

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

April 19, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
232 South Main Street, East Windsor, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The Town of East Windsor (“Town”) Planning & Zoning Commission (“PZC”) approved the existing tower on August 13, 1996. Cellco’s shared use of the tower was approved by the Siting Council (“Council”) in 1997. A copy of the Cellco’s Tower share approval was not available on the Council’s website. A copy of the Town’s PZC approval is included in [Attachment 1](#).

Cellco now intends to modify its facility by removing three (3) existing antennas and six (6) existing remote radio heads (“RRHs”) and installing three (3) new antennas and six (6) new RRHs on Cellco’s existing antenna platform. A set of project plans showing Cellco’s proposed facility modifications and Cellco’s new antennas and RRHs specifications are included in [Attachment 2](#).

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

Melanie A. Bachman, Esq.
April 19, 2021
Page 2

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna mounting system.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's replacement antennas and RRHs will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for the modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation, tower base plate and antenna mounting device can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4. Also included in Attachment 4 is a separate letter prepared by the consulting engineer responsible for the preparation of the MA and SA respectively, verifying that the antenna model described in the MA, as a nL-Sub6 Antenna and in the SA, as a VZS01, is the Samsung 64T64R model antenna.

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

Melanie A. Bachman, Esq.
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Page 3

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

Sincerely,

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

Kenneth C. Baldwin

Enclosures

Copy to:

Jason E. Bowsza, East Windsor First Selectman
Clark Chapin, East Windsor Director of Planning and Community Development
Balch Bridge Street Corporation
Aleksey Tyurin

Attachment 1

**TOWN OF EAST WINDSOR - PLANNING & ZONING COMMISSION
AUGUST 13, 1996 - PUBLIC HEARING #1271**

CONDITIONS OF APPROVAL

**BALCH BRIDGE STREET CORPORATION
SPECIAL USE PERMIT - TELECOMMUNICATIONS TOWER
232 SOUTH MAIN STREET
EAST WINDSOR, CONNECTICUT**

Motion by: Ed Filipone

Seconded by: Susan Kiss

TO APPROVE the application of Balch Bridge Street Corporation for a Special Use Permit to allow the construction of a 200 foot tall telecommunications tower on property located at 232 South Main Street which is presently zoned B-2 and shown on Assessors Map 33, Block 5, Lot 84-1. This approval is subject to conformance with the reference plans and the following conditions:

Referenced plans:

- "Key Map, Balch Bridge Street Corporation, South Main Street - U.S. Route 5 East Windsor, Connecticut" Sheet 1 of 3, Scale 1"=200' BY J.R. Russo & Associates dated 7-2-96.
- "Balch Bridge Street Corporation, South Main Street - U.S. Route 5 East Windsor, Connecticut" Sheet 2 of 3, Scale 1"=100' BY J.R. Russo & Associates dated 7-2-96.
- "Site Plan, Balch Bridge Street Corporation, South Main Street - U.S. Route 5 East Windsor, Connecticut" Sheet 1 of 3, Scale 1"=200' BY J.R. Russo & Associates dated 7-2-96, revised to 7-30-96.

Conditions to be met prior to signing mylars:

1. The applicant shall submit an agreement for review and approval of the town attorney, to indemnify and hold harmless the Town of East Windsor against any claims that may be made should the proposed tower fall and cause damages to property or individuals. The hold harmless agreement shall be recorded on the land records of the subject property and of the property to the immediate south which is also under the applicant's control.
2. A copy of this approval Motion shall be recorded on the land records.

Conditions to be met prior to the issuance of a Zoning Permit:

3. Two sets of mylars shall be submitted for the signature of the Commission Chairman and Secretary. One set of mylars shall be filed on the land records and another shall be filed in the East Windsor Planning and Zoning Commission office.

Conditions to be met Prior to Certificate of Compliance:

4. All conditions of this approval motion shall be complied with.

BALCH BRIDGE STREET CORPORATION
SPECIAL USE PERMIT - TELECOMMUNICATIONS TOWER
232 SOUTH MAIN STREET
EAST WINDSOR, CONNECTICUT

General Conditions:

5. No work may begin until a Zoning and Building Permit have been issued.
6. Construction of improvements as approved by this special use/site plan approval must commence by August 13, 1997 and all improvements must be completed within 1 year from the start of construction, otherwise approval shall become null and void unless an extension is granted by the Commission.
7. This Special Use Permit approval is for the specific use identified in the application. Any changes in use or tenancy require a new zoning permit and may require additional Commission approvals.
8. No structures or buildings other than the tower shall be erected without further Site Plan Review by the Commission.
9. This project shall be constructed and maintained in accordance with the referenced plans. Minor modifications to the approved plans which result in lesser impacts may be allowed subject to staff review and approval.
10. By acceptance of this permit and conditions, the applicant and owner acknowledge the right of Town staff to periodically enter upon the subject property for the purpose of determining compliance with the terms of this approval.

VOTE: In Favor: Unanimous

Attachment 2



WIRELESS COMMUNICATIONS FACILITY

**SITE NAME:
EAST WINDSOR CT**

**BALCH BRIDGE STREET CORP.
232-236 SOUTH MAIN ST.
EAST WINDSOR, CT**

ANTENNA MODIFICATION

verizon
WIRELESS COMMUNICATIONS FACILITY
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE

DAVID WEINPAHL, P.E.
CT LIC NO. 22144

SUBMITTALS

NO	DATE	REVIEW
0	12.20.20	REVIEW
1	02.09.21	PERMITTING/CONSTRUCTION

NO DATE DESCRIPTION

DRAWN BY: MF
CHECKED BY: DW

PROJECT NAME:
**ANTMO
VZS01-850-LTE-PCS
DESIGN EXHIBITS**

SITE NAME:
EAST WINDSOR CT

SITE ADDRESS:
**BALCH BRIDGE ST. CORP.
232-236 SOUTH MAIN ST.
EAST WINDSOR, CT**

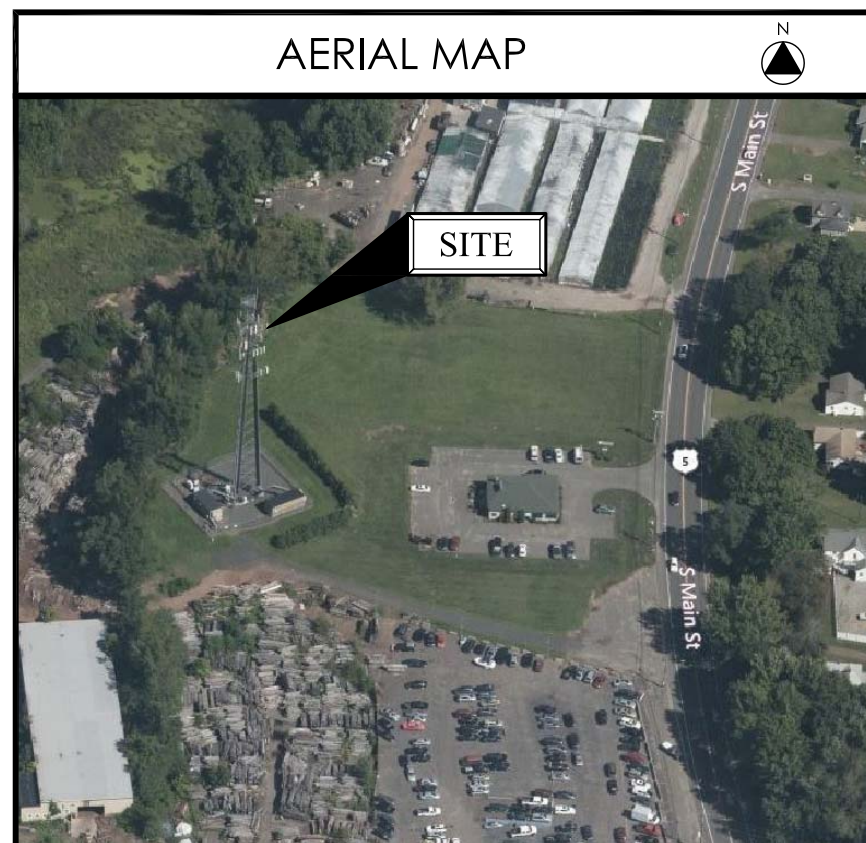
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
DE-1

PROJECT SUMMARY

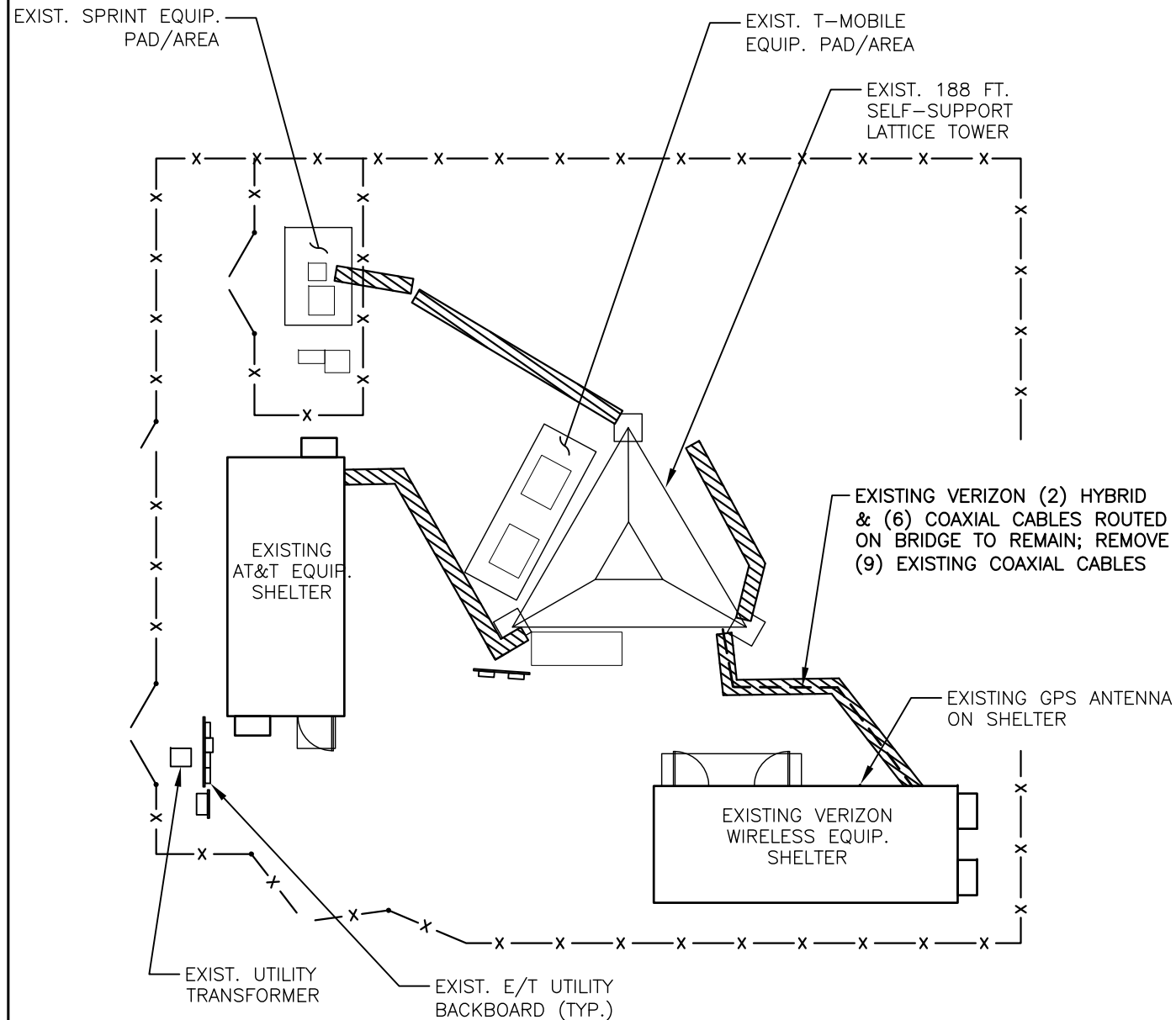
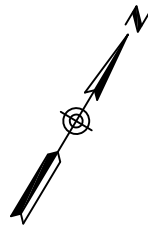
SITE NAME:	EAST WINDSOR CT
SITE ADDRESS:	232-236 SOUTH MAIN ST. EAST WINDSOR, CT
PROPERTY OWNER:	BALCH BRIDGE STREET CORP. C/O OMNIPOINT COMMUNICATIONS 12920 S E 38TH ST. BELLEVUE, WA 98006
TOWER OWNER/MGMT:	BALCH BRIDGE STREET CORP.
PARCEL ID:	012-05-084-01
COORDINATES:	41° 52' 37.3512" N 72° 36' 39.3228" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195

