	Y	-13.5	5.5
23	MP4A	My	-.007	5.5
24	MP4A	Mz	-.001	5.5
25	MP4B	Y	-13.5	.5
26	MP4B	My	.003	.5
27	MP4B	Mz	-.006	.5
28	MP4B	Y	-13.5	5.5
29	MP4B	My	.003	5.5
30	MP4B	Mz	-.006	5.5
31	MP4C	Y	-13.5	.5
32	MP4C	My	-.001	.5
33	MP4C	Mz	.007	.5
34	MP4C	Y	-13.5	5.5
35	MP4C	My	-.001	5.5
36	MP4C	Mz	.007	5.5
37	MP2A	Y	-31.65	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	My	-.022	.5
39	MP2A	Mz	-.013	.5
40	MP2A	Y	-31.65	5.5
41	MP2A	My	-.022	5.5
42	MP2A	Mz	-.013	5.5
43	MP2B	Y	-31.65	.5
44	MP2B	My	-.022	.5
45	MP2B	Mz	-.013	.5
46	MP2B	Y	-31.65	5.5
47	MP2B	My	-.022	5.5
48	MP2B	Mz	-.013	5.5
49	MP2C	Y	-31.65	.5
50	MP2C	My	-.022	.5
51	MP2C	Mz	-.013	.5
52	MP2C	Y	-31.65	5.5
53	MP2C	My	-.022	5.5
54	MP2C	Mz	-.013	5.5
55	MP2A	Y	-31.65	.5
56	MP2A	My	-.008	.5
57	MP2A	Mz	.024	.5
58	MP2A	Y	-31.65	5.5
59	MP2A	My	-.008	5.5
60	MP2A	Mz	.024	5.5
61	MP2B	Y	-31.65	.5
62	MP2B	My	-.008	.5
63	MP2B	Mz	.024	.5
64	MP2B	Y	-31.65	5.5
65	MP2B	My	-.008	5.5
66	MP2B	Mz	.024	5.5
67	MP2C	Y	-31.65	.5
68	MP2C	My	-.008	.5
69	MP2C	Mz	.024	.5
70	MP2C	Y	-31.65	5.5
71	MP2C	My	-.008	5.5
72	MP2C	Mz	.024	5.5
73	MP3A	Y	-43.55	2
74	MP3A	My	-.021	2
75	MP3A	Mz	-.004	2
76	MP3A	Y	-43.55	4
77	MP3A	My	-.021	4
78	MP3A	Mz	-.004	4
79	MP3B	Y	-43.55	2
80	MP3B	My	.011	2
81	MP3B	Mz	-.019	2
82	MP3B	Y	-43.55	4
83	MP3B	My	.011	4
84	MP3B	Mz	-.019	4
85	MP3C	Y	-43.55	2
86	MP3C	My	.011	2
87	MP3C	Mz	.019	2
88	MP3C	Y	-43.55	4
89	MP3C	My	.011	4
90	MP3C	Mz	.019	4
91	MP1A	Y	-84.4	2
92	MP1A	My	-.04	2
93	MP1A	Mz	.014	2
94	MP1B	Y	-84.4	2
95	MP1B	My	-.04	2
96	MP1B	Mz	.014	2
97	MP1C	Y	-84.4	2
98	MP1C	My	-.04	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
99	MP1C	Mz	.014	2
100	MP2A	Y	-70.3	2
101	MP2A	My	-.033	2
102	MP2A	Mz	.012	2
103	MP2B	Y	-70.3	2
104	MP2B	My	-.033	2
105	MP2B	Mz	.012	2
106	MP2C	Y	-70.3	2
107	MP2C	My	-.033	2
108	MP2C	Mz	.012	2
109	MP2A	Y	-10.4	4
110	MP2A	My	0	4
111	MP2A	Mz	0	4
112	MP2B	Y	-10.4	4
113	MP2B	My	0	4
114	MP2B	Mz	0	4
115	MP2C	Y	-10.4	4
116	MP2C	My	0	4
117	MP2C	Mz	0	4
118	M31	Y	-32	1
119	M31	My	0	1
120	M31	Mz	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-90.832	.5
2	MP1A	My	-.045	.5
3	MP1A	Mz	-.008	.5
4	MP1A	Y	-90.832	5.5
5	MP1A	My	-.045	5.5
6	MP1A	Mz	-.008	5.5
7	MP1B	Y	-90.832	.5
8	MP1B	My	.023	.5
9	MP1B	Mz	-.039	.5
10	MP1B	Y	-90.832	5.5
11	MP1B	My	.023	5.5
12	MP1B	Mz	-.039	5.5
13	MP1C	Y	-90.832	.5
14	MP1C	My	-.008	.5
15	MP1C	Mz	.045	.5
16	MP1C	Y	-90.832	5.5
17	MP1C	My	-.008	5.5
18	MP1C	Mz	.045	5.5
19	MP4A	Y	-90.832	.5
20	MP4A	My	-.045	.5
21	MP4A	Mz	-.008	.5
22	MP4A	Y	-90.832	5.5
23	MP4A	My	-.045	5.5
24	MP4A	Mz	-.008	5.5
25	MP4B	Y	-90.832	.5
26	MP4B	My	.023	.5
27	MP4B	Mz	-.039	.5
28	MP4B	Y	-90.832	5.5
29	MP4B	My	.023	5.5
30	MP4B	Mz	-.039	5.5
31	MP4C	Y	-90.832	.5
32	MP4C	My	-.008	.5
33	MP4C	Mz	.045	.5
34	MP4C	Y	-90.832	5.5
35	MP4C	My	-.008	5.5
36	MP4C	Mz	.045	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2A	Y	-71.676	.5
38	MP2A	My	-.049	.5
39	MP2A	Mz	-.03	.5
40	MP2A	Y	-71.676	5.5
41	MP2A	My	-.049	5.5
42	MP2A	Mz	-.03	5.5
43	MP2B	Y	-71.676	.5
44	MP2B	My	-.049	.5
45	MP2B	Mz	-.03	.5
46	MP2B	Y	-71.676	5.5
47	MP2B	My	-.049	5.5
48	MP2B	Mz	-.03	5.5
49	MP2C	Y	-71.676	.5
50	MP2C	My	-.049	.5
51	MP2C	Mz	-.03	.5
52	MP2C	Y	-71.676	5.5
53	MP2C	My	-.049	5.5
54	MP2C	Mz	-.03	5.5
55	MP2A	Y	-71.676	.5
56	MP2A	My	-.018	.5
57	MP2A	Mz	.054	.5
58	MP2A	Y	-71.676	5.5
59	MP2A	My	-.018	5.5
60	MP2A	Mz	.054	5.5
61	MP2B	Y	-71.676	.5
62	MP2B	My	-.018	.5
63	MP2B	Mz	.054	.5
64	MP2B	Y	-71.676	5.5
65	MP2B	My	-.018	5.5
66	MP2B	Mz	.054	5.5
67	MP2C	Y	-71.676	.5
68	MP2C	My	-.018	.5
69	MP2C	Mz	.054	.5
70	MP2C	Y	-71.676	5.5
71	MP2C	My	-.018	5.5
72	MP2C	Mz	.054	5.5
73	MP3A	Y	-36.51	2
74	MP3A	My	-.018	2
75	MP3A	Mz	-.003	2
76	MP3A	Y	-36.51	4
77	MP3A	My	-.018	4
78	MP3A	Mz	-.003	4
79	MP3B	Y	-36.51	2
80	MP3B	My	.009	2
81	MP3B	Mz	-.016	2
82	MP3B	Y	-36.51	4
83	MP3B	My	.009	4
84	MP3B	Mz	-.016	4
85	MP3C	Y	-36.51	2
86	MP3C	My	.009	2
87	MP3C	Mz	.016	2
88	MP3C	Y	-36.51	4
89	MP3C	My	.009	4
90	MP3C	Mz	.016	4
91	MP1A	Y	-46.047	2
92	MP1A	My	-.022	2
93	MP1A	Mz	.008	2
94	MP1B	Y	-46.047	2
95	MP1B	My	-.022	2
96	MP1B	Mz	.008	2
97	MP1C	Y	-46.047	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP1C	My	-.022	2
99	MP1C	Mz	.008	2
100	MP2A	Y	-41.418	2
101	MP2A	My	-.019	2
102	MP2A	Mz	.007	2
103	MP2B	Y	-41.418	2
104	MP2B	My	-.019	2
105	MP2B	Mz	.007	2
106	MP2C	Y	-41.418	2
107	MP2C	My	-.019	2
108	MP2C	Mz	.007	2
109	MP2A	Y	-11.049	4
110	MP2A	My	0	4
111	MP2A	Mz	0	4
112	MP2B	Y	-11.049	4
113	MP2B	My	0	4
114	MP2B	Mz	0	4
115	MP2C	Y	-11.049	4
116	MP2C	My	0	4
117	MP2C	Mz	0	4
118	M31	Y	-90.088	1
119	M31	My	0	1
120	M31	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	-154.063	.5
3	MP1A	Mx	.013	.5
4	MP1A	X	0	5.5
5	MP1A	Z	-154.063	5.5
6	MP1A	Mx	.013	5.5
7	MP1B	X	0	.5
8	MP1B	Z	-142.181	.5
9	MP1B	Mx	.062	.5
10	MP1B	X	0	5.5
11	MP1B	Z	-142.181	5.5
12	MP1B	Mx	.062	5.5
13	MP1C	X	0	.5
14	MP1C	Z	-138.552	.5
15	MP1C	Mx	-.068	.5
16	MP1C	X	0	5.5
17	MP1C	Z	-138.552	5.5
18	MP1C	Mx	-.068	5.5
19	MP4A	X	0	.5
20	MP4A	Z	-154.063	.5
21	MP4A	Mx	.013	.5
22	MP4A	X	0	5.5
23	MP4A	Z	-154.063	5.5
24	MP4A	Mx	.013	5.5
25	MP4B	X	0	.5
26	MP4B	Z	-142.181	.5
27	MP4B	Mx	.062	.5
28	MP4B	X	0	5.5
29	MP4B	Z	-142.181	5.5
30	MP4B	Mx	.062	5.5
31	MP4C	X	0	.5
32	MP4C	Z	-138.552	.5
33	MP4C	Mx	-.068	.5
34	MP4C	X	0	5.5
35	MP4C	Z	-138.552	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
36	MP4C	Mx	-.068	5.5
37	MP2A	X	0	.5
38	MP2A	Z	-140.783	.5
39	MP2A	Mx	.059	.5
40	MP2A	X	0	5.5
41	MP2A	Z	-140.783	5.5
42	MP2A	Mx	.059	5.5
43	MP2B	X	0	.5
44	MP2B	Z	-140.783	.5
45	MP2B	Mx	.059	.5
46	MP2B	X	0	5.5
47	MP2B	Z	-140.783	5.5
48	MP2B	Mx	.059	5.5
49	MP2C	X	0	.5
50	MP2C	Z	-140.783	.5
51	MP2C	Mx	.059	.5
52	MP2C	X	0	5.5
53	MP2C	Z	-140.783	5.5
54	MP2C	Mx	.059	5.5
55	MP2A	X	0	.5
56	MP2A	Z	-140.783	.5
57	MP2A	Mx	-.107	.5
58	MP2A	X	0	5.5
59	MP2A	Z	-140.783	5.5
60	MP2A	Mx	-.107	5.5
61	MP2B	X	0	.5
62	MP2B	Z	-140.783	.5
63	MP2B	Mx	-.107	.5
64	MP2B	X	0	5.5
65	MP2B	Z	-140.783	5.5
66	MP2B	Mx	-.107	5.5
67	MP2C	X	0	.5
68	MP2C	Z	-140.783	.5
69	MP2C	Mx	-.107	.5
70	MP2C	X	0	5.5
71	MP2C	Z	-140.783	5.5
72	MP2C	Mx	-.107	5.5
73	MP3A	X	0	2
74	MP3A	Z	-74.282	2
75	MP3A	Mx	.006	2
76	MP3A	X	0	4
77	MP3A	Z	-74.282	4
78	MP3A	Mx	.006	4
79	MP3B	X	0	2
80	MP3B	Z	-41.136	2
81	MP3B	Mx	.018	2
82	MP3B	X	0	4
83	MP3B	Z	-41.136	4
84	MP3B	Mx	.018	4
85	MP3C	X	0	2
86	MP3C	Z	-41.136	2
87	MP3C	Mx	-.018	2
88	MP3C	X	0	4
89	MP3C	Z	-41.136	4
90	MP3C	Mx	-.018	4
91	MP1A	X	0	2
92	MP1A	Z	-57.879	2
93	MP1A	Mx	-.01	2
94	MP1B	X	0	2
95	MP1B	Z	-57.879	2
96	MP1B	Mx	-.01	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
97	MP1C	X	0	2
98	MP1C	Z	-57.879	2
99	MP1C	Mx	-.01	2
100	MP2A	X	0	2
101	MP2A	Z	-56.984	2
102	MP2A	Mx	-.01	2
103	MP2B	X	0	2
104	MP2B	Z	-56.984	2
105	MP2B	Mx	-.01	2
106	MP2C	X	0	2
107	MP2C	Z	-56.984	2
108	MP2C	Mx	-.01	2
109	MP2A	X	0	4
110	MP2A	Z	-11.485	4
111	MP2A	Mx	0	4
112	MP2B	X	0	4
113	MP2B	Z	-11.485	4
114	MP2B	Mx	0	4
115	MP2C	X	0	4
116	MP2C	Z	-11.485	4
117	MP2C	Mx	0	4
118	M31	X	0	1
119	M31	Z	-127.107	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	76.315	.5
2	MP1A	Z	-132.181	.5
3	MP1A	Mx	-.026	.5
4	MP1A	X	76.315	5.5
5	MP1A	Z	-132.181	5.5
6	MP1A	Mx	-.026	5.5
7	MP1B	X	69.027	.5
8	MP1B	Z	-119.558	.5
9	MP1B	Mx	.069	.5
10	MP1B	X	69.027	5.5
11	MP1B	Z	-119.558	5.5
12	MP1B	Mx	.069	5.5
13	MP1C	X	69.992	.5
14	MP1C	Z	-121.23	.5
15	MP1C	Mx	-.066	.5
16	MP1C	X	69.992	5.5
17	MP1C	Z	-121.23	5.5
18	MP1C	Mx	-.066	5.5
19	MP4A	X	76.315	.5
20	MP4A	Z	-132.181	.5
21	MP4A	Mx	-.026	.5
22	MP4A	X	76.315	5.5
23	MP4A	Z	-132.181	5.5
24	MP4A	Mx	-.026	5.5
25	MP4B	X	69.027	.5
26	MP4B	Z	-119.558	.5
27	MP4B	Mx	.069	.5
28	MP4B	X	69.027	5.5
29	MP4B	Z	-119.558	5.5
30	MP4B	Mx	.069	5.5
31	MP4C	X	69.992	.5
32	MP4C	Z	-121.23	.5
33	MP4C	Mx	-.066	.5
34	MP4C	X	69.992	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4C	Z	-121.23	5.5
36	MP4C	Mx	-.066	5.5
37	MP2A	X	58.566	.5
38	MP2A	Z	-101.439	.5
39	MP2A	Mx	.002	.5
40	MP2A	X	58.566	5.5
41	MP2A	Z	-101.439	5.5
42	MP2A	Mx	.002	5.5
43	MP2B	X	58.566	.5
44	MP2B	Z	-101.439	.5
45	MP2B	Mx	.002	.5
46	MP2B	X	58.566	5.5
47	MP2B	Z	-101.439	5.5
48	MP2B	Mx	.002	5.5
49	MP2C	X	58.566	.5
50	MP2C	Z	-101.439	.5
51	MP2C	Mx	.002	.5
52	MP2C	X	58.566	5.5
53	MP2C	Z	-101.439	5.5
54	MP2C	Mx	.002	5.5
55	MP2A	X	58.566	.5
56	MP2A	Z	-101.439	.5
57	MP2A	Mx	-.092	.5
58	MP2A	X	58.566	5.5
59	MP2A	Z	-101.439	5.5
60	MP2A	Mx	-.092	5.5
61	MP2B	X	58.566	.5
62	MP2B	Z	-101.439	.5
63	MP2B	Mx	-.092	.5
64	MP2B	X	58.566	5.5
65	MP2B	Z	-101.439	5.5
66	MP2B	Mx	-.092	5.5
67	MP2C	X	58.566	.5
68	MP2C	Z	-101.439	.5
69	MP2C	Mx	-.092	.5
70	MP2C	X	58.566	5.5
71	MP2C	Z	-101.439	5.5
72	MP2C	Mx	-.092	5.5
73	MP3A	X	35.142	2
74	MP3A	Z	-60.868	2
75	MP3A	Mx	-.012	2
76	MP3A	X	35.142	4
77	MP3A	Z	-60.868	4
78	MP3A	Mx	-.012	4
79	MP3B	X	14.812	2
80	MP3B	Z	-25.656	2
81	MP3B	Mx	.015	2
82	MP3B	X	14.812	4
83	MP3B	Z	-25.656	4
84	MP3B	Mx	.015	4
85	MP3C	X	32.079	2
86	MP3C	Z	-55.563	2
87	MP3C	Mx	-.016	2
88	MP3C	X	32.079	4
89	MP3C	Z	-55.563	4
90	MP3C	Mx	-.016	4
91	MP1A	X	24.249	2
92	MP1A	Z	-42.001	2
93	MP1A	Mx	-.019	2
94	MP1B	X	24.249	2
95	MP1B	Z	-42.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
96	MP1B	Mx	-0.19	2
97	MP1C	X	24.249	2
98	MP1C	Z	-42.001	2
99	MP1C	Mx	-0.19	2
100	MP2A	X	22.006	2
101	MP2A	Z	-38.115	2
102	MP2A	Mx	-0.17	2
103	MP2B	X	22.006	2
104	MP2B	Z	-38.115	2
105	MP2B	Mx	-0.17	2
106	MP2C	X	22.006	2
107	MP2C	Z	-38.115	2
108	MP2C	Mx	-0.17	2
109	MP2A	X	4.88	4
110	MP2A	Z	-8.452	4
111	MP2A	Mx	0	4
112	MP2B	X	4.88	4
113	MP2B	Z	-8.452	4
114	MP2B	Mx	0	4
115	MP2C	X	4.88	4
116	MP2C	Z	-8.452	4
117	MP2C	Mx	0	4
118	M31	X	56.273	1
119	M31	Z	-97.467	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	125.465	.5
2	MP1A	Z	-72.437	.5
3	MP1A	Mx	-0.55	.5
4	MP1A	X	125.465	5.5
5	MP1A	Z	-72.437	5.5
6	MP1A	Mx	-0.55	5.5
7	MP1B	X	123.132	.5
8	MP1B	Z	-71.09	.5
9	MP1B	Mx	.062	.5
10	MP1B	X	123.132	5.5
11	MP1B	Z	-71.09	5.5
12	MP1B	Mx	.062	5.5
13	MP1C	X	127.947	.5
14	MP1C	Z	-73.87	.5
15	MP1C	Mx	-0.47	.5
16	MP1C	X	127.947	5.5
17	MP1C	Z	-73.87	5.5
18	MP1C	Mx	-0.47	5.5
19	MP4A	X	125.465	.5
20	MP4A	Z	-72.437	.5
21	MP4A	Mx	-0.55	.5
22	MP4A	X	125.465	5.5
23	MP4A	Z	-72.437	5.5
24	MP4A	Mx	-0.55	5.5
25	MP4B	X	123.132	.5
26	MP4B	Z	-71.09	.5
27	MP4B	Mx	.062	.5
28	MP4B	X	123.132	5.5
29	MP4B	Z	-71.09	5.5
30	MP4B	Mx	.062	5.5
31	MP4C	X	127.947	.5
32	MP4C	Z	-73.87	.5
33	MP4C	Mx	-0.47	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP4C	X	127.947	5.5
35	MP4C	Z	-73.87	5.5
36	MP4C	Mx	-.047	5.5
37	MP2A	X	84.741	.5
38	MP2A	Z	-48.925	.5
39	MP2A	Mx	-.038	.5
40	MP2A	X	84.741	5.5
41	MP2A	Z	-48.925	5.5
42	MP2A	Mx	-.038	5.5
43	MP2B	X	84.741	.5
44	MP2B	Z	-48.925	.5
45	MP2B	Mx	-.038	.5
46	MP2B	X	84.741	5.5
47	MP2B	Z	-48.925	5.5
48	MP2B	Mx	-.038	5.5
49	MP2C	X	84.741	.5
50	MP2C	Z	-48.925	.5
51	MP2C	Mx	-.038	.5
52	MP2C	X	84.741	5.5
53	MP2C	Z	-48.925	5.5
54	MP2C	Mx	-.038	5.5
55	MP2A	X	84.741	.5
56	MP2A	Z	-48.925	.5
57	MP2A	Mx	-.059	.5
58	MP2A	X	84.741	5.5
59	MP2A	Z	-48.925	5.5
60	MP2A	Mx	-.059	5.5
61	MP2B	X	84.741	.5
62	MP2B	Z	-48.925	.5
63	MP2B	Mx	-.059	.5
64	MP2B	X	84.741	5.5
65	MP2B	Z	-48.925	5.5
66	MP2B	Mx	-.059	5.5
67	MP2C	X	84.741	.5
68	MP2C	Z	-48.925	.5
69	MP2C	Mx	-.059	.5
70	MP2C	X	84.741	5.5
71	MP2C	Z	-48.925	5.5
72	MP2C	Mx	-.059	5.5
73	MP3A	X	42.132	2
74	MP3A	Z	-24.325	2
75	MP3A	Mx	-.019	2
76	MP3A	X	42.132	4
77	MP3A	Z	-24.325	4
78	MP3A	Mx	-.019	4
79	MP3B	X	35.625	2
80	MP3B	Z	-20.568	2
81	MP3B	Mx	.018	2
82	MP3B	X	35.625	4
83	MP3B	Z	-20.568	4
84	MP3B	Mx	.018	4
85	MP3C	X	65.532	2
86	MP3C	Z	-37.835	2
87	MP3C	Mx	0	2
88	MP3C	X	65.532	4
89	MP3C	Z	-37.835	4
90	MP3C	Mx	0	4
91	MP1A	X	35.379	2
92	MP1A	Z	-20.426	2
93	MP1A	Mx	-.02	2
94	MP1B	X	35.379	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	MP1B	Z	-20.426	2
96	MP1B	Mx	-.02	2
97	MP1C	X	35.379	2
98	MP1C	Z	-20.426	2
99	MP1C	Mx	-.02	2
100	MP2A	X	28.956	2
101	MP2A	Z	-16.718	2
102	MP2A	Mx	-.016	2
103	MP2B	X	28.956	2
104	MP2B	Z	-16.718	2
105	MP2B	Mx	-.016	2
106	MP2C	X	28.956	2
107	MP2C	Z	-16.718	2
108	MP2C	Mx	-.016	2
109	MP2A	X	7.235	4
110	MP2A	Z	-4.177	4
111	MP2A	Mx	0	4
112	MP2B	X	7.235	4
113	MP2B	Z	-4.177	4
114	MP2B	Mx	0	4
115	MP2C	X	7.235	4
116	MP2C	Z	-4.177	4
117	MP2C	Mx	0	4
118	M31	X	87.187	1
119	M31	Z	-50.337	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	138.552	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	-.068	.5
4	MP1A	X	138.552	5.5
5	MP1A	Z	0	5.5
6	MP1A	Mx	-.068	5.5
7	MP1B	X	150.434	.5
8	MP1B	Z	0	.5
9	MP1B	Mx	.038	.5
10	MP1B	X	150.434	5.5
11	MP1B	Z	0	5.5
12	MP1B	Mx	.038	5.5
13	MP1C	X	154.063	.5
14	MP1C	Z	0	.5
15	MP1C	Mx	-.013	.5
16	MP1C	X	154.063	5.5
17	MP1C	Z	0	5.5
18	MP1C	Mx	-.013	5.5
19	MP4A	X	138.552	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	-.068	.5
22	MP4A	X	138.552	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	-.068	5.5
25	MP4B	X	150.434	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	.038	.5
28	MP4B	X	150.434	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	.038	5.5
31	MP4C	X	154.063	.5
32	MP4C	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP4C	Mx	-.013	.5
34	MP4C	X	154.063	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	-.013	5.5
37	MP2A	X	102.221	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	-.07	.5
40	MP2A	X	102.221	5.5
41	MP2A	Z	0	5.5
42	MP2A	Mx	-.07	5.5
43	MP2B	X	102.221	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	-.07	.5
46	MP2B	X	102.221	5.5
47	MP2B	Z	0	5.5
48	MP2B	Mx	-.07	5.5
49	MP2C	X	102.221	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.07	.5
52	MP2C	X	102.221	5.5
53	MP2C	Z	0	5.5
54	MP2C	Mx	-.07	5.5
55	MP2A	X	102.221	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.026	.5
58	MP2A	X	102.221	5.5
59	MP2A	Z	0	5.5
60	MP2A	Mx	-.026	5.5
61	MP2B	X	102.221	.5
62	MP2B	Z	0	.5
63	MP2B	Mx	-.026	.5
64	MP2B	X	102.221	5.5
65	MP2B	Z	0	5.5
66	MP2B	Mx	-.026	5.5
67	MP2C	X	102.221	.5
68	MP2C	Z	0	.5
69	MP2C	Mx	-.026	.5
70	MP2C	X	102.221	5.5
71	MP2C	Z	0	5.5
72	MP2C	Mx	-.026	5.5
73	MP3A	X	31.013	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.015	2
76	MP3A	X	31.013	4
77	MP3A	Z	0	4
78	MP3A	Mx	-.015	4
79	MP3B	X	64.159	2
80	MP3B	Z	0	2
81	MP3B	Mx	.016	2
82	MP3B	X	64.159	4
83	MP3B	Z	0	4
84	MP3B	Mx	.016	4
85	MP3C	X	64.159	2
86	MP3C	Z	0	2
87	MP3C	Mx	.016	2
88	MP3C	X	64.159	4
89	MP3C	Z	0	4
90	MP3C	Mx	.016	4
91	MP1A	X	42.586	2
92	MP1A	Z	0	2
93	MP1A	Mx	-.02	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	MP1B	X	42.586	2
95	MP1B	Z	0	2
96	MP1B	Mx	-.02	2
97	MP1C	X	42.586	2
98	MP1C	Z	0	2
99	MP1C	Mx	-.02	2
100	MP2A	X	35.833	2
101	MP2A	Z	0	2
102	MP2A	Mx	-.017	2
103	MP2B	X	35.833	2
104	MP2B	Z	0	2
105	MP2B	Mx	-.017	2
106	MP2C	X	35.833	2
107	MP2C	Z	0	2
108	MP2C	Mx	-.017	2
109	MP2A	X	8.673	4
110	MP2A	Z	0	4
111	MP2A	Mx	0	4
112	MP2B	X	8.673	4
113	MP2B	Z	0	4
114	MP2B	Mx	0	4
115	MP2C	X	8.673	4
116	MP2C	Z	0	4
117	MP2C	Mx	0	4
118	M31	X	103.365	1
119	M31	Z	0	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	121.23	.5
2	MP1A	Z	69.992	.5
3	MP1A	Mx	-.066	.5
4	MP1A	X	121.23	5.5
5	MP1A	Z	69.992	5.5
6	MP1A	Mx	-.066	5.5
7	MP1B	X	133.853	.5
8	MP1B	Z	77.28	.5
9	MP1B	Mx	0	.5
10	MP1B	X	133.853	5.5
11	MP1B	Z	77.28	5.5
12	MP1B	Mx	0	5.5
13	MP1C	X	132.181	.5
14	MP1C	Z	76.315	.5
15	MP1C	Mx	.026	.5
16	MP1C	X	132.181	5.5
17	MP1C	Z	76.315	5.5
18	MP1C	Mx	.026	5.5
19	MP4A	X	121.23	.5
20	MP4A	Z	69.992	.5
21	MP4A	Mx	-.066	.5
22	MP4A	X	121.23	5.5
23	MP4A	Z	69.992	5.5
24	MP4A	Mx	-.066	5.5
25	MP4B	X	133.853	.5
26	MP4B	Z	77.28	.5
27	MP4B	Mx	0	.5
28	MP4B	X	133.853	5.5
29	MP4B	Z	77.28	5.5
30	MP4B	Mx	0	5.5
31	MP4C	X	132.181	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP4C	Z	76.315	.5
33	MP4C	Mx	.026	.5
34	MP4C	X	132.181	5.5
35	MP4C	Z	76.315	5.5
36	MP4C	Mx	.026	5.5
37	MP2A	X	109.009	.5
38	MP2A	Z	62.936	.5
39	MP2A	Mx	-.101	.5
40	MP2A	X	109.009	5.5
41	MP2A	Z	62.936	5.5
42	MP2A	Mx	-.101	5.5
43	MP2B	X	109.009	.5
44	MP2B	Z	62.936	.5
45	MP2B	Mx	-.101	.5
46	MP2B	X	109.009	5.5
47	MP2B	Z	62.936	5.5
48	MP2B	Mx	-.101	5.5
49	MP2C	X	109.009	.5
50	MP2C	Z	62.936	.5
51	MP2C	Mx	-.101	.5
52	MP2C	X	109.009	5.5
53	MP2C	Z	62.936	5.5
54	MP2C	Mx	-.101	5.5
55	MP2A	X	109.009	.5
56	MP2A	Z	62.936	.5
57	MP2A	Mx	.02	.5
58	MP2A	X	109.009	5.5
59	MP2A	Z	62.936	5.5
60	MP2A	Mx	.02	5.5
61	MP2B	X	109.009	.5
62	MP2B	Z	62.936	.5
63	MP2B	Mx	.02	.5
64	MP2B	X	109.009	5.5
65	MP2B	Z	62.936	5.5
66	MP2B	Mx	.02	5.5
67	MP2C	X	109.009	.5
68	MP2C	Z	62.936	.5
69	MP2C	Mx	.02	.5
70	MP2C	X	109.009	5.5
71	MP2C	Z	62.936	5.5
72	MP2C	Mx	.02	5.5
73	MP3A	X	30.321	2
74	MP3A	Z	17.506	2
75	MP3A	Mx	-.016	2
76	MP3A	X	30.321	4
77	MP3A	Z	17.506	4
78	MP3A	Mx	-.016	4
79	MP3B	X	65.532	2
80	MP3B	Z	37.835	2
81	MP3B	Mx	0	2
82	MP3B	X	65.532	4
83	MP3B	Z	37.835	4
84	MP3B	Mx	0	4
85	MP3C	X	35.625	2
86	MP3C	Z	20.568	2
87	MP3C	Mx	.018	2
88	MP3C	X	35.625	4
89	MP3C	Z	20.568	4
90	MP3C	Mx	.018	4
91	MP1A	X	45.004	2
92	MP1A	Z	25.983	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP1A	Mx	-.017	2
94	MP1B	X	45.004	2
95	MP1B	Z	25.983	2
96	MP1B	Mx	-.017	2
97	MP1C	X	45.004	2
98	MP1C	Z	25.983	2
99	MP1C	Mx	-.017	2
100	MP2A	X	42.267	2
101	MP2A	Z	24.403	2
102	MP2A	Mx	-.016	2
103	MP2B	X	42.267	2
104	MP2B	Z	24.403	2
105	MP2B	Mx	-.016	2
106	MP2C	X	42.267	2
107	MP2C	Z	24.403	2
108	MP2C	Mx	-.016	2
109	MP2A	X	9.004	4
110	MP2A	Z	5.199	4
111	MP2A	Mx	0	4
112	MP2B	X	9.004	4
113	MP2B	Z	5.199	4
114	MP2B	Mx	0	4
115	MP2C	X	9.004	4
116	MP2C	Z	5.199	4
117	MP2C	Mx	0	4
118	M31	X	102.128	1
119	M31	Z	58.964	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	73.87	.5
2	MP1A	Z	127.947	.5
3	MP1A	Mx	-.047	.5
4	MP1A	X	73.87	5.5
5	MP1A	Z	127.947	5.5
6	MP1A	Mx	-.047	5.5
7	MP1B	X	75.217	.5
8	MP1B	Z	130.28	.5
9	MP1B	Mx	-.038	.5
10	MP1B	X	75.217	5.5
11	MP1B	Z	130.28	5.5
12	MP1B	Mx	-.038	5.5
13	MP1C	X	72.437	.5
14	MP1C	Z	125.465	.5
15	MP1C	Mx	.055	.5
16	MP1C	X	72.437	5.5
17	MP1C	Z	125.465	5.5
18	MP1C	Mx	.055	5.5
19	MP4A	X	73.87	.5
20	MP4A	Z	127.947	.5
21	MP4A	Mx	-.047	.5
22	MP4A	X	73.87	5.5
23	MP4A	Z	127.947	5.5
24	MP4A	Mx	-.047	5.5
25	MP4B	X	75.217	.5
26	MP4B	Z	130.28	.5
27	MP4B	Mx	-.038	.5
28	MP4B	X	75.217	5.5
29	MP4B	Z	130.28	5.5
30	MP4B	Mx	-.038	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP4C	X	72.437	.5
32	MP4C	Z	125.465	.5
33	MP4C	Mx	.055	.5
34	MP4C	X	72.437	5.5
35	MP4C	Z	125.465	5.5
36	MP4C	Mx	.055	5.5
37	MP2A	X	72.577	.5
38	MP2A	Z	125.707	.5
39	MP2A	Mx	-.102	.5
40	MP2A	X	72.577	5.5
41	MP2A	Z	125.707	5.5
42	MP2A	Mx	-.102	5.5
43	MP2B	X	72.577	.5
44	MP2B	Z	125.707	.5
45	MP2B	Mx	-.102	.5
46	MP2B	X	72.577	5.5
47	MP2B	Z	125.707	5.5
48	MP2B	Mx	-.102	5.5
49	MP2C	X	72.577	.5
50	MP2C	Z	125.707	.5
51	MP2C	Mx	-.102	.5
52	MP2C	X	72.577	5.5
53	MP2C	Z	125.707	5.5
54	MP2C	Mx	-.102	5.5
55	MP2A	X	72.577	.5
56	MP2A	Z	125.707	.5
57	MP2A	Mx	.077	.5
58	MP2A	X	72.577	5.5
59	MP2A	Z	125.707	5.5
60	MP2A	Mx	.077	5.5
61	MP2B	X	72.577	.5
62	MP2B	Z	125.707	.5
63	MP2B	Mx	.077	.5
64	MP2B	X	72.577	5.5
65	MP2B	Z	125.707	5.5
66	MP2B	Mx	.077	5.5
67	MP2C	X	72.577	.5
68	MP2C	Z	125.707	.5
69	MP2C	Mx	.077	.5
70	MP2C	X	72.577	5.5
71	MP2C	Z	125.707	5.5
72	MP2C	Mx	.077	5.5
73	MP3A	X	28.323	2
74	MP3A	Z	49.056	2
75	MP3A	Mx	-.018	2
76	MP3A	X	28.323	4
77	MP3A	Z	49.056	4
78	MP3A	Mx	-.018	4
79	MP3B	X	32.079	2
80	MP3B	Z	55.563	2
81	MP3B	Mx	-.016	2
82	MP3B	X	32.079	4
83	MP3B	Z	55.563	4
84	MP3B	Mx	-.016	4
85	MP3C	X	14.812	2
86	MP3C	Z	25.656	2
87	MP3C	Mx	.015	2
88	MP3C	X	14.812	4
89	MP3C	Z	25.656	4
90	MP3C	Mx	.015	4
91	MP1A	X	29.806	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
92	MP1A	Z	51.626	2
93	MP1A	Mx	-.005	2
94	MP1B	X	29.806	2
95	MP1B	Z	51.626	2
96	MP1B	Mx	-.005	2
97	MP1C	X	29.806	2
98	MP1C	Z	51.626	2
99	MP1C	Mx	-.005	2
100	MP2A	X	29.691	2
101	MP2A	Z	51.426	2
102	MP2A	Mx	-.005	2
103	MP2B	X	29.691	2
104	MP2B	Z	51.426	2
105	MP2B	Mx	-.005	2
106	MP2C	X	29.691	2
107	MP2C	Z	51.426	2
108	MP2C	Mx	-.005	2
109	MP2A	X	5.902	4
110	MP2A	Z	10.222	4
111	MP2A	Mx	0	4
112	MP2B	X	5.902	4
113	MP2B	Z	10.222	4
114	MP2B	Mx	0	4
115	MP2C	X	5.902	4
116	MP2C	Z	10.222	4
117	MP2C	Mx	0	4
118	M31	X	64.899	1
119	M31	Z	112.408	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	154.063	.5
3	MP1A	Mx	-.013	.5
4	MP1A	X	0	5.5
5	MP1A	Z	154.063	5.5
6	MP1A	Mx	-.013	5.5
7	MP1B	X	0	.5
8	MP1B	Z	142.181	.5
9	MP1B	Mx	-.062	.5
10	MP1B	X	0	5.5
11	MP1B	Z	142.181	5.5
12	MP1B	Mx	-.062	5.5
13	MP1C	X	0	.5
14	MP1C	Z	138.552	.5
15	MP1C	Mx	.068	.5
16	MP1C	X	0	5.5
17	MP1C	Z	138.552	5.5
18	MP1C	Mx	.068	5.5
19	MP4A	X	0	.5
20	MP4A	Z	154.063	.5
21	MP4A	Mx	-.013	.5
22	MP4A	X	0	5.5
23	MP4A	Z	154.063	5.5
24	MP4A	Mx	-.013	5.5
25	MP4B	X	0	.5
26	MP4B	Z	142.181	.5
27	MP4B	Mx	-.062	.5
28	MP4B	X	0	5.5
29	MP4B	Z	142.181	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP4B	Mx	-.062	5.5
31	MP4C	X	0	.5
32	MP4C	Z	138.552	.5
33	MP4C	Mx	.068	.5
34	MP4C	X	0	5.5
35	MP4C	Z	138.552	5.5
36	MP4C	Mx	.068	5.5
37	MP2A	X	0	.5
38	MP2A	Z	140.783	.5
39	MP2A	Mx	-.059	.5
40	MP2A	X	0	5.5
41	MP2A	Z	140.783	5.5
42	MP2A	Mx	-.059	5.5
43	MP2B	X	0	.5
44	MP2B	Z	140.783	.5
45	MP2B	Mx	-.059	.5
46	MP2B	X	0	5.5
47	MP2B	Z	140.783	5.5
48	MP2B	Mx	-.059	5.5
49	MP2C	X	0	.5
50	MP2C	Z	140.783	.5
51	MP2C	Mx	-.059	.5
52	MP2C	X	0	5.5
53	MP2C	Z	140.783	5.5
54	MP2C	Mx	-.059	5.5
55	MP2A	X	0	.5
56	MP2A	Z	140.783	.5
57	MP2A	Mx	.107	.5
58	MP2A	X	0	5.5
59	MP2A	Z	140.783	5.5
60	MP2A	Mx	.107	5.5
61	MP2B	X	0	.5
62	MP2B	Z	140.783	.5
63	MP2B	Mx	.107	.5
64	MP2B	X	0	5.5
65	MP2B	Z	140.783	5.5
66	MP2B	Mx	.107	5.5
67	MP2C	X	0	.5
68	MP2C	Z	140.783	.5
69	MP2C	Mx	.107	.5
70	MP2C	X	0	5.5
71	MP2C	Z	140.783	5.5
72	MP2C	Mx	.107	5.5
73	MP3A	X	0	2
74	MP3A	Z	74.282	2
75	MP3A	Mx	-.006	2
76	MP3A	X	0	4
77	MP3A	Z	74.282	4
78	MP3A	Mx	-.006	4
79	MP3B	X	0	2
80	MP3B	Z	41.136	2
81	MP3B	Mx	-.018	2
82	MP3B	X	0	4
83	MP3B	Z	41.136	4
84	MP3B	Mx	-.018	4
85	MP3C	X	0	2
86	MP3C	Z	41.136	2
87	MP3C	Mx	.018	2
88	MP3C	X	0	4
89	MP3C	Z	41.136	4
90	MP3C	Mx	.018	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP1A	X	0	2
92	MP1A	Z	57.879	2
93	MP1A	Mx	.01	2
94	MP1B	X	0	2
95	MP1B	Z	57.879	2
96	MP1B	Mx	.01	2
97	MP1C	X	0	2
98	MP1C	Z	57.879	2
99	MP1C	Mx	.01	2
100	MP2A	X	0	2
101	MP2A	Z	56.984	2
102	MP2A	Mx	.01	2
103	MP2B	X	0	2
104	MP2B	Z	56.984	2
105	MP2B	Mx	.01	2
106	MP2C	X	0	2
107	MP2C	Z	56.984	2
108	MP2C	Mx	.01	2
109	MP2A	X	0	4
110	MP2A	Z	11.485	4
111	MP2A	Mx	0	4
112	MP2B	X	0	4
113	MP2B	Z	11.485	4
114	MP2B	Mx	0	4
115	MP2C	X	0	4
116	MP2C	Z	11.485	4
117	MP2C	Mx	0	4
118	M31	X	0	1
119	M31	Z	127.107	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-76.315	.5
2	MP1A	Z	132.181	.5
3	MP1A	Mx	.026	.5
4	MP1A	X	-76.315	5.5
5	MP1A	Z	132.181	5.5
6	MP1A	Mx	.026	5.5
7	MP1B	X	-69.027	.5
8	MP1B	Z	119.558	.5
9	MP1B	Mx	-.069	.5
10	MP1B	X	-69.027	5.5
11	MP1B	Z	119.558	5.5
12	MP1B	Mx	-.069	5.5
13	MP1C	X	-69.992	.5
14	MP1C	Z	121.23	.5
15	MP1C	Mx	.066	.5
16	MP1C	X	-69.992	5.5
17	MP1C	Z	121.23	5.5
18	MP1C	Mx	.066	5.5
19	MP4A	X	-76.315	.5
20	MP4A	Z	132.181	.5
21	MP4A	Mx	.026	.5
22	MP4A	X	-76.315	5.5
23	MP4A	Z	132.181	5.5
24	MP4A	Mx	.026	5.5
25	MP4B	X	-69.027	.5
26	MP4B	Z	119.558	.5
27	MP4B	Mx	-.069	.5
28	MP4B	X	-69.027	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4B	Z	119.558	5.5
30	MP4B	Mx	-.069	5.5
31	MP4C	X	-69.992	.5
32	MP4C	Z	121.23	.5
33	MP4C	Mx	.066	.5
34	MP4C	X	-69.992	5.5
35	MP4C	Z	121.23	5.5
36	MP4C	Mx	.066	5.5
37	MP2A	X	-58.566	.5
38	MP2A	Z	101.439	.5
39	MP2A	Mx	-.002	.5
40	MP2A	X	-58.566	5.5
41	MP2A	Z	101.439	5.5
42	MP2A	Mx	-.002	5.5
43	MP2B	X	-58.566	.5
44	MP2B	Z	101.439	.5
45	MP2B	Mx	-.002	.5
46	MP2B	X	-58.566	5.5
47	MP2B	Z	101.439	5.5
48	MP2B	Mx	-.002	5.5
49	MP2C	X	-58.566	.5
50	MP2C	Z	101.439	.5
51	MP2C	Mx	-.002	.5
52	MP2C	X	-58.566	5.5
53	MP2C	Z	101.439	5.5
54	MP2C	Mx	-.002	5.5
55	MP2A	X	-58.566	.5
56	MP2A	Z	101.439	.5
57	MP2A	Mx	.092	.5
58	MP2A	X	-58.566	5.5
59	MP2A	Z	101.439	5.5
60	MP2A	Mx	.092	5.5
61	MP2B	X	-58.566	.5
62	MP2B	Z	101.439	.5
63	MP2B	Mx	.092	.5
64	MP2B	X	-58.566	5.5
65	MP2B	Z	101.439	5.5
66	MP2B	Mx	.092	5.5
67	MP2C	X	-58.566	.5
68	MP2C	Z	101.439	.5
69	MP2C	Mx	.092	.5
70	MP2C	X	-58.566	5.5
71	MP2C	Z	101.439	5.5
72	MP2C	Mx	.092	5.5
73	MP3A	X	-35.142	2
74	MP3A	Z	60.868	2
75	MP3A	Mx	.012	2
76	MP3A	X	-35.142	4
77	MP3A	Z	60.868	4
78	MP3A	Mx	.012	4
79	MP3B	X	-14.812	2
80	MP3B	Z	25.656	2
81	MP3B	Mx	-.015	2
82	MP3B	X	-14.812	4
83	MP3B	Z	25.656	4
84	MP3B	Mx	-.015	4
85	MP3C	X	-32.079	2
86	MP3C	Z	55.563	2
87	MP3C	Mx	.016	2
88	MP3C	X	-32.079	4
89	MP3C	Z	55.563	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP3C	Mx	.016	4
91	MP1A	X	-24.249	2
92	MP1A	Z	42.001	2
93	MP1A	Mx	.019	2
94	MP1B	X	-24.249	2
95	MP1B	Z	42.001	2
96	MP1B	Mx	.019	2
97	MP1C	X	-24.249	2
98	MP1C	Z	42.001	2
99	MP1C	Mx	.019	2
100	MP2A	X	-22.006	2
101	MP2A	Z	38.115	2
102	MP2A	Mx	.017	2
103	MP2B	X	-22.006	2
104	MP2B	Z	38.115	2
105	MP2B	Mx	.017	2
106	MP2C	X	-22.006	2
107	MP2C	Z	38.115	2
108	MP2C	Mx	.017	2
109	MP2A	X	-4.88	4
110	MP2A	Z	8.452	4
111	MP2A	Mx	0	4
112	MP2B	X	-4.88	4
113	MP2B	Z	8.452	4
114	MP2B	Mx	0	4
115	MP2C	X	-4.88	4
116	MP2C	Z	8.452	4
117	MP2C	Mx	0	4
118	M31	X	-56.273	1
119	M31	Z	97.467	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-125.465	.5
2	MP1A	Z	72.437	.5
3	MP1A	Mx	.055	.5
4	MP1A	X	-125.465	5.5
5	MP1A	Z	72.437	5.5
6	MP1A	Mx	.055	5.5
7	MP1B	X	-123.132	.5
8	MP1B	Z	71.09	.5
9	MP1B	Mx	-.062	.5
10	MP1B	X	-123.132	5.5
11	MP1B	Z	71.09	5.5
12	MP1B	Mx	-.062	5.5
13	MP1C	X	-127.947	.5
14	MP1C	Z	73.87	.5
15	MP1C	Mx	.047	.5
16	MP1C	X	-127.947	5.5
17	MP1C	Z	73.87	5.5
18	MP1C	Mx	.047	5.5
19	MP4A	X	-125.465	.5
20	MP4A	Z	72.437	.5
21	MP4A	Mx	.055	.5
22	MP4A	X	-125.465	5.5
23	MP4A	Z	72.437	5.5
24	MP4A	Mx	.055	5.5
25	MP4B	X	-123.132	.5
26	MP4B	Z	71.09	.5
27	MP4B	Mx	-.062	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP4B	X	-123.132	5.5
29	MP4B	Z	71.09	5.5
30	MP4B	Mx	-.062	5.5
31	MP4C	X	-127.947	.5
32	MP4C	Z	73.87	.5
33	MP4C	Mx	.047	.5
34	MP4C	X	-127.947	5.5
35	MP4C	Z	73.87	5.5
36	MP4C	Mx	.047	5.5
37	MP2A	X	-84.741	.5
38	MP2A	Z	48.925	.5
39	MP2A	Mx	.038	.5
40	MP2A	X	-84.741	5.5
41	MP2A	Z	48.925	5.5
42	MP2A	Mx	.038	5.5
43	MP2B	X	-84.741	.5
44	MP2B	Z	48.925	.5
45	MP2B	Mx	.038	.5
46	MP2B	X	-84.741	5.5
47	MP2B	Z	48.925	5.5
48	MP2B	Mx	.038	5.5
49	MP2C	X	-84.741	.5
50	MP2C	Z	48.925	.5
51	MP2C	Mx	.038	.5
52	MP2C	X	-84.741	5.5
53	MP2C	Z	48.925	5.5
54	MP2C	Mx	.038	5.5
55	MP2A	X	-84.741	.5
56	MP2A	Z	48.925	.5
57	MP2A	Mx	.059	.5
58	MP2A	X	-84.741	5.5
59	MP2A	Z	48.925	5.5
60	MP2A	Mx	.059	5.5
61	MP2B	X	-84.741	.5
62	MP2B	Z	48.925	.5
63	MP2B	Mx	.059	.5
64	MP2B	X	-84.741	5.5
65	MP2B	Z	48.925	5.5
66	MP2B	Mx	.059	5.5
67	MP2C	X	-84.741	.5
68	MP2C	Z	48.925	.5
69	MP2C	Mx	.059	.5
70	MP2C	X	-84.741	5.5
71	MP2C	Z	48.925	5.5
72	MP2C	Mx	.059	5.5
73	MP3A	X	-42.132	2
74	MP3A	Z	24.325	2
75	MP3A	Mx	.019	2
76	MP3A	X	-42.132	4
77	MP3A	Z	24.325	4
78	MP3A	Mx	.019	4
79	MP3B	X	-35.625	2
80	MP3B	Z	20.568	2
81	MP3B	Mx	-.018	2
82	MP3B	X	-35.625	4
83	MP3B	Z	20.568	4
84	MP3B	Mx	-.018	4
85	MP3C	X	-65.532	2
86	MP3C	Z	37.835	2
87	MP3C	Mx	0	2
88	MP3C	X	-65.532	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP3C	Z	37.835	4
90	MP3C	Mx	0	4
91	MP1A	X	-35.379	2
92	MP1A	Z	20.426	2
93	MP1A	Mx	.02	2
94	MP1B	X	-35.379	2
95	MP1B	Z	20.426	2
96	MP1B	Mx	.02	2
97	MP1C	X	-35.379	2
98	MP1C	Z	20.426	2
99	MP1C	Mx	.02	2
100	MP2A	X	-28.956	2
101	MP2A	Z	16.718	2
102	MP2A	Mx	.016	2
103	MP2B	X	-28.956	2
104	MP2B	Z	16.718	2
105	MP2B	Mx	.016	2
106	MP2C	X	-28.956	2
107	MP2C	Z	16.718	2
108	MP2C	Mx	.016	2
109	MP2A	X	-7.235	4
110	MP2A	Z	4.177	4
111	MP2A	Mx	0	4
112	MP2B	X	-7.235	4
113	MP2B	Z	4.177	4
114	MP2B	Mx	0	4
115	MP2C	X	-7.235	4
116	MP2C	Z	4.177	4
117	MP2C	Mx	0	4
118	M31	X	-87.187	1
119	M31	Z	50.337	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-138.552	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	.068	.5
4	MP1A	X	-138.552	5.5
5	MP1A	Z	0	5.5
6	MP1A	Mx	.068	5.5
7	MP1B	X	-150.434	.5
8	MP1B	Z	0	.5
9	MP1B	Mx	-.038	.5
10	MP1B	X	-150.434	5.5
11	MP1B	Z	0	5.5
12	MP1B	Mx	-.038	5.5
13	MP1C	X	-154.063	.5
14	MP1C	Z	0	.5
15	MP1C	Mx	.013	.5
16	MP1C	X	-154.063	5.5
17	MP1C	Z	0	5.5
18	MP1C	Mx	.013	5.5
19	MP4A	X	-138.552	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	.068	.5
22	MP4A	X	-138.552	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	.068	5.5
25	MP4B	X	-150.434	.5
26	MP4B	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP4B	Mx	-.038	.5
28	MP4B	X	-150.434	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	-.038	5.5
31	MP4C	X	-154.063	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	.013	.5
34	MP4C	X	-154.063	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	.013	5.5
37	MP2A	X	-102.221	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	.07	.5
40	MP2A	X	-102.221	5.5
41	MP2A	Z	0	5.5
42	MP2A	Mx	.07	5.5
43	MP2B	X	-102.221	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	.07	.5
46	MP2B	X	-102.221	5.5
47	MP2B	Z	0	5.5
48	MP2B	Mx	.07	5.5
49	MP2C	X	-102.221	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.07	.5
52	MP2C	X	-102.221	5.5
53	MP2C	Z	0	5.5
54	MP2C	Mx	.07	5.5
55	MP2A	X	-102.221	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.026	.5
58	MP2A	X	-102.221	5.5
59	MP2A	Z	0	5.5
60	MP2A	Mx	.026	5.5
61	MP2B	X	-102.221	.5
62	MP2B	Z	0	.5
63	MP2B	Mx	.026	.5
64	MP2B	X	-102.221	5.5
65	MP2B	Z	0	5.5
66	MP2B	Mx	.026	5.5
67	MP2C	X	-102.221	.5
68	MP2C	Z	0	.5
69	MP2C	Mx	.026	.5
70	MP2C	X	-102.221	5.5
71	MP2C	Z	0	5.5
72	MP2C	Mx	.026	5.5
73	MP3A	X	-31.013	2
74	MP3A	Z	0	2
75	MP3A	Mx	.015	2
76	MP3A	X	-31.013	4
77	MP3A	Z	0	4
78	MP3A	Mx	.015	4
79	MP3B	X	-64.159	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.016	2
82	MP3B	X	-64.159	4
83	MP3B	Z	0	4
84	MP3B	Mx	-.016	4
85	MP3C	X	-64.159	2
86	MP3C	Z	0	2
87	MP3C	Mx	-.016	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP3C	X	-64.159	4
89	MP3C	Z	0	4
90	MP3C	Mx	-.016	4
91	MP1A	X	-42.586	2
92	MP1A	Z	0	2
93	MP1A	Mx	.02	2
94	MP1B	X	-42.586	2
95	MP1B	Z	0	2
96	MP1B	Mx	.02	2
97	MP1C	X	-42.586	2
98	MP1C	Z	0	2
99	MP1C	Mx	.02	2
100	MP2A	X	-35.833	2
101	MP2A	Z	0	2
102	MP2A	Mx	.017	2
103	MP2B	X	-35.833	2
104	MP2B	Z	0	2
105	MP2B	Mx	.017	2
106	MP2C	X	-35.833	2
107	MP2C	Z	0	2
108	MP2C	Mx	.017	2
109	MP2A	X	-8.673	4
110	MP2A	Z	0	4
111	MP2A	Mx	0	4
112	MP2B	X	-8.673	4
113	MP2B	Z	0	4
114	MP2B	Mx	0	4
115	MP2C	X	-8.673	4
116	MP2C	Z	0	4
117	MP2C	Mx	0	4
118	M31	X	-103.365	1
119	M31	Z	0	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-121.23	.5
2	MP1A	Z	-69.992	.5
3	MP1A	Mx	.066	.5
4	MP1A	X	-121.23	5.5
5	MP1A	Z	-69.992	5.5
6	MP1A	Mx	.066	5.5
7	MP1B	X	-133.853	.5
8	MP1B	Z	-77.28	.5
9	MP1B	Mx	0	.5
10	MP1B	X	-133.853	5.5
11	MP1B	Z	-77.28	5.5
12	MP1B	Mx	0	5.5
13	MP1C	X	-132.181	.5
14	MP1C	Z	-76.315	.5
15	MP1C	Mx	-.026	.5
16	MP1C	X	-132.181	5.5
17	MP1C	Z	-76.315	5.5
18	MP1C	Mx	-.026	5.5
19	MP4A	X	-121.23	.5
20	MP4A	Z	-69.992	.5
21	MP4A	Mx	.066	.5
22	MP4A	X	-121.23	5.5
23	MP4A	Z	-69.992	5.5
24	MP4A	Mx	.066	5.5
25	MP4B	X	-133.853	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP4B	Z	-77.28	.5
27	MP4B	Mx	0	.5
28	MP4B	X	-133.853	5.5
29	MP4B	Z	-77.28	5.5
30	MP4B	Mx	0	5.5
31	MP4C	X	-132.181	.5
32	MP4C	Z	-76.315	.5
33	MP4C	Mx	-.026	.5
34	MP4C	X	-132.181	5.5
35	MP4C	Z	-76.315	5.5
36	MP4C	Mx	-.026	5.5
37	MP2A	X	-109.009	.5
38	MP2A	Z	-62.936	.5
39	MP2A	Mx	.101	.5
40	MP2A	X	-109.009	5.5
41	MP2A	Z	-62.936	5.5
42	MP2A	Mx	.101	5.5
43	MP2B	X	-109.009	.5
44	MP2B	Z	-62.936	.5
45	MP2B	Mx	.101	.5
46	MP2B	X	-109.009	5.5
47	MP2B	Z	-62.936	5.5
48	MP2B	Mx	.101	5.5
49	MP2C	X	-109.009	.5
50	MP2C	Z	-62.936	.5
51	MP2C	Mx	.101	.5
52	MP2C	X	-109.009	5.5
53	MP2C	Z	-62.936	5.5
54	MP2C	Mx	.101	5.5
55	MP2A	X	-109.009	.5
56	MP2A	Z	-62.936	.5
57	MP2A	Mx	-.02	.5
58	MP2A	X	-109.009	5.5
59	MP2A	Z	-62.936	5.5
60	MP2A	Mx	-.02	5.5
61	MP2B	X	-109.009	.5
62	MP2B	Z	-62.936	.5
63	MP2B	Mx	-.02	.5
64	MP2B	X	-109.009	5.5
65	MP2B	Z	-62.936	5.5
66	MP2B	Mx	-.02	5.5
67	MP2C	X	-109.009	.5
68	MP2C	Z	-62.936	.5
69	MP2C	Mx	-.02	.5
70	MP2C	X	-109.009	5.5
71	MP2C	Z	-62.936	5.5
72	MP2C	Mx	-.02	5.5