AERIAL MAP



SHEET INDEX

DE-1	TITLE SHEET
DE-2	COMPOUND PLAN & ELEVATION
DE-3	ANTENNA PLANS & ELEVATION
DE-4	RF PLUMBING DIAGRAM & B.O.M.
DE-5	GENERAL CONSTRUCTION NOTES



1
COMPOUND PLAN
DE-2
Scale: 1/16" = 1'-0"

NOTES:
 1. COMPOUND PLAN IS COMPILED FROM EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT ON 10-27-20 FOR A PROPOSED VERIZON ANTENNA MODIFICATION.
 2. PLANS ARE DIAGRAMMATIC ONLY AND NOT TO BE SCALED.
 3. REFER TO STRUCTURAL TOWER AND MOUNT ANALYSIS REPORTS, BY OTHERS UNDER SEPARATE COVER, FOR ANY REQUIRED TOWER & MOUNT REINFORCEMENTS, WHICH MUST BE PERFORMED PRIOR TO ANY OTHER VERIZON ANTENNA MODIFICATIONS.

TOP OF TOWER
EL. 188'-0"± A.G.L.

EXISTING AT&T ANTENNAS
EL. 172'-0"± A.G.L.

EXISTING T-MOBILE ANTENNAS
EL. 155'-0"± A.G.L.

EXISTING VERIZON WIRELESS ANTENNAS
EL. 144'-0"± A.G.L.

EXISTING VERIZON WIRELESS ANTENNA (TYP.), REFER TO DE-3 FOR ANTENNA PLANS & PROPOSED MODIFICATIONS

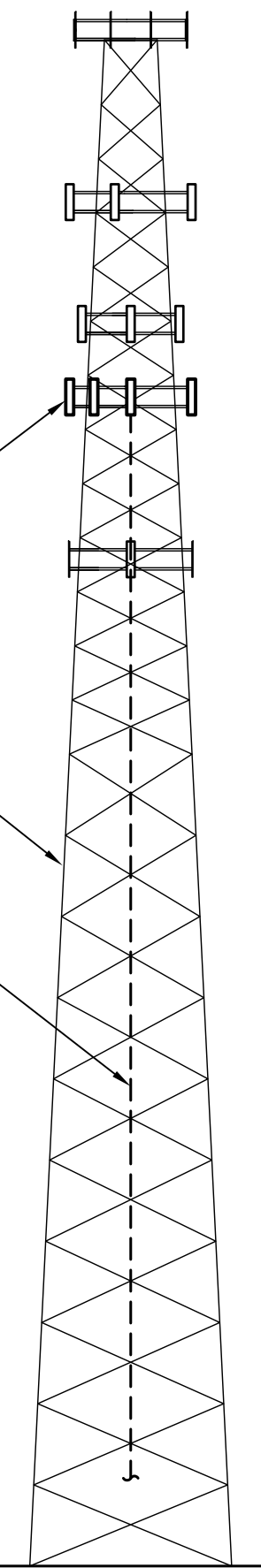
EXISTING SPRINT ANTENNAS
EL. 123'-0"± A.G.L.

EXISTING 188 FT. SELF-SUPPORT LATTICE TOWER

EXISTING VERIZON (2) HYBRID & (6) COAXIAL CABLES ROUTED UP TOWER TO REMAIN; REMOVE (9) EXISTING COAXIAL CABLES

GRADE

2
ELEVATION
DE-2
Scale: 1/16" = 1'-0"



verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE

DAVID WEINPAHL, P.E.
CT LIC NO. 22144

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1	02.09.21	PERMITTING/CONSTRUCTION

NO	DATE	DESCRIPTION

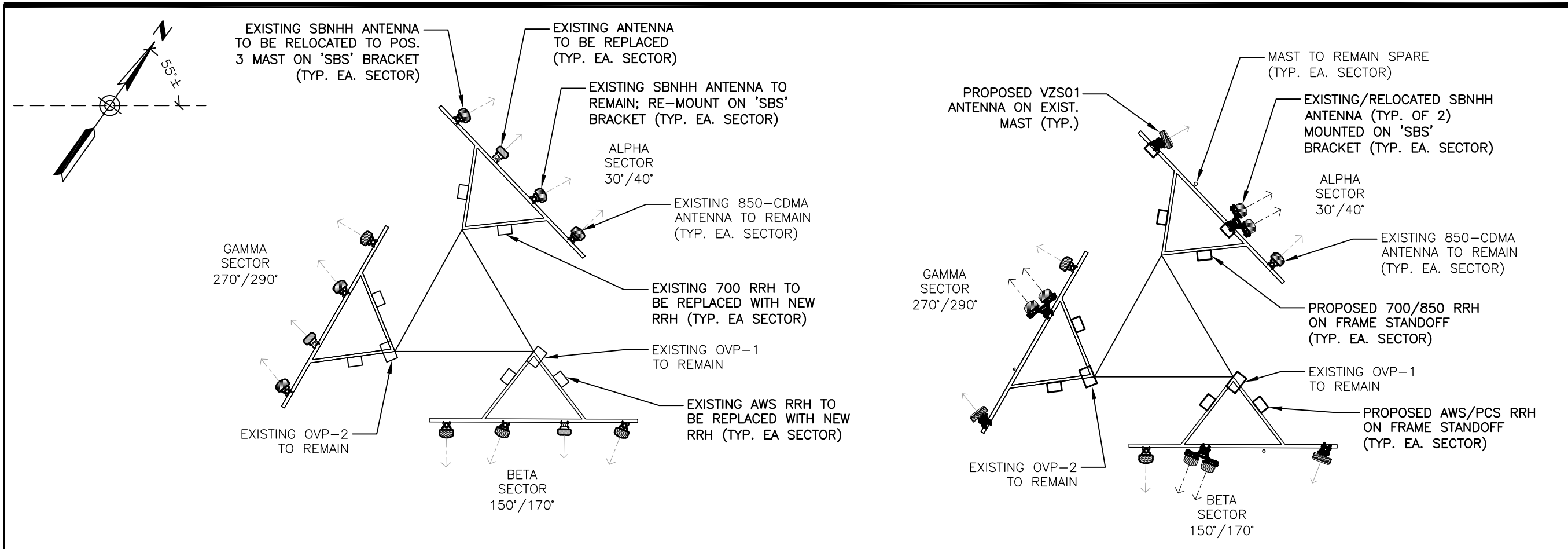
PROJECT NAME:
**ANTMO
VZS01-850-LTE-PCS
DESIGN EXHIBITS**

SITE NAME:
EAST WINDSOR CT

SITE ADDRESS:
**BALCH BRIDGE ST. CORP.
232-236 SOUTH MAIN ST.
EAST WINDSOR, CT**

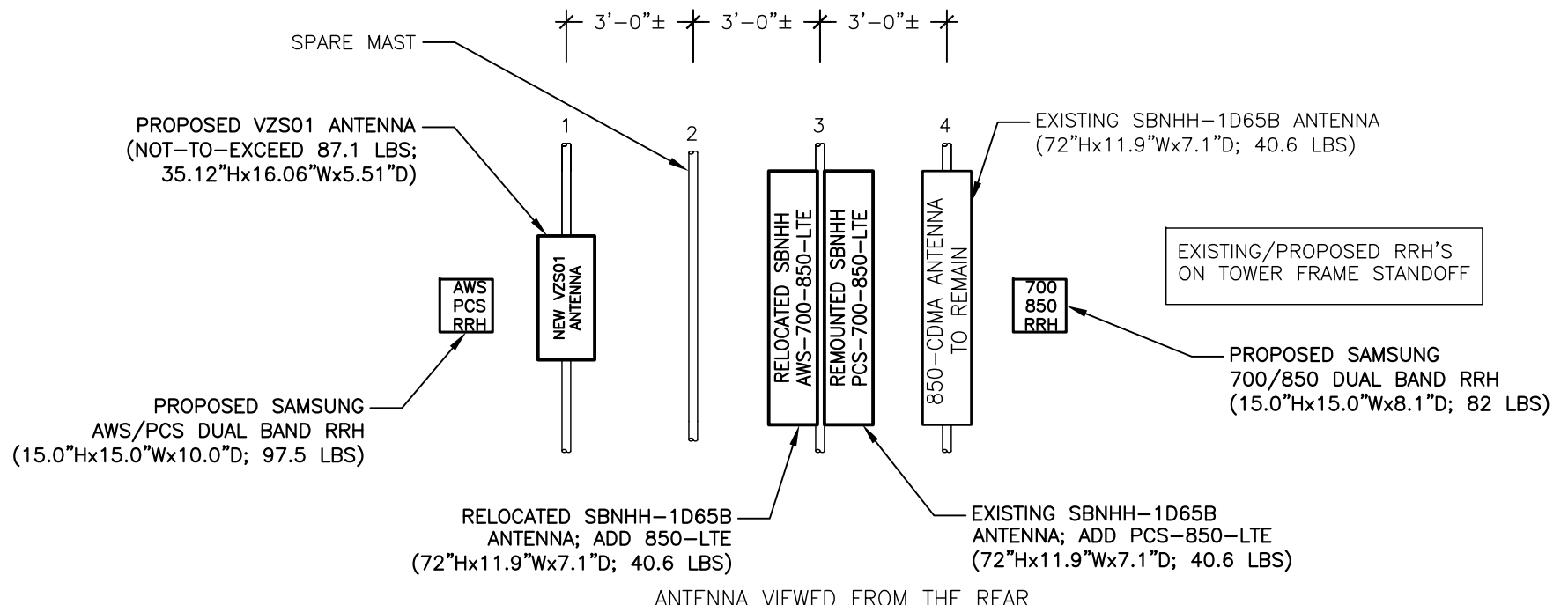
SHEET TITLE:
**COMPOUND PLAN
& ELEVATION**

SHEET NUMBER:
DE-2



1 ANTENNA PLAN - EXISTING
 DE-3 Scale: 1/8" = 1'-0"

2 ANTENNA PLAN - PROPOSED
 DE-3 Scale: 1/8" = 1'-0"



3 ANTENNA ELEVATION (TYP.) - PROPOSED
 DE-3 Scale: 1/4" = 1'-0"

verizon
 WIRELESS COMMUNICATIONS FACILITY

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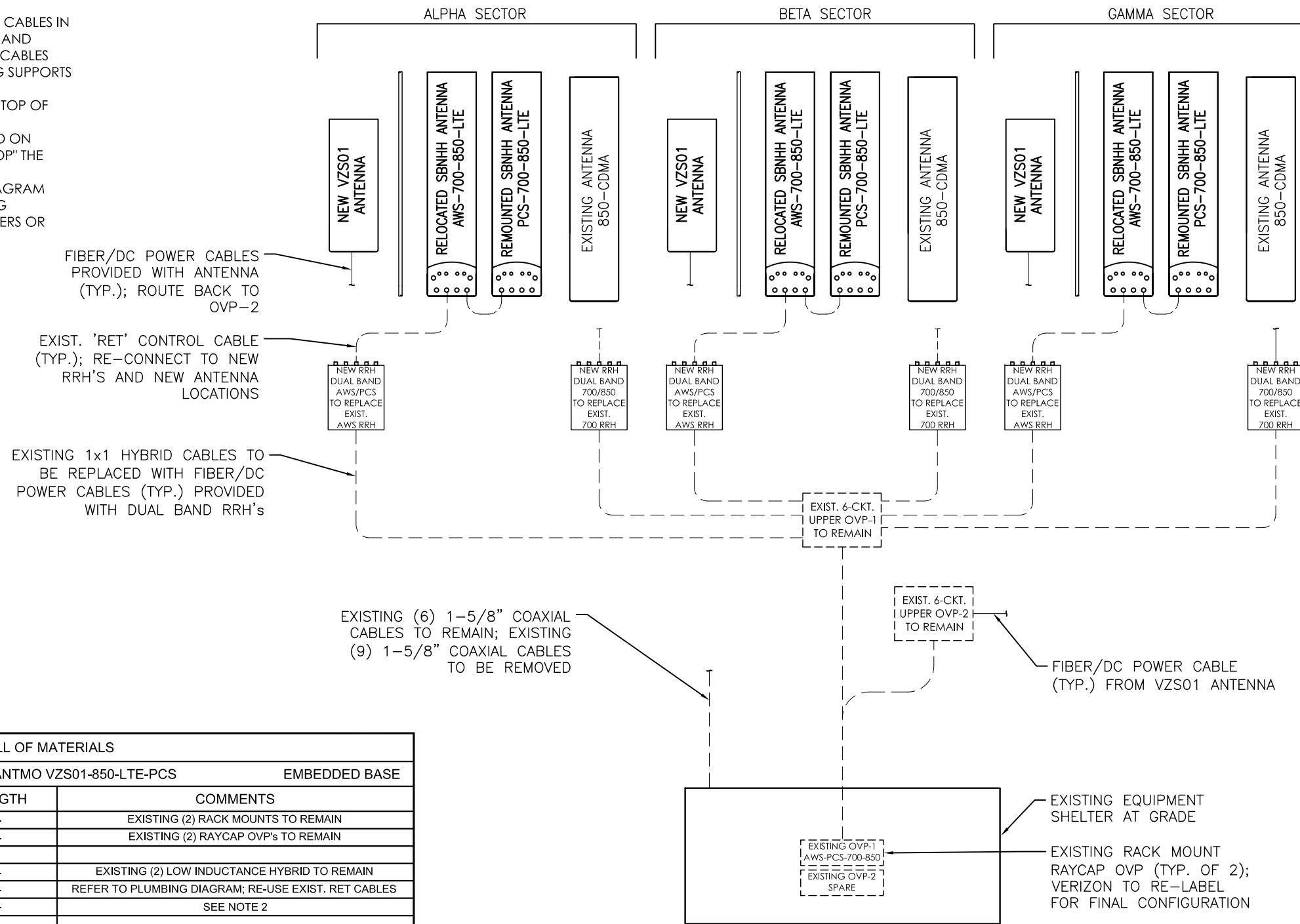
SHEET TITLE:
**ANTENNA PLANS
 & ELEVATIONS**

SHEET NUMBER:
DE-3

GENERAL NOTES:

1. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
2. CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS INSTRUCTIONS. EXTERIOR CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING SUPPORTS EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS WHEN REQUIRED.
3. ALL CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS
4. REFER TO RFDS FOR DETAILED PLUMBING DIAGRAM SHOWING ALL JUMPER AND OTHER CABLING CONNECTIONS AT ANTENNAS, RRH'S, DIPLEXERS OR OTHER DEVICES.

NOTE: ALL ANTENNAS VIEWED FROM REAR



BILL OF MATERIALS			
DESCRIPTION	QTY	LENGTH	COMMENTS
LOWER OVP	-	-	EXISTING (2) RACK MOUNTS TO REMAIN
6-CKT. UPPER OVP	-	-	EXISTING (2) RAYCAP OVP's TO REMAIN
6x12 HYBRID CABLE	-	-	EXISTING (2) LOW INDUCTANCE HYBRID TO REMAIN
RET CONTROL CABLE	-	-	REFER TO PLUMBING DIAGRAM; RE-USE EXIST. RET CABLES
1/2" JUMPERS	-	-	SEE NOTE 2
AWS/PCS DUAL BAND RRH	3	-	REFER TO RFDS FOR SPECS; REMOVE EXIST. AWS RRH
700/850 DUAL BAND RRH	3	-	REFER TO RFDS FOR SPECS; REMOVE EXIST. 700 RRH
VZS01 ANTENNA	3	-	SAMSUNG INTEGRATED; REFER TO RFDS
SBNHH ANTENNA - AWS/700/850-LTE	-	-	EXISTING (3) TO BE RELOCATED - 1 PER SECTOR
SBNHH ANTENNA - PCS/700/850-LTE	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
SBS BRACKETS	3	-	BSAMNT-SBS-1-2
850-CDMA ANTENNA	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR

- NOTES:
1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
 2. CONTRACTOR SHALL DETERMINE AND PROVIDE ALL REQUIRED PRE-FAB JUMPER QUANTITIES AND LENGTHS, KEEPING ALL LENGTHS TO A MINIMUM.

1 RF PLUMBING DIAGRAM
DE-4 Scale: N.T.S

verizon
WIRELESS COMMUNICATIONS FACILITY
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SITE NAME:
EAST WINDSOR CT

SITE ADDRESS:
**BALCH BRIDGE ST. CORP.
232-236 SOUTH MAIN ST.
EAST WINDSOR, CT**

SHEET TITLE:
**RF PLUMBING
DIAGRAM & B.O.M.**

SHEET NUMBER:
DE-4

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELLCO PARTNERSHIP d/b/a VERIZON, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.*
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELLCO PARTNERSHIP d/b/a VERIZON IS TO BE* REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



LICENSURE

DAVID WEINPAHL, P.E.
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SUBMITTALS

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NO	DATE	DESCRIPTION
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**ANTMO
VZS01-850-LTE-PCS
DESIGN EXHIBITS**

SITE NAME:
EAST WINDSOR CT

SITE ADDRESS:
**BALCH BRIDGE ST. CORP.
232-236 SOUTH MAIN ST.
EAST WINDSOR, CT**

SHEET TITLE:
**GENERAL
CONSTRUCTION
NOTES**

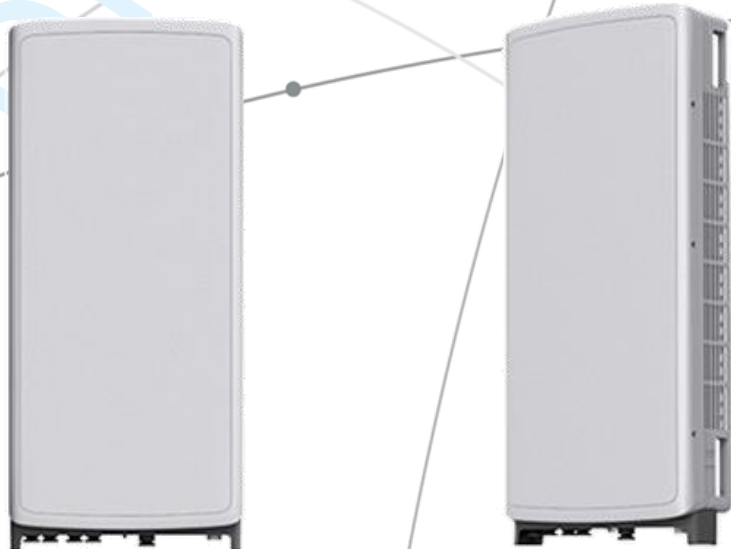
SHEET NUMBER:
DE-5

SAMSUNG C-Band 64T64R Massive MIMO

C-Band 64T64R Massive MIMO Radio
for High Capacity and Wide Coverage

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

Model Code : MT6407-77A

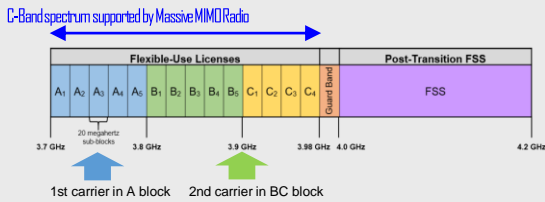


Points of Differentiation

Wide Bandwidth

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

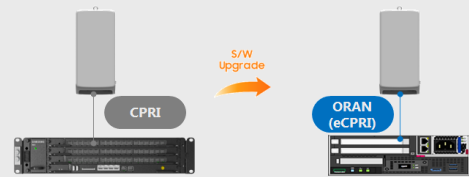
Samsung C-Band massive MIMO Radio uses C-Band 280 MHz spectrum at the same time, so it can cover all the bands the operator can be auctioned.