73	MP3A	X	-30.321	2
74	MP3A	Z	-17.506	2
75	MP3A	Mx	.016	2
76	MP3A	X	-30.321	4
77	MP3A	Z	-17.506	4
78	MP3A	Mx	.016	4
79	MP3B	X	-65.532	2
80	MP3B	Z	-37.835	2
81	MP3B	Mx	0	2
82	MP3B	X	-65.532	4
83	MP3B	Z	-37.835	4
84	MP3B	Mx	0	4
85	MP3C	X	-35.625	2
86	MP3C	Z	-20.568	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP3C	Mx	-.018	2
88	MP3C	X	-35.625	4
89	MP3C	Z	-20.568	4
90	MP3C	Mx	-.018	4
91	MP1A	X	-45.004	2
92	MP1A	Z	-25.983	2
93	MP1A	Mx	.017	2
94	MP1B	X	-45.004	2
95	MP1B	Z	-25.983	2
96	MP1B	Mx	.017	2
97	MP1C	X	-45.004	2
98	MP1C	Z	-25.983	2
99	MP1C	Mx	.017	2
100	MP2A	X	-42.267	2
101	MP2A	Z	-24.403	2
102	MP2A	Mx	.016	2
103	MP2B	X	-42.267	2
104	MP2B	Z	-24.403	2
105	MP2B	Mx	.016	2
106	MP2C	X	-42.267	2
107	MP2C	Z	-24.403	2
108	MP2C	Mx	.016	2
109	MP2A	X	-9.004	4
110	MP2A	Z	-5.199	4
111	MP2A	Mx	0	4
112	MP2B	X	-9.004	4
113	MP2B	Z	-5.199	4
114	MP2B	Mx	0	4
115	MP2C	X	-9.004	4
116	MP2C	Z	-5.199	4
117	MP2C	Mx	0	4
118	M31	X	-102.128	1
119	M31	Z	-58.964	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-73.87	.5
2	MP1A	Z	-127.947	.5
3	MP1A	Mx	.047	.5
4	MP1A	X	-73.87	5.5
5	MP1A	Z	-127.947	5.5
6	MP1A	Mx	.047	5.5
7	MP1B	X	-75.217	.5
8	MP1B	Z	-130.28	.5
9	MP1B	Mx	.038	.5
10	MP1B	X	-75.217	5.5
11	MP1B	Z	-130.28	5.5
12	MP1B	Mx	.038	5.5
13	MP1C	X	-72.437	.5
14	MP1C	Z	-125.465	.5
15	MP1C	Mx	-.055	.5
16	MP1C	X	-72.437	5.5
17	MP1C	Z	-125.465	5.5
18	MP1C	Mx	-.055	5.5
19	MP4A	X	-73.87	.5
20	MP4A	Z	-127.947	.5
21	MP4A	Mx	.047	.5
22	MP4A	X	-73.87	5.5
23	MP4A	Z	-127.947	5.5
24	MP4A	Mx	.047	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP4B	X	-75.217	.5
26	MP4B	Z	-130.28	.5
27	MP4B	Mx	.038	.5
28	MP4B	X	-75.217	5.5
29	MP4B	Z	-130.28	5.5
30	MP4B	Mx	.038	5.5
31	MP4C	X	-72.437	.5
32	MP4C	Z	-125.465	.5
33	MP4C	Mx	-.055	.5
34	MP4C	X	-72.437	5.5
35	MP4C	Z	-125.465	5.5
36	MP4C	Mx	-.055	5.5
37	MP2A	X	-72.577	.5
38	MP2A	Z	-125.707	.5
39	MP2A	Mx	.102	.5
40	MP2A	X	-72.577	5.5
41	MP2A	Z	-125.707	5.5
42	MP2A	Mx	.102	5.5
43	MP2B	X	-72.577	.5
44	MP2B	Z	-125.707	.5
45	MP2B	Mx	.102	.5
46	MP2B	X	-72.577	5.5
47	MP2B	Z	-125.707	5.5
48	MP2B	Mx	.102	5.5
49	MP2C	X	-72.577	.5
50	MP2C	Z	-125.707	.5
51	MP2C	Mx	.102	.5
52	MP2C	X	-72.577	5.5
53	MP2C	Z	-125.707	5.5
54	MP2C	Mx	.102	5.5
55	MP2A	X	-72.577	.5
56	MP2A	Z	-125.707	.5
57	MP2A	Mx	-.077	.5
58	MP2A	X	-72.577	5.5
59	MP2A	Z	-125.707	5.5
60	MP2A	Mx	-.077	5.5
61	MP2B	X	-72.577	.5
62	MP2B	Z	-125.707	.5
63	MP2B	Mx	-.077	.5
64	MP2B	X	-72.577	5.5
65	MP2B	Z	-125.707	5.5
66	MP2B	Mx	-.077	5.5
67	MP2C	X	-72.577	.5
68	MP2C	Z	-125.707	.5
69	MP2C	Mx	-.077	.5
70	MP2C	X	-72.577	5.5
71	MP2C	Z	-125.707	5.5
72	MP2C	Mx	-.077	5.5
73	MP3A	X	-28.323	2
74	MP3A	Z	-49.056	2
75	MP3A	Mx	.018	2
76	MP3A	X	-28.323	4
77	MP3A	Z	-49.056	4
78	MP3A	Mx	.018	4
79	MP3B	X	-32.079	2
80	MP3B	Z	-55.563	2
81	MP3B	Mx	.016	2
82	MP3B	X	-32.079	4
83	MP3B	Z	-55.563	4
84	MP3B	Mx	.016	4
85	MP3C	X	-14.812	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP3C	Z	-25.656	2
87	MP3C	Mx	-.015	2
88	MP3C	X	-14.812	4
89	MP3C	Z	-25.656	4
90	MP3C	Mx	-.015	4
91	MP1A	X	-29.806	2
92	MP1A	Z	-51.626	2
93	MP1A	Mx	.005	2
94	MP1B	X	-29.806	2
95	MP1B	Z	-51.626	2
96	MP1B	Mx	.005	2
97	MP1C	X	-29.806	2
98	MP1C	Z	-51.626	2
99	MP1C	Mx	.005	2
100	MP2A	X	-29.691	2
101	MP2A	Z	-51.426	2
102	MP2A	Mx	.005	2
103	MP2B	X	-29.691	2
104	MP2B	Z	-51.426	2
105	MP2B	Mx	.005	2
106	MP2C	X	-29.691	2
107	MP2C	Z	-51.426	2
108	MP2C	Mx	.005	2
109	MP2A	X	-5.902	4
110	MP2A	Z	-10.222	4
111	MP2A	Mx	0	4
112	MP2B	X	-5.902	4
113	MP2B	Z	-10.222	4
114	MP2B	Mx	0	4
115	MP2C	X	-5.902	4
116	MP2C	Z	-10.222	4
117	MP2C	Mx	0	4
118	M31	X	-64.899	1
119	M31	Z	-112.408	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	-31.845	.5
3	MP1A	Mx	.003	.5
4	MP1A	X	0	5.5
5	MP1A	Z	-31.845	5.5
6	MP1A	Mx	.003	5.5
7	MP1B	X	0	.5
8	MP1B	Z	-29.54	.5
9	MP1B	Mx	.013	.5
10	MP1B	X	0	5.5
11	MP1B	Z	-29.54	5.5
12	MP1B	Mx	.013	5.5
13	MP1C	X	0	.5
14	MP1C	Z	-28.836	.5
15	MP1C	Mx	-.014	.5
16	MP1C	X	0	5.5
17	MP1C	Z	-28.836	5.5
18	MP1C	Mx	-.014	5.5
19	MP4A	X	0	.5
20	MP4A	Z	-31.845	.5
21	MP4A	Mx	.003	.5
22	MP4A	X	0	5.5
23	MP4A	Z	-31.845	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
24	MP4A	Mx	.003	5.5
25	MP4B	X	0	.5
26	MP4B	Z	-29.54	.5
27	MP4B	Mx	.013	.5
28	MP4B	X	0	5.5
29	MP4B	Z	-29.54	5.5
30	MP4B	Mx	.013	5.5
31	MP4C	X	0	.5
32	MP4C	Z	-28.836	.5
33	MP4C	Mx	-.014	.5
34	MP4C	X	0	5.5
35	MP4C	Z	-28.836	5.5
36	MP4C	Mx	-.014	5.5
37	MP2A	X	0	.5
38	MP2A	Z	-29.315	.5
39	MP2A	Mx	.012	.5
40	MP2A	X	0	5.5
41	MP2A	Z	-29.315	5.5
42	MP2A	Mx	.012	5.5
43	MP2B	X	0	.5
44	MP2B	Z	-29.315	.5
45	MP2B	Mx	.012	.5
46	MP2B	X	0	5.5
47	MP2B	Z	-29.315	5.5
48	MP2B	Mx	.012	5.5
49	MP2C	X	0	.5
50	MP2C	Z	-29.315	.5
51	MP2C	Mx	.012	.5
52	MP2C	X	0	5.5
53	MP2C	Z	-29.315	5.5
54	MP2C	Mx	.012	5.5
55	MP2A	X	0	.5
56	MP2A	Z	-29.315	.5
57	MP2A	Mx	-.022	.5
58	MP2A	X	0	5.5
59	MP2A	Z	-29.315	5.5
60	MP2A	Mx	-.022	5.5
61	MP2B	X	0	.5
62	MP2B	Z	-29.315	.5
63	MP2B	Mx	-.022	.5
64	MP2B	X	0	5.5
65	MP2B	Z	-29.315	5.5
66	MP2B	Mx	-.022	5.5
67	MP2C	X	0	.5
68	MP2C	Z	-29.315	.5
69	MP2C	Mx	-.022	.5
70	MP2C	X	0	5.5
71	MP2C	Z	-29.315	5.5
72	MP2C	Mx	-.022	5.5
73	MP3A	X	0	2
74	MP3A	Z	-15.923	2
75	MP3A	Mx	.001	2
76	MP3A	X	0	4
77	MP3A	Z	-15.923	4
78	MP3A	Mx	.001	4
79	MP3B	X	0	2
80	MP3B	Z	-9.237	2
81	MP3B	Mx	.004	2
82	MP3B	X	0	4
83	MP3B	Z	-9.237	4
84	MP3B	Mx	.004	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP3C	X	0	2
86	MP3C	Z	-9.237	2
87	MP3C	Mx	-.004	2
88	MP3C	X	0	4
89	MP3C	Z	-9.237	4
90	MP3C	Mx	-.004	4
91	MP1A	X	0	2
92	MP1A	Z	-13.187	2
93	MP1A	Mx	-.002	2
94	MP1B	X	0	2
95	MP1B	Z	-13.187	2
96	MP1B	Mx	-.002	2
97	MP1C	X	0	2
98	MP1C	Z	-13.187	2
99	MP1C	Mx	-.002	2
100	MP2A	X	0	2
101	MP2A	Z	-13.002	2
102	MP2A	Mx	-.002	2
103	MP2B	X	0	2
104	MP2B	Z	-13.002	2
105	MP2B	Mx	-.002	2
106	MP2C	X	0	2
107	MP2C	Z	-13.002	2
108	MP2C	Mx	-.002	2
109	MP2A	X	0	4
110	MP2A	Z	-3.237	4
111	MP2A	Mx	0	4
112	MP2B	X	0	4
113	MP2B	Z	-3.237	4
114	MP2B	Mx	0	4
115	MP2C	X	0	4
116	MP2C	Z	-3.237	4
117	MP2C	Mx	0	4
118	M31	X	0	1
119	M31	Z	-27.353	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	15.783	.5
2	MP1A	Z	-27.338	.5
3	MP1A	Mx	-.005	.5
4	MP1A	X	15.783	5.5
5	MP1A	Z	-27.338	5.5
6	MP1A	Mx	-.005	5.5
7	MP1B	X	14.37	.5
8	MP1B	Z	-24.889	.5
9	MP1B	Mx	.014	.5
10	MP1B	X	14.37	5.5
11	MP1B	Z	-24.889	5.5
12	MP1B	Mx	.014	5.5
13	MP1C	X	14.557	.5
14	MP1C	Z	-25.213	.5
15	MP1C	Mx	-.014	.5
16	MP1C	X	14.557	5.5
17	MP1C	Z	-25.213	5.5
18	MP1C	Mx	-.014	5.5
19	MP4A	X	15.783	.5
20	MP4A	Z	-27.338	.5
21	MP4A	Mx	-.005	.5
22	MP4A	X	15.783	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP4A	Z	-27.338	5.5
24	MP4A	Mx	-.005	5.5
25	MP4B	X	14.37	.5
26	MP4B	Z	-24.889	.5
27	MP4B	Mx	.014	.5
28	MP4B	X	14.37	5.5
29	MP4B	Z	-24.889	5.5
30	MP4B	Mx	.014	5.5
31	MP4C	X	14.557	.5
32	MP4C	Z	-25.213	.5
33	MP4C	Mx	-.014	.5
34	MP4C	X	14.557	5.5
35	MP4C	Z	-25.213	5.5
36	MP4C	Mx	-.014	5.5
37	MP2A	X	12.388	.5
38	MP2A	Z	-21.457	.5
39	MP2A	Mx	.000464	.5
40	MP2A	X	12.388	5.5
41	MP2A	Z	-21.457	5.5
42	MP2A	Mx	.000464	5.5
43	MP2B	X	12.388	.5
44	MP2B	Z	-21.457	.5
45	MP2B	Mx	.000464	.5
46	MP2B	X	12.388	5.5
47	MP2B	Z	-21.457	5.5
48	MP2B	Mx	.000464	5.5
49	MP2C	X	12.388	.5
50	MP2C	Z	-21.457	.5
51	MP2C	Mx	.000464	.5
52	MP2C	X	12.388	5.5
53	MP2C	Z	-21.457	5.5
54	MP2C	Mx	.000464	5.5
55	MP2A	X	12.388	.5
56	MP2A	Z	-21.457	.5
57	MP2A	Mx	-.019	.5
58	MP2A	X	12.388	5.5
59	MP2A	Z	-21.457	5.5
60	MP2A	Mx	-.019	5.5
61	MP2B	X	12.388	.5
62	MP2B	Z	-21.457	.5
63	MP2B	Mx	-.019	.5
64	MP2B	X	12.388	5.5
65	MP2B	Z	-21.457	5.5
66	MP2B	Mx	-.019	5.5
67	MP2C	X	12.388	.5
68	MP2C	Z	-21.457	.5
69	MP2C	Mx	-.019	.5
70	MP2C	X	12.388	5.5
71	MP2C	Z	-21.457	5.5
72	MP2C	Mx	-.019	5.5
73	MP3A	X	7.558	2
74	MP3A	Z	-13.091	2
75	MP3A	Mx	-.003	2
76	MP3A	X	7.558	4
77	MP3A	Z	-13.091	4
78	MP3A	Mx	-.003	4
79	MP3B	X	3.458	2
80	MP3B	Z	-5.989	2
81	MP3B	Mx	.003	2
82	MP3B	X	3.458	4
83	MP3B	Z	-5.989	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP3B	Mx	.003	4
85	MP3C	X	6.94	2
86	MP3C	Z	-12.021	2
87	MP3C	Mx	-.003	2
88	MP3C	X	6.94	4
89	MP3C	Z	-12.021	4
90	MP3C	Mx	-.003	4
91	MP1A	X	5.618	2
92	MP1A	Z	-9.73	2
93	MP1A	Mx	-.004	2
94	MP1B	X	5.618	2
95	MP1B	Z	-9.73	2
96	MP1B	Mx	-.004	2
97	MP1C	X	5.618	2
98	MP1C	Z	-9.73	2
99	MP1C	Mx	-.004	2
100	MP2A	X	5.155	2
101	MP2A	Z	-8.928	2
102	MP2A	Mx	-.004	2
103	MP2B	X	5.155	2
104	MP2B	Z	-8.928	2
105	MP2B	Mx	-.004	2
106	MP2C	X	5.155	2
107	MP2C	Z	-8.928	2
108	MP2C	Mx	-.004	2
109	MP2A	X	1.424	4
110	MP2A	Z	-2.466	4
111	MP2A	Mx	0	4
112	MP2B	X	1.424	4
113	MP2B	Z	-2.466	4
114	MP2B	Mx	0	4
115	MP2C	X	1.424	4
116	MP2C	Z	-2.466	4
117	MP2C	Mx	0	4
118	M31	X	12.241	1
119	M31	Z	-21.203	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	26.035	.5
2	MP1A	Z	-15.031	.5
3	MP1A	Mx	-.012	.5
4	MP1A	X	26.035	5.5
5	MP1A	Z	-15.031	5.5
6	MP1A	Mx	-.012	5.5
7	MP1B	X	25.582	.5
8	MP1B	Z	-14.77	.5
9	MP1B	Mx	.013	.5
10	MP1B	X	25.582	5.5
11	MP1B	Z	-14.77	5.5
12	MP1B	Mx	.013	5.5
13	MP1C	X	26.516	.5
14	MP1C	Z	-15.309	.5
15	MP1C	Mx	-.01	.5
16	MP1C	X	26.516	5.5
17	MP1C	Z	-15.309	5.5
18	MP1C	Mx	-.01	5.5
19	MP4A	X	26.035	.5
20	MP4A	Z	-15.031	.5
21	MP4A	Mx	-.012	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP4A	X	26.035	5.5
23	MP4A	Z	-15.031	5.5
24	MP4A	Mx	-.012	5.5
25	MP4B	X	25.582	.5
26	MP4B	Z	-14.77	.5
27	MP4B	Mx	.013	.5
28	MP4B	X	25.582	5.5
29	MP4B	Z	-14.77	5.5
30	MP4B	Mx	.013	5.5
31	MP4C	X	26.516	.5
32	MP4C	Z	-15.309	.5
33	MP4C	Mx	-.01	.5
34	MP4C	X	26.516	5.5
35	MP4C	Z	-15.309	5.5
36	MP4C	Mx	-.01	5.5
37	MP2A	X	18.253	.5
38	MP2A	Z	-10.538	.5
39	MP2A	Mx	-.008	.5
40	MP2A	X	18.253	5.5
41	MP2A	Z	-10.538	5.5
42	MP2A	Mx	-.008	5.5
43	MP2B	X	18.253	.5
44	MP2B	Z	-10.538	.5
45	MP2B	Mx	-.008	.5
46	MP2B	X	18.253	5.5
47	MP2B	Z	-10.538	5.5
48	MP2B	Mx	-.008	5.5
49	MP2C	X	18.253	.5
50	MP2C	Z	-10.538	.5
51	MP2C	Mx	-.008	.5
52	MP2C	X	18.253	5.5
53	MP2C	Z	-10.538	5.5
54	MP2C	Mx	-.008	5.5
55	MP2A	X	18.253	.5
56	MP2A	Z	-10.538	.5
57	MP2A	Mx	-.013	.5
58	MP2A	X	18.253	5.5
59	MP2A	Z	-10.538	5.5
60	MP2A	Mx	-.013	5.5
61	MP2B	X	18.253	.5
62	MP2B	Z	-10.538	.5
63	MP2B	Mx	-.013	.5
64	MP2B	X	18.253	5.5
65	MP2B	Z	-10.538	5.5
66	MP2B	Mx	-.013	5.5
67	MP2C	X	18.253	.5
68	MP2C	Z	-10.538	.5
69	MP2C	Mx	-.013	.5
70	MP2C	X	18.253	5.5
71	MP2C	Z	-10.538	5.5
72	MP2C	Mx	-.013	5.5
73	MP3A	X	9.312	2
74	MP3A	Z	-5.376	2
75	MP3A	Mx	-.004	2
76	MP3A	X	9.312	4
77	MP3A	Z	-5.376	4
78	MP3A	Mx	-.004	4
79	MP3B	X	7.999	2
80	MP3B	Z	-4.618	2
81	MP3B	Mx	.004	2
82	MP3B	X	7.999	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP3B	Z	-4.618	4
84	MP3B	Mx	.004	4
85	MP3C	X	14.032	2
86	MP3C	Z	-8.101	2
87	MP3C	Mx	0	2
88	MP3C	X	14.032	4
89	MP3C	Z	-8.101	4
90	MP3C	Mx	0	4
91	MP1A	X	8.352	2
92	MP1A	Z	-4.822	2
93	MP1A	Mx	-.005	2
94	MP1B	X	8.352	2
95	MP1B	Z	-4.822	2
96	MP1B	Mx	-.005	2
97	MP1C	X	8.352	2
98	MP1C	Z	-4.822	2
99	MP1C	Mx	-.005	2
100	MP2A	X	7.027	2
101	MP2A	Z	-4.057	2
102	MP2A	Mx	-.004	2
103	MP2B	X	7.027	2
104	MP2B	Z	-4.057	2
105	MP2B	Mx	-.004	2
106	MP2C	X	7.027	2
107	MP2C	Z	-4.057	2
108	MP2C	Mx	-.004	2
109	MP2A	X	2.191	4
110	MP2A	Z	-1.265	4
111	MP2A	Mx	0	4
112	MP2B	X	2.191	4
113	MP2B	Z	-1.265	4
114	MP2B	Mx	0	4
115	MP2C	X	2.191	4
116	MP2C	Z	-1.265	4
117	MP2C	Mx	0	4
118	M31	X	19.177	1
119	M31	Z	-11.072	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	28.836	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	-.014	.5
4	MP1A	X	28.836	5.5
5	MP1A	Z	0	5.5
6	MP1A	Mx	-.014	5.5
7	MP1B	X	31.141	.5
8	MP1B	Z	0	.5
9	MP1B	Mx	.008	.5
10	MP1B	X	31.141	5.5
11	MP1B	Z	0	5.5
12	MP1B	Mx	.008	5.5
13	MP1C	X	31.845	.5
14	MP1C	Z	0	.5
15	MP1C	Mx	-.003	.5
16	MP1C	X	31.845	5.5
17	MP1C	Z	0	5.5
18	MP1C	Mx	-.003	5.5
19	MP4A	X	28.836	.5
20	MP4A	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP4A	Mx	-.014	.5
22	MP4A	X	28.836	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	-.014	5.5
25	MP4B	X	31.141	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	.008	.5
28	MP4B	X	31.141	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	.008	5.5
31	MP4C	X	31.845	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	-.003	.5
34	MP4C	X	31.845	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	-.003	5.5
37	MP2A	X	21.915	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	-.015	.5
40	MP2A	X	21.915	5.5
41	MP2A	Z	0	5.5
42	MP2A	Mx	-.015	5.5
43	MP2B	X	21.915	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	-.015	.5
46	MP2B	X	21.915	5.5
47	MP2B	Z	0	5.5
48	MP2B	Mx	-.015	5.5
49	MP2C	X	21.915	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.015	.5
52	MP2C	X	21.915	5.5
53	MP2C	Z	0	5.5
54	MP2C	Mx	-.015	5.5
55	MP2A	X	21.915	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.006	.5
58	MP2A	X	21.915	5.5
59	MP2A	Z	0	5.5
60	MP2A	Mx	-.006	5.5
61	MP2B	X	21.915	.5
62	MP2B	Z	0	.5
63	MP2B	Mx	-.006	.5
64	MP2B	X	21.915	5.5
65	MP2B	Z	0	5.5
66	MP2B	Mx	-.006	5.5
67	MP2C	X	21.915	.5
68	MP2C	Z	0	.5
69	MP2C	Mx	-.006	.5
70	MP2C	X	21.915	5.5
71	MP2C	Z	0	5.5
72	MP2C	Mx	-.006	5.5
73	MP3A	X	7.195	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.004	2
76	MP3A	X	7.195	4
77	MP3A	Z	0	4
78	MP3A	Mx	-.004	4
79	MP3B	X	13.881	2
80	MP3B	Z	0	2
81	MP3B	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP3B	X	13.881	4
83	MP3B	Z	0	4
84	MP3B	Mx	.003	4
85	MP3C	X	13.881	2
86	MP3C	Z	0	2
87	MP3C	Mx	.003	2
88	MP3C	X	13.881	4
89	MP3C	Z	0	4
90	MP3C	Mx	.003	4
91	MP1A	X	10.005	2
92	MP1A	Z	0	2
93	MP1A	Mx	-.005	2
94	MP1B	X	10.005	2
95	MP1B	Z	0	2
96	MP1B	Mx	-.005	2
97	MP1C	X	10.005	2
98	MP1C	Z	0	2
99	MP1C	Mx	-.005	2
100	MP2A	X	8.612	2
101	MP2A	Z	0	2
102	MP2A	Mx	-.004	2
103	MP2B	X	8.612	2
104	MP2B	Z	0	2
105	MP2B	Mx	-.004	2
106	MP2C	X	8.612	2
107	MP2C	Z	0	2
108	MP2C	Mx	-.004	2
109	MP2A	X	2.602	4
110	MP2A	Z	0	4
111	MP2A	Mx	0	4
112	MP2B	X	2.602	4
113	MP2B	Z	0	4
114	MP2B	Mx	0	4
115	MP2C	X	2.602	4
116	MP2C	Z	0	4
117	MP2C	Mx	0	4
118	M31	X	22.674	1
119	M31	Z	0	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	25.213	.5
2	MP1A	Z	14.557	.5
3	MP1A	Mx	-.014	.5
4	MP1A	X	25.213	5.5
5	MP1A	Z	14.557	5.5
6	MP1A	Mx	-.014	5.5
7	MP1B	X	27.662	.5
8	MP1B	Z	15.971	.5
9	MP1B	Mx	0	.5
10	MP1B	X	27.662	5.5
11	MP1B	Z	15.971	5.5
12	MP1B	Mx	0	5.5
13	MP1C	X	27.338	.5
14	MP1C	Z	15.783	.5
15	MP1C	Mx	.005	.5
16	MP1C	X	27.338	5.5
17	MP1C	Z	15.783	5.5
18	MP1C	Mx	.005	5.5
19	MP4A	X	25.213	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP4A	Z	14.557	.5
21	MP4A	Mx	-.014	.5
22	MP4A	X	25.213	5.5
23	MP4A	Z	14.557	5.5
24	MP4A	Mx	-.014	5.5
25	MP4B	X	27.662	.5
26	MP4B	Z	15.971	.5
27	MP4B	Mx	0	.5
28	MP4B	X	27.662	5.5
29	MP4B	Z	15.971	5.5
30	MP4B	Mx	0	5.5
31	MP4C	X	27.338	.5
32	MP4C	Z	15.783	.5
33	MP4C	Mx	.005	.5
34	MP4C	X	27.338	5.5
35	MP4C	Z	15.783	5.5
36	MP4C	Mx	.005	5.5
37	MP2A	X	22.91	.5
38	MP2A	Z	13.227	.5
39	MP2A	Mx	-.021	.5
40	MP2A	X	22.91	5.5
41	MP2A	Z	13.227	5.5
42	MP2A	Mx	-.021	5.5
43	MP2B	X	22.91	.5
44	MP2B	Z	13.227	.5
45	MP2B	Mx	-.021	.5
46	MP2B	X	22.91	5.5
47	MP2B	Z	13.227	5.5
48	MP2B	Mx	-.021	5.5
49	MP2C	X	22.91	.5
50	MP2C	Z	13.227	.5
51	MP2C	Mx	-.021	.5
52	MP2C	X	22.91	5.5
53	MP2C	Z	13.227	5.5
54	MP2C	Mx	-.021	5.5
55	MP2A	X	22.91	.5
56	MP2A	Z	13.227	.5
57	MP2A	Mx	.004	.5
58	MP2A	X	22.91	5.5
59	MP2A	Z	13.227	5.5
60	MP2A	Mx	.004	5.5
61	MP2B	X	22.91	.5
62	MP2B	Z	13.227	.5
63	MP2B	Mx	.004	.5
64	MP2B	X	22.91	5.5
65	MP2B	Z	13.227	5.5
66	MP2B	Mx	.004	5.5
67	MP2C	X	22.91	.5
68	MP2C	Z	13.227	.5
69	MP2C	Mx	.004	.5
70	MP2C	X	22.91	5.5
71	MP2C	Z	13.227	5.5
72	MP2C	Mx	.004	5.5
73	MP3A	X	6.929	2
74	MP3A	Z	4.001	2
75	MP3A	Mx	-.004	2
76	MP3A	X	6.929	4
77	MP3A	Z	4.001	4
78	MP3A	Mx	-.004	4
79	MP3B	X	14.032	2
80	MP3B	Z	8.101	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP3B	Mx	0	2
82	MP3B	X	14.032	4
83	MP3B	Z	8.101	4
84	MP3B	Mx	0	4
85	MP3C	X	7.999	2
86	MP3C	Z	4.618	2
87	MP3C	Mx	.004	2
88	MP3C	X	7.999	4
89	MP3C	Z	4.618	4
90	MP3C	Mx	.004	4
91	MP1A	X	10.355	2
92	MP1A	Z	5.978	2
93	MP1A	Mx	-.004	2
94	MP1B	X	10.355	2
95	MP1B	Z	5.978	2
96	MP1B	Mx	-.004	2
97	MP1C	X	10.355	2
98	MP1C	Z	5.978	2
99	MP1C	Mx	-.004	2
100	MP2A	X	9.79	2
101	MP2A	Z	5.652	2
102	MP2A	Mx	-.004	2
103	MP2B	X	9.79	2
104	MP2B	Z	5.652	2
105	MP2B	Mx	-.004	2
106	MP2C	X	9.79	2
107	MP2C	Z	5.652	2
108	MP2C	Mx	-.004	2
109	MP2A	X	2.591	4
110	MP2A	Z	1.496	4
111	MP2A	Mx	0	4
112	MP2B	X	2.591	4
113	MP2B	Z	1.496	4
114	MP2B	Mx	0	4
115	MP2C	X	2.591	4
116	MP2C	Z	1.496	4
117	MP2C	Mx	0	4
118	M31	X	22.121	1
119	M31	Z	12.772	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	15.309	.5
2	MP1A	Z	26.516	.5
3	MP1A	Mx	-.01	.5
4	MP1A	X	15.309	5.5
5	MP1A	Z	26.516	5.5
6	MP1A	Mx	-.01	5.5
7	MP1B	X	15.57	.5
8	MP1B	Z	26.969	.5
9	MP1B	Mx	-.008	.5
10	MP1B	X	15.57	5.5
11	MP1B	Z	26.969	5.5
12	MP1B	Mx	-.008	5.5
13	MP1C	X	15.031	.5
14	MP1C	Z	26.035	.5
15	MP1C	Mx	.012	.5
16	MP1C	X	15.031	5.5
17	MP1C	Z	26.035	5.5
18	MP1C	Mx	.012	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP4A	X	15.309	.5
20	MP4A	Z	26.516	.5
21	MP4A	Mx	-.01	.5
22	MP4A	X	15.309	5.5
23	MP4A	Z	26.516	5.5
24	MP4A	Mx	-.01	5.5
25	MP4B	X	15.57	.5
26	MP4B	Z	26.969	.5
27	MP4B	Mx	-.008	.5
28	MP4B	X	15.57	5.5
29	MP4B	Z	26.969	5.5
30	MP4B	Mx	-.008	5.5
31	MP4C	X	15.031	.5
32	MP4C	Z	26.035	.5
33	MP4C	Mx	.012	.5
34	MP4C	X	15.031	5.5
35	MP4C	Z	26.035	5.5
36	MP4C	Mx	.012	5.5
37	MP2A	X	15.077	.5
38	MP2A	Z	26.114	.5
39	MP2A	Mx	-.021	.5
40	MP2A	X	15.077	5.5
41	MP2A	Z	26.114	5.5
42	MP2A	Mx	-.021	5.5
43	MP2B	X	15.077	.5
44	MP2B	Z	26.114	.5
45	MP2B	Mx	-.021	.5
46	MP2B	X	15.077	5.5
47	MP2B	Z	26.114	5.5
48	MP2B	Mx	-.021	5.5
49	MP2C	X	15.077	.5
50	MP2C	Z	26.114	.5
51	MP2C	Mx	-.021	.5
52	MP2C	X	15.077	5.5
53	MP2C	Z	26.114	5.5
54	MP2C	Mx	-.021	5.5
55	MP2A	X	15.077	.5
56	MP2A	Z	26.114	.5
57	MP2A	Mx	.016	.5
58	MP2A	X	15.077	5.5
59	MP2A	Z	26.114	5.5
60	MP2A	Mx	.016	5.5
61	MP2B	X	15.077	.5
62	MP2B	Z	26.114	.5
63	MP2B	Mx	.016	.5
64	MP2B	X	15.077	5.5
65	MP2B	Z	26.114	5.5
66	MP2B	Mx	.016	5.5
67	MP2C	X	15.077	.5
68	MP2C	Z	26.114	.5
69	MP2C	Mx	.016	.5
70	MP2C	X	15.077	5.5
71	MP2C	Z	26.114	5.5
72	MP2C	Mx	.016	5.5
73	MP3A	X	6.183	2
74	MP3A	Z	10.709	2
75	MP3A	Mx	-.004	2
76	MP3A	X	6.183	4
77	MP3A	Z	10.709	4
78	MP3A	Mx	-.004	4
79	MP3B	X	6.94	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP3B	Z	12.021	2
81	MP3B	Mx	-.003	2
82	MP3B	X	6.94	4
83	MP3B	Z	12.021	4
84	MP3B	Mx	-.003	4
85	MP3C	X	3.458	2
86	MP3C	Z	5.989	2
87	MP3C	Mx	.003	2
88	MP3C	X	3.458	4
89	MP3C	Z	5.989	4
90	MP3C	Mx	.003	4
91	MP1A	X	6.774	2
92	MP1A	Z	11.733	2
93	MP1A	Mx	-.001	2
94	MP1B	X	6.774	2
95	MP1B	Z	11.733	2
96	MP1B	Mx	-.001	2
97	MP1C	X	6.774	2
98	MP1C	Z	11.733	2
99	MP1C	Mx	-.001	2
100	MP2A	X	6.75	2
101	MP2A	Z	11.691	2
102	MP2A	Mx	-.001	2
103	MP2B	X	6.75	2
104	MP2B	Z	11.691	2
105	MP2B	Mx	-.001	2
106	MP2C	X	6.75	2
107	MP2C	Z	11.691	2
108	MP2C	Mx	-.001	2
109	MP2A	X	1.654	4
110	MP2A	Z	2.865	4
111	MP2A	Mx	0	4
112	MP2B	X	1.654	4
113	MP2B	Z	2.865	4
114	MP2B	Mx	0	4
115	MP2C	X	1.654	4
116	MP2C	Z	2.865	4
117	MP2C	Mx	0	4
118	M31	X	13.942	1
119	M31	Z	24.148	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	31.845	.5
3	MP1A	Mx	-.003	.5
4	MP1A	X	0	5.5
5	MP1A	Z	31.845	5.5
6	MP1A	Mx	-.003	5.5
7	MP1B	X	0	.5
8	MP1B	Z	29.54	.5
9	MP1B	Mx	-.013	.5
10	MP1B	X	0	5.5
11	MP1B	Z	29.54	5.5
12	MP1B	Mx	-.013	5.5
13	MP1C	X	0	.5
14	MP1C	Z	28.836	.5
15	MP1C	Mx	.014	.5
16	MP1C	X	0	5.5
17	MP1C	Z	28.836	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1C	Mx	.014	5.5
19	MP4A	X	0	.5
20	MP4A	Z	31.845	.5
21	MP4A	Mx	-.003	.5
22	MP4A	X	0	5.5
23	MP4A	Z	31.845	5.5
24	MP4A	Mx	-.003	5.5
25	MP4B	X	0	.5
26	MP4B	Z	29.54	.5
27	MP4B	Mx	-.013	.5
28	MP4B	X	0	5.5
29	MP4B	Z	29.54	5.5
30	MP4B	Mx	-.013	5.5
31	MP4C	X	0	.5
32	MP4C	Z	28.836	.5
33	MP4C	Mx	.014	.5
34	MP4C	X	0	5.5
35	MP4C	Z	28.836	5.5
36	MP4C	Mx	.014	5.5
37	MP2A	X	0	.5
38	MP2A	Z	29.315	.5
39	MP2A	Mx	-.012	.5
40	MP2A	X	0	5.5
41	MP2A	Z	29.315	5.5
42	MP2A	Mx	-.012	5.5
43	MP2B	X	0	.5
44	MP2B	Z	29.315	.5
45	MP2B	Mx	-.012	.5
46	MP2B	X	0	5.5
47	MP2B	Z	29.315	5.5
48	MP2B	Mx	-.012	5.5
49	MP2C	X	0	.5
50	MP2C	Z	29.315	.5
51	MP2C	Mx	-.012	.5
52	MP2C	X	0	5.5
53	MP2C	Z	29.315	5.5
54	MP2C	Mx	-.012	5.5
55	MP2A	X	0	.5
56	MP2A	Z	29.315	.5
57	MP2A	Mx	.022	.5
58	MP2A	X	0	5.5
59	MP2A	Z	29.315	5.5
60	MP2A	Mx	.022	5.5
61	MP2B	X	0	.5
62	MP2B	Z	29.315	.5
63	MP2B	Mx	.022	.5
64	MP2B	X	0	5.5
65	MP2B	Z	29.315	5.5
66	MP2B	Mx	.022	5.5
67	MP2C	X	0	.5
68	MP2C	Z	29.315	.5
69	MP2C	Mx	.022	.5
70	MP2C	X	0	5.5
71	MP2C	Z	29.315	5.5
72	MP2C	Mx	.022	5.5
73	MP3A	X	0	2
74	MP3A	Z	15.923	2
75	MP3A	Mx	-.001	2
76	MP3A	X	0	4
77	MP3A	Z	15.923	4
78	MP3A	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP3B	X	0	2
80	MP3B	Z	9.237	2
81	MP3B	Mx	-.004	2
82	MP3B	X	0	4
83	MP3B	Z	9.237	4
84	MP3B	Mx	-.004	4
85	MP3C	X	0	2
86	MP3C	Z	9.237	2
87	MP3C	Mx	.004	2
88	MP3C	X	0	4
89	MP3C	Z	9.237	4
90	MP3C	Mx	.004	4
91	MP1A	X	0	2
92	MP1A	Z	13.187	2
93	MP1A	Mx	.002	2
94	MP1B	X	0	2
95	MP1B	Z	13.187	2
96	MP1B	Mx	.002	2
97	MP1C	X	0	2
98	MP1C	Z	13.187	2
99	MP1C	Mx	.002	2
100	MP2A	X	0	2
101	MP2A	Z	13.002	2
102	MP2A	Mx	.002	2
103	MP2B	X	0	2
104	MP2B	Z	13.002	2
105	MP2B	Mx	.002	2
106	MP2C	X	0	2
107	MP2C	Z	13.002	2
108	MP2C	Mx	.002	2
109	MP2A	X	0	4
110	MP2A	Z	3.237	4
111	MP2A	Mx	0	4
112	MP2B	X	0	4
113	MP2B	Z	3.237	4
114	MP2B	Mx	0	4
115	MP2C	X	0	4
116	MP2C	Z	3.237	4
117	MP2C	Mx	0	4
118	M31	X	0	1
119	M31	Z	27.353	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-15.783	.5
2	MP1A	Z	27.338	.5
3	MP1A	Mx	.005	.5
4	MP1A	X	-15.783	5.5
5	MP1A	Z	27.338	5.5
6	MP1A	Mx	.005	5.5
7	MP1B	X	-14.37	.5
8	MP1B	Z	24.889	.5
9	MP1B	Mx	-.014	.5
10	MP1B	X	-14.37	5.5
11	MP1B	Z	24.889	5.5
12	MP1B	Mx	-.014	5.5
13	MP1C	X	-14.557	.5
14	MP1C	Z	25.213	.5
15	MP1C	Mx	.014	.5
16	MP1C	X	-14.557	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP1C	Z	25.213	5.5
18	MP1C	Mx	.014	5.5
19	MP4A	X	-15.783	.5
20	MP4A	Z	27.338	.5
21	MP4A	Mx	.005	.5
22	MP4A	X	-15.783	5.5
23	MP4A	Z	27.338	5.5
24	MP4A	Mx	.005	5.5
25	MP4B	X	-14.37	.5
26	MP4B	Z	24.889	.5
27	MP4B	Mx	-.014	.5
28	MP4B	X	-14.37	5.5
29	MP4B	Z	24.889	5.5
30	MP4B	Mx	-.014	5.5
31	MP4C	X	-14.557	.5
32	MP4C	Z	25.213	.5
33	MP4C	Mx	.014	.5
34	MP4C	X	-14.557	5.5
35	MP4C	Z	25.213	5.5
36	MP4C	Mx	.014	5.5
37	MP2A	X	-12.388	.5
38	MP2A	Z	21.457	.5
39	MP2A	Mx	-.000464	.5
40	MP2A	X	-12.388	5.5
41	MP2A	Z	21.457	5.5
42	MP2A	Mx	-.000464	5.5
43	MP2B	X	-12.388	.5
44	MP2B	Z	21.457	.5
45	MP2B	Mx	-.000464	.5
46	MP2B	X	-12.388	5.5
47	MP2B	Z	21.457	5.5
48	MP2B	Mx	-.000464	5.5
49	MP2C	X	-12.388	.5
50	MP2C	Z	21.457	.5
51	MP2C	Mx	-.000464	.5
52	MP2C	X	-12.388	5.5
53	MP2C	Z	21.457	5.5
54	MP2C	Mx	-.000464	5.5
55	MP2A	X	-12.388	.5
56	MP2A	Z	21.457	.5
57	MP2A	Mx	.019	.5
58	MP2A	X	-12.388	5.5
59	MP2A	Z	21.457	5.5
60	MP2A	Mx	.019	5.5
61	MP2B	X	-12.388	.5
62	MP2B	Z	21.457	.5
63	MP2B	Mx	.019	.5
64	MP2B	X	-12.388	5.5
65	MP2B	Z	21.457	5.5
66	MP2B	Mx	.019	5.5
67	MP2C	X	-12.388	.5
68	MP2C	Z	21.457	.5
69	MP2C	Mx	.019	.5
70	MP2C	X	-12.388	5.5
71	MP2C	Z	21.457	5.5
72	MP2C	Mx	.019	5.5
73	MP3A	X	-7.558	2
74	MP3A	Z	13.091	2
75	MP3A	Mx	.003	2
76	MP3A	X	-7.558	4
77	MP3A	Z	13.091	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3A	Mx	.003	4
79	MP3B	X	-3.458	2
80	MP3B	Z	5.989	2
81	MP3B	Mx	-.003	2
82	MP3B	X	-3.458	4
83	MP3B	Z	5.989	4
84	MP3B	Mx	-.003	4
85	MP3C	X	-6.94	2
86	MP3C	Z	12.021	2
87	MP3C	Mx	.003	2
88	MP3C	X	-6.94	4
89	MP3C	Z	12.021	4
90	MP3C	Mx	.003	4
91	MP1A	X	-5.618	2
92	MP1A	Z	9.73	2
93	MP1A	Mx	.004	2
94	MP1B	X	-5.618	2
95	MP1B	Z	9.73	2
96	MP1B	Mx	.004	2
97	MP1C	X	-5.618	2
98	MP1C	Z	9.73	2
99	MP1C	Mx	.004	2
100	MP2A	X	-5.155	2
101	MP2A	Z	8.928	2
102	MP2A	Mx	.004	2
103	MP2B	X	-5.155	2
104	MP2B	Z	8.928	2
105	MP2B	Mx	.004	2
106	MP2C	X	-5.155	2
107	MP2C	Z	8.928	2
108	MP2C	Mx	.004	2
109	MP2A	X	-1.424	4
110	MP2A	Z	2.466	4
111	MP2A	Mx	0	4
112	MP2B	X	-1.424	4
113	MP2B	Z	2.466	4
114	MP2B	Mx	0	4
115	MP2C	X	-1.424	4
116	MP2C	Z	2.466	4
117	MP2C	Mx	0	4
118	M31	X	-12.241	1
119	M31	Z	21.203	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-26.035	.5
2	MP1A	Z	15.031	.5
3	MP1A	Mx	.012	.5
4	MP1A	X	-26.035	5.5
5	MP1A	Z	15.031	5.5
6	MP1A	Mx	.012	5.5
7	MP1B	X	-25.582	.5
8	MP1B	Z	14.77	.5
9	MP1B	Mx	-.013	.5
10	MP1B	X	-25.582	5.5
11	MP1B	Z	14.77	5.5
12	MP1B	Mx	-.013	5.5
13	MP1C	X	-26.516	.5
14	MP1C	Z	15.309	.5
15	MP1C	Mx	.01	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1C	X	-26.516	5.5
17	MP1C	Z	15.309	5.5
18	MP1C	Mx	.01	5.5
19	MP4A	X	-26.035	.5
20	MP4A	Z	15.031	.5
21	MP4A	Mx	.012	.5
22	MP4A	X	-26.035	5.5
23	MP4A	Z	15.031	5.5
24	MP4A	Mx	.012	5.5
25	MP4B	X	-25.582	.5
26	MP4B	Z	14.77	.5
27	MP4B	Mx	-.013	.5
28	MP4B	X	-25.582	5.5
29	MP4B	Z	14.77	5.5
30	MP4B	Mx	-.013	5.5
31	MP4C	X	-26.516	.5
32	MP4C	Z	15.309	.5
33	MP4C	Mx	.01	.5
34	MP4C	X	-26.516	5.5
35	MP4C	Z	15.309	5.5
36	MP4C	Mx	.01	5.5
37	MP2A	X	-18.253	.5
38	MP2A	Z	10.538	.5
39	MP2A	Mx	.008	.5
40	MP2A	X	-18.253	5.5
41	MP2A	Z	10.538	5.5
42	MP2A	Mx	.008	5.5
43	MP2B	X	-18.253	.5
44	MP2B	Z	10.538	.5
45	MP2B	Mx	.008	.5
46	MP2B	X	-18.253	5.5
47	MP2B	Z	10.538	5.5
48	MP2B	Mx	.008	5.5
49	MP2C	X	-18.253	.5
50	MP2C	Z	10.538	.5
51	MP2C	Mx	.008	.5
52	MP2C	X	-18.253	5.5
53	MP2C	Z	10.538	5.5
54	MP2C	Mx	.008	5.5
55	MP2A	X	-18.253	.5
56	MP2A	Z	10.538	.5
57	MP2A	Mx	.013	.5
58	MP2A	X	-18.253	5.5
59	MP2A	Z	10.538	5.5
60	MP2A	Mx	.013	5.5
61	MP2B	X	-18.253	.5
62	MP2B	Z	10.538	.5
63	MP2B	Mx	.013	.5
64	MP2B	X	-18.253	5.5
65	MP2B	Z	10.538	5.5
66	MP2B	Mx	.013	5.5
67	MP2C	X	-18.253	.5
68	MP2C	Z	10.538	.5
69	MP2C	Mx	.013	.5
70	MP2C	X	-18.253	5.5
71	MP2C	Z	10.538	5.5
72	MP2C	Mx	.013	5.5
73	MP3A	X	-9.312	2
74	MP3A	Z	5.376	2
75	MP3A	Mx	.004	2
76	MP3A	X	-9.312	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
77	MP3A	Z	5.376	4
78	MP3A	Mx	.004	4
79	MP3B	X	-7.999	2
80	MP3B	Z	4.618	2
81	MP3B	Mx	-.004	2
82	MP3B	X	-7.999	4
83	MP3B	Z	4.618	4
84	MP3B	Mx	-.004	4
85	MP3C	X	-14.032	2
86	MP3C	Z	8.101	2
87	MP3C	Mx	0	2
88	MP3C	X	-14.032	4
89	MP3C	Z	8.101	4
90	MP3C	Mx	0	4
91	MP1A	X	-8.352	2
92	MP1A	Z	4.822	2
93	MP1A	Mx	.005	2
94	MP1B	X	-8.352	2
95	MP1B	Z	4.822	2
96	MP1B	Mx	.005	2
97	MP1C	X	-8.352	2
98	MP1C	Z	4.822	2
99	MP1C	Mx	.005	2
100	MP2A	X	-7.027	2
101	MP2A	Z	4.057	2
102	MP2A	Mx	.004	2
103	MP2B	X	-7.027	2
104	MP2B	Z	4.057	2
105	MP2B	Mx	.004	2
106	MP2C	X	-7.027	2
107	MP2C	Z	4.057	2
108	MP2C	Mx	.004	2
109	MP2A	X	-2.191	4
110	MP2A	Z	1.265	4
111	MP2A	Mx	0	4
112	MP2B	X	-2.191	4
113	MP2B	Z	1.265	4
114	MP2B	Mx	0	4
115	MP2C	X	-2.191	4
116	MP2C	Z	1.265	4
117	MP2C	Mx	0	4
118	M31	X	-19.177	1
119	M31	Z	11.072	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-28.836	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	.014	.5
4	MP1A	X	-28.836	5.5
5	MP1A	Z	0	5.5
6	MP1A	Mx	.014	5.5
7	MP1B	X	-31.141	.5
8	MP1B	Z	0	.5
9	MP1B	Mx	-.008	.5
10	MP1B	X	-31.141	5.5
11	MP1B	Z	0	5.5
12	MP1B	Mx	-.008	5.5
13	MP1C	X	-31.845	.5
14	MP1C	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP1C	Mx	.003	.5
16	MP1C	X	-31.845	5.5
17	MP1C	Z	0	5.5
18	MP1C	Mx	.003	5.5
19	MP4A	X	-28.836	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	.014	.5
22	MP4A	X	-28.836	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	.014	5.5
25	MP4B	X	-31.141	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	-.008	.5
28	MP4B	X	-31.141	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	-.008	5.5
31	MP4C	X	-31.845	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	.003	.5
34	MP4C	X	-31.845	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	.003	5.5
37	MP2A	X	-21.915	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	.015	.5
40	MP2A	X	-21.915	5.5
41	MP2A	Z	0	5.5
42	MP2A	Mx	.015	5.5
43	MP2B	X	-21.915	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	.015	.5
46	MP2B	X	-21.915	5.5
47	MP2B	Z	0	5.5
48	MP2B	Mx	.015	5.5
49	MP2C	X	-21.915	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.015	.5
52	MP2C	X	-21.915	5.5
53	MP2C	Z	0	5.5
54	MP2C	Mx	.015	5.5
55	MP2A	X	-21.915	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.006	.5
58	MP2A	X	-21.915	5.5
59	MP2A	Z	0	5.5
60	MP2A	Mx	.006	5.5
61	MP2B	X	-21.915	.5
62	MP2B	Z	0	.5
63	MP2B	Mx	.006	.5
64	MP2B	X	-21.915	5.5
65	MP2B	Z	0	5.5
66	MP2B	Mx	.006	5.5
67	MP2C	X	-21.915	.5
68	MP2C	Z	0	.5
69	MP2C	Mx	.006	.5
70	MP2C	X	-21.915	5.5
71	MP2C	Z	0	5.5
72	MP2C	Mx	.006	5.5
73	MP3A	X	-7.195	2
74	MP3A	Z	0	2
75	MP3A	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP3A	X	-7.195	4
77	MP3A	Z	0	4
78	MP3A	Mx	.004	4
79	MP3B	X	-13.881	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.003	2
82	MP3B	X	-13.881	4
83	MP3B	Z	0	4
84	MP3B	Mx	-.003	4
85	MP3C	X	-13.881	2
86	MP3C	Z	0	2
87	MP3C	Mx	-.003	2
88	MP3C	X	-13.881	4
89	MP3C	Z	0	4
90	MP3C	Mx	-.003	4
91	MP1A	X	-10.005	2
92	MP1A	Z	0	2
93	MP1A	Mx	.005	2
94	MP1B	X	-10.005	2
95	MP1B	Z	0	2
96	MP1B	Mx	.005	2
97	MP1C	X	-10.005	2
98	MP1C	Z	0	2
99	MP1C	Mx	.005	2
100	MP2A	X	-8.612	2
101	MP2A	Z	0	2
102	MP2A	Mx	.004	2
103	MP2B	X	-8.612	2
104	MP2B	Z	0	2
105	MP2B	Mx	.004	2
106	MP2C	X	-8.612	2
107	MP2C	Z	0	2
108	MP2C	Mx	.004	2
109	MP2A	X	-2.602	4
110	MP2A	Z	0	4
111	MP2A	Mx	0	4
112	MP2B	X	-2.602	4
113	MP2B	Z	0	4
114	MP2B	Mx	0	4
115	MP2C	X	-2.602	4
116	MP2C	Z	0	4
117	MP2C	Mx	0	4
118	M31	X	-22.674	1
119	M31	Z	0	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-25.213	.5
2	MP1A	Z	-14.557	.5
3	MP1A	Mx	.014	.5
4	MP1A	X	-25.213	5.5
5	MP1A	Z	-14.557	5.5
6	MP1A	Mx	.014	5.5
7	MP1B	X	-27.662	.5
8	MP1B	Z	-15.971	.5
9	MP1B	Mx	0	.5
10	MP1B	X	-27.662	5.5
11	MP1B	Z	-15.971	5.5
12	MP1B	Mx	0	5.5
13	MP1C	X	-27.338	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP1C	Z	-15.783	.5
15	MP1C	Mx	-.005	.5
16	MP1C	X	-27.338	5.5
17	MP1C	Z	-15.783	5.5
18	MP1C	Mx	-.005	5.5
19	MP4A	X	-25.213	.5
20	MP4A	Z	-14.557	.5
21	MP4A	Mx	.014	.5
22	MP4A	X	-25.213	5.5
23	MP4A	Z	-14.557	5.5
24	MP4A	Mx	.014	5.5
25	MP4B	X	-27.662	.5
26	MP4B	Z	-15.971	.5
27	MP4B	Mx	0	.5
28	MP4B	X	-27.662	5.5
29	MP4B	Z	-15.971	5.5
30	MP4B	Mx	0	5.5
31	MP4C	X	-27.338	.5
32	MP4C	Z	-15.783	.5
33	MP4C	Mx	-.005	.5
34	MP4C	X	-27.338	5.5
35	MP4C	Z	-15.783	5.5
36	MP4C	Mx	-.005	5.5
37	MP2A	X	-22.91	.5
38	MP2A	Z	-13.227	.5
39	MP2A	Mx	.021	.5
40	MP2A	X	-22.91	5.5
41	MP2A	Z	-13.227	5.5
42	MP2A	Mx	.021	5.5
43	MP2B	X	-22.91	.5
44	MP2B	Z	-13.227	.5
45	MP2B	Mx	.021	.5
46	MP2B	X	-22.91	5.5
47	MP2B	Z	-13.227	5.5
48	MP2B	Mx	.021	5.5
49	MP2C	X	-22.91	.5
50	MP2C	Z	-13.227	.5
51	MP2C	Mx	.021	.5
52	MP2C	X	-22.91	5.5
53	MP2C	Z	-13.227	5.5
54	MP2C	Mx	.021	5.5
55	MP2A	X	-22.91	.5
56	MP2A	Z	-13.227	.5
57	MP2A	Mx	-.004	.5
58	MP2A	X	-22.91	5.5
59	MP2A	Z	-13.227	5.5
60	MP2A	Mx	-.004	5.5
61	MP2B	X	-22.91	.5
62	MP2B	Z	-13.227	.5
63	MP2B	Mx	-.004	.5
64	MP2B	X	-22.91	5.5
65	MP2B	Z	-13.227	5.5
66	MP2B	Mx	-.004	5.5
67	MP2C	X	-22.91	.5
68	MP2C	Z	-13.227	.5
69	MP2C	Mx	-.004	.5
70	MP2C	X	-22.91	5.5
71	MP2C	Z	-13.227	5.5
72	MP2C	Mx	-.004	5.5
73	MP3A	X	-6.929	2
74	MP3A	Z	-4.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP3A	Mx	.004	2
76	MP3A	X	-6.929	4
77	MP3A	Z	-4.001	4
78	MP3A	Mx	.004	4
79	MP3B	X	-14.032	2
80	MP3B	Z	-8.101	2
81	MP3B	Mx	0	2
82	MP3B	X	-14.032	4
83	MP3B	Z	-8.101	4
84	MP3B	Mx	0	4
85	MP3C	X	-7.999	2
86	MP3C	Z	-4.618	2
87	MP3C	Mx	-.004	2
88	MP3C	X	-7.999	4
89	MP3C	Z	-4.618	4
90	MP3C	Mx	-.004	4
91	MP1A	X	-10.355	2
92	MP1A	Z	-5.978	2
93	MP1A	Mx	.004	2
94	MP1B	X	-10.355	2
95	MP1B	Z	-5.978	2
96	MP1B	Mx	.004	2
97	MP1C	X	-10.355	2
98	MP1C	Z	-5.978	2
99	MP1C	Mx	.004	2
100	MP2A	X	-9.79	2
101	MP2A	Z	-5.652	2
102	MP2A	Mx	.004	2
103	MP2B	X	-9.79	2
104	MP2B	Z	-5.652	2
105	MP2B	Mx	.004	2
106	MP2C	X	-9.79	2
107	MP2C	Z	-5.652	2
108	MP2C	Mx	.004	2
109	MP2A	X	-2.591	4
110	MP2A	Z	-1.496	4
111	MP2A	Mx	0	4
112	MP2B	X	-2.591	4
113	MP2B	Z	-1.496	4
114	MP2B	Mx	0	4
115	MP2C	X	-2.591	4
116	MP2C	Z	-1.496	4
117	MP2C	Mx	0	4
118	M31	X	-22.121	1
119	M31	Z	-12.772	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-15.309	.5
2	MP1A	Z	-26.516	.5
3	MP1A	Mx	.01	.5
4	MP1A	X	-15.309	5.5
5	MP1A	Z	-26.516	5.5
6	MP1A	Mx	.01	5.5
7	MP1B	X	-15.57	.5
8	MP1B	Z	-26.969	.5
9	MP1B	Mx	.008	.5
10	MP1B	X	-15.57	5.5
11	MP1B	Z	-26.969	5.5
12	MP1B	Mx	.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP1C	X	-15.031	.5
14	MP1C	Z	-26.035	.5
15	MP1C	Mx	-.012	.5