Future Proof Product

Samsung C-Band Massive MIMO radio supports eCPRI interface, thus, it can be used as O-RAN Massive MIMO Radio in the future. To provide O-RAN service, operators only need to update software since the hardware is already ready.

With the support of O-RAN, operators can reduce OPEX/CAPEX by increasing compatibility between equipment and get opportunity to design and develop their network with best-in-class solution that interoperate.



Enhanced Performance

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

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

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



Well Matched Design

Samsung's C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 48L and 87.1 lbs. This makes it easy to install the Radio.

It is designed to look solid and small, and in particular, the design with wrap around has a thinly looking effect so that it can be harmonized with the surrounding environment when installed.



Technical Specifications

Item	Specification
Tech	NR
Brand	n77
Frequency Band	3700-3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dB)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.12 x 5.51 inch (50.95L) / 87.1 lbs

DRAFT

About Samsung Electronics Co., Ltd.

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

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

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SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B13: DL(746-756MHz)/UL(777-787MHz)

B5: DL(869-894MHz)/UL(824-849MHz)

Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 207mm (29.9L)

Weight: 31.9kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

Attachment 3

	General	Power	Density					
Site Name: East Windsor								
Tower Height: Verizon @ 144ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTIO N MPE	Total
AT&T	1	247	170	850	0.0033	0.5667	0.06%	
AT&T	1	455	170	1900	0.0061	1.0000	0.06%	
AT&T	1	1476	170	737	0.0197	0.4913	0.40%	
AT&T	2	4842	170	1900	0.1295	1.0000	1.29%	
MetroPCS CDMA	3	727	177	2135	0.0268	1.0000	0.27%	
MetroPCS LTE	1	1200	177	2130	0.0148	1.0000	0.15%	
Town	1	400	207	33	0.0036	0.2000	0.18%	
T-Mobile	2	754	155	2100	0.0244	1.0000	0.24%	
T-Mobile	2	1507	155	2100	0.0488	1.0000	0.49%	
T-Mobile	2	1542	155	1900	0.0500	1.0000	0.50%	
T-Mobile	2	771	155	1900	0.0250	1.0000	0.25%	
T-Mobile	2	592	155	600	0.0192	0.4000	0.48%	
T-Mobile	2	649	155	700	0.0210	0.4667	0.45%	
Nextel	12	100	183	851	0.0138	0.5673	0.24%	
Sprint	1	438	123	850	0.0115	0.5667	0.20%	
Sprint	2	438	123	850	0.0230	0.5667	0.41%	
Sprint	5	623	123	1900	0.0818	1.0000	0.82%	
Sprint	2	1556	123	1900	0.0818	1.0000	0.82%	
Sprint	8	640	123	2500	0.1345	1.0000	1.35%	
VZW 700	4	697	144	0.0019	751	0.5007	0.38%	
VZW Cellular LTE	4	826	144	0.0022	874	0.5827	0.38%	
VZW Cellular CDMA	2	409	144	0.0006	874	0.5827	0.10%	
VZW PCS	4	1593	144	0.0043	1980	1.0000	0.43%	
VZW AWS	4	1563	144	0.0042	2120	1.0000	0.42%	
VZW CBAND	4	6531	144	0.0177	3730.005	1.0000	1.77%	
								12.13%
* Source: Siting Council								

Attachment 4

Report Date: February 11, 2021

Client: On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
Attn: David Weinpahl, P.E.
(201) 456-4624
dweinpahl@onaireng.com

Structure: Existing 188-ft Self Support Tower
Verizon Site Name: East Windsor CT
Site Address: 232-236 South Main Street
City, County, State: East Windsor, Hartford County, CT
Latitude, Longitude: 41.877, -72.6109

PJF Project: A42921-0001.001.8700

Paul J. Ford and Company is pleased to submit this “**Structural Analysis Report**” to determine the tower stress level.

Analysis Criteria:

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph (converted to an equivalent 97 mph nominal 3-second gust wind speed per Section 1609.3.1 for use with TIA-222 G) as required by the 2018 Connecticut State Building Code and Appendix N. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Proposed Appurtenance Loads:

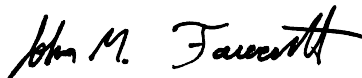
The structure was analyzed with the proposed loading configuration shown in Table 1 combined with the other considered equipment shown in Table 2 of this report.

Summary of Analysis Results:

Existing Structure: Pass – 88.9%
Existing Foundation: Pass – 76.5%

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and On Air Engineering, LLC. If you have any questions or need further assistance on this or any other projects, please give us a call.

Respectfully Submitted by:
Paul J. Ford and Company



John M. Fawcett, E.I.
Structural Designer
jfawcett@pauljford.com

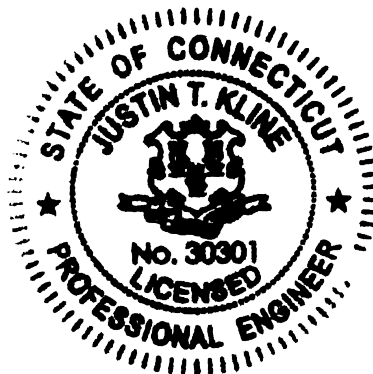


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1) INTRODUCTION

This tower is a 188 ft self-support tower designed by Rohn.

2) ANALYSIS CRITERIA

TIA-222 Revision: TIA-222-G
 Risk Category: II
 Wind Speed (Nominal): 97 mph
 Exposure Category: C
 Topographic Factor: 1
 Ice Thickness: 1 in
 Wind Speed with Ice: 50 mph
 Service Wind Speed: 60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
143.0	144.0	3	-	VZS01	6 2	1-5/8 hybrid
		3	commscope	BSAMNT-SBS-1-2 (Mount Bracket)		
		9	commscope	SBNHH-1D65B w/ Mount Pipe		
		2	raycap	DB-B1-6C-12AB-0Z		
		3	samsung telecommunications	B2/B66A RRH-BR049		
		3	samsung telecommunications	B5/B13 RRH-BR04C		
	143.0	3	tower mounts	Site Pro 1 VFA10-HD		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
187.5	195.0	1	antel	BCD-87010	1	1-1/4
186.0	186.0	1	pole mounts	Rohn 14' Platform	-	-
172.0	172.0	3	cci antennas	DTMABP7819VG12A	12 2 1	1-1/4 5/8 3/8
		3	ericsson	RRUS 11		
		3	ericsson	RRUS 12		
		3	kathrein	800 10121 w/ Mount Pipe		
		6	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe		
		3	powerwave technologies	TT19-08BP111-001		
		1	raycap	DC6-48-60-18-8F		
		3	tower mounts	(3) Sector Mounts		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
155.0	155.0	3	ericsson	RADIO 4449	6 2	1-1/4 1-5/8
		6	misc	TMA's (10" x 7" x 4")		
		3	rfs celwave	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	tower mounts	(3) Sector Mounts		
123.0	123.0	6	alcatel lucent	RRH2X50-800	3 1	1-1/4 1-5/8
		3	alcatel lucent	RRH4X45-19		
		3	alcatel lucent	TD-RRH8x20-25		
		3	commscope	DT465B-2XR w/ Mount Pipe		
		3	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe		
		3	tower mounts	(3) Sector Mounts		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference	Source
Structural Analysis Report	URS, 07/31/2013	36917407	On Air Engineering
Structural Analysis Report	Fullerton, 06/06/2017	CTL01194	
Structural Analysis Report	Destek, 08/14/2018	1875027	
Construction Drawings	On Air Engineering, 02/09/2021	-	
RFDS	Verizon, FUZE ID 16244662, 10/22/2020	-	
Mount Analysis Report	Maser, 11/19/2020	20777362A	

3.1) Analysis Method

tnxTower (version 8.0.7.5), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 3) At the time of analysis, original tower, foundation, or geotechnical documents were not available. The previous structural analysis reports, referenced in the table above, reference the original tower and foundation documents and a geotechnical report and have been used to complete this analysis.
- 4) At the time of analysis, foundation pier reinforcing steel information was not available. Therefore, it was assumed that the foundation was properly designed to meet the minimum amount of steel per ACI requirements.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	188 - 180	Leg	Pipe 3.5" x 0.216" (3 STD)	2	-3868.61	88548.60	4.4	Pass
T2	180 - 160	Leg	Pipe 3.5" x 0.216" (3 STD)	21	-21047.20	82502.60	25.5	Pass
T3	160 - 140	Leg	Pipe 3.5" x 0.300" (3 EH)	60	-52372.00	94349.80	55.5	Pass
T4	140 - 120	Leg	Pipe 4.5" x 0.337" (4 EH)	81	-93178.80	159905.00	58.3	Pass
T5	120 - 100	Leg	Pipe 5.563" x 0.375" (5 EH)	102	-135461.00	239326.00	56.6	Pass
T6	100 - 80	Leg	Pipe 6.625" x 0.340" (6 EHS)	123	-176695.00	244126.00	72.4	Pass
T7	80 - 60	Leg	Pipe 6.625" x 0.432" (6 EH)	138	-222001.00	303759.00	73.1	Pass
T8	60 - 40	Leg	Pipe 8.625" x 0.375" (8 EHS)	153	-263711.00	386368.00	68.3	Pass
T9	40 - 20	Leg	Pipe 8.625" x 0.500" (8 EH)	168	-305033.00	505544.00	60.3 61.5 (b)	Pass
T10	20 - 0	Leg	Pipe 8.625" x 0.500" (8 EH)	183	-346565.00	505565.00	68.5	Pass
T1	188 - 180	Diagonal	L 1.75 x 1.75 x 3/16	10	-1201.35	8833.29	13.6 19.5 (b)	Pass
T2	180 - 160	Diagonal	L 1.75 x 1.75 x 3/16	38	-3329.87	5513.95	60.4	Pass
T3	160 - 140	Diagonal	L 2.5 x 2.5 x 1/4	65	-6110.10	12209.80	50.0 57.7 (b)	Pass
T4	140 - 120	Diagonal	L 3 x 3 x 1/4	86	-8293.98	16593.20	50.0 55.0 (b)	Pass
T5	120 - 100	Diagonal	L 3 x 3 x 1/4	107	-8265.82	12404.00	66.6	Pass
T6	100 - 80	Diagonal	L 3.5 x 3.5 x 1/4	128	-12211.90	14408.10	84.8	Pass
T7	80 - 60	Diagonal	L 4 x 4 x 5/16	143	-11832.70	22316.40	53.0 66.1 (b)	Pass
T8	60 - 40	Diagonal	L 4 x 4 x 5/16	158	-11847.70	18939.00	62.6 66.2 (b)	Pass
T9	40 - 20	Diagonal	L 4 x 4 x 5/16	173	-13172.00	16141.50	81.6	Pass
T10	20 - 0	Diagonal	L 4 x 4 x 3/8	188	-14704.80	16543.30	88.9	Pass
T2	180 - 160	Horizontal	L 2 x 2 x 1/8	32	-209.58	2032.15	10.3	Pass
T1	188 - 180	Top Girt	L 3 x 3 x 1/4	5	-94.78	21321.30	0.4 0.8 (b)	Pass
							Summary	