16	MP1C	X	-15.031	5.5
17	MP1C	Z	-26.035	5.5
18	MP1C	Mx	-.012	5.5
19	MP4A	X	-15.309	.5
20	MP4A	Z	-26.516	.5
21	MP4A	Mx	.01	.5
22	MP4A	X	-15.309	5.5
23	MP4A	Z	-26.516	5.5
24	MP4A	Mx	.01	5.5
25	MP4B	X	-15.57	.5
26	MP4B	Z	-26.969	.5
27	MP4B	Mx	.008	.5
28	MP4B	X	-15.57	5.5
29	MP4B	Z	-26.969	5.5
30	MP4B	Mx	.008	5.5
31	MP4C	X	-15.031	.5
32	MP4C	Z	-26.035	.5
33	MP4C	Mx	-.012	.5
34	MP4C	X	-15.031	5.5
35	MP4C	Z	-26.035	5.5
36	MP4C	Mx	-.012	5.5
37	MP2A	X	-15.077	.5
38	MP2A	Z	-26.114	.5
39	MP2A	Mx	.021	.5
40	MP2A	X	-15.077	5.5
41	MP2A	Z	-26.114	5.5
42	MP2A	Mx	.021	5.5
43	MP2B	X	-15.077	.5
44	MP2B	Z	-26.114	.5
45	MP2B	Mx	.021	.5
46	MP2B	X	-15.077	5.5
47	MP2B	Z	-26.114	5.5
48	MP2B	Mx	.021	5.5
49	MP2C	X	-15.077	.5
50	MP2C	Z	-26.114	.5
51	MP2C	Mx	.021	.5
52	MP2C	X	-15.077	5.5
53	MP2C	Z	-26.114	5.5
54	MP2C	Mx	.021	5.5
55	MP2A	X	-15.077	.5
56	MP2A	Z	-26.114	.5
57	MP2A	Mx	-.016	.5
58	MP2A	X	-15.077	5.5
59	MP2A	Z	-26.114	5.5
60	MP2A	Mx	-.016	5.5
61	MP2B	X	-15.077	.5
62	MP2B	Z	-26.114	.5
63	MP2B	Mx	-.016	.5
64	MP2B	X	-15.077	5.5
65	MP2B	Z	-26.114	5.5
66	MP2B	Mx	-.016	5.5
67	MP2C	X	-15.077	.5
68	MP2C	Z	-26.114	.5
69	MP2C	Mx	-.016	.5
70	MP2C	X	-15.077	5.5
71	MP2C	Z	-26.114	5.5
72	MP2C	Mx	-.016	5.5
73	MP3A	X	-6.183	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3A	Z	-10.709	2
75	MP3A	Mx	.004	2
76	MP3A	X	-6.183	4
77	MP3A	Z	-10.709	4
78	MP3A	Mx	.004	4
79	MP3B	X	-6.94	2
80	MP3B	Z	-12.021	2
81	MP3B	Mx	.003	2
82	MP3B	X	-6.94	4
83	MP3B	Z	-12.021	4
84	MP3B	Mx	.003	4
85	MP3C	X	-3.458	2
86	MP3C	Z	-5.989	2
87	MP3C	Mx	-.003	2
88	MP3C	X	-3.458	4
89	MP3C	Z	-5.989	4
90	MP3C	Mx	-.003	4
91	MP1A	X	-6.774	2
92	MP1A	Z	-11.733	2
93	MP1A	Mx	.001	2
94	MP1B	X	-6.774	2
95	MP1B	Z	-11.733	2
96	MP1B	Mx	.001	2
97	MP1C	X	-6.774	2
98	MP1C	Z	-11.733	2
99	MP1C	Mx	.001	2
100	MP2A	X	-6.75	2
101	MP2A	Z	-11.691	2
102	MP2A	Mx	.001	2
103	MP2B	X	-6.75	2
104	MP2B	Z	-11.691	2
105	MP2B	Mx	.001	2
106	MP2C	X	-6.75	2
107	MP2C	Z	-11.691	2
108	MP2C	Mx	.001	2
109	MP2A	X	-1.654	4
110	MP2A	Z	-2.865	4
111	MP2A	Mx	0	4
112	MP2B	X	-1.654	4
113	MP2B	Z	-2.865	4
114	MP2B	Mx	0	4
115	MP2C	X	-1.654	4
116	MP2C	Z	-2.865	4
117	MP2C	Mx	0	4
118	M31	X	-13.942	1
119	M31	Z	-24.148	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	-10.484	.5
3	MP1A	Mx	.00091	.5
4	MP1A	X	0	5.5
5	MP1A	Z	-10.484	5.5
6	MP1A	Mx	.00091	5.5
7	MP1B	X	0	.5
8	MP1B	Z	-9.676	.5
9	MP1B	Mx	.004	.5
10	MP1B	X	0	5.5
11	MP1B	Z	-9.676	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP1B	Mx	.004	5.5
13	MP1C	X	0	.5
14	MP1C	Z	-9.429	.5
15	MP1C	Mx	-.005	.5
16	MP1C	X	0	5.5
17	MP1C	Z	-9.429	5.5
18	MP1C	Mx	-.005	5.5
19	MP4A	X	0	.5
20	MP4A	Z	-10.484	.5
21	MP4A	Mx	.00091	.5
22	MP4A	X	0	5.5
23	MP4A	Z	-10.484	5.5
24	MP4A	Mx	.00091	5.5
25	MP4B	X	0	.5
26	MP4B	Z	-9.676	.5
27	MP4B	Mx	.004	.5
28	MP4B	X	0	5.5
29	MP4B	Z	-9.676	5.5
30	MP4B	Mx	.004	5.5
31	MP4C	X	0	.5
32	MP4C	Z	-9.429	.5
33	MP4C	Mx	-.005	.5
34	MP4C	X	0	5.5
35	MP4C	Z	-9.429	5.5
36	MP4C	Mx	-.005	5.5
37	MP2A	X	0	.5
38	MP2A	Z	-9.581	.5
39	MP2A	Mx	.004	.5
40	MP2A	X	0	5.5
41	MP2A	Z	-9.581	5.5
42	MP2A	Mx	.004	5.5
43	MP2B	X	0	.5
44	MP2B	Z	-9.581	.5
45	MP2B	Mx	.004	.5
46	MP2B	X	0	5.5
47	MP2B	Z	-9.581	5.5
48	MP2B	Mx	.004	5.5
49	MP2C	X	0	.5
50	MP2C	Z	-9.581	.5
51	MP2C	Mx	.004	.5
52	MP2C	X	0	5.5
53	MP2C	Z	-9.581	5.5
54	MP2C	Mx	.004	5.5
55	MP2A	X	0	.5
56	MP2A	Z	-9.581	.5
57	MP2A	Mx	-.007	.5
58	MP2A	X	0	5.5
59	MP2A	Z	-9.581	5.5
60	MP2A	Mx	-.007	5.5
61	MP2B	X	0	.5
62	MP2B	Z	-9.581	.5
63	MP2B	Mx	-.007	.5
64	MP2B	X	0	5.5
65	MP2B	Z	-9.581	5.5
66	MP2B	Mx	-.007	5.5
67	MP2C	X	0	.5
68	MP2C	Z	-9.581	.5
69	MP2C	Mx	-.007	.5
70	MP2C	X	0	5.5
71	MP2C	Z	-9.581	5.5
72	MP2C	Mx	-.007	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3A	X	0	2
74	MP3A	Z	-5.055	2
75	MP3A	Mx	.000439	2
76	MP3A	X	0	4
77	MP3A	Z	-5.055	4
78	MP3A	Mx	.000439	4
79	MP3B	X	0	2
80	MP3B	Z	-2.799	2
81	MP3B	Mx	.001	2
82	MP3B	X	0	4
83	MP3B	Z	-2.799	4
84	MP3B	Mx	.001	4
85	MP3C	X	0	2
86	MP3C	Z	-2.799	2
87	MP3C	Mx	-.001	2
88	MP3C	X	0	4
89	MP3C	Z	-2.799	4
90	MP3C	Mx	-.001	4
91	MP1A	X	0	2
92	MP1A	Z	-3.939	2
93	MP1A	Mx	-.000674	2
94	MP1B	X	0	2
95	MP1B	Z	-3.939	2
96	MP1B	Mx	-.000674	2
97	MP1C	X	0	2
98	MP1C	Z	-3.939	2
99	MP1C	Mx	-.000674	2
100	MP2A	X	0	2
101	MP2A	Z	-3.878	2
102	MP2A	Mx	-.000663	2
103	MP2B	X	0	2
104	MP2B	Z	-3.878	2
105	MP2B	Mx	-.000663	2
106	MP2C	X	0	2
107	MP2C	Z	-3.878	2
108	MP2C	Mx	-.000663	2
109	MP2A	X	0	4
110	MP2A	Z	-.782	4
111	MP2A	Mx	0	4
112	MP2B	X	0	4
113	MP2B	Z	-.782	4
114	MP2B	Mx	0	4
115	MP2C	X	0	4
116	MP2C	Z	-.782	4
117	MP2C	Mx	0	4
118	M31	X	0	1
119	M31	Z	-8.65	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.193	.5
2	MP1A	Z	-8.995	.5
3	MP1A	Mx	-.002	.5
4	MP1A	X	5.193	5.5
5	MP1A	Z	-8.995	5.5
6	MP1A	Mx	-.002	5.5
7	MP1B	X	4.697	.5
8	MP1B	Z	-8.136	.5
9	MP1B	Mx	.005	.5
10	MP1B	X	4.697	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP1B	Z	-8.136	5.5
12	MP1B	Mx	.005	5.5
13	MP1C	X	4.763	.5
14	MP1C	Z	-8.25	.5
15	MP1C	Mx	-.004	.5
16	MP1C	X	4.763	5.5
17	MP1C	Z	-8.25	5.5
18	MP1C	Mx	-.004	5.5
19	MP4A	X	5.193	.5
20	MP4A	Z	-8.995	.5
21	MP4A	Mx	-.002	.5
22	MP4A	X	5.193	5.5
23	MP4A	Z	-8.995	5.5
24	MP4A	Mx	-.002	5.5
25	MP4B	X	4.697	.5
26	MP4B	Z	-8.136	.5
27	MP4B	Mx	.005	.5
28	MP4B	X	4.697	5.5
29	MP4B	Z	-8.136	5.5
30	MP4B	Mx	.005	5.5
31	MP4C	X	4.763	.5
32	MP4C	Z	-8.25	.5
33	MP4C	Mx	-.004	.5
34	MP4C	X	4.763	5.5
35	MP4C	Z	-8.25	5.5
36	MP4C	Mx	-.004	5.5
37	MP2A	X	3.986	.5
38	MP2A	Z	-6.903	.5
39	MP2A	Mx	.000149	.5
40	MP2A	X	3.986	5.5
41	MP2A	Z	-6.903	5.5
42	MP2A	Mx	.000149	5.5
43	MP2B	X	3.986	.5
44	MP2B	Z	-6.903	.5
45	MP2B	Mx	.000149	.5
46	MP2B	X	3.986	5.5
47	MP2B	Z	-6.903	5.5
48	MP2B	Mx	.000149	5.5
49	MP2C	X	3.986	.5
50	MP2C	Z	-6.903	.5
51	MP2C	Mx	.000149	.5
52	MP2C	X	3.986	5.5
53	MP2C	Z	-6.903	5.5
54	MP2C	Mx	.000149	5.5
55	MP2A	X	3.986	.5
56	MP2A	Z	-6.903	.5
57	MP2A	Mx	-.006	.5
58	MP2A	X	3.986	5.5
59	MP2A	Z	-6.903	5.5
60	MP2A	Mx	-.006	5.5
61	MP2B	X	3.986	.5
62	MP2B	Z	-6.903	.5
63	MP2B	Mx	-.006	.5
64	MP2B	X	3.986	5.5
65	MP2B	Z	-6.903	5.5
66	MP2B	Mx	-.006	5.5
67	MP2C	X	3.986	.5
68	MP2C	Z	-6.903	.5
69	MP2C	Mx	-.006	.5
70	MP2C	X	3.986	5.5
71	MP2C	Z	-6.903	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2C	Mx	-.006	5.5
73	MP3A	X	2.392	2
74	MP3A	Z	-4.142	2
75	MP3A	Mx	-.000818	2
76	MP3A	X	2.392	4
77	MP3A	Z	-4.142	4
78	MP3A	Mx	-.000818	4
79	MP3B	X	1.008	2
80	MP3B	Z	-1.746	2
81	MP3B	Mx	.001	2
82	MP3B	X	1.008	4
83	MP3B	Z	-1.746	4
84	MP3B	Mx	.001	4
85	MP3C	X	2.183	2
86	MP3C	Z	-3.781	2
87	MP3C	Mx	-.001	2
88	MP3C	X	2.183	4
89	MP3C	Z	-3.781	4
90	MP3C	Mx	-.001	4
91	MP1A	X	1.65	2
92	MP1A	Z	-2.858	2
93	MP1A	Mx	-.001	2
94	MP1B	X	1.65	2
95	MP1B	Z	-2.858	2
96	MP1B	Mx	-.001	2
97	MP1C	X	1.65	2
98	MP1C	Z	-2.858	2
99	MP1C	Mx	-.001	2
100	MP2A	X	1.498	2
101	MP2A	Z	-2.594	2
102	MP2A	Mx	-.001	2
103	MP2B	X	1.498	2
104	MP2B	Z	-2.594	2
105	MP2B	Mx	-.001	2
106	MP2C	X	1.498	2
107	MP2C	Z	-2.594	2
108	MP2C	Mx	-.001	2
109	MP2A	X	.332	4
110	MP2A	Z	-.575	4
111	MP2A	Mx	0	4
112	MP2B	X	.332	4
113	MP2B	Z	-.575	4
114	MP2B	Mx	0	4
115	MP2C	X	.332	4
116	MP2C	Z	-.575	4
117	MP2C	Mx	0	4
118	M31	X	3.83	1
119	M31	Z	-6.633	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	8.538	.5
2	MP1A	Z	-4.93	.5
3	MP1A	Mx	-.004	.5
4	MP1A	X	8.538	5.5
5	MP1A	Z	-4.93	5.5
6	MP1A	Mx	-.004	5.5
7	MP1B	X	8.379	.5
8	MP1B	Z	-4.838	.5
9	MP1B	Mx	.004	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	X	8.379	5.5
11	MP1B	Z	-4.838	5.5
12	MP1B	Mx	.004	5.5
13	MP1C	X	8.707	.5
14	MP1C	Z	-5.027	.5
15	MP1C	Mx	-.003	.5
16	MP1C	X	8.707	5.5
17	MP1C	Z	-5.027	5.5
18	MP1C	Mx	-.003	5.5
19	MP4A	X	8.538	.5
20	MP4A	Z	-4.93	.5
21	MP4A	Mx	-.004	.5
22	MP4A	X	8.538	5.5
23	MP4A	Z	-4.93	5.5
24	MP4A	Mx	-.004	5.5
25	MP4B	X	8.379	.5
26	MP4B	Z	-4.838	.5
27	MP4B	Mx	.004	.5
28	MP4B	X	8.379	5.5
29	MP4B	Z	-4.838	5.5
30	MP4B	Mx	.004	5.5
31	MP4C	X	8.707	.5
32	MP4C	Z	-5.027	.5
33	MP4C	Mx	-.003	.5
34	MP4C	X	8.707	5.5
35	MP4C	Z	-5.027	5.5
36	MP4C	Mx	-.003	5.5
37	MP2A	X	5.767	.5
38	MP2A	Z	-3.329	.5
39	MP2A	Mx	-.003	.5
40	MP2A	X	5.767	5.5
41	MP2A	Z	-3.329	5.5
42	MP2A	Mx	-.003	5.5
43	MP2B	X	5.767	.5
44	MP2B	Z	-3.329	.5
45	MP2B	Mx	-.003	.5
46	MP2B	X	5.767	5.5
47	MP2B	Z	-3.329	5.5
48	MP2B	Mx	-.003	5.5
49	MP2C	X	5.767	.5
50	MP2C	Z	-3.329	.5
51	MP2C	Mx	-.003	.5
52	MP2C	X	5.767	5.5
53	MP2C	Z	-3.329	5.5
54	MP2C	Mx	-.003	5.5
55	MP2A	X	5.767	.5
56	MP2A	Z	-3.329	.5
57	MP2A	Mx	-.004	.5
58	MP2A	X	5.767	5.5
59	MP2A	Z	-3.329	5.5
60	MP2A	Mx	-.004	5.5
61	MP2B	X	5.767	.5
62	MP2B	Z	-3.329	.5
63	MP2B	Mx	-.004	.5
64	MP2B	X	5.767	5.5
65	MP2B	Z	-3.329	5.5
66	MP2B	Mx	-.004	5.5
67	MP2C	X	5.767	.5
68	MP2C	Z	-3.329	.5
69	MP2C	Mx	-.004	.5
70	MP2C	X	5.767	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
71	MP2C	Z	-3.329	5.5
72	MP2C	Mx	-.004	5.5
73	MP3A	X	2.867	2
74	MP3A	Z	-1.655	2
75	MP3A	Mx	-.001	2
76	MP3A	X	2.867	4
77	MP3A	Z	-1.655	4
78	MP3A	Mx	-.001	4
79	MP3B	X	2.424	2
80	MP3B	Z	-1.4	2
81	MP3B	Mx	.001	2
82	MP3B	X	2.424	4
83	MP3B	Z	-1.4	4
84	MP3B	Mx	.001	4
85	MP3C	X	4.46	2
86	MP3C	Z	-2.575	2
87	MP3C	Mx	0	2
88	MP3C	X	4.46	4
89	MP3C	Z	-2.575	4
90	MP3C	Mx	0	4
91	MP1A	X	2.408	2
92	MP1A	Z	-1.39	2
93	MP1A	Mx	-.001	2
94	MP1B	X	2.408	2
95	MP1B	Z	-1.39	2
96	MP1B	Mx	-.001	2
97	MP1C	X	2.408	2
98	MP1C	Z	-1.39	2
99	MP1C	Mx	-.001	2
100	MP2A	X	1.971	2
101	MP2A	Z	-1.138	2
102	MP2A	Mx	-.001	2
103	MP2B	X	1.971	2
104	MP2B	Z	-1.138	2
105	MP2B	Mx	-.001	2
106	MP2C	X	1.971	2
107	MP2C	Z	-1.138	2
108	MP2C	Mx	-.001	2
109	MP2A	X	.492	4
110	MP2A	Z	-.284	4
111	MP2A	Mx	0	4
112	MP2B	X	.492	4
113	MP2B	Z	-.284	4
114	MP2B	Mx	0	4
115	MP2C	X	.492	4
116	MP2C	Z	-.284	4
117	MP2C	Mx	0	4
118	M31	X	5.933	1
119	M31	Z	-3.426	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	9.429	.5
2	MP1A	Z	0	.5
3	MP1A	Mx	-.005	.5
4	MP1A	X	9.429	5.5
5	MP1A	Z	0	5.5
6	MP1A	Mx	-.005	5.5
7	MP1B	X	10.237	.5
8	MP1B	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP1B	Mx	.003	.5
10	MP1B	X	10.237	5.5
11	MP1B	Z	0	5.5
12	MP1B	Mx	.003	5.5
13	MP1C	X	10.484	.5
14	MP1C	Z	0	.5
15	MP1C	Mx	-.00091	.5
16	MP1C	X	10.484	5.5
17	MP1C	Z	0	5.5
18	MP1C	Mx	-.00091	5.5
19	MP4A	X	9.429	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	-.005	.5
22	MP4A	X	9.429	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	-.005	5.5
25	MP4B	X	10.237	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	.003	.5
28	MP4B	X	10.237	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	.003	5.5
31	MP4C	X	10.484	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	-.00091	.5
34	MP4C	X	10.484	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	-.00091	5.5
37	MP2A	X	6.956	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	-.005	.5
40	MP2A	X	6.956	5.5
41	MP2A	Z	0	5.5
42	MP2A	Mx	-.005	5.5
43	MP2B	X	6.956	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	-.005	.5
46	MP2B	X	6.956	5.5
47	MP2B	Z	0	5.5
48	MP2B	Mx	-.005	5.5
49	MP2C	X	6.956	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	-.005	.5
52	MP2C	X	6.956	5.5
53	MP2C	Z	0	5.5
54	MP2C	Mx	-.005	5.5
55	MP2A	X	6.956	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	-.002	.5
58	MP2A	X	6.956	5.5
59	MP2A	Z	0	5.5
60	MP2A	Mx	-.002	5.5
61	MP2B	X	6.956	.5
62	MP2B	Z	0	.5
63	MP2B	Mx	-.002	.5
64	MP2B	X	6.956	5.5
65	MP2B	Z	0	5.5
66	MP2B	Mx	-.002	5.5
67	MP2C	X	6.956	.5
68	MP2C	Z	0	.5
69	MP2C	Mx	-.002	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP2C	X	6.956	5.5
71	MP2C	Z	0	5.5
72	MP2C	Mx	-.002	5.5
73	MP3A	X	2.111	2
74	MP3A	Z	0	2
75	MP3A	Mx	-.001	2
76	MP3A	X	2.111	4
77	MP3A	Z	0	4
78	MP3A	Mx	-.001	4
79	MP3B	X	4.366	2
80	MP3B	Z	0	2
81	MP3B	Mx	.001	2
82	MP3B	X	4.366	4
83	MP3B	Z	0	4
84	MP3B	Mx	.001	4
85	MP3C	X	4.366	2
86	MP3C	Z	0	2
87	MP3C	Mx	.001	2
88	MP3C	X	4.366	4
89	MP3C	Z	0	4
90	MP3C	Mx	.001	4
91	MP1A	X	2.898	2
92	MP1A	Z	0	2
93	MP1A	Mx	-.001	2
94	MP1B	X	2.898	2
95	MP1B	Z	0	2
96	MP1B	Mx	-.001	2
97	MP1C	X	2.898	2
98	MP1C	Z	0	2
99	MP1C	Mx	-.001	2
100	MP2A	X	2.439	2
101	MP2A	Z	0	2
102	MP2A	Mx	-.001	2
103	MP2B	X	2.439	2
104	MP2B	Z	0	2
105	MP2B	Mx	-.001	2
106	MP2C	X	2.439	2
107	MP2C	Z	0	2
108	MP2C	Mx	-.001	2
109	MP2A	X	.59	4
110	MP2A	Z	0	4
111	MP2A	Mx	0	4
112	MP2B	X	.59	4
113	MP2B	Z	0	4
114	MP2B	Mx	0	4
115	MP2C	X	.59	4
116	MP2C	Z	0	4
117	MP2C	Mx	0	4
118	M31	X	7.034	1
119	M31	Z	0	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.25	.5
2	MP1A	Z	4.763	.5
3	MP1A	Mx	-.004	.5
4	MP1A	X	8.25	5.5
5	MP1A	Z	4.763	5.5
6	MP1A	Mx	-.004	5.5
7	MP1B	X	9.109	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	5.259	.5
9	MP1B	Mx	0	.5
10	MP1B	X	9.109	5.5
11	MP1B	Z	5.259	5.5
12	MP1B	Mx	0	5.5
13	MP1C	X	8.995	.5
14	MP1C	Z	5.193	.5
15	MP1C	Mx	.002	.5
16	MP1C	X	8.995	5.5
17	MP1C	Z	5.193	5.5
18	MP1C	Mx	.002	5.5
19	MP4A	X	8.25	.5
20	MP4A	Z	4.763	.5
21	MP4A	Mx	-.004	.5
22	MP4A	X	8.25	5.5
23	MP4A	Z	4.763	5.5
24	MP4A	Mx	-.004	5.5
25	MP4B	X	9.109	.5
26	MP4B	Z	5.259	.5
27	MP4B	Mx	0	.5
28	MP4B	X	9.109	5.5
29	MP4B	Z	5.259	5.5
30	MP4B	Mx	0	5.5
31	MP4C	X	8.995	.5
32	MP4C	Z	5.193	.5
33	MP4C	Mx	.002	.5
34	MP4C	X	8.995	5.5
35	MP4C	Z	5.193	5.5
36	MP4C	Mx	.002	5.5
37	MP2A	X	7.418	.5
38	MP2A	Z	4.283	.5
39	MP2A	Mx	-.007	.5
40	MP2A	X	7.418	5.5
41	MP2A	Z	4.283	5.5
42	MP2A	Mx	-.007	5.5
43	MP2B	X	7.418	.5
44	MP2B	Z	4.283	.5
45	MP2B	Mx	-.007	.5
46	MP2B	X	7.418	5.5
47	MP2B	Z	4.283	5.5
48	MP2B	Mx	-.007	5.5
49	MP2C	X	7.418	.5
50	MP2C	Z	4.283	.5
51	MP2C	Mx	-.007	.5
52	MP2C	X	7.418	5.5
53	MP2C	Z	4.283	5.5
54	MP2C	Mx	-.007	5.5
55	MP2A	X	7.418	.5
56	MP2A	Z	4.283	.5
57	MP2A	Mx	.001	.5
58	MP2A	X	7.418	5.5
59	MP2A	Z	4.283	5.5
60	MP2A	Mx	.001	5.5
61	MP2B	X	7.418	.5
62	MP2B	Z	4.283	.5
63	MP2B	Mx	.001	.5
64	MP2B	X	7.418	5.5
65	MP2B	Z	4.283	5.5
66	MP2B	Mx	.001	5.5
67	MP2C	X	7.418	.5
68	MP2C	Z	4.283	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP2C	Mx	.001	.5
70	MP2C	X	7.418	5.5
71	MP2C	Z	4.283	5.5
72	MP2C	Mx	.001	5.5
73	MP3A	X	2.063	2
74	MP3A	Z	1.191	2
75	MP3A	Mx	-.001	2
76	MP3A	X	2.063	4
77	MP3A	Z	1.191	4
78	MP3A	Mx	-.001	4
79	MP3B	X	4.46	2
80	MP3B	Z	2.575	2
81	MP3B	Mx	0	2
82	MP3B	X	4.46	4
83	MP3B	Z	2.575	4
84	MP3B	Mx	0	4
85	MP3C	X	2.424	2
86	MP3C	Z	1.4	2
87	MP3C	Mx	.001	2
88	MP3C	X	2.424	4
89	MP3C	Z	1.4	4
90	MP3C	Mx	.001	4
91	MP1A	X	3.063	2
92	MP1A	Z	1.768	2
93	MP1A	Mx	-.001	2
94	MP1B	X	3.063	2
95	MP1B	Z	1.768	2
96	MP1B	Mx	-.001	2
97	MP1C	X	3.063	2
98	MP1C	Z	1.768	2
99	MP1C	Mx	-.001	2
100	MP2A	X	2.876	2
101	MP2A	Z	1.661	2
102	MP2A	Mx	-.001	2
103	MP2B	X	2.876	2
104	MP2B	Z	1.661	2
105	MP2B	Mx	-.001	2
106	MP2C	X	2.876	2
107	MP2C	Z	1.661	2
108	MP2C	Mx	-.001	2
109	MP2A	X	.613	4
110	MP2A	Z	.354	4
111	MP2A	Mx	0	4
112	MP2B	X	.613	4
113	MP2B	Z	.354	4
114	MP2B	Mx	0	4
115	MP2C	X	.613	4
116	MP2C	Z	.354	4
117	MP2C	Mx	0	4
118	M31	X	6.95	1
119	M31	Z	4.013	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.027	.5
2	MP1A	Z	8.707	.5
3	MP1A	Mx	-.003	.5
4	MP1A	X	5.027	5.5
5	MP1A	Z	8.707	5.5
6	MP1A	Mx	-.003	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1B	X	5.119	.5
8	MP1B	Z	8.866	.5
9	MP1B	Mx	-.003	.5
10	MP1B	X	5.119	5.5
11	MP1B	Z	8.866	5.5
12	MP1B	Mx	-.003	5.5
13	MP1C	X	4.93	.5
14	MP1C	Z	8.538	.5
15	MP1C	Mx	.004	.5
16	MP1C	X	4.93	5.5
17	MP1C	Z	8.538	5.5
18	MP1C	Mx	.004	5.5
19	MP4A	X	5.027	.5
20	MP4A	Z	8.707	.5
21	MP4A	Mx	-.003	.5
22	MP4A	X	5.027	5.5
23	MP4A	Z	8.707	5.5
24	MP4A	Mx	-.003	5.5
25	MP4B	X	5.119	.5
26	MP4B	Z	8.866	.5
27	MP4B	Mx	-.003	.5
28	MP4B	X	5.119	5.5
29	MP4B	Z	8.866	5.5
30	MP4B	Mx	-.003	5.5
31	MP4C	X	4.93	.5
32	MP4C	Z	8.538	.5
33	MP4C	Mx	.004	.5
34	MP4C	X	4.93	5.5
35	MP4C	Z	8.538	5.5
36	MP4C	Mx	.004	5.5
37	MP2A	X	4.939	.5
38	MP2A	Z	8.555	.5
39	MP2A	Mx	-.007	.5
40	MP2A	X	4.939	5.5
41	MP2A	Z	8.555	5.5
42	MP2A	Mx	-.007	5.5
43	MP2B	X	4.939	.5
44	MP2B	Z	8.555	.5
45	MP2B	Mx	-.007	.5
46	MP2B	X	4.939	5.5
47	MP2B	Z	8.555	5.5
48	MP2B	Mx	-.007	5.5
49	MP2C	X	4.939	.5
50	MP2C	Z	8.555	.5
51	MP2C	Mx	-.007	.5
52	MP2C	X	4.939	5.5
53	MP2C	Z	8.555	5.5
54	MP2C	Mx	-.007	5.5
55	MP2A	X	4.939	.5
56	MP2A	Z	8.555	.5
57	MP2A	Mx	.005	.5
58	MP2A	X	4.939	5.5
59	MP2A	Z	8.555	5.5
60	MP2A	Mx	.005	5.5
61	MP2B	X	4.939	.5
62	MP2B	Z	8.555	.5
63	MP2B	Mx	.005	.5
64	MP2B	X	4.939	5.5
65	MP2B	Z	8.555	5.5
66	MP2B	Mx	.005	5.5
67	MP2C	X	4.939	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2C	Z	8.555	.5
69	MP2C	Mx	.005	.5
70	MP2C	X	4.939	5.5
71	MP2C	Z	8.555	5.5
72	MP2C	Mx	.005	5.5
73	MP3A	X	1.927	2
74	MP3A	Z	3.338	2
75	MP3A	Mx	-.001	2
76	MP3A	X	1.927	4
77	MP3A	Z	3.338	4
78	MP3A	Mx	-.001	4
79	MP3B	X	2.183	2
80	MP3B	Z	3.781	2
81	MP3B	Mx	-.001	2
82	MP3B	X	2.183	4
83	MP3B	Z	3.781	4
84	MP3B	Mx	-.001	4
85	MP3C	X	1.008	2
86	MP3C	Z	1.746	2
87	MP3C	Mx	.001	2
88	MP3C	X	1.008	4
89	MP3C	Z	1.746	4
90	MP3C	Mx	.001	4
91	MP1A	X	2.028	2
92	MP1A	Z	3.513	2
93	MP1A	Mx	-.000352	2
94	MP1B	X	2.028	2
95	MP1B	Z	3.513	2
96	MP1B	Mx	-.000352	2
97	MP1C	X	2.028	2
98	MP1C	Z	3.513	2
99	MP1C	Mx	-.000352	2
100	MP2A	X	2.021	2
101	MP2A	Z	3.5	2
102	MP2A	Mx	-.000351	2
103	MP2B	X	2.021	2
104	MP2B	Z	3.5	2
105	MP2B	Mx	-.000351	2
106	MP2C	X	2.021	2
107	MP2C	Z	3.5	2
108	MP2C	Mx	-.000351	2
109	MP2A	X	.402	4
110	MP2A	Z	.696	4
111	MP2A	Mx	0	4
112	MP2B	X	.402	4
113	MP2B	Z	.696	4
114	MP2B	Mx	0	4
115	MP2C	X	.402	4
116	MP2C	Z	.696	4
117	MP2C	Mx	0	4
118	M31	X	4.417	1
119	M31	Z	7.65	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.5
2	MP1A	Z	10.484	.5
3	MP1A	Mx	-.00091	.5
4	MP1A	X	0	5.5
5	MP1A	Z	10.484	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP1A	Mx	-0.0091	5.5
7	MP1B	X	0	.5
8	MP1B	Z	9.676	.5
9	MP1B	Mx	-.004	.5
10	MP1B	X	0	5.5
11	MP1B	Z	9.676	5.5
12	MP1B	Mx	-.004	5.5
13	MP1C	X	0	.5
14	MP1C	Z	9.429	.5
15	MP1C	Mx	.005	.5
16	MP1C	X	0	5.5
17	MP1C	Z	9.429	5.5
18	MP1C	Mx	.005	5.5
19	MP4A	X	0	.5
20	MP4A	Z	10.484	.5
21	MP4A	Mx	-0.0091	.5
22	MP4A	X	0	5.5
23	MP4A	Z	10.484	5.5
24	MP4A	Mx	-0.0091	5.5
25	MP4B	X	0	.5
26	MP4B	Z	9.676	.5
27	MP4B	Mx	-.004	.5
28	MP4B	X	0	5.5
29	MP4B	Z	9.676	5.5
30	MP4B	Mx	-.004	5.5
31	MP4C	X	0	.5
32	MP4C	Z	9.429	.5
33	MP4C	Mx	.005	.5
34	MP4C	X	0	5.5
35	MP4C	Z	9.429	5.5
36	MP4C	Mx	.005	5.5
37	MP2A	X	0	.5
38	MP2A	Z	9.581	.5
39	MP2A	Mx	-.004	.5
40	MP2A	X	0	5.5
41	MP2A	Z	9.581	5.5
42	MP2A	Mx	-.004	5.5
43	MP2B	X	0	.5
44	MP2B	Z	9.581	.5
45	MP2B	Mx	-.004	.5
46	MP2B	X	0	5.5
47	MP2B	Z	9.581	5.5
48	MP2B	Mx	-.004	5.5
49	MP2C	X	0	.5
50	MP2C	Z	9.581	.5
51	MP2C	Mx	-.004	.5
52	MP2C	X	0	5.5
53	MP2C	Z	9.581	5.5
54	MP2C	Mx	-.004	5.5
55	MP2A	X	0	.5
56	MP2A	Z	9.581	.5
57	MP2A	Mx	.007	.5
58	MP2A	X	0	5.5
59	MP2A	Z	9.581	5.5
60	MP2A	Mx	.007	5.5
61	MP2B	X	0	.5
62	MP2B	Z	9.581	.5
63	MP2B	Mx	.007	.5
64	MP2B	X	0	5.5
65	MP2B	Z	9.581	5.5
66	MP2B	Mx	.007	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
67	MP2C	X	0	.5
68	MP2C	Z	9.581	.5
69	MP2C	Mx	.007	.5
70	MP2C	X	0	5.5
71	MP2C	Z	9.581	5.5
72	MP2C	Mx	.007	5.5
73	MP3A	X	0	2
74	MP3A	Z	5.055	2
75	MP3A	Mx	-.000439	2
76	MP3A	X	0	4
77	MP3A	Z	5.055	4
78	MP3A	Mx	-.000439	4
79	MP3B	X	0	2
80	MP3B	Z	2.799	2
81	MP3B	Mx	-.001	2
82	MP3B	X	0	4
83	MP3B	Z	2.799	4
84	MP3B	Mx	-.001	4
85	MP3C	X	0	2
86	MP3C	Z	2.799	2
87	MP3C	Mx	.001	2
88	MP3C	X	0	4
89	MP3C	Z	2.799	4
90	MP3C	Mx	.001	4
91	MP1A	X	0	2
92	MP1A	Z	3.939	2
93	MP1A	Mx	.000674	2
94	MP1B	X	0	2
95	MP1B	Z	3.939	2
96	MP1B	Mx	.000674	2
97	MP1C	X	0	2
98	MP1C	Z	3.939	2
99	MP1C	Mx	.000674	2
100	MP2A	X	0	2
101	MP2A	Z	3.878	2
102	MP2A	Mx	.000663	2
103	MP2B	X	0	2
104	MP2B	Z	3.878	2
105	MP2B	Mx	.000663	2
106	MP2C	X	0	2
107	MP2C	Z	3.878	2
108	MP2C	Mx	.000663	2
109	MP2A	X	0	4
110	MP2A	Z	.782	4
111	MP2A	Mx	0	4
112	MP2B	X	0	4
113	MP2B	Z	.782	4
114	MP2B	Mx	0	4
115	MP2C	X	0	4
116	MP2C	Z	.782	4
117	MP2C	Mx	0	4
118	M31	X	0	1
119	M31	Z	8.65	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-5.193	.5
2	MP1A	Z	8.995	.5
3	MP1A	Mx	.002	.5
4	MP1A	X	-5.193	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP1A	Z	8.995	5.5
6	MP1A	Mx	.002	5.5
7	MP1B	X	-4.697	.5
8	MP1B	Z	8.136	.5
9	MP1B	Mx	-.005	.5
10	MP1B	X	-4.697	5.5
11	MP1B	Z	8.136	5.5
12	MP1B	Mx	-.005	5.5
13	MP1C	X	-4.763	.5
14	MP1C	Z	8.25	.5
15	MP1C	Mx	.004	.5
16	MP1C	X	-4.763	5.5
17	MP1C	Z	8.25	5.5
18	MP1C	Mx	.004	5.5
19	MP4A	X	-5.193	.5
20	MP4A	Z	8.995	.5
21	MP4A	Mx	.002	.5
22	MP4A	X	-5.193	5.5
23	MP4A	Z	8.995	5.5
24	MP4A	Mx	.002	5.5
25	MP4B	X	-4.697	.5
26	MP4B	Z	8.136	.5
27	MP4B	Mx	-.005	.5
28	MP4B	X	-4.697	5.5
29	MP4B	Z	8.136	5.5
30	MP4B	Mx	-.005	5.5
31	MP4C	X	-4.763	.5
32	MP4C	Z	8.25	.5
33	MP4C	Mx	.004	.5
34	MP4C	X	-4.763	5.5
35	MP4C	Z	8.25	5.5
36	MP4C	Mx	.004	5.5
37	MP2A	X	-3.986	.5
38	MP2A	Z	6.903	.5
39	MP2A	Mx	-.000149	.5
40	MP2A	X	-3.986	5.5
41	MP2A	Z	6.903	5.5
42	MP2A	Mx	-.000149	5.5
43	MP2B	X	-3.986	.5
44	MP2B	Z	6.903	.5
45	MP2B	Mx	-.000149	.5
46	MP2B	X	-3.986	5.5
47	MP2B	Z	6.903	5.5
48	MP2B	Mx	-.000149	5.5
49	MP2C	X	-3.986	.5
50	MP2C	Z	6.903	.5
51	MP2C	Mx	-.000149	.5
52	MP2C	X	-3.986	5.5
53	MP2C	Z	6.903	5.5
54	MP2C	Mx	-.000149	5.5
55	MP2A	X	-3.986	.5
56	MP2A	Z	6.903	.5
57	MP2A	Mx	.006	.5
58	MP2A	X	-3.986	5.5
59	MP2A	Z	6.903	5.5
60	MP2A	Mx	.006	5.5
61	MP2B	X	-3.986	.5
62	MP2B	Z	6.903	.5
63	MP2B	Mx	.006	.5
64	MP2B	X	-3.986	5.5
65	MP2B	Z	6.903	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP2B	Mx	.006	5.5
67	MP2C	X	-3.986	.5
68	MP2C	Z	6.903	.5
69	MP2C	Mx	.006	.5
70	MP2C	X	-3.986	5.5
71	MP2C	Z	6.903	5.5
72	MP2C	Mx	.006	5.5
73	MP3A	X	-2.392	2
74	MP3A	Z	4.142	2
75	MP3A	Mx	.000818	2
76	MP3A	X	-2.392	4
77	MP3A	Z	4.142	4
78	MP3A	Mx	.000818	4
79	MP3B	X	-1.008	2
80	MP3B	Z	1.746	2
81	MP3B	Mx	-.001	2
82	MP3B	X	-1.008	4
83	MP3B	Z	1.746	4
84	MP3B	Mx	-.001	4
85	MP3C	X	-2.183	2
86	MP3C	Z	3.781	2
87	MP3C	Mx	.001	2
88	MP3C	X	-2.183	4
89	MP3C	Z	3.781	4
90	MP3C	Mx	.001	4
91	MP1A	X	-1.65	2
92	MP1A	Z	2.858	2
93	MP1A	Mx	.001	2
94	MP1B	X	-1.65	2
95	MP1B	Z	2.858	2
96	MP1B	Mx	.001	2
97	MP1C	X	-1.65	2
98	MP1C	Z	2.858	2
99	MP1C	Mx	.001	2
100	MP2A	X	-1.498	2
101	MP2A	Z	2.594	2
102	MP2A	Mx	.001	2
103	MP2B	X	-1.498	2
104	MP2B	Z	2.594	2
105	MP2B	Mx	.001	2
106	MP2C	X	-1.498	2
107	MP2C	Z	2.594	2
108	MP2C	Mx	.001	2
109	MP2A	X	-.332	4
110	MP2A	Z	.575	4
111	MP2A	Mx	0	4
112	MP2B	X	-.332	4
113	MP2B	Z	.575	4
114	MP2B	Mx	0	4
115	MP2C	X	-.332	4
116	MP2C	Z	.575	4
117	MP2C	Mx	0	4
118	M31	X	-3.83	1
119	M31	Z	6.633	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.538	.5
2	MP1A	Z	4.93	.5
3	MP1A	Mx	.004	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP1A	X	-8.538	5.5
5	MP1A	Z	4.93	5.5
6	MP1A	Mx	.004	5.5
7	MP1B	X	-8.379	.5
8	MP1B	Z	4.838	.5
9	MP1B	Mx	-.004	.5
10	MP1B	X	-8.379	5.5
11	MP1B	Z	4.838	5.5
12	MP1B	Mx	-.004	5.5
13	MP1C	X	-8.707	.5
14	MP1C	Z	5.027	.5
15	MP1C	Mx	.003	.5
16	MP1C	X	-8.707	5.5
17	MP1C	Z	5.027	5.5
18	MP1C	Mx	.003	5.5
19	MP4A	X	-8.538	.5
20	MP4A	Z	4.93	.5
21	MP4A	Mx	.004	.5
22	MP4A	X	-8.538	5.5
23	MP4A	Z	4.93	5.5
24	MP4A	Mx	.004	5.5
25	MP4B	X	-8.379	.5
26	MP4B	Z	4.838	.5
27	MP4B	Mx	-.004	.5
28	MP4B	X	-8.379	5.5
29	MP4B	Z	4.838	5.5
30	MP4B	Mx	-.004	5.5
31	MP4C	X	-8.707	.5
32	MP4C	Z	5.027	.5
33	MP4C	Mx	.003	.5
34	MP4C	X	-8.707	5.5
35	MP4C	Z	5.027	5.5
36	MP4C	Mx	.003	5.5
37	MP2A	X	-5.767	.5
38	MP2A	Z	3.329	.5
39	MP2A	Mx	.003	.5
40	MP2A	X	-5.767	5.5
41	MP2A	Z	3.329	5.5
42	MP2A	Mx	.003	5.5
43	MP2B	X	-5.767	.5
44	MP2B	Z	3.329	.5
45	MP2B	Mx	.003	.5
46	MP2B	X	-5.767	5.5
47	MP2B	Z	3.329	5.5
48	MP2B	Mx	.003	5.5
49	MP2C	X	-5.767	.5
50	MP2C	Z	3.329	.5
51	MP2C	Mx	.003	.5
52	MP2C	X	-5.767	5.5
53	MP2C	Z	3.329	5.5
54	MP2C	Mx	.003	5.5
55	MP2A	X	-5.767	.5
56	MP2A	Z	3.329	.5
57	MP2A	Mx	.004	.5
58	MP2A	X	-5.767	5.5
59	MP2A	Z	3.329	5.5
60	MP2A	Mx	.004	5.5
61	MP2B	X	-5.767	.5
62	MP2B	Z	3.329	.5
63	MP2B	Mx	.004	.5
64	MP2B	X	-5.767	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP2B	Z	3.329	5.5
66	MP2B	Mx	.004	5.5
67	MP2C	X	-5.767	.5
68	MP2C	Z	3.329	.5
69	MP2C	Mx	.004	.5
70	MP2C	X	-5.767	5.5
71	MP2C	Z	3.329	5.5
72	MP2C	Mx	.004	5.5
73	MP3A	X	-2.867	2
74	MP3A	Z	1.655	2
75	MP3A	Mx	.001	2
76	MP3A	X	-2.867	4
77	MP3A	Z	1.655	4
78	MP3A	Mx	.001	4
79	MP3B	X	-2.424	2
80	MP3B	Z	1.4	2
81	MP3B	Mx	-.001	2
82	MP3B	X	-2.424	4
83	MP3B	Z	1.4	4
84	MP3B	Mx	-.001	4
85	MP3C	X	-4.46	2
86	MP3C	Z	2.575	2
87	MP3C	Mx	0	2
88	MP3C	X	-4.46	4
89	MP3C	Z	2.575	4
90	MP3C	Mx	0	4
91	MP1A	X	-2.408	2
92	MP1A	Z	1.39	2
93	MP1A	Mx	.001	2
94	MP1B	X	-2.408	2
95	MP1B	Z	1.39	2
96	MP1B	Mx	.001	2
97	MP1C	X	-2.408	2
98	MP1C	Z	1.39	2
99	MP1C	Mx	.001	2
100	MP2A	X	-1.971	2
101	MP2A	Z	1.138	2
102	MP2A	Mx	.001	2
103	MP2B	X	-1.971	2
104	MP2B	Z	1.138	2
105	MP2B	Mx	.001	2
106	MP2C	X	-1.971	2
107	MP2C	Z	1.138	2
108	MP2C	Mx	.001	2
109	MP2A	X	-4.92	4
110	MP2A	Z	.284	4
111	MP2A	Mx	0	4
112	MP2B	X	-4.92	4
113	MP2B	Z	.284	4
114	MP2B	Mx	0	4
115	MP2C	X	-4.92	4
116	MP2C	Z	.284	4
117	MP2C	Mx	0	4
118	M31	X	-5.933	1
119	M31	Z	3.426	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-9.429	.5
2	MP1A	Z	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP1A	Mx	.005	.5
4	MP1A	X	-9.429	5.5
5	MP1A	Z	0	5.5
6	MP1A	Mx	.005	5.5
7	MP1B	X	-10.237	.5
8	MP1B	Z	0	.5
9	MP1B	Mx	-.003	.5
10	MP1B	X	-10.237	5.5
11	MP1B	Z	0	5.5
12	MP1B	Mx	-.003	5.5
13	MP1C	X	-10.484	.5
14	MP1C	Z	0	.5
15	MP1C	Mx	.00091	.5
16	MP1C	X	-10.484	5.5
17	MP1C	Z	0	5.5
18	MP1C	Mx	.00091	5.5
19	MP4A	X	-9.429	.5
20	MP4A	Z	0	.5
21	MP4A	Mx	.005	.5
22	MP4A	X	-9.429	5.5
23	MP4A	Z	0	5.5
24	MP4A	Mx	.005	5.5
25	MP4B	X	-10.237	.5
26	MP4B	Z	0	.5
27	MP4B	Mx	-.003	.5
28	MP4B	X	-10.237	5.5
29	MP4B	Z	0	5.5
30	MP4B	Mx	-.003	5.5
31	MP4C	X	-10.484	.5
32	MP4C	Z	0	.5
33	MP4C	Mx	.00091	.5
34	MP4C	X	-10.484	5.5
35	MP4C	Z	0	5.5
36	MP4C	Mx	.00091	5.5
37	MP2A	X	-6.956	.5
38	MP2A	Z	0	.5
39	MP2A	Mx	.005	.5
40	MP2A	X	-6.956	5.5
41	MP2A	Z	0	5.5
42	MP2A	Mx	.005	5.5
43	MP2B	X	-6.956	.5
44	MP2B	Z	0	.5
45	MP2B	Mx	.005	.5
46	MP2B	X	-6.956	5.5
47	MP2B	Z	0	5.5
48	MP2B	Mx	.005	5.5
49	MP2C	X	-6.956	.5
50	MP2C	Z	0	.5
51	MP2C	Mx	.005	.5
52	MP2C	X	-6.956	5.5
53	MP2C	Z	0	5.5
54	MP2C	Mx	.005	5.5
55	MP2A	X	-6.956	.5
56	MP2A	Z	0	.5
57	MP2A	Mx	.002	.5
58	MP2A	X	-6.956	5.5
59	MP2A	Z	0	5.5
60	MP2A	Mx	.002	5.5
61	MP2B	X	-6.956	.5
62	MP2B	Z	0	.5
63	MP2B	Mx	.002	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP2B	X	-6.956	5.5
65	MP2B	Z	0	5.5
66	MP2B	Mx	.002	5.5
67	MP2C	X	-6.956	.5
68	MP2C	Z	0	.5
69	MP2C	Mx	.002	.5
70	MP2C	X	-6.956	5.5
71	MP2C	Z	0	5.5
72	MP2C	Mx	.002	5.5
73	MP3A	X	-2.111	2
74	MP3A	Z	0	2
75	MP3A	Mx	.001	2
76	MP3A	X	-2.111	4
77	MP3A	Z	0	4
78	MP3A	Mx	.001	4
79	MP3B	X	-4.366	2
80	MP3B	Z	0	2
81	MP3B	Mx	-.001	2
82	MP3B	X	-4.366	4
83	MP3B	Z	0	4
84	MP3B	Mx	-.001	4
85	MP3C	X	-4.366	2
86	MP3C	Z	0	2
87	MP3C	Mx	-.001	2
88	MP3C	X	-4.366	4
89	MP3C	Z	0	4
90	MP3C	Mx	-.001	4
91	MP1A	X	-2.898	2
92	MP1A	Z	0	2
93	MP1A	Mx	.001	2
94	MP1B	X	-2.898	2
95	MP1B	Z	0	2
96	MP1B	Mx	.001	2
97	MP1C	X	-2.898	2
98	MP1C	Z	0	2
99	MP1C	Mx	.001	2
100	MP2A	X	-2.439	2
101	MP2A	Z	0	2
102	MP2A	Mx	.001	2
103	MP2B	X	-2.439	2
104	MP2B	Z	0	2
105	MP2B	Mx	.001	2
106	MP2C	X	-2.439	2
107	MP2C	Z	0	2
108	MP2C	Mx	.001	2
109	MP2A	X	-.59	4
110	MP2A	Z	0	4
111	MP2A	Mx	0	4
112	MP2B	X	-.59	4
113	MP2B	Z	0	4
114	MP2B	Mx	0	4
115	MP2C	X	-.59	4
116	MP2C	Z	0	4
117	MP2C	Mx	0	4
118	M31	X	-7.034	1
119	M31	Z	0	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.25	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP1A	Z	-4.763	.5
3	MP1A	Mx	.004	.5
4	MP1A	X	-8.25	5.5
5	MP1A	Z	-4.763	5.5
6	MP1A	Mx	.004	5.5
7	MP1B	X	-9.109	.5
8	MP1B	Z	-5.259	.5
9	MP1B	Mx	0	.5
10	MP1B	X	-9.109	5.5
11	MP1B	Z	-5.259	5.5
12	MP1B	Mx	0	5.5
13	MP1C	X	-8.995	.5
14	MP1C	Z	-5.193	.5
15	MP1C	Mx	-.002	.5
16	MP1C	X	-8.995	5.5
17	MP1C	Z	-5.193	5.5
18	MP1C	Mx	-.002	5.5
19	MP4A	X	-8.25	.5
20	MP4A	Z	-4.763	.5
21	MP4A	Mx	.004	.5
22	MP4A	X	-8.25	5.5
23	MP4A	Z	-4.763	5.5
24	MP4A	Mx	.004	5.5
25	MP4B	X	-9.109	.5
26	MP4B	Z	-5.259	.5
27	MP4B	Mx	0	.5
28	MP4B	X	-9.109	5.5
29	MP4B	Z	-5.259	5.5
30	MP4B	Mx	0	5.5
31	MP4C	X	-8.995	.5
32	MP4C	Z	-5.193	.5
33	MP4C	Mx	-.002	.5
34	MP4C	X	-8.995	5.5
35	MP4C	Z	-5.193	5.5
36	MP4C	Mx	-.002	5.5
37	MP2A	X	-7.418	.5
38	MP2A	Z	-4.283	.5
39	MP2A	Mx	.007	.5
40	MP2A	X	-7.418	5.5
41	MP2A	Z	-4.283	5.5
42	MP2A	Mx	.007	5.5
43	MP2B	X	-7.418	.5
44	MP2B	Z	-4.283	.5
45	MP2B	Mx	.007	.5
46	MP2B	X	-7.418	5.5
47	MP2B	Z	-4.283	5.5
48	MP2B	Mx	.007	5.5
49	MP2C	X	-7.418	.5
50	MP2C	Z	-4.283	.5
51	MP2C	Mx	.007	.5
52	MP2C	X	-7.418	5.5
53	MP2C	Z	-4.283	5.5
54	MP2C	Mx	.007	5.5
55	MP2A	X	-7.418	.5
56	MP2A	Z	-4.283	.5
57	MP2A	Mx	-.001	.5
58	MP2A	X	-7.418	5.5
59	MP2A	Z	-4.283	5.5
60	MP2A	Mx	-.001	5.5
61	MP2B	X	-7.418	.5
62	MP2B	Z	-4.283	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2B	Mx	-.001	.5
64	MP2B	X	-7.418	5.5
65	MP2B	Z	-4.283	5.5
66	MP2B	Mx	-.001	5.5
67	MP2C	X	-7.418	.5
68	MP2C	Z	-4.283	.5
69	MP2C	Mx	-.001	.5
70	MP2C	X	-7.418	5.5
71	MP2C	Z	-4.283	5.5
72	MP2C	Mx	-.001	5.5
73	MP3A	X	-2.063	2
74	MP3A	Z	-1.191	2
75	MP3A	Mx	.001	2
76	MP3A	X	-2.063	4
77	MP3A	Z	-1.191	4
78	MP3A	Mx	.001	4
79	MP3B	X	-4.46	2
80	MP3B	Z	-2.575	2
81	MP3B	Mx	0	2
82	MP3B	X	-4.46	4
83	MP3B	Z	-2.575	4
84	MP3B	Mx	0	4
85	MP3C	X	-2.424	2
86	MP3C	Z	-1.4	2
87	MP3C	Mx	-.001	2
88	MP3C	X	-2.424	4
89	MP3C	Z	-1.4	4
90	MP3C	Mx	-.001	4
91	MP1A	X	-3.063	2
92	MP1A	Z	-1.768	2
93	MP1A	Mx	.001	2
94	MP1B	X	-3.063	2
95	MP1B	Z	-1.768	2
96	MP1B	Mx	.001	2
97	MP1C	X	-3.063	2
98	MP1C	Z	-1.768	2
99	MP1C	Mx	.001	2
100	MP2A	X	-2.876	2
101	MP2A	Z	-1.661	2
102	MP2A	Mx	.001	2
103	MP2B	X	-2.876	2
104	MP2B	Z	-1.661	2
105	MP2B	Mx	.001	2
106	MP2C	X	-2.876	2
107	MP2C	Z	-1.661	2
108	MP2C	Mx	.001	2
109	MP2A	X	-.613	4
110	MP2A	Z	-.354	4
111	MP2A	Mx	0	4
112	MP2B	X	-.613	4
113	MP2B	Z	-.354	4
114	MP2B	Mx	0	4
115	MP2C	X	-.613	4
116	MP2C	Z	-.354	4
117	MP2C	Mx	0	4
118	M31	X	-6.95	1
119	M31	Z	-4.013	1
120	M31	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.027	.5
2	MP1A	Z	-8.707	.5
3	MP1A	Mx	.003	.5
4	MP1A	X	-5.027	5.5
5	MP1A	Z	-8.707	5.5
6	MP1A	Mx	.003	5.5
7	MP1B	X	-5.119	.5
8	MP1B	Z	-8.866	.5
9	MP1B	Mx	.003	.5
10	MP1B	X	-5.119	5.5
11	MP1B	Z	-8.866	5.5
12	MP1B	Mx	.003	5.5
13	MP1C	X	-4.93	.5
14	MP1C	Z	-8.538	.5
15	MP1C	Mx	-.004	.5
16	MP1C	X	-4.93	5.5
17	MP1C	Z	-8.538	5.5
18	MP1C	Mx	-.004	5.5
19	MP4A	X	-5.027	.5
20	MP4A	Z	-8.707	.5
21	MP4A	Mx	.003	.5
22	MP4A	X	-5.027	5.5
23	MP4A	Z	-8.707	5.5
24	MP4A	Mx	.003	5.5
25	MP4B	X	-5.119	.5
26	MP4B	Z	-8.866	.5
27	MP4B	Mx	.003	.5
28	MP4B	X	-5.119	5.5
29	MP4B	Z	-8.866	5.5
30	MP4B	Mx	.003	5.5
31	MP4C	X	-4.93	.5
32	MP4C	Z	-8.538	.5
33	MP4C	Mx	-.004	.5
34	MP4C	X	-4.93	5.5
35	MP4C	Z	-8.538	5.5
36	MP4C	Mx	-.004	5.5
37	MP2A	X	-4.939	.5
38	MP2A	Z	-8.555	.5
39	MP2A	Mx	.007	.5
40	MP2A	X	-4.939	5.5
41	MP2A	Z	-8.555	5.5
42	MP2A	Mx	.007	5.5
43	MP2B	X	-4.939	.5
44	MP2B	Z	-8.555	.5
45	MP2B	Mx	.007	.5
46	MP2B	X	-4.939	5.5
47	MP2B	Z	-8.555	5.5
48	MP2B	Mx	.007	5.5
49	MP2C	X	-4.939	.5
50	MP2C	Z	-8.555	.5
51	MP2C	Mx	.007	.5
52	MP2C	X	-4.939	5.5
53	MP2C	Z	-8.555	5.5
54	MP2C	Mx	.007	5.5
55	MP2A	X	-4.939	.5
56	MP2A	Z	-8.555	.5
57	MP2A	Mx	-.005	.5
58	MP2A	X	-4.939	5.5
59	MP2A	Z	-8.555	5.5
60	MP2A	Mx	-.005	5.5
61	MP2B	X	-4.939	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP2B	Z	-8.555	.5
63	MP2B	Mx	-.005	.5
64	MP2B	X	-4.939	5.5
65	MP2B	Z	-8.555	5.5
66	MP2B	Mx	-.005	5.5
67	MP2C	X	-4.939	.5
68	MP2C	Z	-8.555	.5
69	MP2C	Mx	-.005	.5
70	MP2C	X	-4.939	5.5
71	MP2C	Z	-8.555	5.5
72	MP2C	Mx	-.005	5.5
73	MP3A	X	-1.927	2
74	MP3A	Z	-3.338	2
75	MP3A	Mx	.001	2
76	MP3A	X	-1.927	4
77	MP3A	Z	-3.338	4
78	MP3A	Mx	.001	4
79	MP3B	X	-2.183	2
80	MP3B	Z	-3.781	2
81	MP3B	Mx	.001	2
82	MP3B	X	-2.183	4
83	MP3B	Z	-3.781	4
84	MP3B	Mx	.001	4
85	MP3C	X	-1.008	2
86	MP3C	Z	-1.746	2
87	MP3C	Mx	-.001	2
88	MP3C	X	-1.008	4
89	MP3C	Z	-1.746	4
90	MP3C	Mx	-.001	4
91	MP1A	X	-2.028	2
92	MP1A	Z	-3.513	2
93	MP1A	Mx	.000352	2
94	MP1B	X	-2.028	2
95	MP1B	Z	-3.513	2
96	MP1B	Mx	.000352	2
97	MP1C	X	-2.028	2
98	MP1C	Z	-3.513	2
99	MP1C	Mx	.000352	2
100	MP2A	X	-2.021	2
101	MP2A	Z	-3.5	2
102	MP2A	Mx	.000351	2
103	MP2B	X	-2.021	2
104	MP2B	Z	-3.5	2
105	MP2B	Mx	.000351	2
106	MP2C	X	-2.021	2
107	MP2C	Z	-3.5	2
108	MP2C	Mx	.000351	2
109	MP2A	X	-.402	4
110	MP2A	Z	-.696	4
111	MP2A	Mx	0	4
112	MP2B	X	-.402	4
113	MP2B	Z	-.696	4
114	MP2B	Mx	0	4
115	MP2C	X	-.402	4
116	MP2C	Z	-.696	4
117	MP2C	Mx	0	4
118	M31	X	-4.417	1
119	M31	Z	-7.65	1
120	M31	Mx	0	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%89