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
						Leg (T7)	73.1	Pass
						Diagonal (T10)	88.9	Pass
						Horizontal (T2)	10.3	Pass
						Top Girt (T1)	0.8	Pass
						Bolt Checks	82.2	Pass
						Rating =	88.9	Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	72.8	Pass
1	Base Foundation Structural	0	76.5	Pass
1	Base Foundation Soil Interaction	0	58.2	Pass

Structure Rating (max from all components) =	88.9%
---	--------------

Notes:

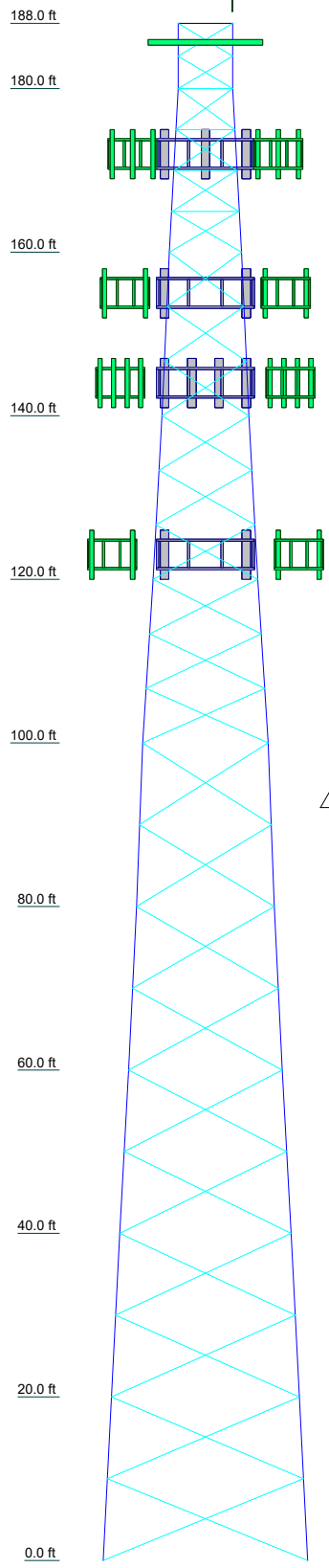
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

The tower and anchor rods have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A
TNXTOWER OUTPUT

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	21	23.05	25
Legs	Pipe 3.5" x 0.216" (3 STD)	Pipe 3.5" x 0.300" (3 EH)	Pipe 3.5" x 0.300" (3 EH)	Pipe 4.5" x 0.337" (4 EH)	A	B	C	D		Pipe 8.625" x 0.500" (8 EH)	5.5	6.2	
Leg Grade						A572-50				L 4 x 4 x 3/8			
Diagonals						L 3.5 x 3.5 x 1/4				L 4 x 4 x 5/16			
Diagonal Grade							A572-50						
Top Girts													
Horizontals							N.A.						
Face Width (ft)						16.88	15.29	12.79	10.71	8.75			
# Panels @ (ft)						9 @ 6.66667				10 @ 10			
Weight (K)						2.9	2.9	4.1	4.6	6.2			



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	Pipe 5.563" x 0.375" (5 EH)	D	Pipe 8.625" x 0.375" (8 EHS)
B	Pipe 6.625" x 0.340" (6 EHS)	E	L 3 x 3 x 1/4
C	Pipe 6.625" x 0.432" (6 EH)		

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

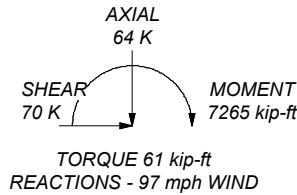
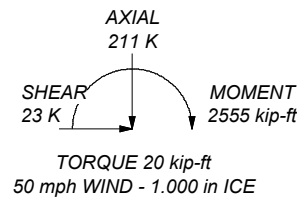
1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 97 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 88.9%


ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 357 K
SHEAR: 42 K

UPLIFT: -304 K
SHEAR: 37 K



 Paul J. Ford and Company 250 E. Broad St., Ste 600 Columbus, OH 43215 Phone: 614-221-6679 FAX:	Job: 188 ft SST / East Windsor, CT		
	Project: PJF 42921-0001.001.8700		
	Client: On Air Engineering	Drawn by: JMF	App'd:
	Code: TIA-222-G	Date: 02/03/21	Scale: NTS
	Path:		Dwg No. E-1

Tower Input Data

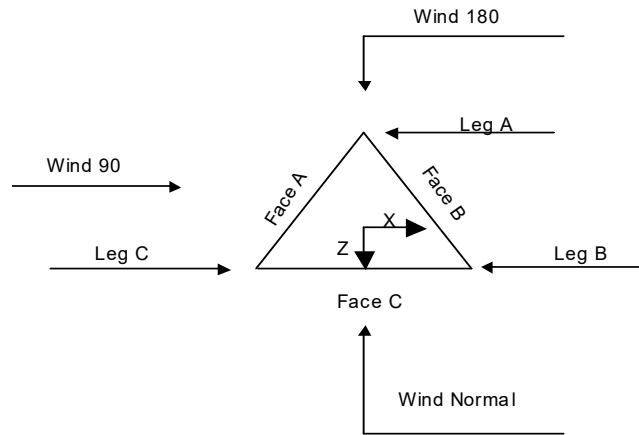
The main tower is a 3x free standing tower with an overall height of 188.00 ft above the ground line.
 The base of the tower is set at an elevation of 0.00 ft above the ground line.
 The face width of the tower is 7 ft at the top and 25 ft at the base.
 This tower is designed using the TIA-222-G standard.

The following design criteria apply:

1. Tower is located in Hartford County, Connecticut.
2. ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).
3. Basic wind speed of 97 mph.
4. Structure Class II.
5. Exposure Category C.
6. Topographic Category 1.
7. Crest Height 0.00 ft.
8. Nominal ice thickness of 1.000 in.
9. Ice thickness is considered to increase with height.
10. Ice density of 56 pcf.
11. A wind speed of 50 mph is used in combination with ice.
12. Deflections calculated using a wind speed of 60 mph.
13. A non-linear (P-delta) analysis was used.
14. Pressures are calculated at each section.
15. Stress ratio used in tower member design is 1.
16. Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification ✓ Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile ✓ Include Bolts In Member Capacity Leg Bolts Are At Top Of Section ✓ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned Assume Rigid Index Plate ✓ Use Clear Spans For Wind Area ✓ Use Clear Spans For KL/r Retension Guys To Initial Tension Bypass Mast Stability Checks ✓ Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination ✓ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules ✓ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque ✓ Include Angle Block Shear Check Use TIA-222-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption <div style="background-color: #e0e0e0; text-align: center; padding: 2px;">Poles</div> Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
--	---	---



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	188.00-180.00			7	1	8.00
T2	180.00-160.00			7	1	20.00
T3	160.00-140.00			9	1	20.00
T4	140.00-120.00			11	1	20.00
T5	120.00-100.00			13	1	20.00
T6	100.00-80.00			15	1	20.00
T7	80.00-60.00			17	1	20.00
T8	60.00-40.00			19	1	20.00
T9	40.00-20.00			21	1	20.00
T10	20.00-0.00			23	1	20.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	188.00-180.00	4	X Brace	No	No	0.000	0.000
T2	180.00-160.00	5	X Brace	No	Yes	0.000	0.000
T3	160.00-140.00	7	X Brace	No	No	0.000	0.000
T4	140.00-120.00	7	X Brace	No	No	0.000	0.000
T5	120.00-100.00	7	X Brace	No	No	0.000	0.000
T6	100.00-80.00	10	X Brace	No	No	0.000	0.000
T7	80.00-60.00	10	X Brace	No	No	0.000	0.000
T8	60.00-40.00	10	X Brace	No	No	0.000	0.000
T9	40.00-20.00	10	X Brace	No	No	0.000	0.000
T10	20.00-0.00	10	X Brace	No	No	0.000	0.000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 188.00-180.00	Pipe	Pipe 3.5" x 0.216" (3 STD)	A572-50 (50 ksi)	Equal Angle	L 1.75 x 1.75 x 3/16	A36 (36 ksi)
T2 180.00-160.00	Pipe	Pipe 3.5" x 0.216" (3 STD)	A572-50 (50 ksi)	Equal Angle	L 1.75 x 1.75 x 3/16	A36 (36 ksi)
T3 160.00-140.00	Pipe	Pipe 3.5" x 0.300" (3 EH)	A572-50 (50 ksi)	Equal Angle	L 2.5 x 2.5 x 1/4	A36 (36 ksi)
T4 140.00-120.00	Pipe	Pipe 4.5" x 0.337" (4 EH)	A572-50 (50 ksi)	Equal Angle	L 3 x 3 x 1/4	A572-50 (50 ksi)
T5 120.00-100.00	Pipe	Pipe 5.563" x 0.375" (5 EH)	A572-50 (50 ksi)	Equal Angle	L 3 x 3 x 1/4	A572-50 (50 ksi)
T6 100.00-80.00	Pipe	Pipe 6.625" x 0.340" (6 EHS)	A572-50 (50 ksi)	Equal Angle	L 3.5 x 3.5 x 1/4	A572-50 (50 ksi)
T7 80.00-60.00	Pipe	Pipe 6.625" x 0.432" (6 EH)	A572-50 (50 ksi)	Equal Angle	L 4 x 4 x 5/16	A572-50 (50 ksi)
T8 60.00-40.00	Pipe	Pipe 8.625" x 0.375" (8 EHS)	A572-50 (50 ksi)	Equal Angle	L 4 x 4 x 5/16	A572-50 (50 ksi)
T9 40.00-20.00	Pipe	Pipe 8.625" x 0.500" (8 EH)	A572-50 (50 ksi)	Equal Angle	L 4 x 4 x 5/16	A572-50 (50 ksi)
T10 20.00-0.00	Pipe	Pipe 8.625" x 0.500" (8 EH)	A572-50 (50 ksi)	Equal Angle	L 4 x 4 x 3/8	A572-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 188.00-180.00	Equal Angle	L 3 x 3 x 1/4	A572-50 (50 ksi)	Equal Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T2 180.00-160.00	None	Single Angle		A36 (36 ksi)	Equal Angle	L 2 x 2 x 1/8	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 188.00-180.00	0.00	0.000	A36 (36 ksi)	1.03	1	1.1	36.000	36.000	36.000
T2 180.00-160.00	0.00	0.000	A36 (36 ksi)	1.03	1	1.1	6.000	6.000	36.000
T3 160.00-140.00	0.00	0.000	A36 (36 ksi)	1.03	1	1.1	6.000	6.000	36.000
T4 140.00-	0.00	0.000	A36	1.03	1	1.1	6.000	6.000	36.000