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%53

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-7.818	-7.818	0	%100
2	M2	Y	-7.818	-7.818	0	%100
3	M3	Y	-7.818	-7.818	0	%100
4	M4	Y	-9.857	-9.857	0	%100
5	M5	Y	-9.857	-9.857	0	%100
6	M6	Y	-9.857	-9.857	0	%100
7	M7	Y	-10.876	-10.876	0	%100
8	M8	Y	-10.876	-10.876	0	%100
9	M9	Y	-10.876	-10.876	0	%100
10	M10	Y	-7.818	-7.818	0	%100
11	M11	Y	-7.818	-7.818	0	%100
12	M12	Y	-7.818	-7.818	0	%100
13	M13	Y	-10.351	-10.351	0	%100
14	M14	Y	-10.351	-10.351	0	%100
15	M15	Y	-10.351	-10.351	0	%100
16	M16	Y	-5.125	-5.125	0	%100
17	M17	Y	-5.125	-5.125	0	%100
18	M18	Y	-5.125	-5.125	0	%100
19	M19	Y	-6.798	-6.798	0	%100
20	M20	Y	-6.798	-6.798	0	%100
21	M21	Y	-6.798	-6.798	0	%100
22	M22	Y	-9.45	-9.45	0	%100
23	M23	Y	-9.45	-9.45	0	%100
24	M24	Y	-9.45	-9.45	0	%100
25	M25	Y	-6.798	-6.798	0	%100
26	M26	Y	-6.798	-6.798	0	%100
27	M27	Y	-6.798	-6.798	0	%100
28	M28	Y	-6.798	-6.798	0	%100
29	M29	Y	-6.798	-6.798	0	%100
30	M30	Y	-6.798	-6.798	0	%100
31	M31	Y	-5.125	-5.125	0	%100
32	M32	Y	-5.125	-5.125	0	%100
33	M33	Y	-5.125	-5.125	0	%100
34	MP1A	Y	-5.125	-5.125	0	%100
35	MP2A	Y	-5.125	-5.125	0	%100
36	MP3A	Y	-5.125	-5.125	0	%100
37	MP4A	Y	-5.125	-5.125	0	%100
38	MP1B	Y	-5.125	-5.125	0	%100
39	MP2B	Y	-5.125	-5.125	0	%100
40	MP3B	Y	-5.125	-5.125	0	%100
41	MP4B	Y	-5.125	-5.125	0	%100
42	MP1C	Y	-5.125	-5.125	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
43	MP2C	Y	-5.125	-5.125	0	%100
44	MP3C	Y	-5.125	-5.125	0	%100
45	MP4C	Y	-5.125	-5.125	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-16.1	-16.1	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-4.025	-4.025	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-4.025	-4.025	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-6.988	-6.988	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-6.988	-6.988	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-7.983	-7.983	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-7.983	-7.983	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-16.1	-16.1	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-4.025	-4.025	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	-4.025	-4.025	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	-10.264	-10.264	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	-10.264	-10.264	0	%100
29	M15	X	0	0	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	-7.648	-7.648	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	-1.912	-1.912	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	-1.912	-1.912	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	-2.285	-2.285	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	-9.141	-9.141	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	-2.285	-2.285	0	%100
43	M22	X	0	0	0	%100
44	M22	Z	-12.586	-12.586	0	%100
45	M23	X	0	0	0	%100
46	M23	Z	-12.586	-12.586	0	%100
47	M24	X	0	0	0	%100
48	M24	Z	-10.094	-10.094	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	-9.893	-9.893	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	-8.002	-8.002	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	-10.239	-10.239	0	%100
55	M28	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
56	M28	Z	-27	-27	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	-11.041	-11.041	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	-0.021	-0.021	0	%100
61	M31	X	0	0	0	%100
62	M31	Z	-6.254	-6.254	0	%100
63	M32	X	0	0	0	%100
64	M32	Z	-6.254	-6.254	0	%100
65	M33	X	0	0	0	%100
66	M33	Z	-6.254	-6.254	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-7.648	-7.648	0	%100
69	MP2A	X	0	0	0	%100
70	MP2A	Z	-7.648	-7.648	0	%100
71	MP3A	X	0	0	0	%100
72	MP3A	Z	-7.648	-7.648	0	%100
73	MP4A	X	0	0	0	%100
74	MP4A	Z	-7.648	-7.648	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	-7.648	-7.648	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	-7.648	-7.648	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	-7.648	-7.648	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	-7.648	-7.648	0	%100
83	MP1C	X	0	0	0	%100
84	MP1C	Z	-7.648	-7.648	0	%100
85	MP2C	X	0	0	0	%100
86	MP2C	Z	-7.648	-7.648	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-7.648	-7.648	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-7.648	-7.648	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	6.038	6.038	0	%100
2	M1	Z	-10.457	-10.457	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	6.038	6.038	0	%100
6	M3	Z	-10.457	-10.457	0	%100
7	M4	X	1.165	1.165	0	%100
8	M4	Z	-2.017	-2.017	0	%100
9	M5	X	4.659	4.659	0	%100
10	M5	Z	-8.069	-8.069	0	%100
11	M6	X	1.165	1.165	0	%100
12	M6	Z	-2.017	-2.017	0	%100
13	M7	X	1.33	1.33	0	%100
14	M7	Z	-2.304	-2.304	0	%100
15	M8	X	5.322	5.322	0	%100
16	M8	Z	-9.218	-9.218	0	%100
17	M9	X	1.33	1.33	0	%100
18	M9	Z	-2.304	-2.304	0	%100
19	M10	X	6.038	6.038	0	%100
20	M10	Z	-10.457	-10.457	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	6.038	6.038	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
24	M12	Z	-10.457	-10.457	0	%100
25	M13	X	6.843	6.843	0	%100
26	M13	Z	-11.852	-11.852	0	%100
27	M14	X	1.711	1.711	0	%100
28	M14	Z	-2.963	-2.963	0	%100
29	M15	X	1.711	1.711	0	%100
30	M15	Z	-2.963	-2.963	0	%100
31	M16	X	2.868	2.868	0	%100
32	M16	Z	-4.967	-4.967	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	2.868	2.868	0	%100
36	M18	Z	-4.967	-4.967	0	%100
37	M19	X	3.428	3.428	0	%100
38	M19	Z	-5.938	-5.938	0	%100
39	M20	X	3.428	3.428	0	%100
40	M20	Z	-5.938	-5.938	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	5.462	5.462	0	%100
44	M22	Z	-9.461	-9.461	0	%100
45	M23	X	6.708	6.708	0	%100
46	M23	Z	-11.619	-11.619	0	%100
47	M24	X	5.462	5.462	0	%100
48	M24	Z	-9.461	-9.461	0	%100
49	M25	X	1.598	1.598	0	%100
50	M25	Z	-2.768	-2.768	0	%100
51	M26	X	6.303	6.303	0	%100
52	M26	Z	-10.916	-10.916	0	%100
53	M27	X	6.707	6.707	0	%100
54	M27	Z	-11.617	-11.617	0	%100
55	M28	X	.917	.917	0	%100
56	M28	Z	-1.588	-1.588	0	%100
57	M29	X	2.437	2.437	0	%100
58	M29	Z	-4.221	-4.221	0	%100
59	M30	X	1.771	1.771	0	%100
60	M30	Z	-3.068	-3.068	0	%100
61	M31	X	3.127	3.127	0	%100
62	M31	Z	-5.416	-5.416	0	%100
63	M32	X	3.127	3.127	0	%100
64	M32	Z	-5.416	-5.416	0	%100
65	M33	X	3.127	3.127	0	%100
66	M33	Z	-5.416	-5.416	0	%100
67	MP1A	X	3.824	3.824	0	%100
68	MP1A	Z	-6.623	-6.623	0	%100
69	MP2A	X	3.824	3.824	0	%100
70	MP2A	Z	-6.623	-6.623	0	%100
71	MP3A	X	3.824	3.824	0	%100
72	MP3A	Z	-6.623	-6.623	0	%100
73	MP4A	X	3.824	3.824	0	%100
74	MP4A	Z	-6.623	-6.623	0	%100
75	MP1B	X	3.824	3.824	0	%100
76	MP1B	Z	-6.623	-6.623	0	%100
77	MP2B	X	3.824	3.824	0	%100
78	MP2B	Z	-6.623	-6.623	0	%100
79	MP3B	X	3.824	3.824	0	%100
80	MP3B	Z	-6.623	-6.623	0	%100
81	MP4B	X	3.824	3.824	0	%100
82	MP4B	Z	-6.623	-6.623	0	%100
83	MP1C	X	3.824	3.824	0	%100
84	MP1C	Z	-6.623	-6.623	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
85	MP2C	X	3.824	3.824	0	%100
86	MP2C	Z	-6.623	-6.623	0	%100
87	MP3C	X	3.824	3.824	0	%100
88	MP3C	Z	-6.623	-6.623	0	%100
89	MP4C	X	3.824	3.824	0	%100
90	MP4C	Z	-6.623	-6.623	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.486	3.486	0	%100
2	M1	Z	-2.013	-2.013	0	%100
3	M2	X	3.486	3.486	0	%100
4	M2	Z	-2.013	-2.013	0	%100
5	M3	X	13.943	13.943	0	%100
6	M3	Z	-8.05	-8.05	0	%100
7	M4	X	6.052	6.052	0	%100
8	M4	Z	-3.494	-3.494	0	%100
9	M5	X	6.052	6.052	0	%100
10	M5	Z	-3.494	-3.494	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	6.913	6.913	0	%100
14	M7	Z	-3.991	-3.991	0	%100
15	M8	X	6.913	6.913	0	%100
16	M8	Z	-3.991	-3.991	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	3.486	3.486	0	%100
20	M10	Z	-2.013	-2.013	0	%100
21	M11	X	3.486	3.486	0	%100
22	M11	Z	-2.013	-2.013	0	%100
23	M12	X	13.943	13.943	0	%100
24	M12	Z	-8.05	-8.05	0	%100
25	M13	X	8.889	8.889	0	%100
26	M13	Z	-5.132	-5.132	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	8.889	8.889	0	%100
30	M15	Z	-5.132	-5.132	0	%100
31	M16	X	1.656	1.656	0	%100
32	M16	Z	-.956	-.956	0	%100
33	M17	X	1.656	1.656	0	%100
34	M17	Z	-.956	-.956	0	%100
35	M18	X	6.623	6.623	0	%100
36	M18	Z	-3.824	-3.824	0	%100
37	M19	X	7.917	7.917	0	%100
38	M19	Z	-4.571	-4.571	0	%100
39	M20	X	1.979	1.979	0	%100
40	M20	Z	-1.143	-1.143	0	%100
41	M21	X	1.979	1.979	0	%100
42	M21	Z	-1.143	-1.143	0	%100
43	M22	X	8.742	8.742	0	%100
44	M22	Z	-5.047	-5.047	0	%100
45	M23	X	10.9	10.9	0	%100
46	M23	Z	-6.293	-6.293	0	%100
47	M24	X	10.9	10.9	0	%100
48	M24	Z	-6.293	-6.293	0	%100
49	M25	X	.019	.019	0	%100
50	M25	Z	-.011	-.011	0	%100
51	M26	X	9.562	9.562	0	%100
52	M26	Z	-5.521	-5.521	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	M27	X	8.567	8.567	0	%100
54	M27	Z	-4.946	-4.946	0	%100
55	M28	X	6.93	6.93	0	%100
56	M28	Z	-4.001	-4.001	0	%100
57	M29	X	.234	.234	0	%100
58	M29	Z	-.135	-.135	0	%100
59	M30	X	8.867	8.867	0	%100
60	M30	Z	-5.119	-5.119	0	%100
61	M31	X	5.416	5.416	0	%100
62	M31	Z	-3.127	-3.127	0	%100
63	M32	X	5.416	5.416	0	%100
64	M32	Z	-3.127	-3.127	0	%100
65	M33	X	5.416	5.416	0	%100
66	M33	Z	-3.127	-3.127	0	%100
67	MP1A	X	6.623	6.623	0	%100
68	MP1A	Z	-3.824	-3.824	0	%100
69	MP2A	X	6.623	6.623	0	%100
70	MP2A	Z	-3.824	-3.824	0	%100
71	MP3A	X	6.623	6.623	0	%100
72	MP3A	Z	-3.824	-3.824	0	%100
73	MP4A	X	6.623	6.623	0	%100
74	MP4A	Z	-3.824	-3.824	0	%100
75	MP1B	X	6.623	6.623	0	%100
76	MP1B	Z	-3.824	-3.824	0	%100
77	MP2B	X	6.623	6.623	0	%100
78	MP2B	Z	-3.824	-3.824	0	%100
79	MP3B	X	6.623	6.623	0	%100
80	MP3B	Z	-3.824	-3.824	0	%100
81	MP4B	X	6.623	6.623	0	%100
82	MP4B	Z	-3.824	-3.824	0	%100
83	MP1C	X	6.623	6.623	0	%100
84	MP1C	Z	-3.824	-3.824	0	%100
85	MP2C	X	6.623	6.623	0	%100
86	MP2C	Z	-3.824	-3.824	0	%100
87	MP3C	X	6.623	6.623	0	%100
88	MP3C	Z	-3.824	-3.824	0	%100
89	MP4C	X	6.623	6.623	0	%100
90	MP4C	Z	-3.824	-3.824	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	12.075	12.075	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	12.075	12.075	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	9.317	9.317	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	2.329	2.329	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	2.329	2.329	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	10.644	10.644	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	2.661	2.661	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	2.661	2.661	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M11	X	12.075	12.075	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	12.075	12.075	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	3.421	3.421	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	3.421	3.421	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	13.685	13.685	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	0	0	0	%100
33	M17	X	5.736	5.736	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	5.736	5.736	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	6.856	6.856	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	0	0	0	%100
41	M21	X	6.856	6.856	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	10.925	10.925	0	%100
44	M22	Z	0	0	0	%100
45	M23	X	10.925	10.925	0	%100
46	M23	Z	0	0	0	%100
47	M24	X	13.417	13.417	0	%100
48	M24	Z	0	0	0	%100
49	M25	X	3.543	3.543	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	4.874	4.874	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	3.197	3.197	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	12.605	12.605	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	1.834	1.834	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	13.414	13.414	0	%100
60	M30	Z	0	0	0	%100
61	M31	X	6.254	6.254	0	%100
62	M31	Z	0	0	0	%100
63	M32	X	6.254	6.254	0	%100
64	M32	Z	0	0	0	%100
65	M33	X	6.254	6.254	0	%100
66	M33	Z	0	0	0	%100
67	MP1A	X	7.648	7.648	0	%100
68	MP1A	Z	0	0	0	%100
69	MP2A	X	7.648	7.648	0	%100
70	MP2A	Z	0	0	0	%100
71	MP3A	X	7.648	7.648	0	%100
72	MP3A	Z	0	0	0	%100
73	MP4A	X	7.648	7.648	0	%100
74	MP4A	Z	0	0	0	%100
75	MP1B	X	7.648	7.648	0	%100
76	MP1B	Z	0	0	0	%100
77	MP2B	X	7.648	7.648	0	%100
78	MP2B	Z	0	0	0	%100
79	MP3B	X	7.648	7.648	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	7.648	7.648	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
82	MP4B	Z	0	0	0	%100
83	MP1C	X	7.648	7.648	0	%100
84	MP1C	Z	0	0	0	%100
85	MP2C	X	7.648	7.648	0	%100
86	MP2C	Z	0	0	0	%100
87	MP3C	X	7.648	7.648	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	7.648	7.648	0	%100
90	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.486	3.486	0	%100
2	M1	Z	2.013	2.013	0	%100
3	M2	X	13.943	13.943	0	%100
4	M2	Z	8.05	8.05	0	%100
5	M3	X	3.486	3.486	0	%100
6	M3	Z	2.013	2.013	0	%100
7	M4	X	6.052	6.052	0	%100
8	M4	Z	3.494	3.494	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	6.052	6.052	0	%100
12	M6	Z	3.494	3.494	0	%100
13	M7	X	6.913	6.913	0	%100
14	M7	Z	3.991	3.991	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	6.913	6.913	0	%100
18	M9	Z	3.991	3.991	0	%100
19	M10	X	3.486	3.486	0	%100
20	M10	Z	2.013	2.013	0	%100
21	M11	X	13.943	13.943	0	%100
22	M11	Z	8.05	8.05	0	%100
23	M12	X	3.486	3.486	0	%100
24	M12	Z	2.013	2.013	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	8.889	8.889	0	%100
28	M14	Z	5.132	5.132	0	%100
29	M15	X	8.889	8.889	0	%100
30	M15	Z	5.132	5.132	0	%100
31	M16	X	1.656	1.656	0	%100
32	M16	Z	.956	.956	0	%100
33	M17	X	6.623	6.623	0	%100
34	M17	Z	3.824	3.824	0	%100
35	M18	X	1.656	1.656	0	%100
36	M18	Z	.956	.956	0	%100
37	M19	X	1.979	1.979	0	%100
38	M19	Z	1.143	1.143	0	%100
39	M20	X	1.979	1.979	0	%100
40	M20	Z	1.143	1.143	0	%100
41	M21	X	7.917	7.917	0	%100
42	M21	Z	4.571	4.571	0	%100
43	M22	X	10.9	10.9	0	%100
44	M22	Z	6.293	6.293	0	%100
45	M23	X	8.742	8.742	0	%100
46	M23	Z	5.047	5.047	0	%100
47	M24	X	10.9	10.9	0	%100
48	M24	Z	6.293	6.293	0	%100
49	M25	X	8.867	8.867	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
50	M25	Z	5.119	5.119	0	%100
51	M26	X	.234	.234	0	%100
52	M26	Z	.135	.135	0	%100
53	M27	X	.019	.019	0	%100
54	M27	Z	.011	.011	0	%100
55	M28	X	9.562	9.562	0	%100
56	M28	Z	5.521	5.521	0	%100
57	M29	X	6.93	6.93	0	%100
58	M29	Z	4.001	4.001	0	%100
59	M30	X	8.567	8.567	0	%100
60	M30	Z	4.946	4.946	0	%100
61	M31	X	5.416	5.416	0	%100
62	M31	Z	3.127	3.127	0	%100
63	M32	X	5.416	5.416	0	%100
64	M32	Z	3.127	3.127	0	%100
65	M33	X	5.416	5.416	0	%100
66	M33	Z	3.127	3.127	0	%100
67	MP1A	X	6.623	6.623	0	%100
68	MP1A	Z	3.824	3.824	0	%100
69	MP2A	X	6.623	6.623	0	%100
70	MP2A	Z	3.824	3.824	0	%100
71	MP3A	X	6.623	6.623	0	%100
72	MP3A	Z	3.824	3.824	0	%100
73	MP4A	X	6.623	6.623	0	%100
74	MP4A	Z	3.824	3.824	0	%100
75	MP1B	X	6.623	6.623	0	%100
76	MP1B	Z	3.824	3.824	0	%100
77	MP2B	X	6.623	6.623	0	%100
78	MP2B	Z	3.824	3.824	0	%100
79	MP3B	X	6.623	6.623	0	%100
80	MP3B	Z	3.824	3.824	0	%100
81	MP4B	X	6.623	6.623	0	%100
82	MP4B	Z	3.824	3.824	0	%100
83	MP1C	X	6.623	6.623	0	%100
84	MP1C	Z	3.824	3.824	0	%100
85	MP2C	X	6.623	6.623	0	%100
86	MP2C	Z	3.824	3.824	0	%100
87	MP3C	X	6.623	6.623	0	%100
88	MP3C	Z	3.824	3.824	0	%100
89	MP4C	X	6.623	6.623	0	%100
90	MP4C	Z	3.824	3.824	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	6.038	6.038	0	%100
2	M1	Z	10.457	10.457	0	%100
3	M2	X	6.038	6.038	0	%100
4	M2	Z	10.457	10.457	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	1.165	1.165	0	%100
8	M4	Z	2.017	2.017	0	%100
9	M5	X	1.165	1.165	0	%100
10	M5	Z	2.017	2.017	0	%100
11	M6	X	4.659	4.659	0	%100
12	M6	Z	8.069	8.069	0	%100
13	M7	X	1.33	1.33	0	%100
14	M7	Z	2.304	2.304	0	%100
15	M8	X	1.33	1.33	0	%100
16	M8	Z	2.304	2.304	0	%100
17	M9	X	5.322	5.322	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
18	M9	Z	9.218	9.218	0	%100
19	M10	X	6.038	6.038	0	%100
20	M10	Z	10.457	10.457	0	%100
21	M11	X	6.038	6.038	0	%100
22	M11	Z	10.457	10.457	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	1.711	1.711	0	%100
26	M13	Z	2.963	2.963	0	%100
27	M14	X	6.843	6.843	0	%100
28	M14	Z	11.852	11.852	0	%100
29	M15	X	1.711	1.711	0	%100
30	M15	Z	2.963	2.963	0	%100
31	M16	X	2.868	2.868	0	%100
32	M16	Z	4.967	4.967	0	%100
33	M17	X	2.868	2.868	0	%100
34	M17	Z	4.967	4.967	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	3.428	3.428	0	%100
40	M20	Z	5.938	5.938	0	%100
41	M21	X	3.428	3.428	0	%100
42	M21	Z	5.938	5.938	0	%100
43	M22	X	6.708	6.708	0	%100
44	M22	Z	11.619	11.619	0	%100
45	M23	X	5.462	5.462	0	%100
46	M23	Z	9.461	9.461	0	%100
47	M24	X	5.462	5.462	0	%100
48	M24	Z	9.461	9.461	0	%100
49	M25	X	6.707	6.707	0	%100
50	M25	Z	11.617	11.617	0	%100
51	M26	X	.917	.917	0	%100
52	M26	Z	1.588	1.588	0	%100
53	M27	X	1.771	1.771	0	%100
54	M27	Z	3.068	3.068	0	%100
55	M28	X	2.437	2.437	0	%100
56	M28	Z	4.221	4.221	0	%100
57	M29	X	6.303	6.303	0	%100
58	M29	Z	10.916	10.916	0	%100
59	M30	X	1.598	1.598	0	%100
60	M30	Z	2.768	2.768	0	%100
61	M31	X	3.127	3.127	0	%100
62	M31	Z	5.416	5.416	0	%100
63	M32	X	3.127	3.127	0	%100
64	M32	Z	5.416	5.416	0	%100
65	M33	X	3.127	3.127	0	%100
66	M33	Z	5.416	5.416	0	%100
67	MP1A	X	3.824	3.824	0	%100
68	MP1A	Z	6.623	6.623	0	%100
69	MP2A	X	3.824	3.824	0	%100
70	MP2A	Z	6.623	6.623	0	%100
71	MP3A	X	3.824	3.824	0	%100
72	MP3A	Z	6.623	6.623	0	%100
73	MP4A	X	3.824	3.824	0	%100
74	MP4A	Z	6.623	6.623	0	%100
75	MP1B	X	3.824	3.824	0	%100
76	MP1B	Z	6.623	6.623	0	%100
77	MP2B	X	3.824	3.824	0	%100
78	MP2B	Z	6.623	6.623	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
79	MP3B	X	3.824	3.824	0	%100
80	MP3B	Z	6.623	6.623	0	%100
81	MP4B	X	3.824	3.824	0	%100
82	MP4B	Z	6.623	6.623	0	%100
83	MP1C	X	3.824	3.824	0	%100
84	MP1C	Z	6.623	6.623	0	%100
85	MP2C	X	3.824	3.824	0	%100
86	MP2C	Z	6.623	6.623	0	%100
87	MP3C	X	3.824	3.824	0	%100
88	MP3C	Z	6.623	6.623	0	%100
89	MP4C	X	3.824	3.824	0	%100
90	MP4C	Z	6.623	6.623	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	16.1	16.1	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	4.025	4.025	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	4.025	4.025	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	6.988	6.988	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	6.988	6.988	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	7.983	7.983	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	7.983	7.983	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	16.1	16.1	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	4.025	4.025	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	4.025	4.025	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	10.264	10.264	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	10.264	10.264	0	%100
29	M15	X	0	0	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	7.648	7.648	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	1.912	1.912	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	1.912	1.912	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	2.285	2.285	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	9.141	9.141	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	2.285	2.285	0	%100
43	M22	X	0	0	0	%100
44	M22	Z	12.586	12.586	0	%100
45	M23	X	0	0	0	%100
46	M23	Z	12.586	12.586	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
47	M24	X	0	0	0	%100
48	M24	Z	10.094	10.094	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	9.893	9.893	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	8.002	8.002	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	10.239	10.239	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	.27	.27	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	11.041	11.041	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	.021	.021	0	%100
61	M31	X	0	0	0	%100
62	M31	Z	6.254	6.254	0	%100
63	M32	X	0	0	0	%100
64	M32	Z	6.254	6.254	0	%100
65	M33	X	0	0	0	%100
66	M33	Z	6.254	6.254	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	7.648	7.648	0	%100
69	MP2A	X	0	0	0	%100
70	MP2A	Z	7.648	7.648	0	%100
71	MP3A	X	0	0	0	%100
72	MP3A	Z	7.648	7.648	0	%100
73	MP4A	X	0	0	0	%100
74	MP4A	Z	7.648	7.648	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	7.648	7.648	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	7.648	7.648	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	7.648	7.648	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	7.648	7.648	0	%100
83	MP1C	X	0	0	0	%100
84	MP1C	Z	7.648	7.648	0	%100
85	MP2C	X	0	0	0	%100
86	MP2C	Z	7.648	7.648	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	7.648	7.648	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	7.648	7.648	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-6.038	-6.038	0	%100
2	M1	Z	10.457	10.457	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-6.038	-6.038	0	%100
6	M3	Z	10.457	10.457	0	%100
7	M4	X	-1.165	-1.165	0	%100
8	M4	Z	2.017	2.017	0	%100
9	M5	X	-4.659	-4.659	0	%100
10	M5	Z	8.069	8.069	0	%100
11	M6	X	-1.165	-1.165	0	%100
12	M6	Z	2.017	2.017	0	%100
13	M7	X	-1.33	-1.33	0	%100
14	M7	Z	2.304	2.304	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
15	M8	X	-5.322	-5.322	0	%100
16	M8	Z	9.218	9.218	0	%100
17	M9	X	-1.33	-1.33	0	%100
18	M9	Z	2.304	2.304	0	%100
19	M10	X	-6.038	-6.038	0	%100
20	M10	Z	10.457	10.457	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-6.038	-6.038	0	%100
24	M12	Z	10.457	10.457	0	%100
25	M13	X	-6.843	-6.843	0	%100
26	M13	Z	11.852	11.852	0	%100
27	M14	X	-1.711	-1.711	0	%100
28	M14	Z	2.963	2.963	0	%100
29	M15	X	-1.711	-1.711	0	%100
30	M15	Z	2.963	2.963	0	%100
31	M16	X	-2.868	-2.868	0	%100
32	M16	Z	4.967	4.967	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	-2.868	-2.868	0	%100
36	M18	Z	4.967	4.967	0	%100
37	M19	X	-3.428	-3.428	0	%100
38	M19	Z	5.938	5.938	0	%100
39	M20	X	-3.428	-3.428	0	%100
40	M20	Z	5.938	5.938	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	-5.462	-5.462	0	%100
44	M22	Z	9.461	9.461	0	%100
45	M23	X	-6.708	-6.708	0	%100
46	M23	Z	11.619	11.619	0	%100
47	M24	X	-5.462	-5.462	0	%100
48	M24	Z	9.461	9.461	0	%100
49	M25	X	-1.598	-1.598	0	%100
50	M25	Z	2.768	2.768	0	%100
51	M26	X	-6.303	-6.303	0	%100
52	M26	Z	10.916	10.916	0	%100
53	M27	X	-6.707	-6.707	0	%100
54	M27	Z	11.617	11.617	0	%100
55	M28	X	-0.917	-0.917	0	%100
56	M28	Z	1.588	1.588	0	%100
57	M29	X	-2.437	-2.437	0	%100
58	M29	Z	4.221	4.221	0	%100
59	M30	X	-1.771	-1.771	0	%100
60	M30	Z	3.068	3.068	0	%100
61	M31	X	-3.127	-3.127	0	%100
62	M31	Z	5.416	5.416	0	%100
63	M32	X	-3.127	-3.127	0	%100
64	M32	Z	5.416	5.416	0	%100
65	M33	X	-3.127	-3.127	0	%100
66	M33	Z	5.416	5.416	0	%100
67	MP1A	X	-3.824	-3.824	0	%100
68	MP1A	Z	6.623	6.623	0	%100
69	MP2A	X	-3.824	-3.824	0	%100
70	MP2A	Z	6.623	6.623	0	%100
71	MP3A	X	-3.824	-3.824	0	%100
72	MP3A	Z	6.623	6.623	0	%100
73	MP4A	X	-3.824	-3.824	0	%100
74	MP4A	Z	6.623	6.623	0	%100
75	MP1B	X	-3.824	-3.824	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
76	MP1B	Z	6.623	6.623	0	%100
77	MP2B	X	-3.824	-3.824	0	%100
78	MP2B	Z	6.623	6.623	0	%100
79	MP3B	X	-3.824	-3.824	0	%100
80	MP3B	Z	6.623	6.623	0	%100
81	MP4B	X	-3.824	-3.824	0	%100
82	MP4B	Z	6.623	6.623	0	%100
83	MP1C	X	-3.824	-3.824	0	%100
84	MP1C	Z	6.623	6.623	0	%100
85	MP2C	X	-3.824	-3.824	0	%100
86	MP2C	Z	6.623	6.623	0	%100
87	MP3C	X	-3.824	-3.824	0	%100
88	MP3C	Z	6.623	6.623	0	%100
89	MP4C	X	-3.824	-3.824	0	%100
90	MP4C	Z	6.623	6.623	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-3.486	-3.486	0	%100
2	M1	Z	2.013	2.013	0	%100
3	M2	X	-3.486	-3.486	0	%100
4	M2	Z	2.013	2.013	0	%100
5	M3	X	-13.943	-13.943	0	%100
6	M3	Z	8.05	8.05	0	%100
7	M4	X	-6.052	-6.052	0	%100
8	M4	Z	3.494	3.494	0	%100
9	M5	X	-6.052	-6.052	0	%100
10	M5	Z	3.494	3.494	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-6.913	-6.913	0	%100
14	M7	Z	3.991	3.991	0	%100
15	M8	X	-6.913	-6.913	0	%100
16	M8	Z	3.991	3.991	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-3.486	-3.486	0	%100
20	M10	Z	2.013	2.013	0	%100
21	M11	X	-3.486	-3.486	0	%100
22	M11	Z	2.013	2.013	0	%100
23	M12	X	-13.943	-13.943	0	%100
24	M12	Z	8.05	8.05	0	%100
25	M13	X	-8.889	-8.889	0	%100
26	M13	Z	5.132	5.132	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	-8.889	-8.889	0	%100
30	M15	Z	5.132	5.132	0	%100
31	M16	X	-1.656	-1.656	0	%100
32	M16	Z	.956	.956	0	%100
33	M17	X	-1.656	-1.656	0	%100
34	M17	Z	.956	.956	0	%100
35	M18	X	-6.623	-6.623	0	%100
36	M18	Z	3.824	3.824	0	%100
37	M19	X	-7.917	-7.917	0	%100
38	M19	Z	4.571	4.571	0	%100
39	M20	X	-1.979	-1.979	0	%100
40	M20	Z	1.143	1.143	0	%100
41	M21	X	-1.979	-1.979	0	%100
42	M21	Z	1.143	1.143	0	%100
43	M22	X	-8.742	-8.742	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
44	M22	Z	5.047	5.047	0	%100
45	M23	X	-10.9	-10.9	0	%100
46	M23	Z	6.293	6.293	0	%100
47	M24	X	-10.9	-10.9	0	%100
48	M24	Z	6.293	6.293	0	%100
49	M25	X	-.019	-.019	0	%100
50	M25	Z	.011	.011	0	%100
51	M26	X	-9.562	-9.562	0	%100
52	M26	Z	5.521	5.521	0	%100
53	M27	X	-8.567	-8.567	0	%100
54	M27	Z	4.946	4.946	0	%100
55	M28	X	-6.93	-6.93	0	%100
56	M28	Z	4.001	4.001	0	%100
57	M29	X	-.234	-.234	0	%100
58	M29	Z	.135	.135	0	%100
59	M30	X	-8.867	-8.867	0	%100
60	M30	Z	5.119	5.119	0	%100
61	M31	X	-5.416	-5.416	0	%100
62	M31	Z	3.127	3.127	0	%100
63	M32	X	-5.416	-5.416	0	%100
64	M32	Z	3.127	3.127	0	%100
65	M33	X	-5.416	-5.416	0	%100
66	M33	Z	3.127	3.127	0	%100
67	MP1A	X	-6.623	-6.623	0	%100
68	MP1A	Z	3.824	3.824	0	%100
69	MP2A	X	-6.623	-6.623	0	%100
70	MP2A	Z	3.824	3.824	0	%100
71	MP3A	X	-6.623	-6.623	0	%100
72	MP3A	Z	3.824	3.824	0	%100
73	MP4A	X	-6.623	-6.623	0	%100
74	MP4A	Z	3.824	3.824	0	%100
75	MP1B	X	-6.623	-6.623	0	%100
76	MP1B	Z	3.824	3.824	0	%100
77	MP2B	X	-6.623	-6.623	0	%100
78	MP2B	Z	3.824	3.824	0	%100
79	MP3B	X	-6.623	-6.623	0	%100
80	MP3B	Z	3.824	3.824	0	%100
81	MP4B	X	-6.623	-6.623	0	%100
82	MP4B	Z	3.824	3.824	0	%100
83	MP1C	X	-6.623	-6.623	0	%100
84	MP1C	Z	3.824	3.824	0	%100
85	MP2C	X	-6.623	-6.623	0	%100
86	MP2C	Z	3.824	3.824	0	%100
87	MP3C	X	-6.623	-6.623	0	%100
88	MP3C	Z	3.824	3.824	0	%100
89	MP4C	X	-6.623	-6.623	0	%100
90	MP4C	Z	3.824	3.824	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-12.075	-12.075	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-12.075	-12.075	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-9.317	-9.317	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-2.329	-2.329	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-2.329	-2.329	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
12	M6	Z	0	0	0	%100
13	M7	X	-10.644	-10.644	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-2.661	-2.661	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-2.661	-2.661	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-12.075	-12.075	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-12.075	-12.075	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	-3.421	-3.421	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	-3.421	-3.421	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	-13.685	-13.685	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	0	0	0	%100
33	M17	X	-5.736	-5.736	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	-5.736	-5.736	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	-6.856	-6.856	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	0	0	0	%100
41	M21	X	-6.856	-6.856	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	-10.925	-10.925	0	%100
44	M22	Z	0	0	0	%100
45	M23	X	-10.925	-10.925	0	%100
46	M23	Z	0	0	0	%100
47	M24	X	-13.417	-13.417	0	%100
48	M24	Z	0	0	0	%100
49	M25	X	-3.543	-3.543	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	-4.874	-4.874	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-3.197	-3.197	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	-12.605	-12.605	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	-1.834	-1.834	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	-13.414	-13.414	0	%100
60	M30	Z	0	0	0	%100
61	M31	X	-6.254	-6.254	0	%100
62	M31	Z	0	0	0	%100
63	M32	X	-6.254	-6.254	0	%100
64	M32	Z	0	0	0	%100
65	M33	X	-6.254	-6.254	0	%100
66	M33	Z	0	0	0	%100
67	MP1A	X	-7.648	-7.648	0	%100
68	MP1A	Z	0	0	0	%100
69	MP2A	X	-7.648	-7.648	0	%100
70	MP2A	Z	0	0	0	%100
71	MP3A	X	-7.648	-7.648	0	%100
72	MP3A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
73	MP4A	X	-7.648	-7.648	0	%100
74	MP4A	Z	0	0	0	%100
75	MP1B	X	-7.648	-7.648	0	%100
76	MP1B	Z	0	0	0	%100
77	MP2B	X	-7.648	-7.648	0	%100
78	MP2B	Z	0	0	0	%100
79	MP3B	X	-7.648	-7.648	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	-7.648	-7.648	0	%100
82	MP4B	Z	0	0	0	%100
83	MP1C	X	-7.648	-7.648	0	%100
84	MP1C	Z	0	0	0	%100
85	MP2C	X	-7.648	-7.648	0	%100
86	MP2C	Z	0	0	0	%100
87	MP3C	X	-7.648	-7.648	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-7.648	-7.648	0	%100
90	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-3.486	-3.486	0	%100
2	M1	Z	-2.013	-2.013	0	%100
3	M2	X	-13.943	-13.943	0	%100
4	M2	Z	-8.05	-8.05	0	%100
5	M3	X	-3.486	-3.486	0	%100
6	M3	Z	-2.013	-2.013	0	%100
7	M4	X	-6.052	-6.052	0	%100
8	M4	Z	-3.494	-3.494	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-6.052	-6.052	0	%100
12	M6	Z	-3.494	-3.494	0	%100
13	M7	X	-6.913	-6.913	0	%100
14	M7	Z	-3.991	-3.991	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-6.913	-6.913	0	%100
18	M9	Z	-3.991	-3.991	0	%100
19	M10	X	-3.486	-3.486	0	%100
20	M10	Z	-2.013	-2.013	0	%100
21	M11	X	-13.943	-13.943	0	%100
22	M11	Z	-8.05	-8.05	0	%100
23	M12	X	-3.486	-3.486	0	%100
24	M12	Z	-2.013	-2.013	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	-8.889	-8.889	0	%100
28	M14	Z	-5.132	-5.132	0	%100
29	M15	X	-8.889	-8.889	0	%100
30	M15	Z	-5.132	-5.132	0	%100
31	M16	X	-1.656	-1.656	0	%100
32	M16	Z	-.956	-.956	0	%100
33	M17	X	-6.623	-6.623	0	%100
34	M17	Z	-3.824	-3.824	0	%100
35	M18	X	-1.656	-1.656	0	%100
36	M18	Z	-.956	-.956	0	%100
37	M19	X	-1.979	-1.979	0	%100
38	M19	Z	-1.143	-1.143	0	%100
39	M20	X	-1.979	-1.979	0	%100
40	M20	Z	-1.143	-1.143	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
41	M21	X	-7.917	-7.917	0	%100
42	M21	Z	-4.571	-4.571	0	%100
43	M22	X	-10.9	-10.9	0	%100
44	M22	Z	-6.293	-6.293	0	%100
45	M23	X	-8.742	-8.742	0	%100
46	M23	Z	-5.047	-5.047	0	%100
47	M24	X	-10.9	-10.9	0	%100
48	M24	Z	-6.293	-6.293	0	%100
49	M25	X	-8.867	-8.867	0	%100
50	M25	Z	-5.119	-5.119	0	%100
51	M26	X	-.234	-.234	0	%100
52	M26	Z	-.135	-.135	0	%100
53	M27	X	-.019	-.019	0	%100
54	M27	Z	-.011	-.011	0	%100
55	M28	X	-9.562	-9.562	0	%100
56	M28	Z	-5.521	-5.521	0	%100
57	M29	X	-6.93	-6.93	0	%100
58	M29	Z	-4.001	-4.001	0	%100
59	M30	X	-8.567	-8.567	0	%100
60	M30	Z	-4.946	-4.946	0	%100
61	M31	X	-5.416	-5.416	0	%100
62	M31	Z	-3.127	-3.127	0	%100
63	M32	X	-5.416	-5.416	0	%100
64	M32	Z	-3.127	-3.127	0	%100
65	M33	X	-5.416	-5.416	0	%100
66	M33	Z	-3.127	-3.127	0	%100
67	MP1A	X	-6.623	-6.623	0	%100
68	MP1A	Z	-3.824	-3.824	0	%100
69	MP2A	X	-6.623	-6.623	0	%100
70	MP2A	Z	-3.824	-3.824	0	%100
71	MP3A	X	-6.623	-6.623	0	%100
72	MP3A	Z	-3.824	-3.824	0	%100
73	MP4A	X	-6.623	-6.623	0	%100
74	MP4A	Z	-3.824	-3.824	0	%100
75	MP1B	X	-6.623	-6.623	0	%100
76	MP1B	Z	-3.824	-3.824	0	%100
77	MP2B	X	-6.623	-6.623	0	%100
78	MP2B	Z	-3.824	-3.824	0	%100
79	MP3B	X	-6.623	-6.623	0	%100
80	MP3B	Z	-3.824	-3.824	0	%100
81	MP4B	X	-6.623	-6.623	0	%100
82	MP4B	Z	-3.824	-3.824	0	%100
83	MP1C	X	-6.623	-6.623	0	%100
84	MP1C	Z	-3.824	-3.824	0	%100
85	MP2C	X	-6.623	-6.623	0	%100
86	MP2C	Z	-3.824	-3.824	0	%100
87	MP3C	X	-6.623	-6.623	0	%100
88	MP3C	Z	-3.824	-3.824	0	%100
89	MP4C	X	-6.623	-6.623	0	%100
90	MP4C	Z	-3.824	-3.824	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-6.038	-6.038	0	%100
2	M1	Z	-10.457	-10.457	0	%100
3	M2	X	-6.038	-6.038	0	%100
4	M2	Z	-10.457	-10.457	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-1.165	-1.165	0	%100
8	M4	Z	-2.017	-2.017	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
9	M5	X	-1.165	-1.165	0	%100
10	M5	Z	-2.017	-2.017	0	%100
11	M6	X	-4.659	-4.659	0	%100
12	M6	Z	-8.069	-8.069	0	%100
13	M7	X	-1.33	-1.33	0	%100
14	M7	Z	-2.304	-2.304	0	%100
15	M8	X	-1.33	-1.33	0	%100
16	M8	Z	-2.304	-2.304	0	%100
17	M9	X	-5.322	-5.322	0	%100
18	M9	Z	-9.218	-9.218	0	%100
19	M10	X	-6.038	-6.038	0	%100
20	M10	Z	-10.457	-10.457	0	%100
21	M11	X	-6.038	-6.038	0	%100
22	M11	Z	-10.457	-10.457	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	-1.711	-1.711	0	%100
26	M13	Z	-2.963	-2.963	0	%100
27	M14	X	-6.843	-6.843	0	%100
28	M14	Z	-11.852	-11.852	0	%100
29	M15	X	-1.711	-1.711	0	%100
30	M15	Z	-2.963	-2.963	0	%100
31	M16	X	-2.868	-2.868	0	%100
32	M16	Z	-4.967	-4.967	0	%100
33	M17	X	-2.868	-2.868	0	%100
34	M17	Z	-4.967	-4.967	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	-3.428	-3.428	0	%100
40	M20	Z	-5.938	-5.938	0	%100
41	M21	X	-3.428	-3.428	0	%100
42	M21	Z	-5.938	-5.938	0	%100
43	M22	X	-6.708	-6.708	0	%100
44	M22	Z	-11.619	-11.619	0	%100
45	M23	X	-5.462	-5.462	0	%100
46	M23	Z	-9.461	-9.461	0	%100
47	M24	X	-5.462	-5.462	0	%100
48	M24	Z	-9.461	-9.461	0	%100
49	M25	X	-6.707	-6.707	0	%100
50	M25	Z	-11.617	-11.617	0	%100
51	M26	X	-.917	-.917	0	%100
52	M26	Z	-1.588	-1.588	0	%100
53	M27	X	-1.771	-1.771	0	%100
54	M27	Z	-3.068	-3.068	0	%100
55	M28	X	-2.437	-2.437	0	%100
56	M28	Z	-4.221	-4.221	0	%100
57	M29	X	-6.303	-6.303	0	%100
58	M29	Z	-10.916	-10.916	0	%100
59	M30	X	-1.598	-1.598	0	%100
60	M30	Z	-2.768	-2.768	0	%100
61	M31	X	-3.127	-3.127	0	%100
62	M31	Z	-5.416	-5.416	0	%100
63	M32	X	-3.127	-3.127	0	%100
64	M32	Z	-5.416	-5.416	0	%100
65	M33	X	-3.127	-3.127	0	%100
66	M33	Z	-5.416	-5.416	0	%100
67	MP1A	X	-3.824	-3.824	0	%100
68	MP1A	Z	-6.623	-6.623	0	%100
69	MP2A	X	-3.824	-3.824	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
70	MP2A	Z	-6.623	-6.623	0	%100
71	MP3A	X	-3.824	-3.824	0	%100
72	MP3A	Z	-6.623	-6.623	0	%100
73	MP4A	X	-3.824	-3.824	0	%100
74	MP4A	Z	-6.623	-6.623	0	%100
75	MP1B	X	-3.824	-3.824	0	%100
76	MP1B	Z	-6.623	-6.623	0	%100
77	MP2B	X	-3.824	-3.824	0	%100
78	MP2B	Z	-6.623	-6.623	0	%100
79	MP3B	X	-3.824	-3.824	0	%100
80	MP3B	Z	-6.623	-6.623	0	%100
81	MP4B	X	-3.824	-3.824	0	%100
82	MP4B	Z	-6.623	-6.623	0	%100
83	MP1C	X	-3.824	-3.824	0	%100
84	MP1C	Z	-6.623	-6.623	0	%100
85	MP2C	X	-3.824	-3.824	0	%100
86	MP2C	Z	-6.623	-6.623	0	%100
87	MP3C	X	-3.824	-3.824	0	%100
88	MP3C	Z	-6.623	-6.623	0	%100
89	MP4C	X	-3.824	-3.824	0	%100
90	MP4C	Z	-6.623	-6.623	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-4.48	-4.48	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-1.12	-1.12	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-1.12	-1.12	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-2.039	-2.039	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-2.039	-2.039	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-2.291	-2.291	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-2.291	-2.291	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-4.48	-4.48	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-1.12	-1.12	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	-1.12	-1.12	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	-2.925	-2.925	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	-2.925	-2.925	0	%100
29	M15	X	0	0	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	-2.882	-2.882	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	-.721	-.721	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	-.721	-.721	0	%100
37	M19	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
38	M19	Z	-.668	-.668	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	-2.673	-2.673	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	-.668	-.668	0	%100
43	M22	X	0	0	0	%100
44	M22	Z	-3.61	-3.61	0	%100
45	M23	X	0	0	0	%100
46	M23	Z	-3.61	-3.61	0	%100
47	M24	X	0	0	0	%100
48	M24	Z	-2.521	-2.521	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	-2.929	-2.929	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	-2.387	-2.387	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	-3.032	-3.032	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	-.081	-.081	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	-3.294	-3.294	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	-.006	-.006	0	%100
61	M31	X	0	0	0	%100
62	M31	Z	-2.359	-2.359	0	%100
63	M32	X	0	0	0	%100
64	M32	Z	-2.359	-2.359	0	%100
65	M33	X	0	0	0	%100
66	M33	Z	-2.359	-2.359	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-2.882	-2.882	0	%100
69	MP2A	X	0	0	0	%100
70	MP2A	Z	-2.882	-2.882	0	%100
71	MP3A	X	0	0	0	%100
72	MP3A	Z	-2.882	-2.882	0	%100
73	MP4A	X	0	0	0	%100
74	MP4A	Z	-2.882	-2.882	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	-2.882	-2.882	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	-2.882	-2.882	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	-2.882	-2.882	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	-2.882	-2.882	0	%100
83	MP1C	X	0	0	0	%100
84	MP1C	Z	-2.882	-2.882	0	%100
85	MP2C	X	0	0	0	%100
86	MP2C	Z	-2.882	-2.882	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-2.882	-2.882	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-2.882	-2.882	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.68	1.68	0	%100
2	M1	Z	-2.91	-2.91	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	1.68	1.68	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
6	M3	Z	-2.91	-2.91	0	%100
7	M4	X	.34	.34	0	%100
8	M4	Z	-.589	-.589	0	%100
9	M5	X	1.359	1.359	0	%100
10	M5	Z	-2.355	-2.355	0	%100
11	M6	X	.34	.34	0	%100
12	M6	Z	-.589	-.589	0	%100
13	M7	X	.382	.382	0	%100
14	M7	Z	-.661	-.661	0	%100
15	M8	X	1.527	1.527	0	%100
16	M8	Z	-2.645	-2.645	0	%100
17	M9	X	.382	.382	0	%100
18	M9	Z	-.661	-.661	0	%100
19	M10	X	1.68	1.68	0	%100
20	M10	Z	-2.91	-2.91	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	1.68	1.68	0	%100
24	M12	Z	-2.91	-2.91	0	%100
25	M13	X	1.95	1.95	0	%100
26	M13	Z	-3.377	-3.377	0	%100
27	M14	X	.487	.487	0	%100
28	M14	Z	-.844	-.844	0	%100
29	M15	X	.487	.487	0	%100
30	M15	Z	-.844	-.844	0	%100
31	M16	X	1.081	1.081	0	%100
32	M16	Z	-1.872	-1.872	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	1.081	1.081	0	%100
36	M18	Z	-1.872	-1.872	0	%100
37	M19	X	1.002	1.002	0	%100
38	M19	Z	-1.736	-1.736	0	%100
39	M20	X	1.002	1.002	0	%100
40	M20	Z	-1.736	-1.736	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	1.442	1.442	0	%100
44	M22	Z	-2.497	-2.497	0	%100
45	M23	X	1.986	1.986	0	%100
46	M23	Z	-3.441	-3.441	0	%100
47	M24	X	1.442	1.442	0	%100
48	M24	Z	-2.497	-2.497	0	%100
49	M25	X	.473	.473	0	%100
50	M25	Z	-.82	-.82	0	%100
51	M26	X	1.88	1.88	0	%100
52	M26	Z	-3.257	-3.257	0	%100
53	M27	X	1.986	1.986	0	%100
54	M27	Z	-3.44	-3.44	0	%100
55	M28	X	.274	.274	0	%100
56	M28	Z	-.474	-.474	0	%100
57	M29	X	.727	.727	0	%100
58	M29	Z	-1.259	-1.259	0	%100
59	M30	X	.524	.524	0	%100
60	M30	Z	-.908	-.908	0	%100
61	M31	X	1.18	1.18	0	%100
62	M31	Z	-2.043	-2.043	0	%100
63	M32	X	1.18	1.18	0	%100
64	M32	Z	-2.043	-2.043	0	%100
65	M33	X	1.18	1.18	0	%100
66	M33	Z	-2.043	-2.043	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
67	MP1A	X	1.441	1.441	0	%100
68	MP1A	Z	-2.496	-2.496	0	%100
69	MP2A	X	1.441	1.441	0	%100
70	MP2A	Z	-2.496	-2.496	0	%100
71	MP3A	X	1.441	1.441	0	%100
72	MP3A	Z	-2.496	-2.496	0	%100
73	MP4A	X	1.441	1.441	0	%100
74	MP4A	Z	-2.496	-2.496	0	%100
75	MP1B	X	1.441	1.441	0	%100
76	MP1B	Z	-2.496	-2.496	0	%100
77	MP2B	X	1.441	1.441	0	%100
78	MP2B	Z	-2.496	-2.496	0	%100
79	MP3B	X	1.441	1.441	0	%100
80	MP3B	Z	-2.496	-2.496	0	%100
81	MP4B	X	1.441	1.441	0	%100
82	MP4B	Z	-2.496	-2.496	0	%100
83	MP1C	X	1.441	1.441	0	%100
84	MP1C	Z	-2.496	-2.496	0	%100
85	MP2C	X	1.441	1.441	0	%100
86	MP2C	Z	-2.496	-2.496	0	%100
87	MP3C	X	1.441	1.441	0	%100
88	MP3C	Z	-2.496	-2.496	0	%100
89	MP4C	X	1.441	1.441	0	%100
90	MP4C	Z	-2.496	-2.496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.97	.97	0	%100
2	M1	Z	-.56	-.56	0	%100
3	M2	X	.97	.97	0	%100
4	M2	Z	-.56	-.56	0	%100
5	M3	X	3.88	3.88	0	%100
6	M3	Z	-2.24	-2.24	0	%100
7	M4	X	1.766	1.766	0	%100
8	M4	Z	-1.02	-1.02	0	%100
9	M5	X	1.766	1.766	0	%100
10	M5	Z	-1.02	-1.02	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	1.984	1.984	0	%100
14	M7	Z	-1.145	-1.145	0	%100
15	M8	X	1.984	1.984	0	%100
16	M8	Z	-1.145	-1.145	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	.97	.97	0	%100
20	M10	Z	-.56	-.56	0	%100
21	M11	X	.97	.97	0	%100
22	M11	Z	-.56	-.56	0	%100
23	M12	X	3.88	3.88	0	%100
24	M12	Z	-2.24	-2.24	0	%100
25	M13	X	2.533	2.533	0	%100
26	M13	Z	-1.462	-1.462	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	2.533	2.533	0	%100
30	M15	Z	-1.462	-1.462	0	%100
31	M16	X	.624	.624	0	%100
32	M16	Z	-.36	-.36	0	%100
33	M17	X	.624	.624	0	%100
34	M17	Z	-.36	-.36	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
35	M18	X	2.496	2.496	0	%100
36	M18	Z	-1.441	-1.441	0	%100
37	M19	X	2.315	2.315	0	%100
38	M19	Z	-1.337	-1.337	0	%100
39	M20	X	.579	.579	0	%100
40	M20	Z	-.334	-.334	0	%100
41	M21	X	.579	.579	0	%100
42	M21	Z	-.334	-.334	0	%100
43	M22	X	2.183	2.183	0	%100
44	M22	Z	-1.26	-1.26	0	%100
45	M23	X	3.126	3.126	0	%100
46	M23	Z	-1.805	-1.805	0	%100
47	M24	X	3.126	3.126	0	%100
48	M24	Z	-1.805	-1.805	0	%100
49	M25	X	.006	.006	0	%100
50	M25	Z	-.003	-.003	0	%100
51	M26	X	2.853	2.853	0	%100
52	M26	Z	-1.647	-1.647	0	%100
53	M27	X	2.537	2.537	0	%100
54	M27	Z	-1.465	-1.465	0	%100
55	M28	X	2.067	2.067	0	%100
56	M28	Z	-1.194	-1.194	0	%100
57	M29	X	.07	.07	0	%100
58	M29	Z	-.04	-.04	0	%100
59	M30	X	2.626	2.626	0	%100
60	M30	Z	-1.516	-1.516	0	%100
61	M31	X	2.043	2.043	0	%100
62	M31	Z	-1.18	-1.18	0	%100
63	M32	X	2.043	2.043	0	%100
64	M32	Z	-1.18	-1.18	0	%100
65	M33	X	2.043	2.043	0	%100
66	M33	Z	-1.18	-1.18	0	%100
67	MP1A	X	2.496	2.496	0	%100
68	MP1A	Z	-1.441	-1.441	0	%100
69	MP2A	X	2.496	2.496	0	%100
70	MP2A	Z	-1.441	-1.441	0	%100
71	MP3A	X	2.496	2.496	0	%100
72	MP3A	Z	-1.441	-1.441	0	%100
73	MP4A	X	2.496	2.496	0	%100
74	MP4A	Z	-1.441	-1.441	0	%100
75	MP1B	X	2.496	2.496	0	%100
76	MP1B	Z	-1.441	-1.441	0	%100
77	MP2B	X	2.496	2.496	0	%100
78	MP2B	Z	-1.441	-1.441	0	%100
79	MP3B	X	2.496	2.496	0	%100
80	MP3B	Z	-1.441	-1.441	0	%100
81	MP4B	X	2.496	2.496	0	%100
82	MP4B	Z	-1.441	-1.441	0	%100
83	MP1C	X	2.496	2.496	0	%100
84	MP1C	Z	-1.441	-1.441	0	%100
85	MP2C	X	2.496	2.496	0	%100
86	MP2C	Z	-1.441	-1.441	0	%100
87	MP3C	X	2.496	2.496	0	%100
88	MP3C	Z	-1.441	-1.441	0	%100
89	MP4C	X	2.496	2.496	0	%100
90	MP4C	Z	-1.441	-1.441	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
3	M2	X	3.36	3.36	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	3.36	3.36	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	2.719	2.719	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	.68	.68	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.68	.68	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	3.054	3.054	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	.764	.764	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	.764	.764	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	3.36	3.36	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	3.36	3.36	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	.975	.975	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	.975	.975	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	3.9	3.9	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	0	0	0	%100
33	M17	X	2.162	2.162	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	2.162	2.162	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	2.005	2.005	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	0	0	0	%100
41	M21	X	2.005	2.005	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	2.884	2.884	0	%100
44	M22	Z	0	0	0	%100
45	M23	X	2.884	2.884	0	%100
46	M23	Z	0	0	0	%100
47	M24	X	3.973	3.973	0	%100
48	M24	Z	0	0	0	%100
49	M25	X	1.049	1.049	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	1.454	1.454	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	.947	.947	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	3.761	3.761	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	.547	.547	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	3.972	3.972	0	%100
60	M30	Z	0	0	0	%100
61	M31	X	2.359	2.359	0	%100
62	M31	Z	0	0	0	%100
63	M32	X	2.359	2.359	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
64	M32	Z	0	0	0	%100
65	M33	X	2.359	2.359	0	%100
66	M33	Z	0	0	0	%100
67	MP1A	X	2.882	2.882	0	%100
68	MP1A	Z	0	0	0	%100
69	MP2A	X	2.882	2.882	0	%100
70	MP2A	Z	0	0	0	%100
71	MP3A	X	2.882	2.882	0	%100
72	MP3A	Z	0	0	0	%100
73	MP4A	X	2.882	2.882	0	%100
74	MP4A	Z	0	0	0	%100
75	MP1B	X	2.882	2.882	0	%100
76	MP1B	Z	0	0	0	%100
77	MP2B	X	2.882	2.882	0	%100
78	MP2B	Z	0	0	0	%100
79	MP3B	X	2.882	2.882	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	2.882	2.882	0	%100
82	MP4B	Z	0	0	0	%100
83	MP1C	X	2.882	2.882	0	%100
84	MP1C	Z	0	0	0	%100
85	MP2C	X	2.882	2.882	0	%100
86	MP2C	Z	0	0	0	%100
87	MP3C	X	2.882	2.882	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	2.882	2.882	0	%100
90	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.97	.97	0	%100
2	M1	Z	.56	.56	0	%100
3	M2	X	3.88	3.88	0	%100
4	M2	Z	2.24	2.24	0	%100
5	M3	X	.97	.97	0	%100
6	M3	Z	.56	.56	0	%100
7	M4	X	1.766	1.766	0	%100
8	M4	Z	1.02	1.02	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	1.766	1.766	0	%100
12	M6	Z	1.02	1.02	0	%100
13	M7	X	1.984	1.984	0	%100
14	M7	Z	1.145	1.145	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	1.984	1.984	0	%100
18	M9	Z	1.145	1.145	0	%100
19	M10	X	.97	.97	0	%100
20	M10	Z	.56	.56	0	%100
21	M11	X	3.88	3.88	0	%100
22	M11	Z	2.24	2.24	0	%100
23	M12	X	.97	.97	0	%100
24	M12	Z	.56	.56	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	2.533	2.533	0	%100
28	M14	Z	1.462	1.462	0	%100
29	M15	X	2.533	2.533	0	%100
30	M15	Z	1.462	1.462	0	%100
31	M16	X	.624	.624	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
32	M16	Z	.36	.36	0	%100
33	M17	X	2.496	2.496	0	%100
34	M17	Z	1.441	1.441	0	%100
35	M18	X	.624	.624	0	%100
36	M18	Z	.36	.36	0	%100
37	M19	X	.579	.579	0	%100
38	M19	Z	.334	.334	0	%100
39	M20	X	.579	.579	0	%100
40	M20	Z	.334	.334	0	%100
41	M21	X	2.315	2.315	0	%100
42	M21	Z	1.337	1.337	0	%100
43	M22	X	3.126	3.126	0	%100
44	M22	Z	1.805	1.805	0	%100
45	M23	X	2.183	2.183	0	%100
46	M23	Z	1.26	1.26	0	%100
47	M24	X	3.126	3.126	0	%100
48	M24	Z	1.805	1.805	0	%100
49	M25	X	2.626	2.626	0	%100
50	M25	Z	1.516	1.516	0	%100
51	M26	X	.07	.07	0	%100
52	M26	Z	.04	.04	0	%100
53	M27	X	.006	.006	0	%100
54	M27	Z	.003	.003	0	%100
55	M28	X	2.853	2.853	0	%100
56	M28	Z	1.647	1.647	0	%100
57	M29	X	2.067	2.067	0	%100
58	M29	Z	1.194	1.194	0	%100
59	M30	X	2.537	2.537	0	%100
60	M30	Z	1.465	1.465	0	%100
61	M31	X	2.043	2.043	0	%100
62	M31	Z	1.18	1.18	0	%100
63	M32	X	2.043	2.043	0	%100
64	M32	Z	1.18	1.18	0	%100
65	M33	X	2.043	2.043	0	%100
66	M33	Z	1.18	1.18	0	%100
67	MP1A	X	2.496	2.496	0	%100
68	MP1A	Z	1.441	1.441	0	%100
69	MP2A	X	2.496	2.496	0	%100
70	MP2A	Z	1.441	1.441	0	%100
71	MP3A	X	2.496	2.496	0	%100
72	MP3A	Z	1.441	1.441	0	%100
73	MP4A	X	2.496	2.496	0	%100
74	MP4A	Z	1.441	1.441	0	%100
75	MP1B	X	2.496	2.496	0	%100
76	MP1B	Z	1.441	1.441	0	%100
77	MP2B	X	2.496	2.496	0	%100
78	MP2B	Z	1.441	1.441	0	%100
79	MP3B	X	2.496	2.496	0	%100
80	MP3B	Z	1.441	1.441	0	%100
81	MP4B	X	2.496	2.496	0	%100
82	MP4B	Z	1.441	1.441	0	%100
83	MP1C	X	2.496	2.496	0	%100
84	MP1C	Z	1.441	1.441	0	%100
85	MP2C	X	2.496	2.496	0	%100
86	MP2C	Z	1.441	1.441	0	%100
87	MP3C	X	2.496	2.496	0	%100
88	MP3C	Z	1.441	1.441	0	%100
89	MP4C	X	2.496	2.496	0	%100
90	MP4C	Z	1.441	1.441	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.68	1.68	0	%100
2	M1	Z	2.91	2.91	0	%100
3	M2	X	1.68	1.68	0	%100
4	M2	Z	2.91	2.91	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.34	.34	0	%100
8	M4	Z	.589	.589	0	%100
9	M5	X	.34	.34	0	%100
10	M5	Z	.589	.589	0	%100
11	M6	X	1.359	1.359	0	%100
12	M6	Z	2.355	2.355	0	%100
13	M7	X	.382	.382	0	%100
14	M7	Z	.661	.661	0	%100
15	M8	X	.382	.382	0	%100
16	M8	Z	.661	.661	0	%100
17	M9	X	1.527	1.527	0	%100
18	M9	Z	2.645	2.645	0	%100
19	M10	X	1.68	1.68	0	%100
20	M10	Z	2.91	2.91	0	%100
21	M11	X	1.68	1.68	0	%100
22	M11	Z	2.91	2.91	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	.487	.487	0	%100
26	M13	Z	.844	.844	0	%100
27	M14	X	1.95	1.95	0	%100
28	M14	Z	3.377	3.377	0	%100
29	M15	X	.487	.487	0	%100
30	M15	Z	.844	.844	0	%100
31	M16	X	1.081	1.081	0	%100
32	M16	Z	1.872	1.872	0	%100
33	M17	X	1.081	1.081	0	%100
34	M17	Z	1.872	1.872	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	1.002	1.002	0	%100
40	M20	Z	1.736	1.736	0	%100
41	M21	X	1.002	1.002	0	%100
42	M21	Z	1.736	1.736	0	%100
43	M22	X	1.986	1.986	0	%100
44	M22	Z	3.441	3.441	0	%100
45	M23	X	1.442	1.442	0	%100
46	M23	Z	2.497	2.497	0	%100
47	M24	X	1.442	1.442	0	%100
48	M24	Z	2.497	2.497	0	%100
49	M25	X	1.986	1.986	0	%100
50	M25	Z	3.44	3.44	0	%100
51	M26	X	.274	.274	0	%100
52	M26	Z	.474	.474	0	%100
53	M27	X	.524	.524	0	%100
54	M27	Z	.908	.908	0	%100
55	M28	X	.727	.727	0	%100
56	M28	Z	1.259	1.259	0	%100
57	M29	X	1.88	1.88	0	%100
58	M29	Z	3.257	3.257	0	%100
59	M30	X	.473	.473	0	%100
60	M30	Z	.82	.82	0	%100
61	M31	X	1.18	1.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	2.043	2.043	0	%100
63	M32	X	1.18	1.18	0	%100
64	M32	Z	2.043	2.043	0	%100
65	M33	X	1.18	1.18	0	%100
66	M33	Z	2.043	2.043	0	%100
67	MP1A	X	1.441	1.441	0	%100
68	MP1A	Z	2.496	2.496	0	%100
69	MP2A	X	1.441	1.441	0	%100
70	MP2A	Z	2.496	2.496	0	%100
71	MP3A	X	1.441	1.441	0	%100
72	MP3A	Z	2.496	2.496	0	%100
73	MP4A	X	1.441	1.441	0	%100
74	MP4A	Z	2.496	2.496	0	%100
75	MP1B	X	1.441	1.441	0	%100
76	MP1B	Z	2.496	2.496	0	%100
77	MP2B	X	1.441	1.441	0	%100
78	MP2B	Z	2.496	2.496	0	%100
79	MP3B	X	1.441	1.441	0	%100
80	MP3B	Z	2.496	2.496	0	%100
81	MP4B	X	1.441	1.441	0	%100
82	MP4B	Z	2.496	2.496	0	%100
83	MP1C	X	1.441	1.441	0	%100
84	MP1C	Z	2.496	2.496	0	%100
85	MP2C	X	1.441	1.441	0	%100
86	MP2C	Z	2.496	2.496	0	%100
87	MP3C	X	1.441	1.441	0	%100
88	MP3C	Z	2.496	2.496	0	%100
89	MP4C	X	1.441	1.441	0	%100
90	MP4C	Z	2.496	2.496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	4.48	4.48	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	1.12	1.12	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	1.12	1.12	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	2.039	2.039	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	2.039	2.039	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	2.291	2.291	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	2.291	2.291	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	4.48	4.48	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	1.12	1.12	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	1.12	1.12	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	2.925	2.925	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	2.925	2.925	0	%100
29	M15	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	2.882	2.882	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	.721	.721	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	.721	.721	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	.668	.668	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	2.673	2.673	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	.668	.668	0	%100
43	M22	X	0	0	0	%100
44	M22	Z	3.61	3.61	0	%100
45	M23	X	0	0	0	%100
46	M23	Z	3.61	3.61	0	%100
47	M24	X	0	0	0	%100
48	M24	Z	2.521	2.521	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	2.929	2.929	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	2.387	2.387	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	3.032	3.032	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	.081	.081	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	3.294	3.294	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	.006	.006	0	%100
61	M31	X	0	0	0	%100
62	M31	Z	2.359	2.359	0	%100
63	M32	X	0	0	0	%100
64	M32	Z	2.359	2.359	0	%100
65	M33	X	0	0	0	%100
66	M33	Z	2.359	2.359	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	2.882	2.882	0	%100
69	MP2A	X	0	0	0	%100
70	MP2A	Z	2.882	2.882	0	%100
71	MP3A	X	0	0	0	%100
72	MP3A	Z	2.882	2.882	0	%100
73	MP4A	X	0	0	0	%100
74	MP4A	Z	2.882	2.882	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	2.882	2.882	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	2.882	2.882	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	2.882	2.882	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	2.882	2.882	0	%100
83	MP1C	X	0	0	0	%100
84	MP1C	Z	2.882	2.882	0	%100
85	MP2C	X	0	0	0	%100
86	MP2C	Z	2.882	2.882	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	2.882	2.882	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	2.882	2.882	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.68	-1.68	0	%100
2	M1	Z	2.91	2.91	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-1.68	-1.68	0	%100
6	M3	Z	2.91	2.91	0	%100
7	M4	X	-.34	-.34	0	%100
8	M4	Z	.589	.589	0	%100
9	M5	X	-1.359	-1.359	0	%100
10	M5	Z	2.355	2.355	0	%100
11	M6	X	-.34	-.34	0	%100
12	M6	Z	.589	.589	0	%100
13	M7	X	-.382	-.382	0	%100
14	M7	Z	.661	.661	0	%100
15	M8	X	-1.527	-1.527	0	%100
16	M8	Z	2.645	2.645	0	%100
17	M9	X	-.382	-.382	0	%100
18	M9	Z	.661	.661	0	%100
19	M10	X	-1.68	-1.68	0	%100
20	M10	Z	2.91	2.91	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-1.68	-1.68	0	%100
24	M12	Z	2.91	2.91	0	%100
25	M13	X	-1.95	-1.95	0	%100
26	M13	Z	3.377	3.377	0	%100
27	M14	X	-.487	-.487	0	%100
28	M14	Z	.844	.844	0	%100
29	M15	X	-.487	-.487	0	%100
30	M15	Z	.844	.844	0	%100
31	M16	X	-1.081	-1.081	0	%100
32	M16	Z	1.872	1.872	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	-1.081	-1.081	0	%100
36	M18	Z	1.872	1.872	0	%100
37	M19	X	-1.002	-1.002	0	%100
38	M19	Z	1.736	1.736	0	%100
39	M20	X	-1.002	-1.002	0	%100
40	M20	Z	1.736	1.736	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	-1.442	-1.442	0	%100
44	M22	Z	2.497	2.497	0	%100
45	M23	X	-1.986	-1.986	0	%100
46	M23	Z	3.441	3.441	0	%100
47	M24	X	-1.442	-1.442	0	%100
48	M24	Z	2.497	2.497	0	%100
49	M25	X	-.473	-.473	0	%100
50	M25	Z	.82	.82	0	%100
51	M26	X	-1.88	-1.88	0	%100
52	M26	Z	3.257	3.257	0	%100
53	M27	X	-1.986	-1.986	0	%100
54	M27	Z	3.44	3.44	0	%100
55	M28	X	-.274	-.274	0	%100
56	M28	Z	.474	.474	0	%100
57	M29	X	-.727	-.727	0	%100
58	M29	Z	1.259	1.259	0	%100
59	M30	X	-.524	-.524	0	%100
60	M30	Z	.908	.908	0	%100
61	M31	X	-1.18	-1.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	2.043	2.043	0	%100
63	M32	X	-1.18	-1.18	0	%100
64	M32	Z	2.043	2.043	0	%100
65	M33	X	-1.18	-1.18	0	%100
66	M33	Z	2.043	2.043	0	%100
67	MP1A	X	-1.441	-1.441	0	%100
68	MP1A	Z	2.496	2.496	0	%100
69	MP2A	X	-1.441	-1.441	0	%100
70	MP2A	Z	2.496	2.496	0	%100
71	MP3A	X	-1.441	-1.441	0	%100
72	MP3A	Z	2.496	2.496	0	%100
73	MP4A	X	-1.441	-1.441	0	%100
74	MP4A	Z	2.496	2.496	0	%100
75	MP1B	X	-1.441	-1.441	0	%100
76	MP1B	Z	2.496	2.496	0	%100
77	MP2B	X	-1.441	-1.441	0	%100
78	MP2B	Z	2.496	2.496	0	%100
79	MP3B	X	-1.441	-1.441	0	%100
80	MP3B	Z	2.496	2.496	0	%100
81	MP4B	X	-1.441	-1.441	0	%100
82	MP4B	Z	2.496	2.496	0	%100
83	MP1C	X	-1.441	-1.441	0	%100
84	MP1C	Z	2.496	2.496	0	%100
85	MP2C	X	-1.441	-1.441	0	%100
86	MP2C	Z	2.496	2.496	0	%100
87	MP3C	X	-1.441	-1.441	0	%100
88	MP3C	Z	2.496	2.496	0	%100
89	MP4C	X	-1.441	-1.441	0	%100
90	MP4C	Z	2.496	2.496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.97	-.97	0	%100
2	M1	Z	.56	.56	0	%100
3	M2	X	-.97	-.97	0	%100
4	M2	Z	.56	.56	0	%100
5	M3	X	-3.88	-3.88	0	%100
6	M3	Z	2.24	2.24	0	%100
7	M4	X	-1.766	-1.766	0	%100
8	M4	Z	1.02	1.02	0	%100
9	M5	X	-1.766	-1.766	0	%100
10	M5	Z	1.02	1.02	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-1.984	-1.984	0	%100
14	M7	Z	1.145	1.145	0	%100
15	M8	X	-1.984	-1.984	0	%100
16	M8	Z	1.145	1.145	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-.97	-.97	0	%100
20	M10	Z	.56	.56	0	%100
21	M11	X	-.97	-.97	0	%100
22	M11	Z	.56	.56	0	%100
23	M12	X	-3.88	-3.88	0	%100
24	M12	Z	2.24	2.24	0	%100
25	M13	X	-2.533	-2.533	0	%100
26	M13	Z	1.462	1.462	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	-2.533	-2.533	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
30	M15	Z	1.462	1.462	0	%100
31	M16	X	-.624	-.624	0	%100
32	M16	Z	.36	.36	0	%100
33	M17	X	-.624	-.624	0	%100
34	M17	Z	.36	.36	0	%100
35	M18	X	-2.496	-2.496	0	%100
36	M18	Z	1.441	1.441	0	%100
37	M19	X	-2.315	-2.315	0	%100
38	M19	Z	1.337	1.337	0	%100
39	M20	X	-.579	-.579	0	%100
40	M20	Z	.334	.334	0	%100
41	M21	X	-.579	-.579	0	%100
42	M21	Z	.334	.334	0	%100
43	M22	X	-2.183	-2.183	0	%100
44	M22	Z	1.26	1.26	0	%100
45	M23	X	-3.126	-3.126	0	%100
46	M23	Z	1.805	1.805	0	%100
47	M24	X	-3.126	-3.126	0	%100
48	M24	Z	1.805	1.805	0	%100
49	M25	X	-.006	-.006	0	%100
50	M25	Z	.003	.003	0	%100
51	M26	X	-2.853	-2.853	0	%100
52	M26	Z	1.647	1.647	0	%100
53	M27	X	-2.537	-2.537	0	%100
54	M27	Z	1.465	1.465	0	%100
55	M28	X	-2.067	-2.067	0	%100
56	M28	Z	1.194	1.194	0	%100
57	M29	X	-.07	-.07	0	%100
58	M29	Z	.04	.04	0	%100
59	M30	X	-2.626	-2.626	0	%100
60	M30	Z	1.516	1.516	0	%100
61	M31	X	-2.043	-2.043	0	%100
62	M31	Z	1.18	1.18	0	%100
63	M32	X	-2.043	-2.043	0	%100
64	M32	Z	1.18	1.18	0	%100
65	M33	X	-2.043	-2.043	0	%100
66	M33	Z	1.18	1.18	0	%100
67	MP1A	X	-2.496	-2.496	0	%100
68	MP1A	Z	1.441	1.441	0	%100
69	MP2A	X	-2.496	-2.496	0	%100
70	MP2A	Z	1.441	1.441	0	%100
71	MP3A	X	-2.496	-2.496	0	%100
72	MP3A	Z	1.441	1.441	0	%100
73	MP4A	X	-2.496	-2.496	0	%100
74	MP4A	Z	1.441	1.441	0	%100
75	MP1B	X	-2.496	-2.496	0	%100
76	MP1B	Z	1.441	1.441	0	%100
77	MP2B	X	-2.496	-2.496	0	%100
78	MP2B	Z	1.441	1.441	0	%100
79	MP3B	X	-2.496	-2.496	0	%100
80	MP3B	Z	1.441	1.441	0	%100
81	MP4B	X	-2.496	-2.496	0	%100
82	MP4B	Z	1.441	1.441	0	%100
83	MP1C	X	-2.496	-2.496	0	%100
84	MP1C	Z	1.441	1.441	0	%100
85	MP2C	X	-2.496	-2.496	0	%100
86	MP2C	Z	1.441	1.441	0	%100
87	MP3C	X	-2.496	-2.496	0	%100
88	MP3C	Z	1.441	1.441	0	%100
89	MP4C	X	-2.496	-2.496	0	%100
90	MP4C	Z	1.441	1.441	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.36	-3.36	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-3.36	-3.36	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-2.719	-2.719	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-.68	-.68	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.68	-.68	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-3.054	-3.054	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-.764	-.764	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-.764	-.764	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-3.36	-3.36	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-3.36	-3.36	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	-.975	-.975	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	-.975	-.975	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	-3.9	-3.9	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	0	0	0	%100
33	M17	X	-2.162	-2.162	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	-2.162	-2.162	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	-2.005	-2.005	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	0	0	0	%100
41	M21	X	-2.005	-2.005	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	-2.884	-2.884	0	%100
44	M22	Z	0	0	0	%100
45	M23	X	-2.884	-2.884	0	%100
46	M23	Z	0	0	0	%100
47	M24	X	-3.973	-3.973	0	%100
48	M24	Z	0	0	0	%100
49	M25	X	-1.049	-1.049	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	-1.454	-1.454	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-.947	-.947	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	-3.761	-3.761	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	-.547	-.547	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	-3.972	-3.972	0	%100
60	M30	Z	0	0	0	%100
61	M31	X	-2.359	-2.359	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	0	0	0	%100
63	M32	X	-2.359	-2.359	0	%100
64	M32	Z	0	0	0	%100
65	M33	X	-2.359	-2.359	0	%100
66	M33	Z	0	0	0	%100
67	MP1A	X	-2.882	-2.882	0	%100
68	MP1A	Z	0	0	0	%100
69	MP2A	X	-2.882	-2.882	0	%100
70	MP2A	Z	0	0	0	%100
71	MP3A	X	-2.882	-2.882	0	%100
72	MP3A	Z	0	0	0	%100
73	MP4A	X	-2.882	-2.882	0	%100
74	MP4A	Z	0	0	0	%100
75	MP1B	X	-2.882	-2.882	0	%100
76	MP1B	Z	0	0	0	%100
77	MP2B	X	-2.882	-2.882	0	%100
78	MP2B	Z	0	0	0	%100
79	MP3B	X	-2.882	-2.882	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	-2.882	-2.882	0	%100
82	MP4B	Z	0	0	0	%100
83	MP1C	X	-2.882	-2.882	0	%100
84	MP1C	Z	0	0	0	%100
85	MP2C	X	-2.882	-2.882	0	%100
86	MP2C	Z	0	0	0	%100
87	MP3C	X	-2.882	-2.882	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-2.882	-2.882	0	%100
90	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-0.97	-0.97	0	%100
2	M1	Z	-0.56	-0.56	0	%100
3	M2	X	-3.88	-3.88	0	%100
4	M2	Z	-2.24	-2.24	0	%100
5	M3	X	-0.97	-0.97	0	%100
6	M3	Z	-0.56	-0.56	0	%100
7	M4	X	-1.766	-1.766	0	%100
8	M4	Z	-1.02	-1.02	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-1.766	-1.766	0	%100
12	M6	Z	-1.02	-1.02	0	%100
13	M7	X	-1.984	-1.984	0	%100
14	M7	Z	-1.145	-1.145	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-1.984	-1.984	0	%100
18	M9	Z	-1.145	-1.145	0	%100
19	M10	X	-0.97	-0.97	0	%100
20	M10	Z	-0.56	-0.56	0	%100
21	M11	X	-3.88	-3.88	0	%100
22	M11	Z	-2.24	-2.24	0	%100
23	M12	X	-0.97	-0.97	0	%100
24	M12	Z	-0.56	-0.56	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	-2.533	-2.533	0	%100
28	M14	Z	-1.462	-1.462	0	%100
29	M15	X	-2.533	-2.533	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
30	M15	Z	-1.462	-1.462	0	%100
31	M16	X	-.624	-.624	0	%100
32	M16	Z	-.36	-.36	0	%100
33	M17	X	-2.496	-2.496	0	%100
34	M17	Z	-1.441	-1.441	0	%100
35	M18	X	-.624	-.624	0	%100
36	M18	Z	-.36	-.36	0	%100
37	M19	X	-.579	-.579	0	%100
38	M19	Z	-.334	-.334	0	%100
39	M20	X	-.579	-.579	0	%100
40	M20	Z	-.334	-.334	0	%100
41	M21	X	-2.315	-2.315	0	%100
42	M21	Z	-1.337	-1.337	0	%100
43	M22	X	-3.126	-3.126	0	%100
44	M22	Z	-1.805	-1.805	0	%100
45	M23	X	-2.183	-2.183	0	%100
46	M23	Z	-1.26	-1.26	0	%100
47	M24	X	-3.126	-3.126	0	%100
48	M24	Z	-1.805	-1.805	0	%100
49	M25	X	-2.626	-2.626	0	%100
50	M25	Z	-1.516	-1.516	0	%100
51	M26	X	-.07	-.07	0	%100
52	M26	Z	-.04	-.04	0	%100
53	M27	X	-.006	-.006	0	%100
54	M27	Z	-.003	-.003	0	%100
55	M28	X	-2.853	-2.853	0	%100
56	M28	Z	-1.647	-1.647	0	%100
57	M29	X	-2.067	-2.067	0	%100
58	M29	Z	-1.194	-1.194	0	%100
59	M30	X	-2.537	-2.537	0	%100
60	M30	Z	-1.465	-1.465	0	%100
61	M31	X	-2.043	-2.043	0	%100
62	M31	Z	-1.18	-1.18	0	%100
63	M32	X	-2.043	-2.043	0	%100
64	M32	Z	-1.18	-1.18	0	%100
65	M33	X	-2.043	-2.043	0	%100
66	M33	Z	-1.18	-1.18	0	%100
67	MP1A	X	-2.496	-2.496	0	%100
68	MP1A	Z	-1.441	-1.441	0	%100
69	MP2A	X	-2.496	-2.496	0	%100
70	MP2A	Z	-1.441	-1.441	0	%100
71	MP3A	X	-2.496	-2.496	0	%100
72	MP3A	Z	-1.441	-1.441	0	%100
73	MP4A	X	-2.496	-2.496	0	%100
74	MP4A	Z	-1.441	-1.441	0	%100
75	MP1B	X	-2.496	-2.496	0	%100
76	MP1B	Z	-1.441	-1.441	0	%100
77	MP2B	X	-2.496	-2.496	0	%100
78	MP2B	Z	-1.441	-1.441	0	%100
79	MP3B	X	-2.496	-2.496	0	%100
80	MP3B	Z	-1.441	-1.441	0	%100
81	MP4B	X	-2.496	-2.496	0	%100
82	MP4B	Z	-1.441	-1.441	0	%100
83	MP1C	X	-2.496	-2.496	0	%100
84	MP1C	Z	-1.441	-1.441	0	%100
85	MP2C	X	-2.496	-2.496	0	%100
86	MP2C	Z	-1.441	-1.441	0	%100
87	MP3C	X	-2.496	-2.496	0	%100
88	MP3C	Z	-1.441	-1.441	0	%100
89	MP4C	X	-2.496	-2.496	0	%100
90	MP4C	Z	-1.441	-1.441	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.68	-1.68	0	%100
2	M1	Z	-2.91	-2.91	0	%100
3	M2	X	-1.68	-1.68	0	%100
4	M2	Z	-2.91	-2.91	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-.34	-.34	0	%100
8	M4	Z	-.589	-.589	0	%100
9	M5	X	-.34	-.34	0	%100
10	M5	Z	-.589	-.589	0	%100
11	M6	X	-1.359	-1.359	0	%100
12	M6	Z	-2.355	-2.355	0	%100
13	M7	X	-.382	-.382	0	%100
14	M7	Z	-.661	-.661	0	%100
15	M8	X	-.382	-.382	0	%100
16	M8	Z	-.661	-.661	0	%100
17	M9	X	-1.527	-1.527	0	%100
18	M9	Z	-2.645	-2.645	0	%100
19	M10	X	-1.68	-1.68	0	%100
20	M10	Z	-2.91	-2.91	0	%100
21	M11	X	-1.68	-1.68	0	%100
22	M11	Z	-2.91	-2.91	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	-.487	-.487	0	%100