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_r	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
120.00			(36 ksi)						
T5 120.00-100.00	0.00	0.000	A36	1.03	1	1.1	6.000	6.000	36.000
T6 100.00-80.00	0.00	0.000	(36 ksi) A36	1.03	1	1.1	6.000	6.000	36.000
T7 80.00-60.00	0.00	0.000	(36 ksi) A36	1.03	1	1.1	6.000	6.000	36.000
T8 60.00-40.00	0.00	0.000	(36 ksi) A36	1.03	1	1.1	6.000	6.000	36.000
T9 40.00-20.00	0.00	0.000	(36 ksi) A36	1.03	1	1.1	6.000	6.000	36.000
T10 20.00-0.00	0.00	0.000	(36 ksi) A36	1.03	1	1.1	6.000	6.000	36.000

Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹								
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace		
											X Y	X Y
T1 188.00-180.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T2 180.00-160.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T3 160.00-140.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T4 140.00-120.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T5 120.00-100.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T6 100.00-80.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T7 80.00-60.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T8 60.00-40.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T9 40.00-20.00	Yes	No	1	1	1	1	1	1	1	1	1	1
T10 20.00-0.00	Yes	No	1	1	1	1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 188.00-180.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T2 180.00-160.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T3 160.00-140.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T4 140.00-120.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 120.00-100.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 100.00-80.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 80.00-60.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 60.00-40.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 40.00-20.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T10 20.00-0.00	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 188.00-180.00	Flange	0.875 A325N	4	0.625 A325N	1	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0
T2 180.00-160.00	Flange	0.875 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	1	0.000 A325N	0
T3 160.00-140.00	Flange	0.875 A325N	4	0.625 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0
T4 140.00-120.00	Flange	1.000 A325N	4	0.750 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0
T5 120.00-100.00	Flange	1.000 A325N	6	0.750 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0
T6 100.00-80.00	Flange	1.000 A325N	6	0.750 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0
T7 80.00-60.00	Flange	1.000 A325N	8	0.750 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0
T8 60.00-40.00	Flange	1.000 A325N	8	0.750 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0
T9 40.00-20.00	Flange	1.000 A325N	8	0.750 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0
T10 20.00-0.00	Flange	1.000 A354-BC	0	0.750 A325N	1	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	# Per Row	#	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
Safety Line 3/8 ***	C	No	No	Ar (CaAa)	188.00 - 0.00	0.000	0	1	1	0.375	0.375		0.22
LDF6-50 (1 1/4" foam) ***	B	No	No	Ar (CaAa)	188.00 - 8.00	1.000	0.38	1	1	1.550	1.550		0.66
LDF6-50 (1 1/4" foam)	C	No	No	Ar (CaAa)	172.00 - 8.00	1.000	0.38	12	12	0.700 1.550	1.550		0.66

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF4.5-50 (5/8" foam)	C	No	No	Ar (CaAa)	172.00 - 8.00	1.000	0.31	2	2	0.625 0.865	0.865		0.15
LDF2-50 (3/8" foam)	C	No	No	Ar (CaAa)	172.00 - 8.00	1.000	0.3	1	1	0.440	0.440		0.08
LDF6-50 (1 1/4" foam)	A	No	No	Ar (CaAa)	155.00 - 8.00	2.000	-0.38	6	6	0.700 1.550	1.550		0.66
SAMSUNG HYBRID CABLE(1-5/8")	A	No	No	Ar (CaAa)	155.00 - 8.00	2.000	0.49	2	2	1.625	1.625		1.60
LDF7-50A (1 5/8" foam)	C	No	No	Ar (CaAa)	145.50 - 8.00	1.000	-0.4	8	8	0.700 1.980	1.980		0.92
LDF6-50 (1 1/4" foam)	A	No	No	Ar (CaAa)	123.00 - 8.00	1.000	0.48	3	3	0.700 1.550	1.550		0.66
SAMSUNG HYBRID CABLE(1-5/8")	A	No	No	Ar (CaAa)	123.00 - 8.00	1.000	0.48	1	1	0.700 1.625	1.625		1.60
1.75" flat Cable Ladder Rail	A	No	No	Af (CaAa)	157.00 - 0.00	0.000	-0.45	2	2	36.000 1.750	1.750		2.12
1.75" flat Cable Ladder Rail	B	No	No	Af (CaAa)	188.00 - 0.00	0.000	0.45	2	2	36.000 1.750	1.750		2.12
1.75" flat Cable Ladder Rail	B	No	No	Af (CaAa)	188.00 - 0.00	0.000	-0.45	2	2	36.000 1.750	1.750		2.12
1.75" flat Cable Ladder Rail	C	No	No	Af (CaAa)	172.00 - 0.00	0.000	0.45	2	2	36.000 1.750	1.750		2.12
1.75" flat Cable Ladder Rail	C	No	No	Af (CaAa)	145.50 - 0.00	0.000	-0.45	2	2	36.000 1.750	1.750		2.12

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment	Placement ft	CA _A Front	CA _A Side	Weight K
BCD-87010	B	From Leg	0.00 0 8	0.000	187.50	No Ice 1/2" Ice 1" Ice	2.90 4.05 5.21 5.21	0.03 0.05 0.08
Rohn 14' Platform	C	None		0.000	186.00	No Ice 1/2" Ice 1" Ice	41.00 56.00 71.00 71.00	2.50 3.00 3.50
(2) AM-X-CD-16-65-00T-RET w/ Mount Pipe	A	From Leg	4.00 0 0	0.000	172.00	No Ice 1/2" Ice 1" Ice	8.26 8.82 9.35 8.43	0.07 0.14 0.21
(2) AM-X-CD-16-65-00T-RET w/ Mount Pipe	B	From Leg	4.00 0 0	0.000	172.00	No Ice 1/2" Ice	8.26 8.82 9.35	0.07 0.14 0.21

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
(2) AM-X-CD-16-65-00T-RET w/ Mount Pipe	C	From Leg	4.00 0 0	0.000	172.00	1" Ice			
						No Ice	8.26	6.36	0.07
						1/2"	8.82	7.54	0.14
800 10121 w/ Mount Pipe	A	From Leg	4.00 0 0	0.000	172.00	Ice	9.35	8.43	0.21
						1" Ice			
						No Ice	5.40	4.61	0.07
800 10121 w/ Mount Pipe	A	From Leg	4.00 0 0	0.000	172.00	1/2"	5.82	5.36	0.12
						Ice	6.25	6.06	0.17
						1" Ice			
800 10121 w/ Mount Pipe	B	From Leg	4.00 0 0	0.000	172.00	No Ice	5.40	4.61	0.07
						1/2"	5.82	5.36	0.12
						Ice	6.25	6.06	0.17
800 10121 w/ Mount Pipe	B	From Leg	4.00 0 0	0.000	172.00	1" Ice			
						No Ice	5.40	4.61	0.07
						1/2"	5.82	5.36	0.12
800 10121 w/ Mount Pipe	C	From Leg	4.00 0 0	0.000	172.00	Ice	6.25	6.06	0.17
						1" Ice			
						No Ice	5.40	4.61	0.07
RRUS 11	A	From Leg	4.00 0 0	0.000	172.00	1/2"	3.00	1.34	0.07
						Ice	3.21	1.50	0.10
						1" Ice			
RRUS 11	B	From Leg	4.00 0 0	0.000	172.00	No Ice	2.79	1.19	0.05
						1/2"	3.00	1.34	0.07
						Ice	3.21	1.50	0.10
RRUS 11	B	From Leg	4.00 0 0	0.000	172.00	1" Ice			
						No Ice	2.79	1.19	0.05
						1/2"	3.00	1.34	0.07
RRUS 11	C	From Leg	4.00 0 0	0.000	172.00	Ice	3.21	1.50	0.10
						1" Ice			
						No Ice	2.79	1.19	0.05
RRUS 12	A	From Leg	4.00 0 0	0.000	172.00	1/2"	3.36	1.44	0.08
						Ice	3.59	1.60	0.11
						1" Ice			
RRUS 12	B	From Leg	4.00 0 0	0.000	172.00	No Ice	3.15	1.29	0.06
						1/2"	3.36	1.44	0.08
						Ice	3.59	1.60	0.11
RRUS 12	B	From Leg	4.00 0 0	0.000	172.00	1" Ice			
						No Ice	3.15	1.29	0.06
						1/2"	3.36	1.44	0.08
RRUS 12	C	From Leg	4.00 0 0	0.000	172.00	Ice	3.59	1.60	0.11
						1" Ice			
						No Ice	3.15	1.29	0.06
TT19-08BP111-001	A	From Leg	4.00 0 0	0.000	172.00	1/2"	0.65	0.53	0.02
						Ice	0.75	0.63	0.03
						1" Ice			
TT19-08BP111-001	B	From Leg	4.00 0 0	0.000	172.00	No Ice	0.55	0.45	0.02
						1/2"	0.65	0.53	0.02
						Ice	0.75	0.63	0.03
TT19-08BP111-001	B	From Leg	4.00 0 0	0.000	172.00	1" Ice			
						No Ice	0.55	0.45	0.02
						1/2"	0.65	0.53	0.02
TT19-08BP111-001	C	From Leg	4.00 0 0	0.000	172.00	Ice	0.75	0.63	0.03
						1" Ice			
						No Ice	0.55	0.45	0.02
DTMABP7819VG12A	A	From Leg	4.00 0 0	0.000	172.00	1/2"	1.10	0.42	0.03
						Ice	1.23	0.51	0.04
						1" Ice			
DTMABP7819VG12A	B	From Leg	4.00 0 0	0.000	172.00	No Ice	0.98	0.34	0.02
						1/2"	1.10	0.42	0.03
						Ice	1.23	0.51	0.04
DTMABP7819VG12A	B	From Leg	4.00 0 0	0.000	172.00	1" Ice			
						No Ice	0.98	0.34	0.02
						1/2"	1.10	0.42	0.03
DTMABP7819VG12A	C	From Leg	4.00 0 0	0.000	172.00	Ice	1.23	0.51	0.04
						1" Ice			
						No Ice	0.98	0.34	0.02