26	M13	Z	-.844	-.844	0	%100
27	M14	X	-1.95	-1.95	0	%100
28	M14	Z	-3.377	-3.377	0	%100
29	M15	X	-.487	-.487	0	%100
30	M15	Z	-.844	-.844	0	%100
31	M16	X	-1.081	-1.081	0	%100
32	M16	Z	-1.872	-1.872	0	%100
33	M17	X	-1.081	-1.081	0	%100
34	M17	Z	-1.872	-1.872	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	-1.002	-1.002	0	%100
40	M20	Z	-1.736	-1.736	0	%100
41	M21	X	-1.002	-1.002	0	%100
42	M21	Z	-1.736	-1.736	0	%100
43	M22	X	-1.986	-1.986	0	%100
44	M22	Z	-3.441	-3.441	0	%100
45	M23	X	-1.442	-1.442	0	%100
46	M23	Z	-2.497	-2.497	0	%100
47	M24	X	-1.442	-1.442	0	%100
48	M24	Z	-2.497	-2.497	0	%100
49	M25	X	-1.986	-1.986	0	%100
50	M25	Z	-3.44	-3.44	0	%100
51	M26	X	-.274	-.274	0	%100
52	M26	Z	-.474	-.474	0	%100
53	M27	X	-.524	-.524	0	%100
54	M27	Z	-.908	-.908	0	%100
55	M28	X	-.727	-.727	0	%100
56	M28	Z	-1.259	-1.259	0	%100
57	M29	X	-1.88	-1.88	0	%100
58	M29	Z	-3.257	-3.257	0	%100
59	M30	X	-.473	-.473	0	%100
60	M30	Z	-.82	-.82	0	%100
61	M31	X	-1.18	-1.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	-2.043	-2.043	0	%100
63	M32	X	-1.18	-1.18	0	%100
64	M32	Z	-2.043	-2.043	0	%100
65	M33	X	-1.18	-1.18	0	%100
66	M33	Z	-2.043	-2.043	0	%100
67	MP1A	X	-1.441	-1.441	0	%100
68	MP1A	Z	-2.496	-2.496	0	%100
69	MP2A	X	-1.441	-1.441	0	%100
70	MP2A	Z	-2.496	-2.496	0	%100
71	MP3A	X	-1.441	-1.441	0	%100
72	MP3A	Z	-2.496	-2.496	0	%100
73	MP4A	X	-1.441	-1.441	0	%100
74	MP4A	Z	-2.496	-2.496	0	%100
75	MP1B	X	-1.441	-1.441	0	%100
76	MP1B	Z	-2.496	-2.496	0	%100
77	MP2B	X	-1.441	-1.441	0	%100
78	MP2B	Z	-2.496	-2.496	0	%100
79	MP3B	X	-1.441	-1.441	0	%100
80	MP3B	Z	-2.496	-2.496	0	%100
81	MP4B	X	-1.441	-1.441	0	%100
82	MP4B	Z	-2.496	-2.496	0	%100
83	MP1C	X	-1.441	-1.441	0	%100
84	MP1C	Z	-2.496	-2.496	0	%100
85	MP2C	X	-1.441	-1.441	0	%100
86	MP2C	Z	-2.496	-2.496	0	%100
87	MP3C	X	-1.441	-1.441	0	%100
88	MP3C	Z	-2.496	-2.496	0	%100
89	MP4C	X	-1.441	-1.441	0	%100
90	MP4C	Z	-2.496	-2.496	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-1.096	-1.096	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.274	-.274	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.274	-.274	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-.476	-.476	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-.476	-.476	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	-.543	-.543	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	-.543	-.543	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	-1.096	-1.096	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	-.274	-.274	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	-.274	-.274	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	-.698	-.698	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	-.698	-.698	0	%100
29	M15	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	-.52	-.52	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	-.13	-.13	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	-.13	-.13	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	-.156	-.156	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	-.622	-.622	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	-.156	-.156	0	%100
43	M22	X	0	0	0	%100
44	M22	Z	-.857	-.857	0	%100
45	M23	X	0	0	0	%100
46	M23	Z	-.857	-.857	0	%100
47	M24	X	0	0	0	%100
48	M24	Z	-.687	-.687	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	-.673	-.673	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	-.545	-.545	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	-.697	-.697	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	-.018	-.018	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	-.751	-.751	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	-.001	-.001	0	%100
61	M31	X	0	0	0	%100
62	M31	Z	-.426	-.426	0	%100
63	M32	X	0	0	0	%100
64	M32	Z	-.426	-.426	0	%100
65	M33	X	0	0	0	%100
66	M33	Z	-.426	-.426	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	-.52	-.52	0	%100
69	MP2A	X	0	0	0	%100
70	MP2A	Z	-.52	-.52	0	%100
71	MP3A	X	0	0	0	%100
72	MP3A	Z	-.52	-.52	0	%100
73	MP4A	X	0	0	0	%100
74	MP4A	Z	-.52	-.52	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	-.52	-.52	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	-.52	-.52	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	-.52	-.52	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	-.52	-.52	0	%100
83	MP1C	X	0	0	0	%100
84	MP1C	Z	-.52	-.52	0	%100
85	MP2C	X	0	0	0	%100
86	MP2C	Z	-.52	-.52	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	-.52	-.52	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	-.52	-.52	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.411	.411	0	%100
2	M1	Z	-.712	-.712	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.411	.411	0	%100
6	M3	Z	-.712	-.712	0	%100
7	M4	X	.079	.079	0	%100
8	M4	Z	-.137	-.137	0	%100
9	M5	X	.317	.317	0	%100
10	M5	Z	-.549	-.549	0	%100
11	M6	X	.079	.079	0	%100
12	M6	Z	-.137	-.137	0	%100
13	M7	X	.091	.091	0	%100
14	M7	Z	-.157	-.157	0	%100
15	M8	X	.362	.362	0	%100
16	M8	Z	-.627	-.627	0	%100
17	M9	X	.091	.091	0	%100
18	M9	Z	-.157	-.157	0	%100
19	M10	X	.411	.411	0	%100
20	M10	Z	-.712	-.712	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	.411	.411	0	%100
24	M12	Z	-.712	-.712	0	%100
25	M13	X	.466	.466	0	%100
26	M13	Z	-.807	-.807	0	%100
27	M14	X	.116	.116	0	%100
28	M14	Z	-.202	-.202	0	%100
29	M15	X	.116	.116	0	%100
30	M15	Z	-.202	-.202	0	%100
31	M16	X	.195	.195	0	%100
32	M16	Z	-.338	-.338	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	.195	.195	0	%100
36	M18	Z	-.338	-.338	0	%100
37	M19	X	.233	.233	0	%100
38	M19	Z	-.404	-.404	0	%100
39	M20	X	.233	.233	0	%100
40	M20	Z	-.404	-.404	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	.372	.372	0	%100
44	M22	Z	-.644	-.644	0	%100
45	M23	X	.457	.457	0	%100
46	M23	Z	-.791	-.791	0	%100
47	M24	X	.372	.372	0	%100
48	M24	Z	-.644	-.644	0	%100
49	M25	X	.109	.109	0	%100
50	M25	Z	-.188	-.188	0	%100
51	M26	X	.429	.429	0	%100
52	M26	Z	-.743	-.743	0	%100
53	M27	X	.456	.456	0	%100
54	M27	Z	-.791	-.791	0	%100
55	M28	X	.062	.062	0	%100
56	M28	Z	-.108	-.108	0	%100
57	M29	X	.166	.166	0	%100
58	M29	Z	-.287	-.287	0	%100
59	M30	X	.121	.121	0	%100
60	M30	Z	-.209	-.209	0	%100
61	M31	X	.213	.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	-.369	-.369	0	%100
63	M32	X	.213	.213	0	%100
64	M32	Z	-.369	-.369	0	%100
65	M33	X	.213	.213	0	%100
66	M33	Z	-.369	-.369	0	%100
67	MP1A	X	.26	.26	0	%100
68	MP1A	Z	-.451	-.451	0	%100
69	MP2A	X	.26	.26	0	%100
70	MP2A	Z	-.451	-.451	0	%100
71	MP3A	X	.26	.26	0	%100
72	MP3A	Z	-.451	-.451	0	%100
73	MP4A	X	.26	.26	0	%100
74	MP4A	Z	-.451	-.451	0	%100
75	MP1B	X	.26	.26	0	%100
76	MP1B	Z	-.451	-.451	0	%100
77	MP2B	X	.26	.26	0	%100
78	MP2B	Z	-.451	-.451	0	%100
79	MP3B	X	.26	.26	0	%100
80	MP3B	Z	-.451	-.451	0	%100
81	MP4B	X	.26	.26	0	%100
82	MP4B	Z	-.451	-.451	0	%100
83	MP1C	X	.26	.26	0	%100
84	MP1C	Z	-.451	-.451	0	%100
85	MP2C	X	.26	.26	0	%100
86	MP2C	Z	-.451	-.451	0	%100
87	MP3C	X	.26	.26	0	%100
88	MP3C	Z	-.451	-.451	0	%100
89	MP4C	X	.26	.26	0	%100
90	MP4C	Z	-.451	-.451	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.237	.237	0	%100
2	M1	Z	-.137	-.137	0	%100
3	M2	X	.237	.237	0	%100
4	M2	Z	-.137	-.137	0	%100
5	M3	X	.949	.949	0	%100
6	M3	Z	-.548	-.548	0	%100
7	M4	X	.412	.412	0	%100
8	M4	Z	-.238	-.238	0	%100
9	M5	X	.412	.412	0	%100
10	M5	Z	-.238	-.238	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	.47	.47	0	%100
14	M7	Z	-.272	-.272	0	%100
15	M8	X	.47	.47	0	%100
16	M8	Z	-.272	-.272	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	.237	.237	0	%100
20	M10	Z	-.137	-.137	0	%100
21	M11	X	.237	.237	0	%100
22	M11	Z	-.137	-.137	0	%100
23	M12	X	.949	.949	0	%100
24	M12	Z	-.548	-.548	0	%100
25	M13	X	.605	.605	0	%100
26	M13	Z	-.349	-.349	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	.605	.605	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	M15	Z	-.349	-.349	0	%100
31	M16	X	.113	.113	0	%100
32	M16	Z	-.065	-.065	0	%100
33	M17	X	.113	.113	0	%100
34	M17	Z	-.065	-.065	0	%100
35	M18	X	.451	.451	0	%100
36	M18	Z	-.26	-.26	0	%100
37	M19	X	.539	.539	0	%100
38	M19	Z	-.311	-.311	0	%100
39	M20	X	.135	.135	0	%100
40	M20	Z	-.078	-.078	0	%100
41	M21	X	.135	.135	0	%100
42	M21	Z	-.078	-.078	0	%100
43	M22	X	.595	.595	0	%100
44	M22	Z	-.343	-.343	0	%100
45	M23	X	.742	.742	0	%100
46	M23	Z	-.428	-.428	0	%100
47	M24	X	.742	.742	0	%100
48	M24	Z	-.428	-.428	0	%100
49	M25	X	.001	.001	0	%100
50	M25	Z	-.000731	-.000731	0	%100
51	M26	X	.651	.651	0	%100
52	M26	Z	-.376	-.376	0	%100
53	M27	X	.583	.583	0	%100
54	M27	Z	-.337	-.337	0	%100
55	M28	X	.472	.472	0	%100
56	M28	Z	-.272	-.272	0	%100
57	M29	X	.016	.016	0	%100
58	M29	Z	-.009	-.009	0	%100
59	M30	X	.603	.603	0	%100
60	M30	Z	-.348	-.348	0	%100
61	M31	X	.369	.369	0	%100
62	M31	Z	-.213	-.213	0	%100
63	M32	X	.369	.369	0	%100
64	M32	Z	-.213	-.213	0	%100
65	M33	X	.369	.369	0	%100
66	M33	Z	-.213	-.213	0	%100
67	MP1A	X	.451	.451	0	%100
68	MP1A	Z	-.26	-.26	0	%100
69	MP2A	X	.451	.451	0	%100
70	MP2A	Z	-.26	-.26	0	%100
71	MP3A	X	.451	.451	0	%100
72	MP3A	Z	-.26	-.26	0	%100
73	MP4A	X	.451	.451	0	%100
74	MP4A	Z	-.26	-.26	0	%100
75	MP1B	X	.451	.451	0	%100
76	MP1B	Z	-.26	-.26	0	%100
77	MP2B	X	.451	.451	0	%100
78	MP2B	Z	-.26	-.26	0	%100
79	MP3B	X	.451	.451	0	%100
80	MP3B	Z	-.26	-.26	0	%100
81	MP4B	X	.451	.451	0	%100
82	MP4B	Z	-.26	-.26	0	%100
83	MP1C	X	.451	.451	0	%100
84	MP1C	Z	-.26	-.26	0	%100
85	MP2C	X	.451	.451	0	%100
86	MP2C	Z	-.26	-.26	0	%100
87	MP3C	X	.451	.451	0	%100
88	MP3C	Z	-.26	-.26	0	%100
89	MP4C	X	.451	.451	0	%100
90	MP4C	Z	-.26	-.26	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.822	.822	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	.822	.822	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.634	.634	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	.159	.159	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.159	.159	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	.724	.724	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	.181	.181	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	.181	.181	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	.822	.822	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	.822	.822	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	.233	.233	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	.233	.233	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	.931	.931	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	0	0	0	%100
33	M17	X	.39	.39	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	.39	.39	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	.467	.467	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	0	0	0	%100
41	M21	X	.467	.467	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	.743	.743	0	%100
44	M22	Z	0	0	0	%100
45	M23	X	.743	.743	0	%100
46	M23	Z	0	0	0	%100
47	M24	X	.913	.913	0	%100
48	M24	Z	0	0	0	%100
49	M25	X	.241	.241	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	.332	.332	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	.218	.218	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	.858	.858	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	.125	.125	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	.913	.913	0	%100
60	M30	Z	0	0	0	%100
61	M31	X	.426	.426	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	0	0	0	%100
63	M32	X	.426	.426	0	%100
64	M32	Z	0	0	0	%100
65	M33	X	.426	.426	0	%100
66	M33	Z	0	0	0	%100
67	MP1A	X	.52	.52	0	%100
68	MP1A	Z	0	0	0	%100
69	MP2A	X	.52	.52	0	%100
70	MP2A	Z	0	0	0	%100
71	MP3A	X	.52	.52	0	%100
72	MP3A	Z	0	0	0	%100
73	MP4A	X	.52	.52	0	%100
74	MP4A	Z	0	0	0	%100
75	MP1B	X	.52	.52	0	%100
76	MP1B	Z	0	0	0	%100
77	MP2B	X	.52	.52	0	%100
78	MP2B	Z	0	0	0	%100
79	MP3B	X	.52	.52	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	.52	.52	0	%100
82	MP4B	Z	0	0	0	%100
83	MP1C	X	.52	.52	0	%100
84	MP1C	Z	0	0	0	%100
85	MP2C	X	.52	.52	0	%100
86	MP2C	Z	0	0	0	%100
87	MP3C	X	.52	.52	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	.52	.52	0	%100
90	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.237	.237	0	%100
2	M1	Z	.137	.137	0	%100
3	M2	X	.949	.949	0	%100
4	M2	Z	.548	.548	0	%100
5	M3	X	.237	.237	0	%100
6	M3	Z	.137	.137	0	%100
7	M4	X	.412	.412	0	%100
8	M4	Z	.238	.238	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	.412	.412	0	%100
12	M6	Z	.238	.238	0	%100
13	M7	X	.47	.47	0	%100
14	M7	Z	.272	.272	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	.47	.47	0	%100
18	M9	Z	.272	.272	0	%100
19	M10	X	.237	.237	0	%100
20	M10	Z	.137	.137	0	%100
21	M11	X	.949	.949	0	%100
22	M11	Z	.548	.548	0	%100
23	M12	X	.237	.237	0	%100
24	M12	Z	.137	.137	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	.605	.605	0	%100
28	M14	Z	.349	.349	0	%100
29	M15	X	.605	.605	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	M15	Z	.349	.349	0	%100
31	M16	X	.113	.113	0	%100
32	M16	Z	.065	.065	0	%100
33	M17	X	.451	.451	0	%100
34	M17	Z	.26	.26	0	%100
35	M18	X	.113	.113	0	%100
36	M18	Z	.065	.065	0	%100
37	M19	X	.135	.135	0	%100
38	M19	Z	.078	.078	0	%100
39	M20	X	.135	.135	0	%100
40	M20	Z	.078	.078	0	%100
41	M21	X	.539	.539	0	%100
42	M21	Z	.311	.311	0	%100
43	M22	X	.742	.742	0	%100
44	M22	Z	.428	.428	0	%100
45	M23	X	.595	.595	0	%100
46	M23	Z	.343	.343	0	%100
47	M24	X	.742	.742	0	%100
48	M24	Z	.428	.428	0	%100
49	M25	X	.603	.603	0	%100
50	M25	Z	.348	.348	0	%100
51	M26	X	.016	.016	0	%100
52	M26	Z	.009	.009	0	%100
53	M27	X	.001	.001	0	%100
54	M27	Z	.000731	.000731	0	%100
55	M28	X	.651	.651	0	%100
56	M28	Z	.376	.376	0	%100
57	M29	X	.472	.472	0	%100
58	M29	Z	.272	.272	0	%100
59	M30	X	.583	.583	0	%100
60	M30	Z	.337	.337	0	%100
61	M31	X	.369	.369	0	%100
62	M31	Z	.213	.213	0	%100
63	M32	X	.369	.369	0	%100
64	M32	Z	.213	.213	0	%100
65	M33	X	.369	.369	0	%100
66	M33	Z	.213	.213	0	%100
67	MP1A	X	.451	.451	0	%100
68	MP1A	Z	.26	.26	0	%100
69	MP2A	X	.451	.451	0	%100
70	MP2A	Z	.26	.26	0	%100
71	MP3A	X	.451	.451	0	%100
72	MP3A	Z	.26	.26	0	%100
73	MP4A	X	.451	.451	0	%100
74	MP4A	Z	.26	.26	0	%100
75	MP1B	X	.451	.451	0	%100
76	MP1B	Z	.26	.26	0	%100
77	MP2B	X	.451	.451	0	%100
78	MP2B	Z	.26	.26	0	%100
79	MP3B	X	.451	.451	0	%100
80	MP3B	Z	.26	.26	0	%100
81	MP4B	X	.451	.451	0	%100
82	MP4B	Z	.26	.26	0	%100
83	MP1C	X	.451	.451	0	%100
84	MP1C	Z	.26	.26	0	%100
85	MP2C	X	.451	.451	0	%100
86	MP2C	Z	.26	.26	0	%100
87	MP3C	X	.451	.451	0	%100
88	MP3C	Z	.26	.26	0	%100
89	MP4C	X	.451	.451	0	%100
90	MP4C	Z	.26	.26	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.411	.411	0	%100
2	M1	Z	.712	.712	0	%100
3	M2	X	.411	.411	0	%100
4	M2	Z	.712	.712	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.079	.079	0	%100
8	M4	Z	.137	.137	0	%100
9	M5	X	.079	.079	0	%100
10	M5	Z	.137	.137	0	%100
11	M6	X	.317	.317	0	%100
12	M6	Z	.549	.549	0	%100
13	M7	X	.091	.091	0	%100
14	M7	Z	.157	.157	0	%100
15	M8	X	.091	.091	0	%100
16	M8	Z	.157	.157	0	%100
17	M9	X	.362	.362	0	%100
18	M9	Z	.627	.627	0	%100
19	M10	X	.411	.411	0	%100
20	M10	Z	.712	.712	0	%100
21	M11	X	.411	.411	0	%100
22	M11	Z	.712	.712	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	.116	.116	0	%100
26	M13	Z	.202	.202	0	%100
27	M14	X	.466	.466	0	%100
28	M14	Z	.807	.807	0	%100
29	M15	X	.116	.116	0	%100
30	M15	Z	.202	.202	0	%100
31	M16	X	.195	.195	0	%100
32	M16	Z	.338	.338	0	%100
33	M17	X	.195	.195	0	%100
34	M17	Z	.338	.338	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	.233	.233	0	%100
40	M20	Z	.404	.404	0	%100
41	M21	X	.233	.233	0	%100
42	M21	Z	.404	.404	0	%100
43	M22	X	.457	.457	0	%100
44	M22	Z	.791	.791	0	%100
45	M23	X	.372	.372	0	%100
46	M23	Z	.644	.644	0	%100
47	M24	X	.372	.372	0	%100
48	M24	Z	.644	.644	0	%100
49	M25	X	.456	.456	0	%100
50	M25	Z	.791	.791	0	%100
51	M26	X	.062	.062	0	%100
52	M26	Z	.108	.108	0	%100
53	M27	X	.121	.121	0	%100
54	M27	Z	.209	.209	0	%100
55	M28	X	.166	.166	0	%100
56	M28	Z	.287	.287	0	%100
57	M29	X	.429	.429	0	%100
58	M29	Z	.743	.743	0	%100
59	M30	X	.109	.109	0	%100
60	M30	Z	.188	.188	0	%100
61	M31	X	.213	.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	.369	.369	0	%100
63	M32	X	.213	.213	0	%100
64	M32	Z	.369	.369	0	%100
65	M33	X	.213	.213	0	%100
66	M33	Z	.369	.369	0	%100
67	MP1A	X	.26	.26	0	%100
68	MP1A	Z	.451	.451	0	%100
69	MP2A	X	.26	.26	0	%100
70	MP2A	Z	.451	.451	0	%100
71	MP3A	X	.26	.26	0	%100
72	MP3A	Z	.451	.451	0	%100
73	MP4A	X	.26	.26	0	%100
74	MP4A	Z	.451	.451	0	%100
75	MP1B	X	.26	.26	0	%100
76	MP1B	Z	.451	.451	0	%100
77	MP2B	X	.26	.26	0	%100
78	MP2B	Z	.451	.451	0	%100
79	MP3B	X	.26	.26	0	%100
80	MP3B	Z	.451	.451	0	%100
81	MP4B	X	.26	.26	0	%100
82	MP4B	Z	.451	.451	0	%100
83	MP1C	X	.26	.26	0	%100
84	MP1C	Z	.451	.451	0	%100
85	MP2C	X	.26	.26	0	%100
86	MP2C	Z	.451	.451	0	%100
87	MP3C	X	.26	.26	0	%100
88	MP3C	Z	.451	.451	0	%100
89	MP4C	X	.26	.26	0	%100
90	MP4C	Z	.451	.451	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	1.096	1.096	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.274	.274	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	.274	.274	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	.476	.476	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	.476	.476	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	.543	.543	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	.543	.543	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	1.096	1.096	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	.274	.274	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	.274	.274	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	.698	.698	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	.698	.698	0	%100
29	M15	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	.52	.52	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	.13	.13	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	.13	.13	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	.156	.156	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	.622	.622	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	.156	.156	0	%100
43	M22	X	0	0	0	%100
44	M22	Z	.857	.857	0	%100
45	M23	X	0	0	0	%100
46	M23	Z	.857	.857	0	%100
47	M24	X	0	0	0	%100
48	M24	Z	.687	.687	0	%100
49	M25	X	0	0	0	%100
50	M25	Z	.673	.673	0	%100
51	M26	X	0	0	0	%100
52	M26	Z	.545	.545	0	%100
53	M27	X	0	0	0	%100
54	M27	Z	.697	.697	0	%100
55	M28	X	0	0	0	%100
56	M28	Z	.018	.018	0	%100
57	M29	X	0	0	0	%100
58	M29	Z	.751	.751	0	%100
59	M30	X	0	0	0	%100
60	M30	Z	.001	.001	0	%100
61	M31	X	0	0	0	%100
62	M31	Z	.426	.426	0	%100
63	M32	X	0	0	0	%100
64	M32	Z	.426	.426	0	%100
65	M33	X	0	0	0	%100
66	M33	Z	.426	.426	0	%100
67	MP1A	X	0	0	0	%100
68	MP1A	Z	.52	.52	0	%100
69	MP2A	X	0	0	0	%100
70	MP2A	Z	.52	.52	0	%100
71	MP3A	X	0	0	0	%100
72	MP3A	Z	.52	.52	0	%100
73	MP4A	X	0	0	0	%100
74	MP4A	Z	.52	.52	0	%100
75	MP1B	X	0	0	0	%100
76	MP1B	Z	.52	.52	0	%100
77	MP2B	X	0	0	0	%100
78	MP2B	Z	.52	.52	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	.52	.52	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	.52	.52	0	%100
83	MP1C	X	0	0	0	%100
84	MP1C	Z	.52	.52	0	%100
85	MP2C	X	0	0	0	%100
86	MP2C	Z	.52	.52	0	%100
87	MP3C	X	0	0	0	%100
88	MP3C	Z	.52	.52	0	%100
89	MP4C	X	0	0	0	%100
90	MP4C	Z	.52	.52	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.411	-.411	0	%100
2	M1	Z	.712	.712	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.411	-.411	0	%100
6	M3	Z	.712	.712	0	%100
7	M4	X	-.079	-.079	0	%100
8	M4	Z	.137	.137	0	%100
9	M5	X	-.317	-.317	0	%100
10	M5	Z	.549	.549	0	%100
11	M6	X	-.079	-.079	0	%100
12	M6	Z	.137	.137	0	%100
13	M7	X	-.091	-.091	0	%100
14	M7	Z	.157	.157	0	%100
15	M8	X	-.362	-.362	0	%100
16	M8	Z	.627	.627	0	%100
17	M9	X	-.091	-.091	0	%100
18	M9	Z	.157	.157	0	%100
19	M10	X	-.411	-.411	0	%100
20	M10	Z	.712	.712	0	%100
21	M11	X	0	0	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-.411	-.411	0	%100
24	M12	Z	.712	.712	0	%100
25	M13	X	-.466	-.466	0	%100
26	M13	Z	.807	.807	0	%100
27	M14	X	-.116	-.116	0	%100
28	M14	Z	.202	.202	0	%100
29	M15	X	-.116	-.116	0	%100
30	M15	Z	.202	.202	0	%100
31	M16	X	-.195	-.195	0	%100
32	M16	Z	.338	.338	0	%100
33	M17	X	0	0	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	-.195	-.195	0	%100
36	M18	Z	.338	.338	0	%100
37	M19	X	-.233	-.233	0	%100
38	M19	Z	.404	.404	0	%100
39	M20	X	-.233	-.233	0	%100
40	M20	Z	.404	.404	0	%100
41	M21	X	0	0	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	-.372	-.372	0	%100
44	M22	Z	.644	.644	0	%100
45	M23	X	-.457	-.457	0	%100
46	M23	Z	.791	.791	0	%100
47	M24	X	-.372	-.372	0	%100
48	M24	Z	.644	.644	0	%100
49	M25	X	-.109	-.109	0	%100
50	M25	Z	.188	.188	0	%100
51	M26	X	-.429	-.429	0	%100
52	M26	Z	.743	.743	0	%100
53	M27	X	-.456	-.456	0	%100
54	M27	Z	.791	.791	0	%100
55	M28	X	-.062	-.062	0	%100
56	M28	Z	.108	.108	0	%100
57	M29	X	-.166	-.166	0	%100
58	M29	Z	.287	.287	0	%100
59	M30	X	-.121	-.121	0	%100
60	M30	Z	.209	.209	0	%100
61	M31	X	-.213	-.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	.369	.369	0	%100
63	M32	X	-.213	-.213	0	%100
64	M32	Z	.369	.369	0	%100
65	M33	X	-.213	-.213	0	%100
66	M33	Z	.369	.369	0	%100
67	MP1A	X	-.26	-.26	0	%100
68	MP1A	Z	.451	.451	0	%100
69	MP2A	X	-.26	-.26	0	%100
70	MP2A	Z	.451	.451	0	%100
71	MP3A	X	-.26	-.26	0	%100
72	MP3A	Z	.451	.451	0	%100
73	MP4A	X	-.26	-.26	0	%100
74	MP4A	Z	.451	.451	0	%100
75	MP1B	X	-.26	-.26	0	%100
76	MP1B	Z	.451	.451	0	%100
77	MP2B	X	-.26	-.26	0	%100
78	MP2B	Z	.451	.451	0	%100
79	MP3B	X	-.26	-.26	0	%100
80	MP3B	Z	.451	.451	0	%100
81	MP4B	X	-.26	-.26	0	%100
82	MP4B	Z	.451	.451	0	%100
83	MP1C	X	-.26	-.26	0	%100
84	MP1C	Z	.451	.451	0	%100
85	MP2C	X	-.26	-.26	0	%100
86	MP2C	Z	.451	.451	0	%100
87	MP3C	X	-.26	-.26	0	%100
88	MP3C	Z	.451	.451	0	%100
89	MP4C	X	-.26	-.26	0	%100
90	MP4C	Z	.451	.451	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.237	-.237	0	%100
2	M1	Z	.137	.137	0	%100
3	M2	X	-.237	-.237	0	%100
4	M2	Z	.137	.137	0	%100
5	M3	X	-.949	-.949	0	%100
6	M3	Z	.548	.548	0	%100
7	M4	X	-.412	-.412	0	%100
8	M4	Z	.238	.238	0	%100
9	M5	X	-.412	-.412	0	%100
10	M5	Z	.238	.238	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-.47	-.47	0	%100
14	M7	Z	.272	.272	0	%100
15	M8	X	-.47	-.47	0	%100
16	M8	Z	.272	.272	0	%100
17	M9	X	0	0	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	-.237	-.237	0	%100
20	M10	Z	.137	.137	0	%100
21	M11	X	-.237	-.237	0	%100
22	M11	Z	.137	.137	0	%100
23	M12	X	-.949	-.949	0	%100
24	M12	Z	.548	.548	0	%100
25	M13	X	-.605	-.605	0	%100
26	M13	Z	.349	.349	0	%100
27	M14	X	0	0	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	-.605	-.605	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
30	M15	Z	.349	.349	0	%100
31	M16	X	-.113	-.113	0	%100
32	M16	Z	.065	.065	0	%100
33	M17	X	-.113	-.113	0	%100
34	M17	Z	.065	.065	0	%100
35	M18	X	-.451	-.451	0	%100
36	M18	Z	.26	.26	0	%100
37	M19	X	-.539	-.539	0	%100
38	M19	Z	.311	.311	0	%100
39	M20	X	-.135	-.135	0	%100
40	M20	Z	.078	.078	0	%100
41	M21	X	-.135	-.135	0	%100
42	M21	Z	.078	.078	0	%100
43	M22	X	-.595	-.595	0	%100
44	M22	Z	.343	.343	0	%100
45	M23	X	-.742	-.742	0	%100
46	M23	Z	.428	.428	0	%100
47	M24	X	-.742	-.742	0	%100
48	M24	Z	.428	.428	0	%100
49	M25	X	-.001	-.001	0	%100
50	M25	Z	.000731	.000731	0	%100
51	M26	X	-.651	-.651	0	%100
52	M26	Z	.376	.376	0	%100
53	M27	X	-.583	-.583	0	%100
54	M27	Z	.337	.337	0	%100
55	M28	X	-.472	-.472	0	%100
56	M28	Z	.272	.272	0	%100
57	M29	X	-.016	-.016	0	%100
58	M29	Z	.009	.009	0	%100
59	M30	X	-.603	-.603	0	%100
60	M30	Z	.348	.348	0	%100
61	M31	X	-.369	-.369	0	%100
62	M31	Z	.213	.213	0	%100
63	M32	X	-.369	-.369	0	%100
64	M32	Z	.213	.213	0	%100
65	M33	X	-.369	-.369	0	%100
66	M33	Z	.213	.213	0	%100
67	MP1A	X	-.451	-.451	0	%100
68	MP1A	Z	.26	.26	0	%100
69	MP2A	X	-.451	-.451	0	%100
70	MP2A	Z	.26	.26	0	%100
71	MP3A	X	-.451	-.451	0	%100
72	MP3A	Z	.26	.26	0	%100
73	MP4A	X	-.451	-.451	0	%100
74	MP4A	Z	.26	.26	0	%100
75	MP1B	X	-.451	-.451	0	%100
76	MP1B	Z	.26	.26	0	%100
77	MP2B	X	-.451	-.451	0	%100
78	MP2B	Z	.26	.26	0	%100
79	MP3B	X	-.451	-.451	0	%100
80	MP3B	Z	.26	.26	0	%100
81	MP4B	X	-.451	-.451	0	%100
82	MP4B	Z	.26	.26	0	%100
83	MP1C	X	-.451	-.451	0	%100
84	MP1C	Z	.26	.26	0	%100
85	MP2C	X	-.451	-.451	0	%100
86	MP2C	Z	.26	.26	0	%100
87	MP3C	X	-.451	-.451	0	%100
88	MP3C	Z	.26	.26	0	%100
89	MP4C	X	-.451	-.451	0	%100
90	MP4C	Z	.26	.26	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.822	-.822	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-.822	-.822	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-.634	-.634	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-.159	-.159	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.159	-.159	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-.724	-.724	0	%100
14	M7	Z	0	0	0	%100
15	M8	X	-.181	-.181	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-.181	-.181	0	%100
18	M9	Z	0	0	0	%100
19	M10	X	0	0	0	%100
20	M10	Z	0	0	0	%100
21	M11	X	-.822	-.822	0	%100
22	M11	Z	0	0	0	%100
23	M12	X	-.822	-.822	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	-.233	-.233	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	-.233	-.233	0	%100
28	M14	Z	0	0	0	%100
29	M15	X	-.931	-.931	0	%100
30	M15	Z	0	0	0	%100
31	M16	X	0	0	0	%100
32	M16	Z	0	0	0	%100
33	M17	X	-.39	-.39	0	%100
34	M17	Z	0	0	0	%100
35	M18	X	-.39	-.39	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	-.467	-.467	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	0	0	0	%100
40	M20	Z	0	0	0	%100
41	M21	X	-.467	-.467	0	%100
42	M21	Z	0	0	0	%100
43	M22	X	-.743	-.743	0	%100
44	M22	Z	0	0	0	%100
45	M23	X	-.743	-.743	0	%100
46	M23	Z	0	0	0	%100
47	M24	X	-.913	-.913	0	%100
48	M24	Z	0	0	0	%100
49	M25	X	-.241	-.241	0	%100
50	M25	Z	0	0	0	%100
51	M26	X	-.332	-.332	0	%100
52	M26	Z	0	0	0	%100
53	M27	X	-.218	-.218	0	%100
54	M27	Z	0	0	0	%100
55	M28	X	-.858	-.858	0	%100
56	M28	Z	0	0	0	%100
57	M29	X	-.125	-.125	0	%100
58	M29	Z	0	0	0	%100
59	M30	X	-.913	-.913	0	%100
60	M30	Z	0	0	0	%100
61	M31	X	-.426	-.426	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
62	M31	Z	0	0	0	%100
63	M32	X	-.426	-.426	0	%100
64	M32	Z	0	0	0	%100
65	M33	X	-.426	-.426	0	%100
66	M33	Z	0	0	0	%100
67	MP1A	X	-.52	-.52	0	%100
68	MP1A	Z	0	0	0	%100
69	MP2A	X	-.52	-.52	0	%100
70	MP2A	Z	0	0	0	%100
71	MP3A	X	-.52	-.52	0	%100
72	MP3A	Z	0	0	0	%100
73	MP4A	X	-.52	-.52	0	%100
74	MP4A	Z	0	0	0	%100
75	MP1B	X	-.52	-.52	0	%100
76	MP1B	Z	0	0	0	%100
77	MP2B	X	-.52	-.52	0	%100
78	MP2B	Z	0	0	0	%100
79	MP3B	X	-.52	-.52	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	-.52	-.52	0	%100
82	MP4B	Z	0	0	0	%100
83	MP1C	X	-.52	-.52	0	%100
84	MP1C	Z	0	0	0	%100
85	MP2C	X	-.52	-.52	0	%100
86	MP2C	Z	0	0	0	%100
87	MP3C	X	-.52	-.52	0	%100
88	MP3C	Z	0	0	0	%100
89	MP4C	X	-.52	-.52	0	%100
90	MP4C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.237	-.237	0	%100
2	M1	Z	-.137	-.137	0	%100
3	M2	X	-.949	-.949	0	%100
4	M2	Z	-.548	-.548	0	%100
5	M3	X	-.237	-.237	0	%100
6	M3	Z	-.137	-.137	0	%100
7	M4	X	-.412	-.412	0	%100
8	M4	Z	-.238	-.238	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.412	-.412	0	%100
12	M6	Z	-.238	-.238	0	%100
13	M7	X	-.47	-.47	0	%100
14	M7	Z	-.272	-.272	0	%100
15	M8	X	0	0	0	%100
16	M8	Z	0	0	0	%100
17	M9	X	-.47	-.47	0	%100
18	M9	Z	-.272	-.272	0	%100
19	M10	X	-.237	-.237	0	%100
20	M10	Z	-.137	-.137	0	%100
21	M11	X	-.949	-.949	0	%100
22	M11	Z	-.548	-.548	0	%100
23	M12	X	-.237	-.237	0	%100
24	M12	Z	-.137	-.137	0	%100
25	M13	X	0	0	0	%100
26	M13	Z	0	0	0	%100
27	M14	X	-.605	-.605	0	%100
28	M14	Z	-.349	-.349	0	%100
29	M15	X	-.605	-.605	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
30	M15	Z	-.349	-.349	0	%100
31	M16	X	-.113	-.113	0	%100
32	M16	Z	-.065	-.065	0	%100
33	M17	X	-.451	-.451	0	%100
34	M17	Z	-.26	-.26	0	%100
35	M18	X	-.113	-.113	0	%100
36	M18	Z	-.065	-.065	0	%100
37	M19	X	-.135	-.135	0	%100
38	M19	Z	-.078	-.078	0	%100
39	M20	X	-.135	-.135	0	%100
40	M20	Z	-.078	-.078	0	%100
41	M21	X	-.539	-.539	0	%100
42	M21	Z	-.311	-.311	0	%100
43	M22	X	-.742	-.742	0	%100
44	M22	Z	-.428	-.428	0	%100
45	M23	X	-.595	-.595	0	%100
46	M23	Z	-.343	-.343	0	%100
47	M24	X	-.742	-.742	0	%100
48	M24	Z	-.428	-.428	0	%100
49	M25	X	-.603	-.603	0	%100
50	M25	Z	-.348	-.348	0	%100
51	M26	X	-.016	-.016	0	%100
52	M26	Z	-.009	-.009	0	%100
53	M27	X	-.001	-.001	0	%100
54	M27	Z	-.000731	-.000731	0	%100
55	M28	X	-.651	-.651	0	%100
56	M28	Z	-.376	-.376	0	%100
57	M29	X	-.472	-.472	0	%100
58	M29	Z	-.272	-.272	0	%100
59	M30	X	-.583	-.583	0	%100
60	M30	Z	-.337	-.337	0	%100
61	M31	X	-.369	-.369	0	%100
62	M31	Z	-.213	-.213	0	%100
63	M32	X	-.369	-.369	0	%100
64	M32	Z	-.213	-.213	0	%100
65	M33	X	-.369	-.369	0	%100
66	M33	Z	-.213	-.213	0	%100
67	MP1A	X	-.451	-.451	0	%100
68	MP1A	Z	-.26	-.26	0	%100
69	MP2A	X	-.451	-.451	0	%100
70	MP2A	Z	-.26	-.26	0	%100
71	MP3A	X	-.451	-.451	0	%100
72	MP3A	Z	-.26	-.26	0	%100
73	MP4A	X	-.451	-.451	0	%100
74	MP4A	Z	-.26	-.26	0	%100
75	MP1B	X	-.451	-.451	0	%100
76	MP1B	Z	-.26	-.26	0	%100
77	MP2B	X	-.451	-.451	0	%100
78	MP2B	Z	-.26	-.26	0	%100
79	MP3B	X	-.451	-.451	0	%100
80	MP3B	Z	-.26	-.26	0	%100
81	MP4B	X	-.451	-.451	0	%100
82	MP4B	Z	-.26	-.26	0	%100
83	MP1C	X	-.451	-.451	0	%100
84	MP1C	Z	-.26	-.26	0	%100
85	MP2C	X	-.451	-.451	0	%100
86	MP2C	Z	-.26	-.26	0	%100
87	MP3C	X	-.451	-.451	0	%100
88	MP3C	Z	-.26	-.26	0	%100
89	MP4C	X	-.451	-.451	0	%100
90	MP4C	Z	-.26	-.26	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-411	-411	0	%100
2	M1	Z	-712	-712	0	%100
3	M2	X	-411	-411	0	%100
4	M2	Z	-712	-712	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-079	-079	0	%100
8	M4	Z	-137	-137	0	%100
9	M5	X	-079	-079	0	%100
10	M5	Z	-137	-137	0	%100
11	M6	X	-317	-317	0	%100
12	M6	Z	-549	-549	0	%100
13	M7	X	-091	-091	0	%100
14	M7	Z	-157	-157	0	%100
15	M8	X	-091	-091	0	%100
16	M8	Z	-157	-157	0	%100
17	M9	X	-362	-362	0	%100
18	M9	Z	-627	-627	0	%100
19	M10	X	-411	-411	0	%100
20	M10	Z	-712	-712	0	%100
21	M11	X	-411	-411	0	%100
22	M11	Z	-712	-712	0	%100
23	M12	X	0	0	0	%100
24	M12	Z	0	0	0	%100
25	M13	X	-116	-116	0	%100
26	M13	Z	-202	-202	0	%100
27	M14	X	-466	-466	0	%100
28	M14	Z	-807	-807	0	%100
29	M15	X	-116	-116	0	%100
30	M15	Z	-202	-202	0	%100
31	M16	X	-195	-195	0	%100
32	M16	Z	-338	-338	0	%100
33	M17	X	-195	-195	0	%100
34	M17	Z	-338	-338	0	%100
35	M18	X	0	0	0	%100
36	M18	Z	0	0	0	%100
37	M19	X	0	0	0	%100
38	M19	Z	0	0	0	%100
39	M20	X	-233	-233	0	%100
40	M20	Z	-404	-404	0	%100
41	M21	X	-233	-233	0	%100
42	M21	Z	-404	-404	0	%100
43	M22	X	-457	-457	0	%100
44	M22	Z	-791	-791	0	%100
45	M23	X	-372	-372	0	%100
46	M23	Z	-644	-644	0	%100
47	M24	X	-372	-372	0	%100
48	M24	Z	-644	-644	0	%100
49	M25	X	-456	-456	0	%100
50	M25	Z	-791	-791	0	%100
51	M26	X	-062	-062	0	%100
52	M26	Z	-108	-108	0	%100
53	M27	X	-121	-121	0	%100
54	M27	Z	-209	-209	0	%100
55	M28	X	-166	-166	0	%100
56	M28	Z	-287	-287	0	%100
57	M29	X	-429	-429	0	%100
58	M29	Z	-743	-743	0	%100
59	M30	X	-109	-109	0	%100
60	M30	Z	-188	-188	0	%100
61	M31	X	-213	-213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
62	M31	Z	-.369	-.369	0	%100
63	M32	X	-.213	-.213	0	%100
64	M32	Z	-.369	-.369	0	%100
65	M33	X	-.213	-.213	0	%100
66	M33	Z	-.369	-.369	0	%100
67	MP1A	X	-.26	-.26	0	%100
68	MP1A	Z	-.451	-.451	0	%100
69	MP2A	X	-.26	-.26	0	%100
70	MP2A	Z	-.451	-.451	0	%100
71	MP3A	X	-.26	-.26	0	%100
72	MP3A	Z	-.451	-.451	0	%100
73	MP4A	X	-.26	-.26	0	%100
74	MP4A	Z	-.451	-.451	0	%100
75	MP1B	X	-.26	-.26	0	%100
76	MP1B	Z	-.451	-.451	0	%100
77	MP2B	X	-.26	-.26	0	%100
78	MP2B	Z	-.451	-.451	0	%100
79	MP3B	X	-.26	-.26	0	%100
80	MP3B	Z	-.451	-.451	0	%100
81	MP4B	X	-.26	-.26	0	%100
82	MP4B	Z	-.451	-.451	0	%100
83	MP1C	X	-.26	-.26	0	%100
84	MP1C	Z	-.451	-.451	0	%100
85	MP2C	X	-.26	-.26	0	%100
86	MP2C	Z	-.451	-.451	0	%100
87	MP3C	X	-.26	-.26	0	%100
88	MP3C	Z	-.451	-.451	0	%100
89	MP4C	X	-.26	-.26	0	%100
90	MP4C	Z	-.451	-.451	0	%100

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	N2	max	1413.246	9	906.106	42	786.193	1	-1.097	1	1.491	9	.296	3
2		min	-1384.508	3	353.709	12	-534.018	7	-3.183	43	-1.47	3	-.255	9
3	N4	max	955.437	10	813.535	14	1229.814	1	1.575	14	1.288	8	2.572	17
4		min	-773.595	4	310.969	32	-1253.236	7	.371	8	-1.363	2	.92	11
5	N3	max	764.866	10	816.011	22	1258.96	1	1.496	13	1.253	12	-.908	4
6		min	-906.244	4	339.678	49	-1279.121	7	.389	7	-1.211	6	-2.632	22
7	N116	max	1617.263	20	1617.067	16	940.654	14	0	51	0	51	0	51
8		min	625.148	1	619.188	11	337.819	8	0	1	0	1	0	1
9	N117	max	-598.254	1	1599.482	20	929.404	24	0	51	0	51	0	51
10		min	-1600.404	19	602.711	2	332.693	6	0	1	0	1	0	1
11	N118	max	44.101	10	1549.766	24	-675.847	6	0	51	0	51	0	51
12		min	-44.147	4	574.426	6	-1782.722	24	0	1	0	1	0	1
13	N119	max	640.856	10	221.803	13	1309.385	1	.764	1	.29	10	.469	4
14		min	-651.911	4	-18.317	7	-1518.752	7	-.91	7	-.295	4	-.463	10
15	N127	max	1077.946	10	107.976	9	663.003	1	.345	1	.322	6	.564	4
16		min	-1133.107	4	-35.682	3	-680.403	7	-.339	7	-.3	12	-.512	10
17	N135	max	995.089	11	122.602	5	1027.518	12	.514	12	.313	1	.47	5
18		min	-1014.88	5	-44.877	11	-1064.975	6	-.517	6	-.324	7	-.488	11
19	Totals:	max	5617.694	10	7547.501	14	6183.402	1						
20		min	-5617.697	4	3175.549	8	-6183.392	7						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...phi*Pnt [lb]phi*Mn y...phi*Mn z...Cb	Eqn
1	M1	.464	14	31	.129	7	z	37	15778.129 46656 1.688 3.027 2...	H2-1
2	M2	.444	14	23	.109	7	z	17	15778.129 46656 1.688 3.32 3...	H2-1
3	M3	.448	0	16	.084	7	z	21	15778.129 46656 1.688 3.284 3...	H2-1

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

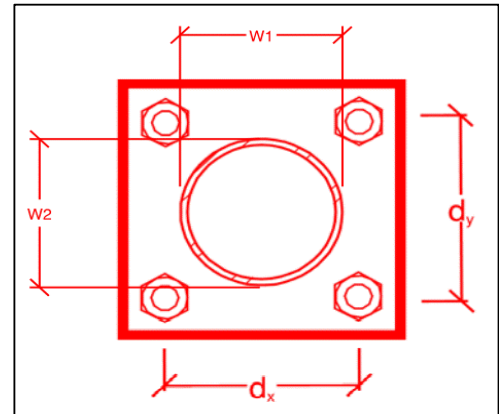
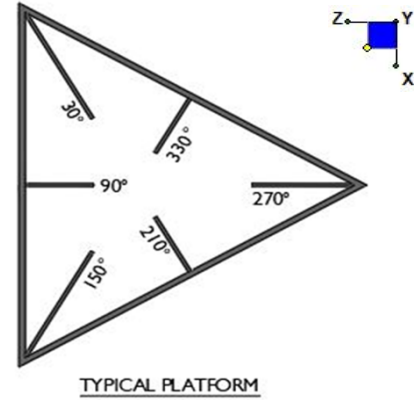
Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [..]	phi*Pnt [lb]	phi*Mn v...	phi*Mn z...	Cb	Eqn	
4	M4	HSS4X4X4	.207	1.375	21	.058	1.375	z	3	138418.4...	139518	16.181	16.181	1...	H1-1b
5	M5	HSS4X4X4	.207	1.375	24	.052	1.375	z	7	138418.4...	139518	16.181	16.181	1...	H1-1b
6	M6	HSS4X4X4	.209	1.375	14	.055	1.375	z	1	138418.4...	139518	16.181	16.181	1...	H1-1b
7	M7	HSS4.5X4.5...	.099	0	16	.035	0	z	46	156914.6...	158976	20.907	20.907	2...	H1-1b
8	M8	HSS4.5X4.5...	.101	0	14	.030	0	z	13	156914.6...	158976	20.907	20.907	1...	H1-1b
9	M9	HSS4.5X4.5...	.101	0	24	.026	0	z	18	156914.6...	158976	20.907	20.907	1...	H1-1b
10	M10	L3X3X4	.145	3.536	20	.019	0	z	14	15459.378	46656	1.688	3.406	1...	H2-1
11	M11	L3X3X4	.142	3.536	24	.019	0	z	15	15459.378	46656	1.688	3.408	1...	H2-1
12	M12	L3X3X4	.140	3.536	14	.019	7.072	z	24	15459.378	46656	1.688	3.407	1...	H2-1
13	M13	LL3x3x4x0	.366	1.458	24	.057	1.458	y	31	76288.155	93312	6.48	4.357	1...	H1-1b
14	M14	LL3x3x4x0	.360	1.458	14	.040	1.458	y	19	76288.155	93312	6.48	4.357	1...	H1-1b
15	M15	LL3x3x4x0	.347	1.458	21	.040	1.458	y	24	76288.155	93312	6.48	4.357	1...	H1-1b
16	M16	PIPE 2.0	.319	6.884	7	.119	10.259		7	17855.085	32130	1.872	1.872	1...	H1-1b
17	M17	PIPE 2.0	.267	6.884	11	.106	3.105		6	17855.085	32130	1.872	1.872	1...	H1-1b
18	M18	PIPE 2.0	.228	10.124	2	.093	10.259		2	17855.085	32130	1.872	1.872	1...	H1-1b
19	M19	L2.5x2.5x4	.138	0	7	.022	0	z	6	36538.191	38556	1.114	2.537	1...	H2-1
20	M20	L2.5x2.5x4	.129	0	12	.020	0	z	11	36538.191	38556	1.114	2.537	2...	H2-1
21	M21	L2.5x2.5x4	.103	1.283	1	.055	0	z	27	36538.191	38556	1.114	2.537	1...	H2-1
22	M22	LL2.5x2.5x4x3	.118	0	20	.004	0	y	20	45279.358	77112	5.321	3.024	1...	H1-1b
23	M23	LL2.5x2.5x4x3	.118	0	16	.004	0	y	16	45279.358	77112	5.321	3.024	1...	H1-1b
24	M24	LL2.5x2.5x4x3	.113	0	24	.004	0	y	24	45279.358	77112	5.321	3.024	1...	H1-1b
25	M25	L2.5x2.5x4	.113	2.863	1	.004	5.61	z	12	13782.656	38556	1.114	2.19	1...	H2-1
26	M26	L2.5x2.5x4	.071	2.389	1	.005	4.68	z	6	18864.661	38556	1.114	2.282	1...	H2-1
27	M27	L2.5x2.5x4	.105	2.863	9	.005	5.61	z	2	13782.656	38556	1.114	2.19	1...	H2-1
28	M28	L2.5x2.5x4	.070	2.34	10	.006	4.68	y	10	18864.661	38556	1.114	2.282	1...	H2-1
29	M29	L2.5x2.5x4	.080	2.34	6	.007	4.68	y	6	18864.661	38556	1.114	2.282	1...	H2-1
30	M30	L2.5x2.5x4	.119	2.863	5	.004	5.61	z	10	13782.656	38556	1.114	2.19	1...	H2-1
31	M31	PIPE 2.0	.490	2.75	7	.207	2.75		8	28843.414	32130	1.872	1.872	4...	H1-1b
32	M32	PIPE 2.0	.307	2.75	4	.189	2.75		4	28843.414	32130	1.872	1.872	4...	H1-1b
33	M33	PIPE 2.0	.355	2.75	6	.215	2.75		6	28843.414	32130	1.872	1.872	4...	H1-1b
34	MP1A	PIPE 2.0	.172	3.813	1	.057	3.875		10	20866.733	32130	1.872	1.872	1...	H1-1b
35	MP2A	PIPE 2.0	.267	2	6	.082	2		4	14916.096	32130	1.872	1.872	2...	H1-1b
36	MP3A	PIPE 2.0	.092	2.083	7	.103	2.083		7	14916.096	32130	1.872	1.872	3...	H1-1b
37	MP4A	PIPE 2.0	.150	3.813	1	.057	3.875		4	20866.733	32130	1.872	1.872	1...	H1-1b
38	MP1B	PIPE 2.0	.172	3.813	5	.058	3.875		2	20866.733	32130	1.872	1.872	1...	H1-1b
39	MP2B	PIPE 2.0	.267	2	6	.082	2		4	14916.096	32130	1.872	1.872	1...	H1-1b
40	MP3B	PIPE 2.0	.084	2.083	12	.089	4.833		12	14916.096	32130	1.872	1.872	3...	H1-1b
41	MP4B	PIPE 2.0	.150	3.813	5	.058	3.875		8	20866.733	32130	1.872	1.872	1...	H1-1b
42	MP1C	PIPE 2.0	.163	3.813	9	.057	3.875		7	20866.733	32130	1.872	1.872	1...	H1-1b
43	MP2C	PIPE 2.0	.266	2	6	.082	2		4	14916.096	32130	1.872	1.872	1...	H1-1b
44	MP3C	PIPE 2.0	.075	2.083	4	.079	4.833		4	14916.096	32130	1.872	1.872	3...	H1-1b
45	MP4C	PIPE 2.0	.148	3.813	9	.057	3.875		1	20866.733	32130	1.872	1.872	1...	H1-1b



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N2	90
N3	330
N4	210



Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
W1 (in):	4
W2 (in):	4
Weld Size (1/16 in):	6
Phi*Rn (kip/in):	8.35
Required Weld Strength (kip/in):	3.05
Weld Capacity:	36.6%

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

Purpose – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

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



Base Requirements:







- Any special photos outside of the standard requirements will be indicated on the passing MA
- Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzsmart.com> as depicted on the drawings








Photo Requirements:


- **Base and “During Installation Photos”**
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- **Photos taken at ground level**
 - Overall tower structure before and after installation of the equipment modifications
 - Photos of the appropriate mount before and 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 each individual sector before and also after installation of equipment.


Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos

 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop

 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present

-  Certifications – Submission of this document including certifications

-  Specific Required Additional Photos

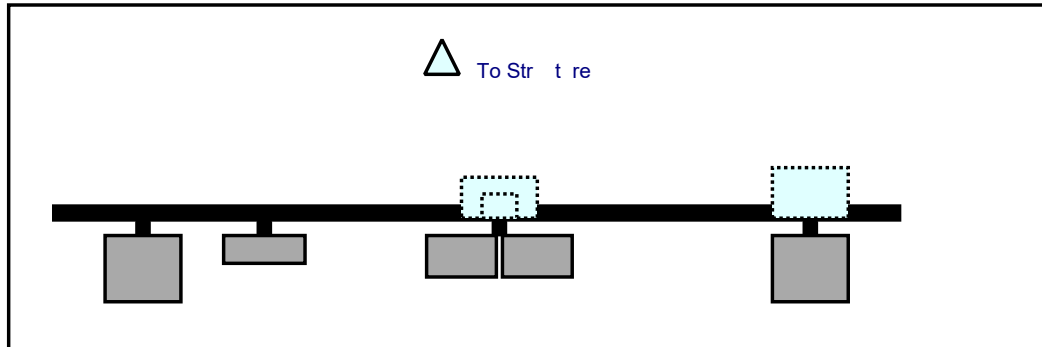
Se tor: A
 Str t re Type: Mo opole
 Mo t Elev: 173.75

5/21/2021



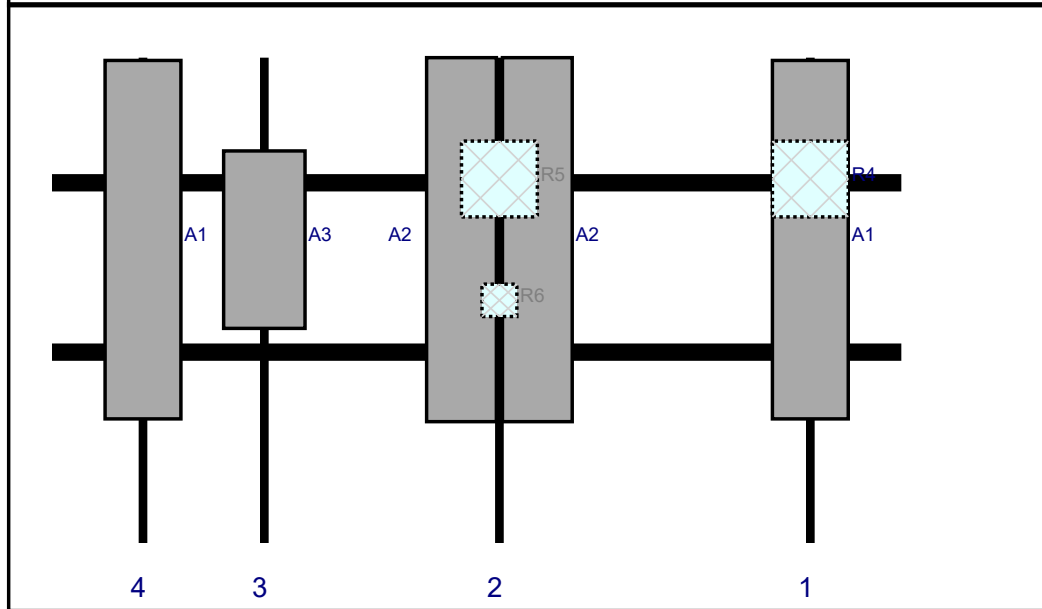
P ge: 1

Plan View



Front View

Loo i g t Str t re



Re #	Model	Height i	Width i	H Dist Fr L	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A1	LPA-80063/6CF_5	70.9	15	150	1		Fro t	36	0	Ret i ed	04/16/2021
R4	B2/B66A RRR-BR049	15	15	150	1		Behi d	24	0	Added	
A2	JAHH-65B-R3B	72	13.8	88.5	2		Fro t	36	-7.5	Ret i ed	04/16/2021
A2	JAHH-65B-R3B	72	13.8	88.5	2		Fro t	36	7.5	Ret i ed	04/16/2021
R5	B5/B13 RRR-BR04C	15	15	88.5	2		Behi d	24	0	Added	
R6	CBC78T-DS-43-2	6.4	6.9	88.5	2		Behi d	48	0	Added	
A3	MT6407-77A	35.1	16.1	42	3		Fro t	36	0	Added	
A1	LPA-80063/6CF_5	70.9	15	18	4		Fro t	36	0	Ret i ed	04/16/2021

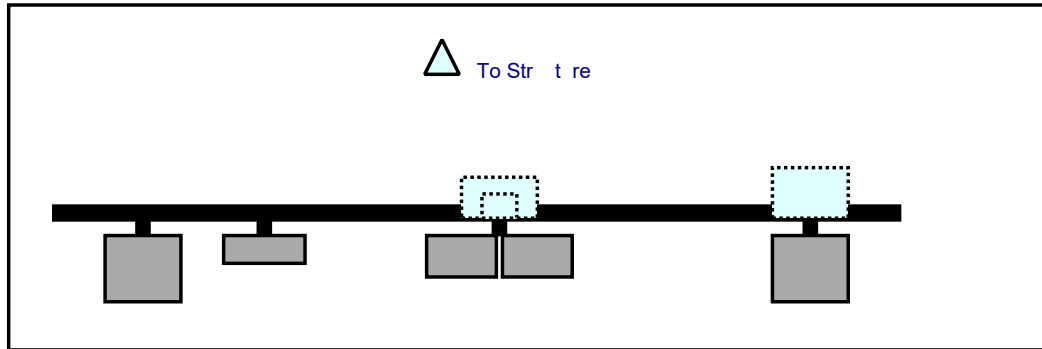
Se tor: **B**
 Str t re Type: Mo opole
 Mo t Elev: 173.75

5/21/2021



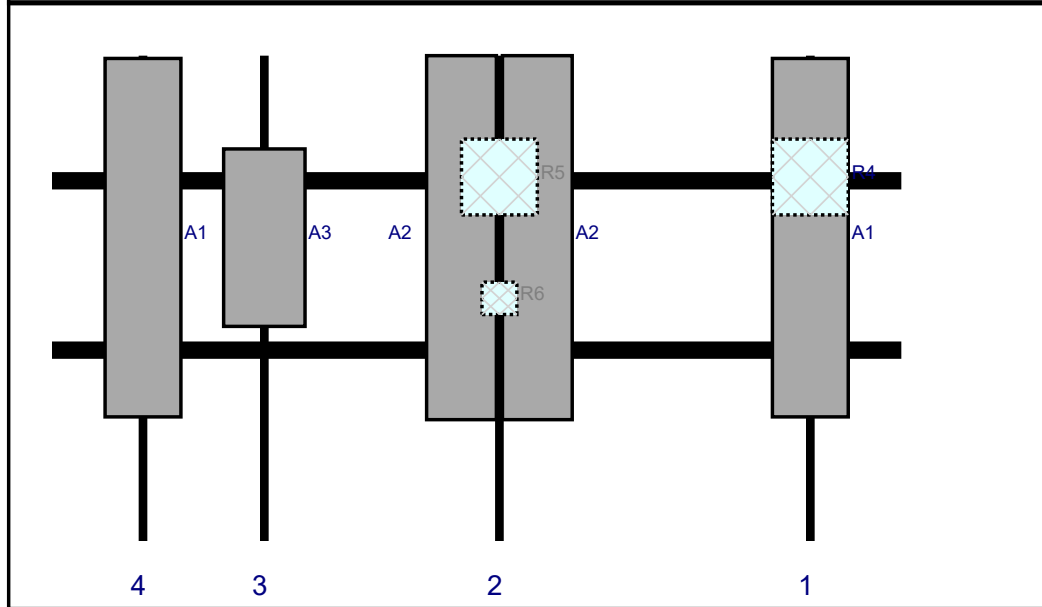
P ge: 2

Plan View



Front View

Lo o i g t Str t re



Re #	Model	Height i	Width i	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A1	LPA-80063/6CF_5	70.9	15	150	1		Fro t	36	0	Ret i ed	04/16/2021
R4	B2/B66A RRR-BR049	15	15	150	1		Behi d	24	0	Added	
A2	JAHH-65B-R3B	72	13.8	88.5	2		Fro t	36	-7.5	Ret i ed	04/16/2021
A2	JAHH-65B-R3B	72	13.8	88.5	2		Fro t	36	7.5	Ret i ed	04/16/2021
R5	B5/B13 RRR-BR04C	15	15	88.5	2		Behi d	24	0	Added	
R6	CBC78T-DS-43-2	6.4	6.9	88.5	2		Behi d	48	0	Added	
A3	MT6407-77A	35.1	16.1	42	3		Fro t	36	0	Added	
A1	LPA-80063/6CF_5	70.9	15	18	4		Fro t	36	0	Ret i ed	04/16/2021

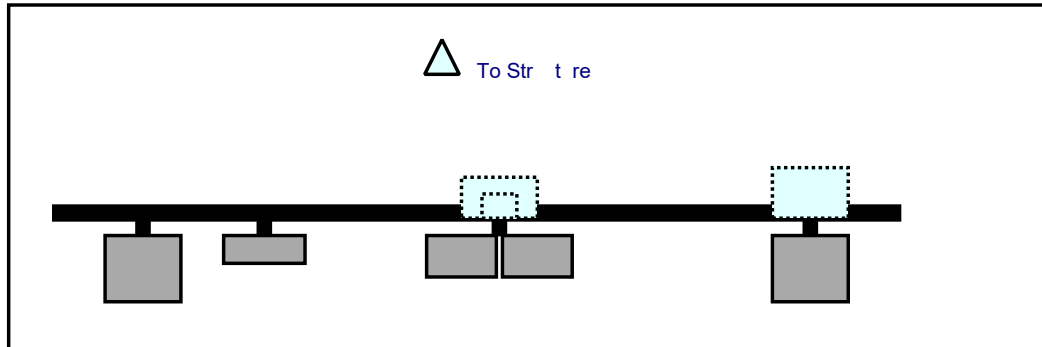
Se tor: C
 Str t re Type: Mo opole
 Mo t Elev: 173.75

5/21/2021



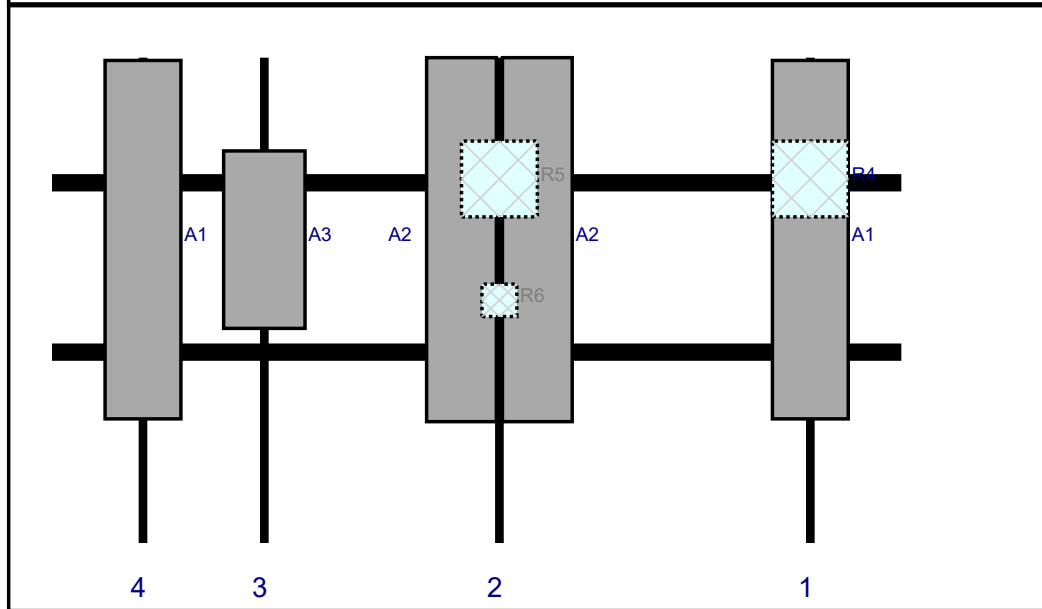
P ge: 3

Plan View



Front View

Lo o i g t Str t re



Re #	Model	Height i	Width i	H Dist Fr L	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A1	LPA-80063/6CF_5	70.9	15	150	1		Fro t	36	0	Ret i ed	04/16/2021
R4	B2/B66A RRR-BR049	15	15	150	1		Behi d	24	0	Added	
A2	JAHH-65B-R3B	72	13.8	88.5	2		Fro t	36	-7.5	Ret i ed	04/16/2021
A2	JAHH-65B-R3B	72	13.8	88.5	2		Fro t	36	7.5	Ret i ed	04/16/2021
R5	B5/B13 RRR-BR04C	15	15	88.5	2		Behi d	24	0	Added	
R6	CBC78T-DS-43-2	6.4	6.9	88.5	2		Behi d	48	0	Added	
A3	MT6407-77A	35.1	16.1	42	3		Fro t	36	0	Added	
A1	LPA-80063/6CF_5	70.9	15	18	4		Fro t	36	0	Ret i ed	04/16/2021

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID: 467932-VZW / HARWINTON N CT

Site Name: HARWINTON N CT

Carrier Name: Verizon Wireless

Address: 159 Weingart Rd
Harwinton, Connecticut 06791
Litchfield County

Latitude: 41.787753°

Longitude: -73.092531°

Structure Information

Tower Type: Monopole

Mount Type: 14.00-ft Platform

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 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The 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,

Justin Linette, PE
Sr. Technical Manager

Site Name: **HARWINTON N CT**
 Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW 700	751	4	622	2486	175	0.0029	0.5007	0.58%
VZW CDMA	878.49	2	499	998	175	0.0012	0.5857	0.20%
VZW Cellular	874	4	715	2858	175	0.0034	0.5827	0.58%
VZW PCS	1975	4	1552	6207	175	0.0073	1.0000	0.73%
VZW AWS	2120	4	1572	6288	175	0.0074	1.0000	0.74%
VZW CBAND	3730.08	4	6531	26125	175	0.0307	1.0000	3.07%
Total Percentage of Maximum Permissible Exposure								5.89%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

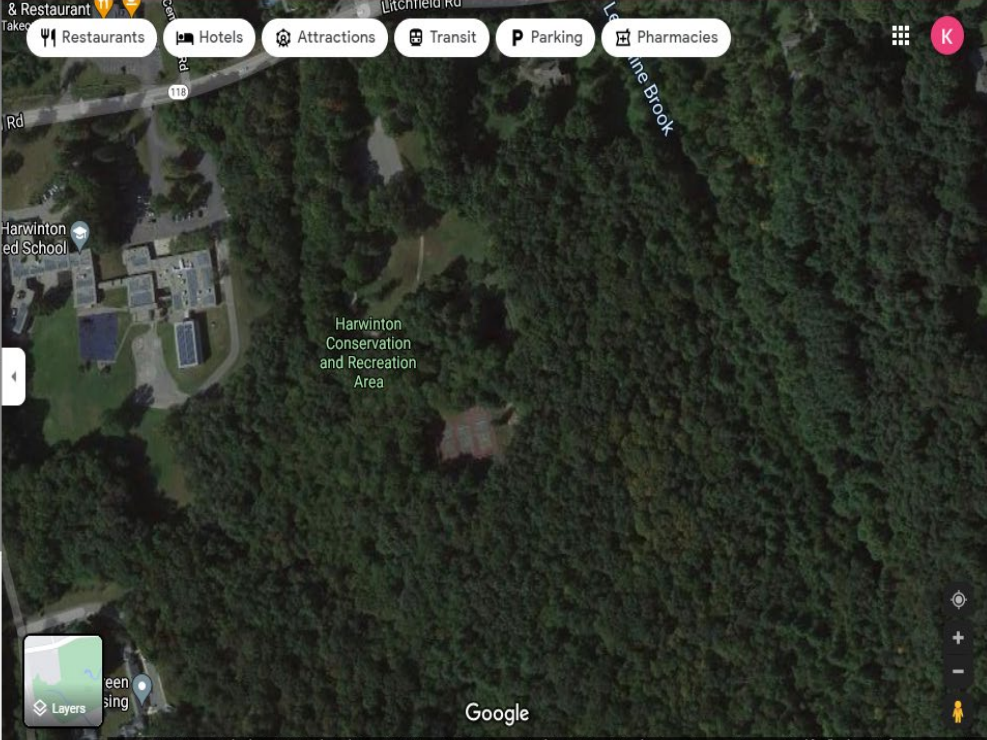
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Apps Imported From IE Settings - Passwords (265,855 unread) ... Dominion Energy C... https://sub.aesopo... Employee Self-Servi... Sitetracker Sign In Reading list

159 Weingart Rd, Harwinton, CT

Restaurants Hotels Attractions Transit Parking Pharmacies



Harwinton School

Harwinton Conservation and Recreation Area

159 Weingart Rd

Directions Save Nearby Send to your phone Share

- 159 Weingart Rd, Harwinton, CT 06791
- QWQ4+6P Harwinton, Connecticut
- Suggest an edit on 159 Weingart Rd
- Add a missing place
- Add your business

Google

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80°F Sunny 7:45 AM 7/30/2021



Summary

ParcelId 593
Account Number 3057
Location Address 159 WEINGART RD
Map-Block-Lot B8 /05 /0022

Use Class/Description 3-1 IND LAND
Assessing Neighborhood 0001A
Census Tract 298300000000
Acreage 5.35
Utilities

Owner

SBC TOWER HOLDINGS LLC
 PO BOX 723597
 ATLANTA, GA 31139

Current Appraised Value

	2019	2018	2017
+ Building Value	\$13,860	\$13,860	\$24,600
+ XF Value	\$0	\$0	\$0
+ OB Value	\$29,250	\$29,250	\$19,500
+ Land Value	\$319,240	\$319,240	\$129,170
+ Special Land Value			
+ Total Appraised Value	\$362,350	\$362,350	\$173,270
+ Net Appraised Value	\$362,350	\$362,350	\$173,270
+ Current Assessment	\$253,640	\$253,640	\$121,290

Assessment History

	2018	2017	2016	2015
+ Building Value	\$9,700	\$17,220	\$17,220	\$17,220
+ OB/Misc	\$20,480	\$13,650	\$13,650	\$13,650
+ Land	\$223,460	\$90,420	\$90,420	\$90,420
+ Total Assessment	\$253,640	\$121,290	\$121,290	\$121,290

Land

Use	Class	Zoning	Area	Value
3-1 IND LAND	I	TR1.5	1.5 AC	\$111,520
3-1 IND LAND	I		3.85 AC	\$27,720
3-1 IND LAND	I		1 BL	\$180,000

Commercial Building

Building # 1
Style Warehouse
Actual Year Built 1995
Effective Year Built 1993
Gross Area 312
Stories 1
Grade Average
Exterior Wall Concr/Cinder
Interior Wall Drywall/Sheet
Wall Height 9
Units 1
Roof Cover Concrete Tile
Roof Structure Flat
Floor Type Average
Heat Type Coal or Wood
Heat Fuel None
AC Type NONE
Sprinkler 01
Construction MASONRY
Plumbing NONE
Comm Walls 0

Building Sub Areas

Code	Description	Living Area	Gross Area	Effective Area
BAS	First Floor	312	312	312
	Totals	312	312	312

Out Buildings\Extra Features

Description	Sub Description	Area	Year Built	Value
PAVING		3900S.F.	1995	\$29,250

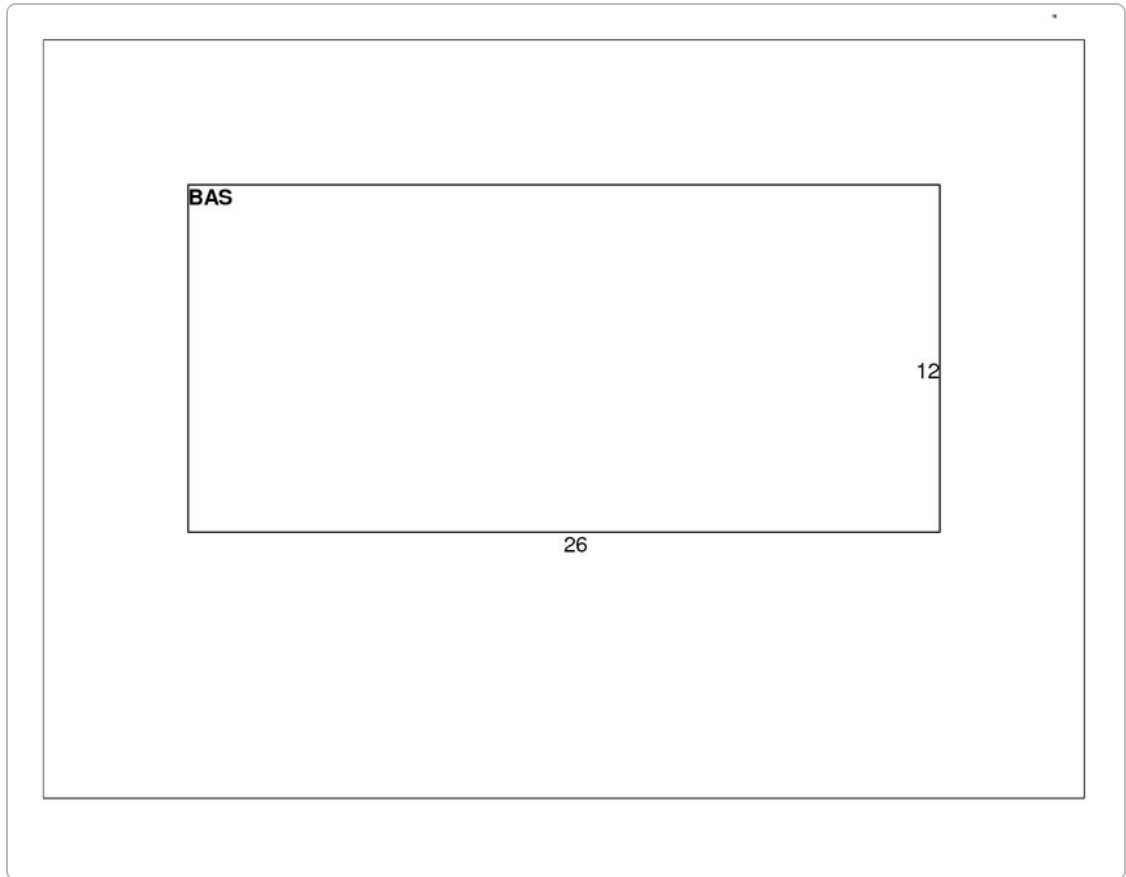
Sales History

Sales Date	Type of Document	Grantee	Vacant/Improved	Book/Page	Amount
08-19-2013		SBC TOWER HOLDINGS LLC	Improved	0240/1013	\$0
06-26-2013		AMERICAN TOWER ASSET SUB II LLC	Vacant	0240/0205	\$394,000
06-05-2002		CLEMENTE JAMIE L + LAURA DOROTHY M	Improved	0171/0811	\$0

Permit Information

Permit ID	Issue Date	Type	Description	Amount	Inspection Date	% Complete	Date Complete	Comments
	08-25-2020		CO ISSUED FOR 3 ANTE	\$0		0		
207CA	08-25-2020		CO ISSUED	\$0		0		3 NEW ANTENNAS
19157B	11-15-2019		3 NEW ANTENNAS	\$25,000		100		
CO	06-17-2019		CO ISSUED	\$0		0		
18112B	09-06-2018		6PANEL ANTENNAS	\$20,000		100		
1718CA	08-14-2017		CO ISSUED	\$0		0		
1737B	04-06-2017		REINFORCEMENT BARS	\$11,000		100		
1720B	02-17-2017		3 ANTENNAS	\$15,000		100		
9520	04-01-2015		ADDING 3 REMOTE RADI	\$4,750		0		
9447	11-13-2014		MODIFICATIONS	\$13,000		0		
9035	09-20-2013		GENERATOR	\$10,000		0		
8867	04-30-2013	EL	Electric	\$12,500		0		
8815	03-21-2013			\$20,000		0		CABINETS & CONCRETE SLAB
8709	11-21-2012		ANTENNAS	\$10,000		0		
7995	01-25-2011		CELLUAR SITE	\$12,000		0		
7986	12-22-2010	EL	Electric	\$15,000		0		

Sketch



No data available for the following modules: Building Data, Photos.