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
DC6-48-60-18-8F	C	From Leg	4.00 0 0	0.000	172.00	No Ice	1.21	1.21	0.03
						1/2" Ice	1.89	1.89	0.05
						1" Ice	2.11	2.11	0.08
6' x 2.375" Pipe Mount	A	From Leg	4.00 0 0	0.000	172.00	No Ice	1.43	1.43	0.02
						1/2" Ice	1.92	1.92	0.03
						1" Ice	2.29	2.29	0.05
6' x 2.375" Pipe Mount	B	From Leg	4.00 0 0	0.000	172.00	No Ice	1.43	1.43	0.02
						1/2" Ice	1.92	1.92	0.03
						1" Ice	2.29	2.29	0.05
6' x 2.375" Pipe Mount	C	From Leg	4.00 0 0	0.000	172.00	No Ice	1.43	1.43	0.02
						1/2" Ice	1.92	1.92	0.03
						1" Ice	2.29	2.29	0.05
(3) Sector Mounts	C	None		0.000	172.00	No Ice	30.43	30.43	1.69
						1/2" Ice	43.02	43.02	2.30
						1" Ice	55.43	55.43	3.10

APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	A	From Leg	4.00 0 0	0.000	155.00	No Ice	6.82	3.52	0.06
						1/2" Ice	7.28	4.29	0.11
						1" Ice	7.72	4.98	0.17
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	B	From Leg	4.00 0 0	0.000	155.00	No Ice	6.82	3.52	0.06
						1/2" Ice	7.28	4.29	0.11
						1" Ice	7.72	4.98	0.17
APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	C	From Leg	4.00 0 0	0.000	155.00	No Ice	6.82	3.52	0.06
						1/2" Ice	7.28	4.29	0.11
						1" Ice	7.72	4.98	0.17
(2) TMAs (10" x 7" x 4")	A	From Leg	4.00 0 0	0.000	155.00	No Ice	0.58	0.33	0.01
						1/2" Ice	0.68	0.41	0.02
						1" Ice	0.79	0.50	0.03
(2) TMAs (10" x 7" x 4")	B	From Leg	4.00 0 0	0.000	155.00	No Ice	0.58	0.33	0.01
						1/2" Ice	0.68	0.41	0.02
						1" Ice	0.79	0.50	0.03
(2) TMAs (10" x 7" x 4")	C	From Leg	4.00 0 0	0.000	155.00	No Ice	0.58	0.33	0.01
						1/2" Ice	0.68	0.41	0.02
						1" Ice	0.79	0.50	0.03
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00 0 0	0.000	155.00	No Ice	20.48	11.02	0.19
						1/2" Ice	21.23	12.55	0.32
						1" Ice	21.99	14.10	0.47
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00 0 0	0.000	155.00	No Ice	20.48	11.02	0.19
						1/2" Ice	21.23	12.55	0.32
						1" Ice	21.99	14.10	0.47
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00 0 0	0.000	155.00	No Ice	20.48	11.02	0.19
						1/2" Ice	21.23	12.55	0.32
						1" Ice	21.99	14.10	0.47
RADIO 4449	A	From Leg	4.00 0 0	0.000	155.00	No Ice	3.50	2.36	0.09
						1/2" Ice	3.74	2.57	0.11
						1" Ice	3.99	2.78	0.15
RADIO 4449	B	From Leg	4.00 0 0	0.000	155.00	No Ice	3.50	2.36	0.09
						1/2" Ice	3.74	2.57	0.11
						1" Ice	3.99	2.78	0.15

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			Horz	Lateral	Vert						ft	ft^{2}	ft^{2}	K
			ft	ft	ft	°	ft	ft ²	ft ²	K
RADIO 4449	C	From Leg	4.00	0.000	155.00		No Ice	3.50	2.36	0.09
			0				1/2"	3.74	2.57	0.11
			0				Ice	3.99	2.78	0.15
(3) Sector Mounts	A	None		0.000	155.00		1" Ice			
							No Ice	29.46	29.46	1.30
							1/2"	37.01	37.01	1.82
							Ice	44.76	44.76	2.47
							1" Ice			

(3) SBNHH-1D65b w/ Mount Pipe	A	From Leg	4.00	0.000	143.00		No Ice	8.44	7.10	0.07
			0				1/2"	9.00	8.30	0.14
			1				Ice	9.53	9.21	0.21
							1" Ice			
(3) SBNHH-1D65b w/ Mount Pipe	B	From Leg	4.00	0.000	143.00		No Ice	8.44	7.10	0.07
			0				1/2"	9.00	8.30	0.14
			1				Ice	9.53	9.21	0.21
							1" Ice			
(3) SBNHH-1D65b w/ Mount Pipe	C	From Leg	4.00	0.000	143.00		No Ice	8.44	7.10	0.07
			0				1/2"	9.00	8.30	0.14
			1				Ice	9.53	9.21	0.21
							1" Ice			
DB-B1-6C-12AB-0Z	A	From Leg	4.00	0.000	143.00		No Ice	2.60	2.08	0.06
			0				1/2"	2.81	2.27	0.08
			1				Ice	3.04	2.47	0.11
							1" Ice			
DB-B1-6C-12AB-0Z	C	From Leg	4.00	0.000	143.00		No Ice	2.60	2.08	0.06
			0				1/2"	2.81	2.27	0.08
			1				Ice	3.04	2.47	0.11
							1" Ice			
BSAMNT-SBS-1-2 (Mount Bracket)	A	From Leg	4.00	0.000	143.00		No Ice	0.00	0.00	0.03
			0				1/2"	0.00	0.00	0.05
			1				Ice	0.00	0.00	0.07
							1" Ice			
BSAMNT-SBS-1-2 (Mount Bracket)	B	From Leg	4.00	0.000	143.00		No Ice	0.00	0.00	0.03
			0				1/2"	0.00	0.00	0.05
			1				Ice	0.00	0.00	0.07
							1" Ice			
BSAMNT-SBS-1-2 (Mount Bracket)	C	From Leg	4.00	0.000	143.00		No Ice	0.00	0.00	0.03
			0				1/2"	0.00	0.00	0.05
			1				Ice	0.00	0.00	0.07
							1" Ice			
B2/B66A RRH-BR049	A	From Leg	4.00	0.000	143.00		No Ice	1.88	1.01	0.07
			0				1/2"	2.05	1.14	0.09
			1				Ice	2.22	1.28	0.11
							1" Ice			
B2/B66A RRH-BR049	B	From Leg	4.00	0.000	143.00		No Ice	1.88	1.01	0.07
			0				1/2"	2.05	1.14	0.09
			1				Ice	2.22	1.28	0.11
							1" Ice			
B2/B66A RRH-BR049	C	From Leg	4.00	0.000	143.00		No Ice	1.88	1.01	0.07
			0				1/2"	2.05	1.14	0.09
			1				Ice	2.22	1.28	0.11
							1" Ice			
B5/B13 RRH-BR04C	A	From Leg	4.00	0.000	143.00		No Ice	1.88	1.01	0.07
			0				1/2"	2.05	1.14	0.09
			1				Ice	2.22	1.28	0.11
							1" Ice			
B5/B13 RRH-BR04C	B	From Leg	4.00	0.000	143.00		No Ice	1.88	1.01	0.07
			0				1/2"	2.05	1.14	0.09
			1				Ice	2.22	1.28	0.11
							1" Ice			
B5/B13 RRH-BR04C	C	From Leg	4.00	0.000	143.00		No Ice	1.88	1.01	0.07
			0				1/2"	2.05	1.14	0.09
			1				Ice	2.22	1.28	0.11
							1" Ice			

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _A A _{Front}	C _A A _{Side}	Weight
			Horz	Lateral	Vert						ft	ft^{2}	ft^{2}	K
			ft	ft	ft	°	ft	ft ²	ft ²	K
VZS01	A	From Leg	4.00	0	0.000	143.00	No Ice	4.03	2.15	0.08
			0				1/2"	4.29	2.36	0.11
			1				Ice	4.56	2.57	0.14
VZS01	A	From Leg	4.00	0	0.000	143.00	1" Ice	4.03	2.15	0.08
			0				1/2"	4.29	2.36	0.11
			1				Ice	4.56	2.57	0.14
VZS01	A	From Leg	4.00	0	0.000	143.00	No Ice	4.03	2.15	0.08
			0				1/2"	4.29	2.36	0.11
			1				Ice	4.56	2.57	0.14
9 x 2" Sch 40 Mount Pipe	A	From Leg	4.00	0	0.000	143.00	1" Ice	2.14	2.14	0.03
			0				1/2"	3.07	3.07	0.05
			1				Ice	4.01	4.01	0.07
9 x 2" Sch 40 Mount Pipe	B	From Leg	4.00	0	0.000	143.00	No Ice	2.14	2.14	0.03
			0				1/2"	3.07	3.07	0.05
			1				Ice	4.01	4.01	0.07
9 x 2" Sch 40 Mount Pipe	C	From Leg	4.00	0	0.000	143.00	1" Ice	2.14	2.14	0.03
			0				1/2"	3.07	3.07	0.05
			1				Ice	4.01	4.01	0.07
Site Pro 1 VFA10-HD	A	From Leg	2.00	0	0.000	143.00	No Ice	12.10	9.10	0.63
			0				1/2"	18.30	15.30	0.77
			0				Ice	23.80	17.80	0.97
Site Pro 1 VFA10-HD	B	From Leg	2.00	0	0.000	143.00	1" Ice	12.10	9.10	0.63
			0				1/2"	18.30	15.30	0.77
			0				Ice	23.80	17.80	0.97
Site Pro 1 VFA10-HD	C	From Leg	2.00	0	0.000	143.00	No Ice	12.10	9.10	0.63
			0				1/2"	18.30	15.30	0.77
			0				Ice	23.80	17.80	0.97

APXVSP18-C-A20 w/ Mount Pipe	A	From Leg	4.00	0	0.000	123.00	No Ice	8.26	7.47	0.09
			0				1/2"	8.82	8.66	0.16
			0				Ice	9.35	9.56	0.24
APXVSP18-C-A20 w/ Mount Pipe	B	From Leg	4.00	0	0.000	123.00	1" Ice	8.26	7.47	0.09
			0				1/2"	8.82	8.66	0.16
			0				Ice	9.35	9.56	0.24
APXVSP18-C-A20 w/ Mount Pipe	C	From Leg	4.00	0	0.000	123.00	No Ice	8.26	7.47	0.09
			0				1/2"	8.82	8.66	0.16
			0				Ice	9.35	9.56	0.24
DT465B-2XR w/ Mount Pipe	A	From Leg	4.00	0	0.000	123.00	1" Ice	9.34	7.63	0.08
			0				1/2"	9.91	8.82	0.16
			0				Ice	10.44	9.72	0.24
DT465B-2XR w/ Mount Pipe	B	From Leg	4.00	0	0.000	123.00	1" Ice	9.34	7.63	0.08
			0				1/2"	9.91	8.82	0.16
			0				Ice	10.44	9.72	0.24
DT465B-2XR w/ Mount Pipe	C	From Leg	4.00	0	0.000	123.00	No Ice	9.34	7.63	0.08
			0				1/2"	9.91	8.82	0.16
			0				Ice	10.44	9.72	0.24
RRH2X50-800	A	From Leg	4.00	0	0.000	123.00	1" Ice	1.70	1.28	0.05
			0				1/2"	1.86	1.43	0.07
			0				Ice	2.03	1.58	0.09