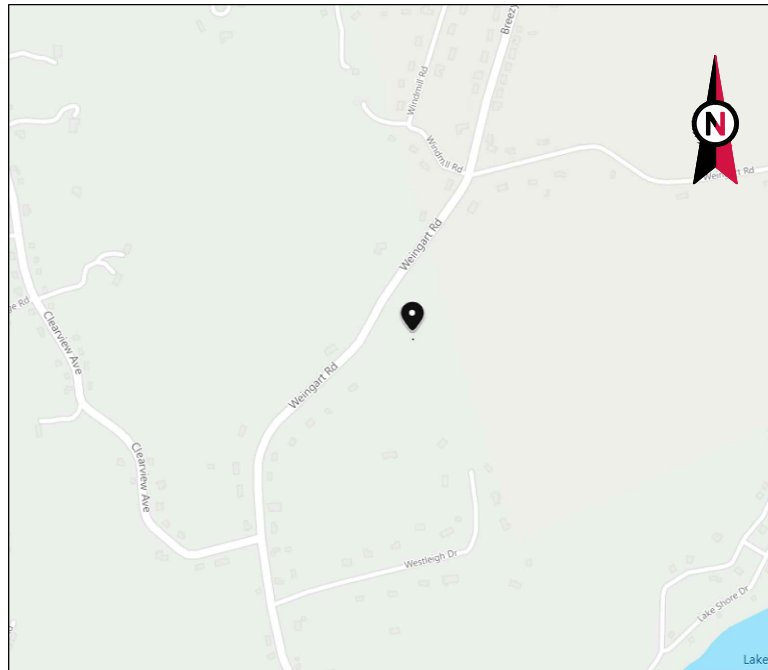
The Town of Harwinton Assessor makes every effort to produce the most accurate information possible. No warranties, expressed or implied are provided for the data herein, its use or interpretation. The assessment information is from the last certified tax roll. All other data is subject to change.

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[Last Data Upload: 5/17/2021, 8:20:33 PM](#)

Version 2.3.136



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: HARWINTON
 ATC SITE NUMBER: 302502
 VERIZON SITE NAME: HARWINTON N CT
 VERIZON SITE NUMBER: 467932
 SITE ADDRESS: 159 WEINGART ROAD
 HARWINTON, CT 06791



LOCATION MAP

VERIZON ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDE					
<p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <ol style="list-style-type: none"> 2015 INTERNATIONAL BUILDING CODE IBC 2017 NATIONAL ELECTRIC CODE NEC 2018 CONNECTICUT STATE BUILDING CODE CITY/COUNTY ORDINANCES 	<p><u>SITE ADDRESS:</u> 159 WEINGART ROAD HARWINTON, CT 06791 COUNTY: LITCHFIELD</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.78775 LONGITUDE: -73.0925 GROUND ELEVATION: 1051 AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE 12 RRU's INSTALL 3 ANTENNA's, 6 RRU's AND 3 DIPOLE'S EXISTING 12 ANTENNA's, 1 OVP's, 1 1-5/8" HYBRIFLE AND 6 1-5/8" COA CABLES TO REMAIN</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
	<p><u>PROJECT TEAM</u></p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> CLS ENGINEERING PLLC 319 CHAPANOKE ROAD, SUITE 118 RALEIGH, NC 27603 PH: 405 348-5460 FA : 405 341-4625</p> <p><u>PROPERTY OWNER:</u> N/A 159 WEINGART ROAD - HARWINTON - CT - 06791</p>	<p>AC ELECTRICAL POWER DESIGN TO BE PERFORMED BY OTHERS</p> <p><u>PROJECT NOTES</u></p> <ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. 						
<p><u>UTILITY COMPANIES</u></p> <p>POWER COMPANY: EVERSOURCE PHONE: 877 659-6326</p> <p>TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: 800 376-6843</p>		<p><u>PROJECT LOCATION DIRECTIONS</u></p> <p>FROM HARTFORD TAKE I-84 WEST TO RT 4 WEST. FOLLOW TO HARWINTON, TURN LEFT ON BREEZY HILL RD JUST PAST JCT W/ RT 183 STAY TO RIGHT AT FOR WEINGART BEGINS. ACCESS ROAD AHEAD ON LEFT JUST AFTER OVERHEAD POWER LINE EASEMENT.</p>						



CLS ENGINEERING PLLC
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COA# PEC.001833 EXP: 08/14/2021

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JRL	05/24/21
0	FOR CONSTRUCTION	JRL	06/21/21

ATC SITE NUMBER:
302502

ATC SITE NAME:
HARWINTON

VERIZON SITE NAME:
HARWINTON N CT

SITE ADDRESS:
159 WEINGART ROAD
HARWINTON, CT 06791

SEAL:



PE# 32402 EXP: 01/31/2022



DATE DRAWN:	06/21/21
ATC JOB NO:	13668727_D1
CUSTOMER ID:	HARWINTON N CT
CUSTOMER #:	467932

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0



GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME PLATFORM AND ICEBRIDGE SHELTER GROUND BUILD/CO-LOCATE ONLY
 - B. AC/TELCO INTERFACE BOX PPC
 - C. ICE BRIDGE CABLE TRAY WITH COVER GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION
 - D. TOWERS, MONOPOLES
 - E. TOWER LIGHTING
 - F. GENERATORS LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNAS INSTALLED BY OTHERS
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPERS
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING FITS
 - L. TRANSMISSION LINE GROUND FITS
 - M. HANGERS
 - N. HOISTING GRIPS
 - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR TITANIUM CHEMICAL GROUND RODS, BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/ITIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXISTING LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION ATC AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION ATC WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACK FILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR'S EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER (FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
 2. ALL EXTERIOR #6 GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPICE WEATHERPROOFING KIT #221213 OR EQUAL.
 3. ALL COAXIAL CABLE GROUNDING FITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE NOT WITHIN BENDS

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



CLS ENGINEERING PLLC
 319 CHAPANOKE ROAD, SUITE 118, RALEIGH, NC 27603
 PH: (405)348-5460 FAX: (405)341-4625

COA# PEC.001833 EXP: 08/14/2021

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JRL	05/24/21
0	FOR CONSTRUCTION	JRL	06/21/21

ATC SITE NUMBER:
302502

ATC SITE NAME:
HARWINTON

VERIZON SITE NAME:
HARWINTON N CT

SITE ADDRESS:
 159 WEINGART ROAD
 HARWINTON, CT 06791



Tyler M. Barker
 CLS Engineering PLLC
 PE # 32402 Exp. 1/31/2021
 COA # PEC.001833 Exp. 8/14/2022

PE# 32402 EXP: 01/31/2022



DATE DRAWN:	06/21/21
ATC JOB NO:	13668727_D1
CUSTOMER ID:	HARWINTON N CT
CUSTOMER #:	467932

GENERAL NOTES

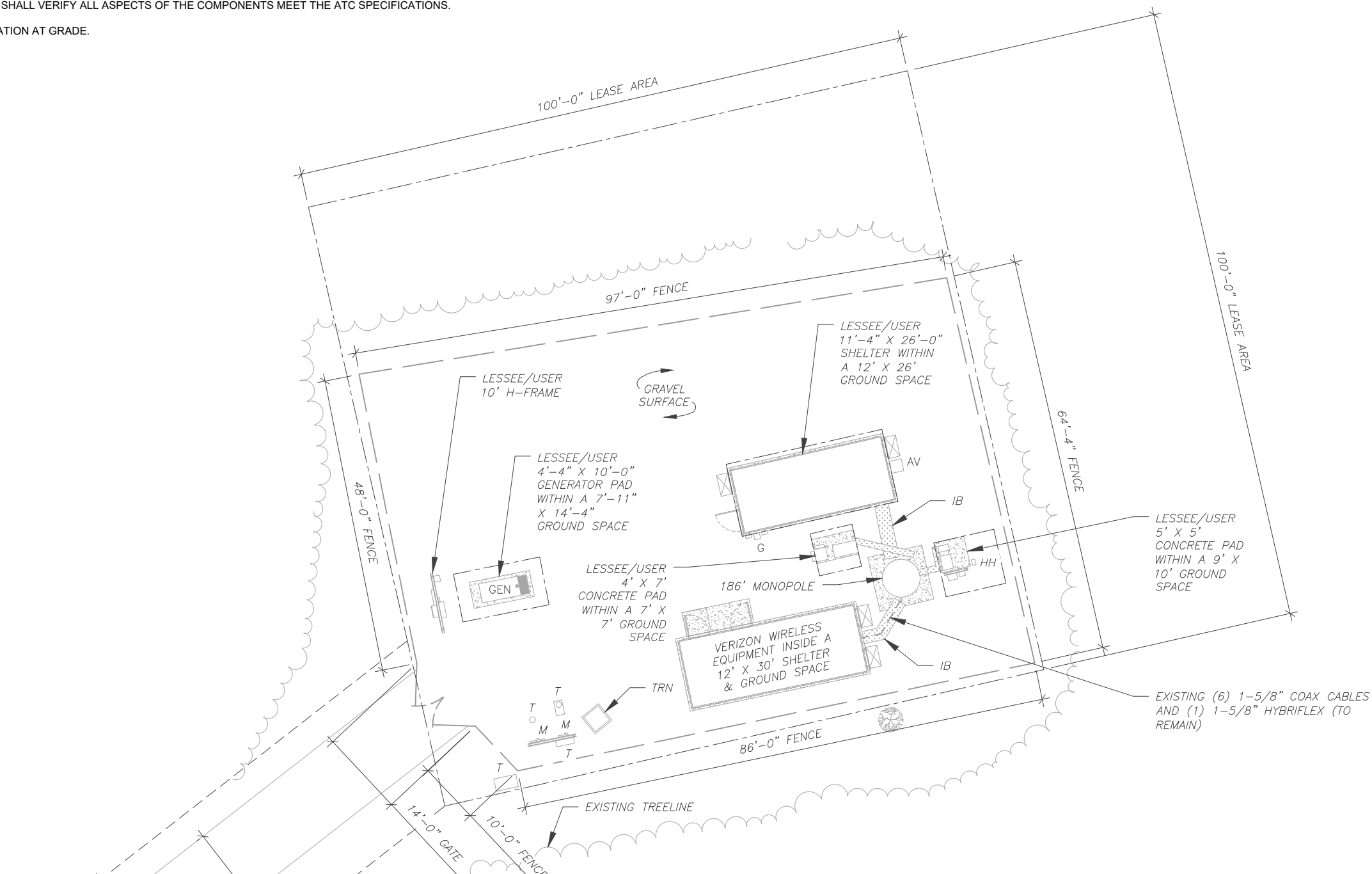
SHEET NUMBER: G-002	REVISION: 0
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SITE PLAN NOTES:

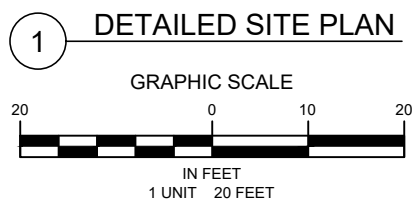
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

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



PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **215'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RADIUS CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER ALONG THE ICE BRIDGE AND A SAFETY FACTOR MEASUREMENT OF 15% OF THE TWO PREVIOUS VALUES. CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH ENTRY PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.



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SEAL:

Tyler M. Barker
 CLS Engineering PLLC
 PE # 32402 Exp. 1/31/2021
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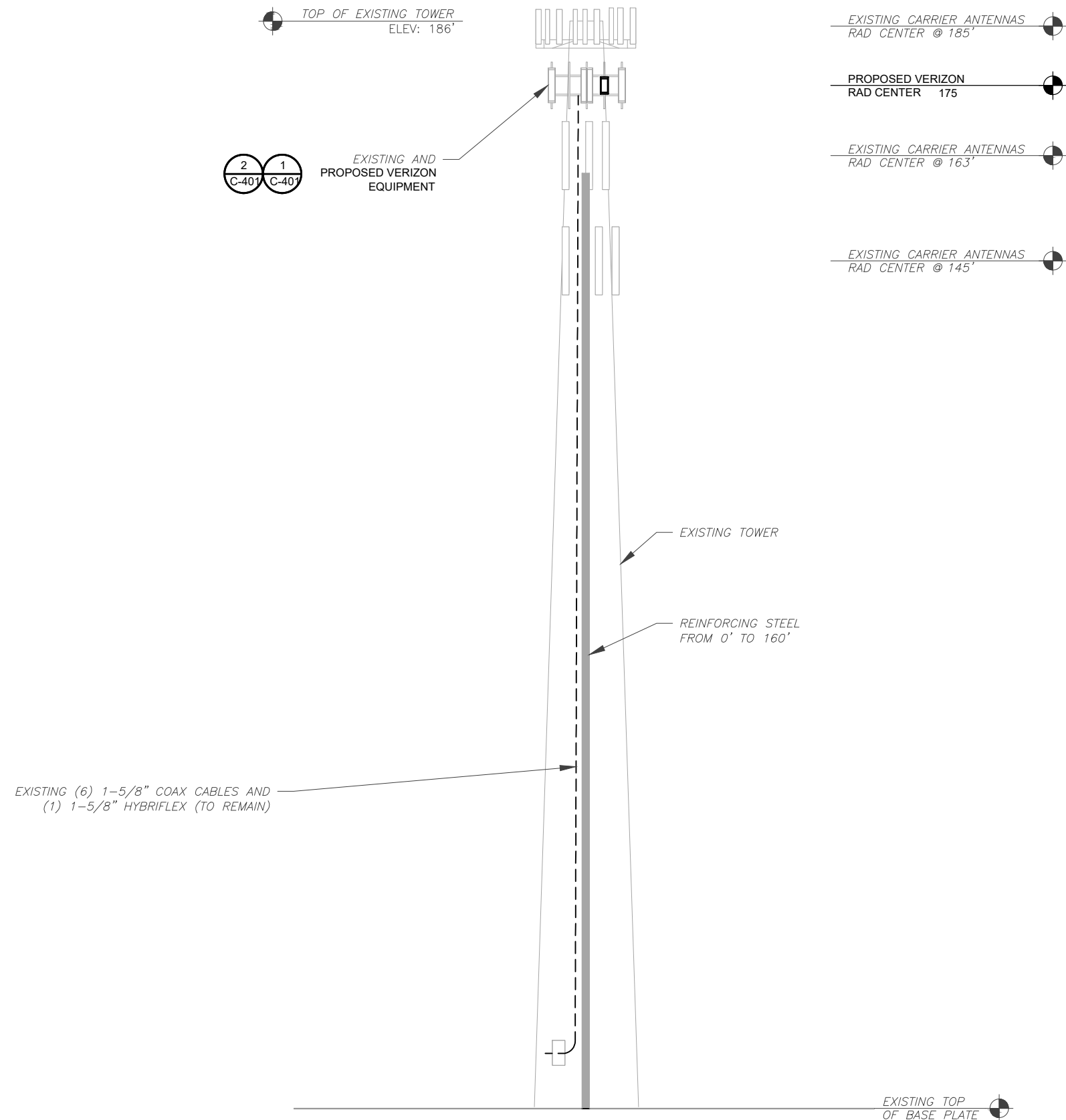


DATE DRAWN:	06/21/21
ATC JOB NO:	13668727_D1
CUSTOMER ID:	HARWINTON N CT
CUSTOMER #:	467932

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

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PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED MAY 21, 2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

TOWER NOTE:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCCOURED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH ENTRY PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL. A.G.L.

1 TOWER ELEVATION
SCALE: N.T.S.



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COA # PEC.001833 Exp. 8/14/2022

PE# 32402 EXP: 01/31/2022

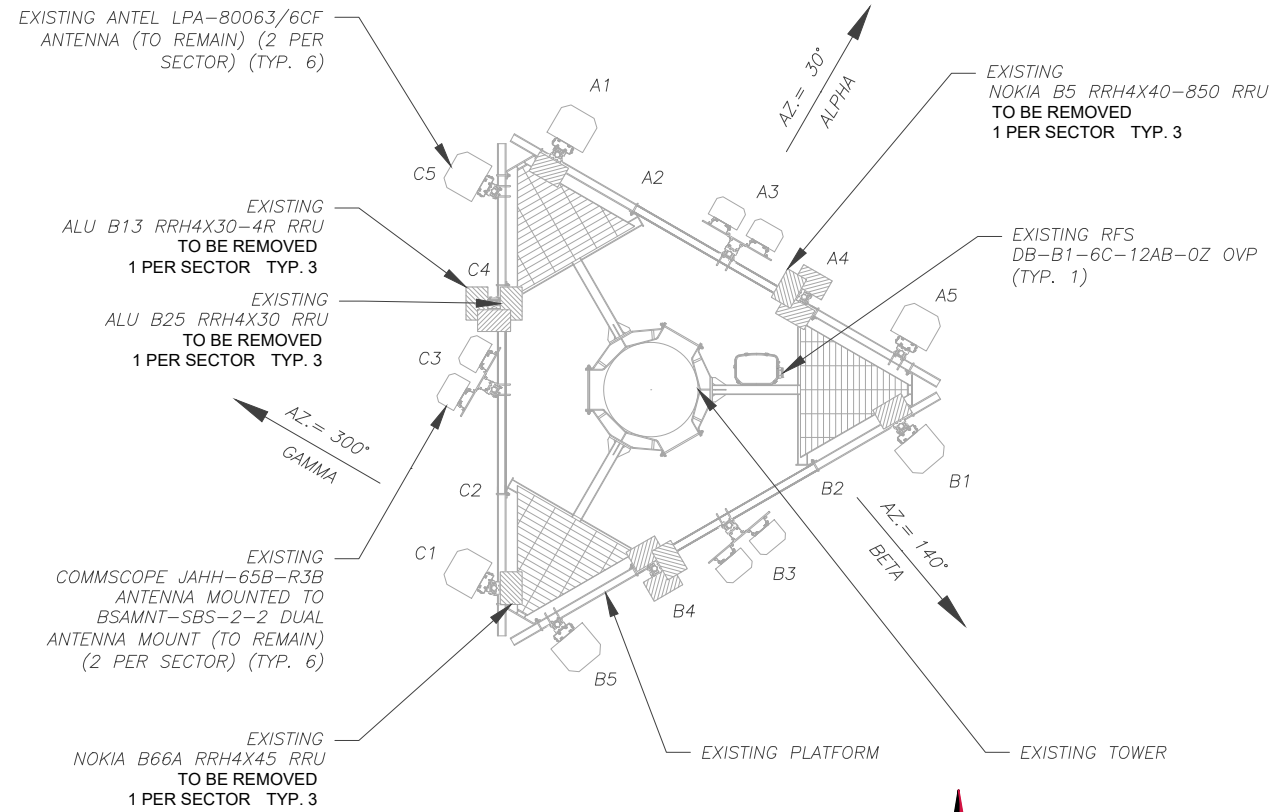


DATE DRAWN:	06/21/21
ATC JOB NO:	13668727_D1
CUSTOMER ID:	HARWINTON N CT
CUSTOMER #:	467932

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

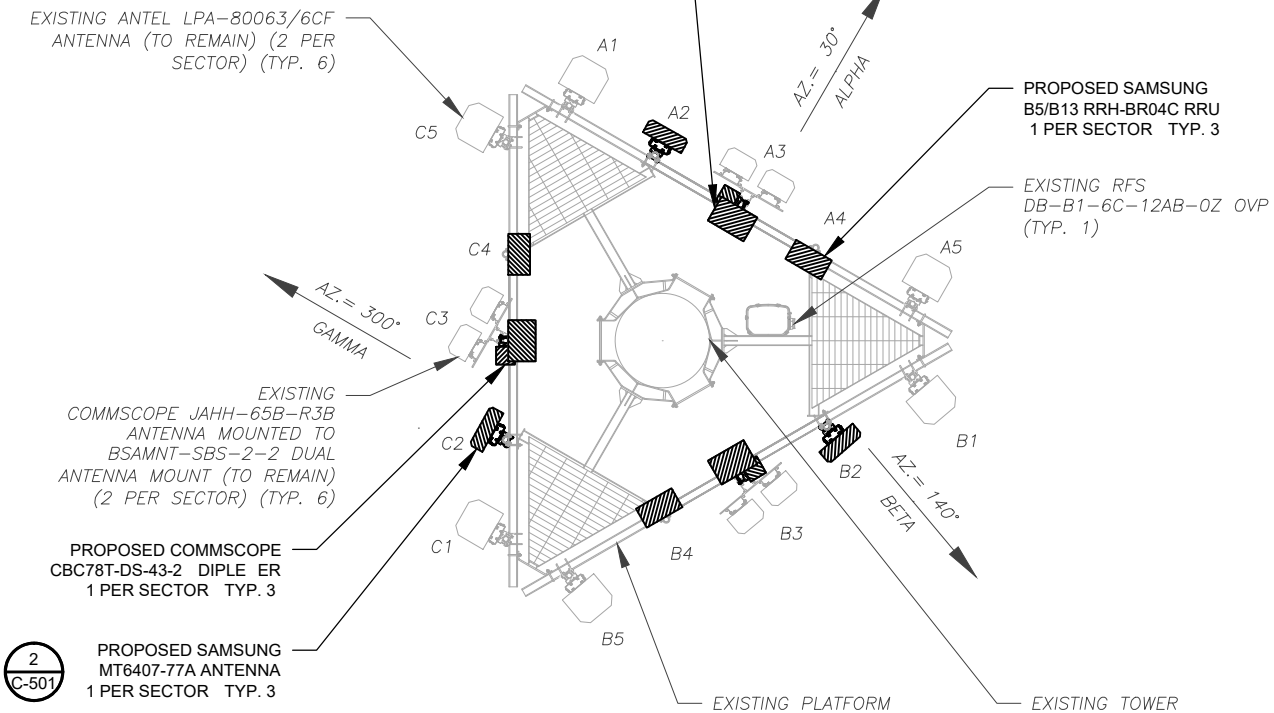
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1 EXISTING ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED MAY 21, 2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

CONTRACTOR SHALL RE-ORIENT ANTENNA MOUNTS AS NECESSARY TO ACHIEVE PROPOSED ANTENNA AZIMUTHS



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	175'	30°	A1	ANTEL LPA-80063/6CF	CDMA 850	2/5	RMN	NO IA B66A RRH4 45	RMV
			A2	-	-	-	-	-	-
			A3	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/10/4/2	RMN	-	-
			A4	-	-	-	-	NO IA B5 RRH4 40-850 ALU B13 RRH4 30-4R ALU B25 RRH4 30	RMV
			A5	ANTEL LPA-80063/6CF	CDMA 850	2/5	RMN	-	-
BETA	175'	140°	B1	ANTEL LPA-80063/6CF	CDMA 850	2/5	RMN	NO IA B66A RRH4 45	RMV
			B2	-	-	-	-	-	
			B3	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/5/4	RMN	-	-
			B4	-	-	-	-	NO IA B5 RRH4 40-850 ALU B13 RRH4 30-4R ALU B25 RRH4 30	RMV
			B5	ANTEL LPA-80063/6CF	CDMA 850	2/5	RMN	-	-
GAMMA	175'	300°	C1	ANTEL LPA-80063/6CF	CDMA 850	5/5	RMN	NO IA B66A RRH4 45	RMV
			C2	-	-	-	-	-	
			C3	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/12/4/2	RMN	-	-
			C4	-	-	-	-	NO IA B5 RRH4 40-850 ALU B13 RRH4 30-4R ALU B25 RRH4 30	RMV
			C5	ANTEL LPA-80063/6CF	CDMA 850	5/5	RMN	-	-

NOTES

- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION CONFIG . GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

JUNCTION BO TO RRU: 15
RRU TO ANTENNA: 10

FINAL ANTENNA SCHEDULE									
LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	175'	30°	A1	ANTEL LPA-80063/6CF	CDMA 850	2/5	RMN	-	-
			A2	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	-	-
			A3	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/10/4/2	RMN	SAMSUNG B2/B66A RRH-BR049 COMMSCOPE CBC78T-DS-43-2	ADD
			A4	-	-	-	-	SAMSUNG B5/B13 RRH-BR04C	ADD
			A5	ANTEL LPA-80063/6CF	CDMA 850	2/5	RMN	-	-
BETA	175'	140°	B1	ANTEL LPA-80063/6CF	CDMA 850	2/5	RMN	-	-
			B2	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	-	-
			B3	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/5/4	RMN	SAMSUNG B2/B66A RRH-BR049 COMMSCOPE CBC78T-DS-43-2	ADD
			B4	-	-	-	-	SAMSUNG B5/B13 RRH-BR04C	ADD
			B5	ANTEL LPA-80063/6CF	CDMA 850	2/5	RMN	-	-
GAMMA	175'	300°	C1	ANTEL LPA-80063/6CF	CDMA 850	5/5	RMN	-	-
			C2	SAMSUNG MT6407-77A	5G L-SUB6	0/6	ADD	-	-
			C3	(2) COMMSCOPE JAHH-65B-R3B	LTE 700/LTE 850/LTE 1900/LTE 2100	0/12/4/2	RMN	SAMSUNG B2/B66A RRH-BR049 COMMSCOPE CBC78T-DS-43-2	ADD
			C4	-	-	-	-	SAMSUNG B5/B13 RRH-BR04C	ADD
			C5	ANTEL LPA-80063/6CF	CDMA 850	5/5	RMN	-	-

FINAL FIBER DISTRIBUTION / OVP BO		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COA	HYBRID	STATUS
(1) RFS DB-B1-6C-12AB-0Z OVP	RMN	(6) 1-5/8"	(1) 1-5/8" HYBRIFLEX	RMN

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BO		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COA	HYBRID	STATUS
(1) RFS DB-B1-6C-12AB-0Z OVP	RMN	(6) 1-5/8"	(1) 1-5/8" HYBRIFLEX	RMN



CLS ENGINEERING PLLC
319 CHAPANKE ROAD, SUITE 118, RALEIGH, NC 27603
PH: (405)348-5460 FAX: (405)341-4625

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JRL	05/24/21
B	FOR CONSTRUCTION	JRL	06/21/21

ATC SITE NUMBER:
302502

ATC SITE NAME:
HARWINTON

VERIZON SITE NAME:
HARWINTON N CT

SITE ADDRESS:
159 WEINGART ROAD
HARWINTON, CT 06791



PE# 32402 EXP: 01/31/2022

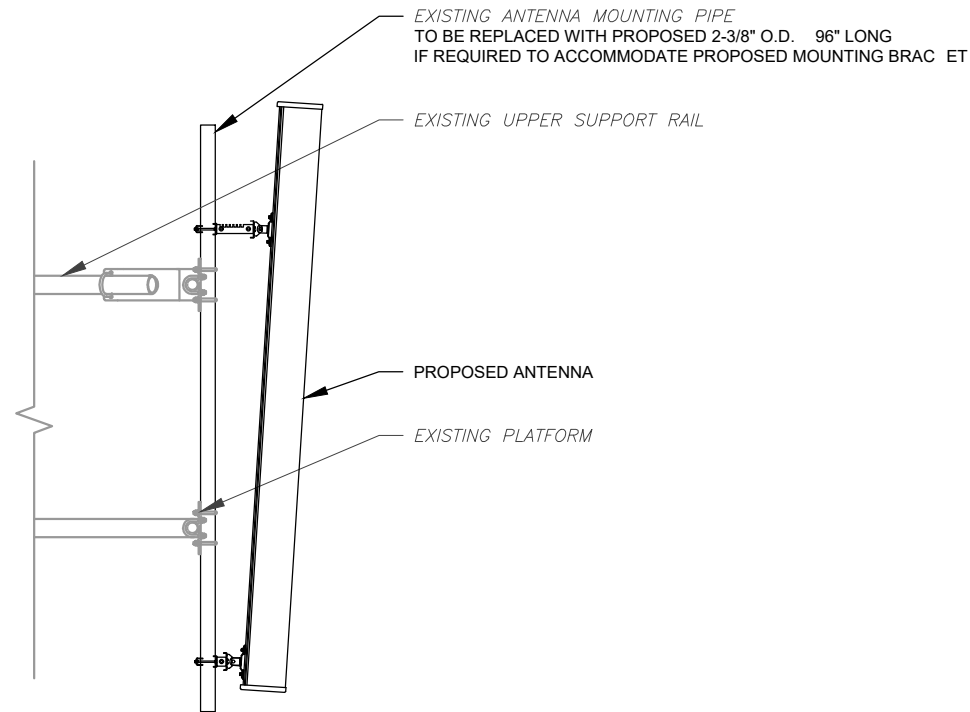


DATE DRAWN:	06/21/21
ATC JOB NO:	13668727_D1
CUSTOMER ID:	HARWINTON N CT
CUSTOMER #:	467932

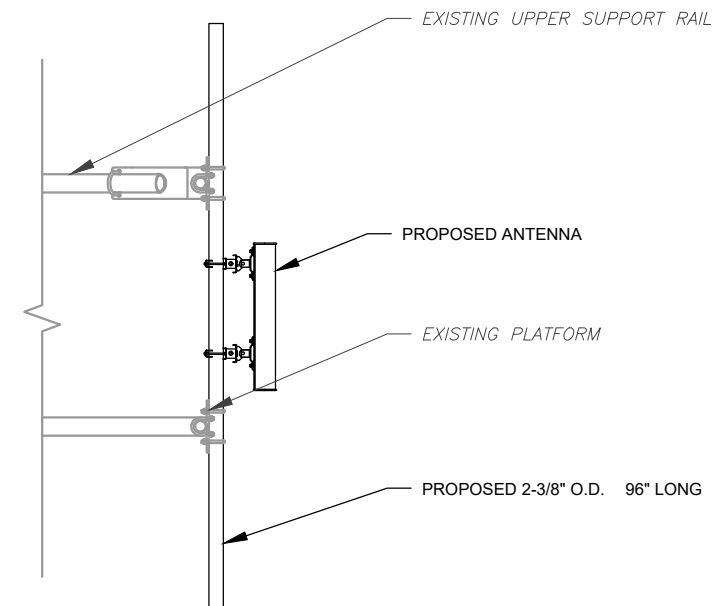
ANTENNA INFORMATION SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

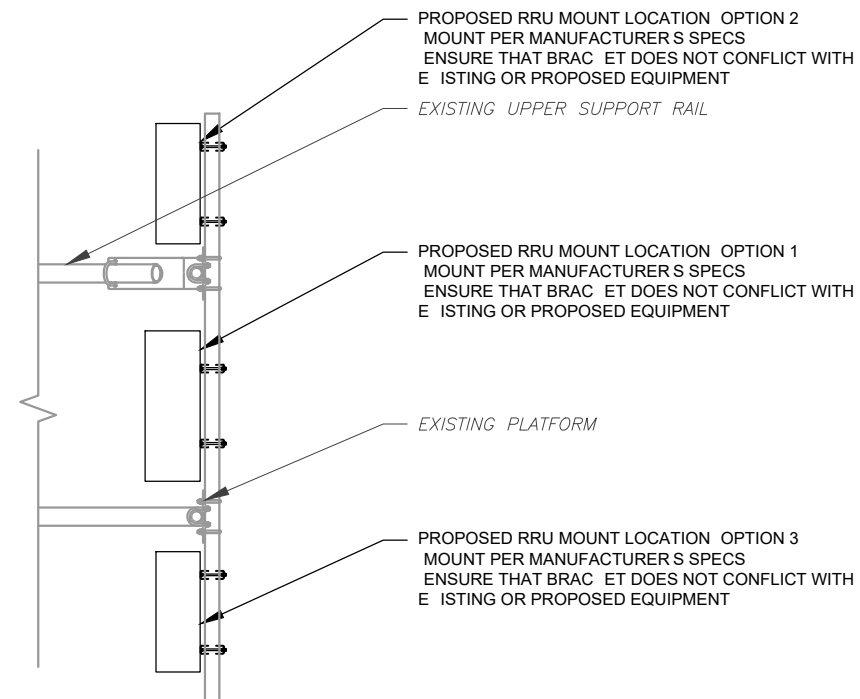
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1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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



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



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COA# PEC.001833 EXP: 08/14/2021

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JRL	05/24/21
0	FOR CONSTRUCTION	JRL	06/21/21

ATC SITE NUMBER:
302502

ATC SITE NAME:
HARWINTON

VERIZON SITE NAME:
HARWINTON N CT

SITE ADDRESS:
159 WEINGART ROAD
HARWINTON, CT 06791

SEAL:



Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
COA # PEC.001833 Exp. 8/14/2022

PE# 32402 EXP: 01/31/2022

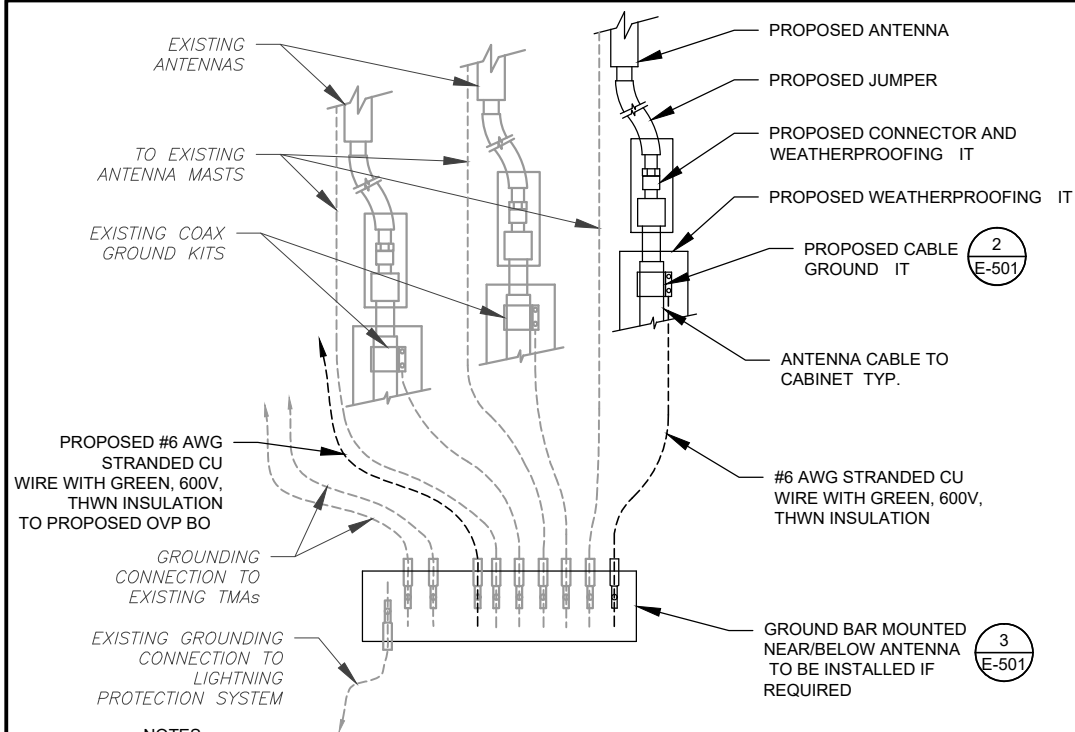


DATE DRAWN:	06/21/21
ATC JOB NO:	13668727_D1
CUSTOMER ID:	HARWINTON N CT
CUSTOMER #:	467932

**CONSTRUCTION
DETAILS**

SHEET NUMBER:	REVISION:
C-501	0

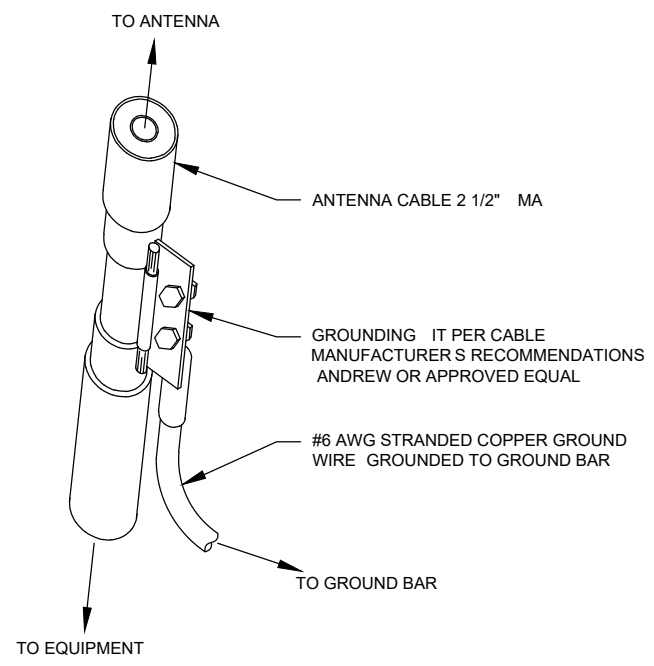
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NOTES:

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

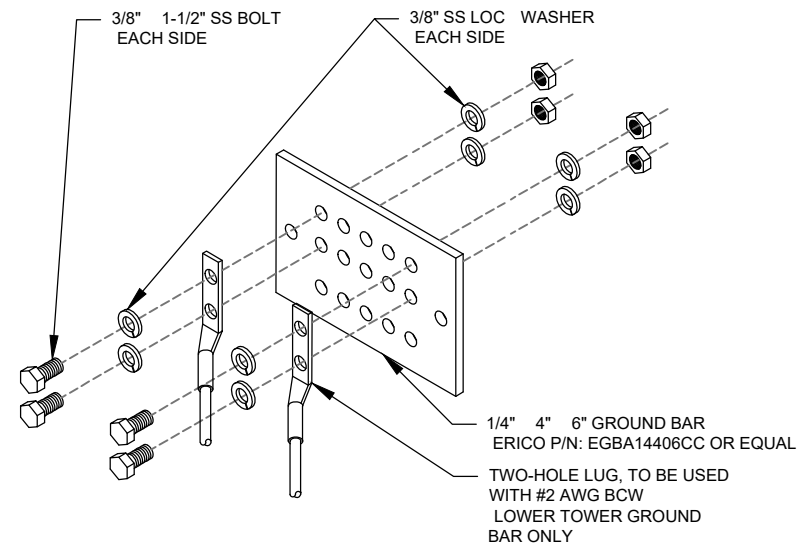
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUNDING NOTES:

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

2 CABLE GROUNDING CONNECTION DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BARS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBERS.
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.



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VERIZON SITE NAME:
HARWINTON N CT

SITE ADDRESS:
159 WEINGART ROAD
HARWINTON, CT 06791

SEAL:



Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2021
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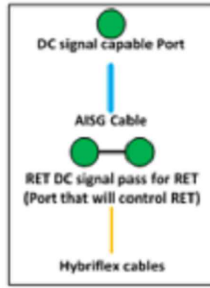
GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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- Port 1 & 2 are for low band (698-787 MHz).
- Port 3 & 4 are for low band (824-894 MHz).
- Port 3,4,5, & 6 are for high band (1695-2360 MHz).
- Antenna Smart Bias Tee (SBT) is through port 1 for low band and port 5 for high band.
- AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.
- Not all SBT ports are needed to control RET, only green port connection to green port will control RET.



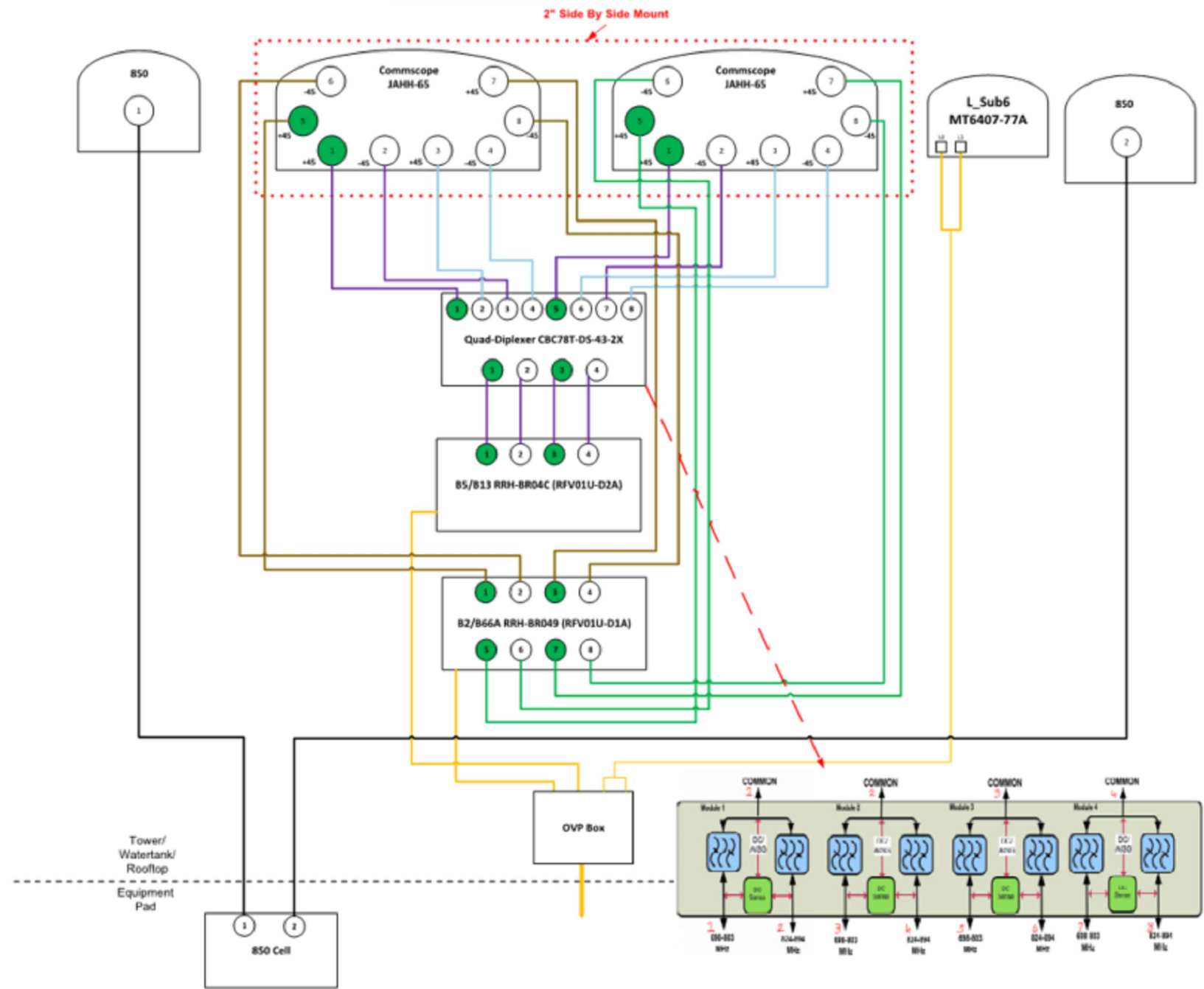
Comments:

Diagram shows configuration as viewed from standing behind the antennas.

Antennas will be installed in that order from left to right.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)



SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: 0



Maser Consulting Connecticut
 2000 Midlantic Drive, Suite 100
 Mt. Laurel, NJ 08054
 (856) 797-0412
 peter.albano@colliersengineering.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10050575
 Maser Consulting Connecticut Project #: 21777534A

May 21, 2021

Site Information

Site ID: 467932-VZW / HARWINTON N CT
 Site Name: HARWINTON N CT
 Carrier Name: Verizon Wireless
 Address: 159 Weingart Rd
 Harwinton, Connecticut 06791
 Litchfield County
 Latitude: 41.787753°
 Longitude: -73.092531°

Structure Information

Tower Type: Monopole
 Mount Type: 14.00-ft Platform

FUZE ID # 16244159

Analysis Results

Platform: 49.0% 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

Report Prepared By: Erin Towler



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

SUPPLEMENTAL

SHEET NUMBER:
R-602

REVISION:
0