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _A A _{Front}	C _A A _{Side}	Weight
			Horz	Lateral	Vert						ft	ft^{2}	ft^{2}	K
			ft	ft	ft	°	ft	ft ²	ft ²	K
RRH2X50-800	B	From Leg	4.00	0.000	123.00	No Ice	1.70	1.28	0.05	
			0			1/2"	1.86	1.43	0.07	
			0			Ice	2.03	1.58	0.09	
RRH2X50-800	C	From Leg	4.00	0.000	123.00	No Ice	1.70	1.28	0.05	
			0			1/2"	1.86	1.43	0.07	
			0			Ice	2.03	1.58	0.09	
RRH4X45-19	A	From Leg	4.00	0.000	123.00	No Ice	2.31	2.38	0.06	
			0			1/2"	2.52	2.58	0.08	
			0			Ice	2.73	2.79	0.11	
RRH4X45-19	B	From Leg	4.00	0.000	123.00	No Ice	2.31	2.38	0.06	
			0			1/2"	2.52	2.58	0.08	
			0			Ice	2.73	2.79	0.11	
RRH4X45-19	C	From Leg	4.00	0.000	123.00	No Ice	2.31	2.38	0.06	
			0			1/2"	2.52	2.58	0.08	
			0			Ice	2.73	2.79	0.11	
TD-RRH8x20-25	A	From Leg	4.00	0.000	123.00	No Ice	4.05	1.53	0.07	
			0			1/2"	4.30	1.71	0.10	
			0			Ice	4.56	1.90	0.13	
TD-RRH8x20-25	B	From Leg	4.00	0.000	123.00	No Ice	4.05	1.53	0.07	
			0			1/2"	4.30	1.71	0.10	
			0			Ice	4.56	1.90	0.13	
TD-RRH8x20-25	C	From Leg	4.00	0.000	123.00	No Ice	4.05	1.53	0.07	
			0			1/2"	4.30	1.71	0.10	
			0			Ice	4.56	1.90	0.13	
RRH2X50-800	A	From Leg	4.00	0.000	123.00	No Ice	1.70	1.28	0.05	
			0			1/2"	1.86	1.43	0.07	
			0			Ice	2.03	1.58	0.09	
RRH2X50-800	B	From Leg	4.00	0.000	123.00	No Ice	1.70	1.28	0.05	
			0			1/2"	1.86	1.43	0.07	
			0			Ice	2.03	1.58	0.09	
RRH2X50-800	C	From Leg	4.00	0.000	123.00	No Ice	1.70	1.28	0.05	
			0			1/2"	1.86	1.43	0.07	
			0			Ice	2.03	1.58	0.09	
(3) Sector Mounts	A	None		0.000	123.00	No Ice	30.43	30.43	1.69	
						1/2"	43.02	43.02	2.30	
						Ice	55.43	55.43	3.10	
						1" Ice				

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice

Comb. No.	Description
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Leg C	Max. Vert	18	336056.62	34396.20	-19389.65
	Max. H _x	18	336056.62	34396.20	-19389.65
	Max. H _z	5	-253963.27	-25883.86	17334.21
	Min. Vert	7	-281054.65	-29802.60	16731.31
	Min. H _x	7	-281054.65	-29802.60	16731.31
	Min. H _z	18	336056.62	34396.20	-19389.65
Leg B	Max. Vert	10	341106.66	-35303.59	-19424.89
	Max. H _x	23	-286989.91	30736.18	16775.11
	Max. H _z	25	-257066.05	26842.53	16988.28
	Min. Vert	23	-286989.91	30736.18	16775.11
	Min. H _x	10	341106.66	-35303.59	-19424.89
	Min. H _z	10	341106.66	-35303.59	-19424.89
Leg A	Max. Vert	2	356982.89	-422.32	42391.28
	Max. H _x	21	15688.53	4534.60	1335.36
	Max. H _z	2	356982.89	-422.32	42391.28
	Min. Vert	15	-303627.35	427.93	-37157.79
	Min. H _x	9	15780.68	-4542.41	1344.02
	Min. H _z	15	-303627.35	427.93	-37157.79

Tower Mast Reaction Summary

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
Dead Only	53608.21	-0.00	0.00	8365	5274	0
1.2 Dead+1.6 Wind 0 deg - No Ice	64329.86	6.90	-69668.62	-7264645	5419	-18384
0.9 Dead+1.6 Wind 0 deg - No Ice	48247.39	6.90	-69668.60	-7260112	3822	-18377
1.2 Dead+1.6 Wind 30 deg - No Ice	64329.86	31859.96	-55331.82	-5860961	-3370916	23879
0.9 Dead+1.6 Wind 30 deg - No Ice	48247.39	31859.96	-55331.82	-5857712	-3369192	23873
1.2 Dead+1.6 Wind 60 deg - No Ice	64329.86	52322.90	-30302.49	-3223817	-5571455	17861
0.9 Dead+1.6 Wind 60 deg - No Ice	48247.39	52322.90	-30302.49	-3223145	-5567544	17858
1.2 Dead+1.6 Wind 90 deg - No Ice	64329.86	56358.95	-6.90	9059	-6057161	-2154
0.9 Dead+1.6 Wind 90 deg - No Ice	48247.39	56358.95	-6.90	6534	-6052727	-2153
1.2 Dead+1.6 Wind 120 deg - No Ice	64329.86	57099.82	33052.48	3480160	-5982313	36293
0.9 Dead+1.6 Wind 120 deg - No Ice	48247.39	57099.81	33052.47	3474241	-5978068	36291
1.2 Dead+1.6 Wind 150 deg - No Ice	64329.86	32559.40	56557.09	5941079	-3404166	61254
0.9 Dead+1.6 Wind 150 deg - No Ice	48248.16	32558.71	56557.87	5932773	-3402445	61221
1.2 Dead+1.6 Wind 180 deg - No Ice	64329.86	-6.90	65599.96	6931211	7410	18379
0.9 Dead+1.6 Wind 180 deg - No Ice	48247.39	-6.90	65599.96	6921921	5813	18370
1.2 Dead+1.6 Wind 210 deg - No Ice	64329.86	-31859.96	55331.82	5881136	3383554	-23880
0.9 Dead+1.6 Wind 210 deg - No Ice	48247.39	-31859.96	55331.82	5872844	3378641	-23875
1.2 Dead+1.6 Wind 240 deg - No Ice	64329.87	-55846.53	32336.80	3420795	5890336	-17863
0.9 Dead+1.6 Wind 240 deg - No Ice	48247.39	-55846.44	32336.81	3414935	5882983	-17865
1.2 Dead+1.6 Wind 270 deg - No Ice	64329.86	-56358.95	6.90	11057	6069881	2154
0.9 Dead+1.6 Wind 270 deg - No Ice	48247.39	-56358.95	6.90	8529	6062256	2153
1.2 Dead+1.6 Wind 300 deg - No Ice	64329.86	-53576.27	-31018.16	-3283086	5688917	-36289
0.9 Dead+1.6 Wind 300 deg - No Ice	48247.39	-53576.27	-31018.16	-3282367	5681734	-36277
1.2 Dead+1.6 Wind 330 deg - No Ice	64329.86	-32559.40	-56557.08	-5920798	3417150	-61253
0.9 Dead+1.6 Wind 330 deg - No Ice	48248.16	-32560.42	-56556.88	-5917542	3412225	-61219
1.2 Dead+1.0 Ice	211292.89	-0.00	0.00	98567	56554	6
1.2 Dead+1.0 Wind 0 deg+1.0 Ice	211292.89	1.33	-23191.53	-2403946	56594	-7676
1.2 Dead+1.0 Wind 30 deg+1.0 Ice	211292.89	10708.04	-18574.72	-1935893	-1115725	5394
1.2 Dead+1.0 Wind 60 deg+1.0 Ice	211292.89	17740.11	-10259.87	-1032311	-1898235	6033
1.2 Dead+1.0 Wind 90 deg+1.0 Ice	211292.89	19755.21	-1.33	98780	-2130951	2351
1.2 Dead+1.0 Wind 120 deg+1.0 Ice	211292.89	18925.28	10942.60	1287837	-1998306	11919
1.2 Dead+1.0 Wind 150 deg+1.0 Ice	211292.89	10859.81	18840.25	2143880	-1121269	19647
1.2 Dead+1.0 Wind 180 deg+1.0 Ice	211292.89	-1.33	22626.65	2554300	56968	7675

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturing Moment, M _x lb-ft	Overturing Moment, M _z lb-ft	Torque lb-ft
1.2 Dead+1.0 Wind 210 deg+1.0 Ice	211292.89	-10708.04	18574.73	2133847	1229258	-5395
1.2 Dead+1.0 Wind 240 deg+1.0 Ice	211292.89	-18229.31	10542.31	1254065	2052992	-6035
1.2 Dead+1.0 Wind 270 deg+1.0 Ice	211292.89	-19755.21	1.33	99167	2244496	-2351
1.2 Dead+1.0 Wind 300 deg+1.0 Ice	211292.89	-18436.08	-10660.15	-1066073	2070646	-11916
1.2 Dead+1.0 Wind 330 deg+1.0 Ice	211292.89	-10859.81	-18840.25	-1945912	1234851	-19647
Dead+Wind 0 deg - Service	53608.21	1.65	-16660.04	-1730139	5061	-4394
Dead+Wind 30 deg - Service	53608.21	7618.76	-13231.65	-1394672	-801797	5709
Dead+Wind 60 deg - Service	53608.21	12512.12	-7246.32	-764450	-1327677	4271
Dead+Wind 90 deg - Service	53608.21	13477.27	-1.65	8142	-1443744	-515
Dead+Wind 120 deg - Service	53608.21	13654.44	7903.93	837651	-1425888	8677
Dead+Wind 150 deg - Service	53608.21	7786.02	13524.65	1425767	-809778	14644
Dead+Wind 180 deg - Service	53608.21	-1.65	15687.10	1662399	5537	4394
Dead+Wind 210 deg - Service	53608.21	-7618.76	13231.65	1411443	812380	-5709
Dead+Wind 240 deg - Service	53608.21	-13354.71	7732.79	823473	1411452	-4271
Dead+Wind 270 deg - Service	53608.21	-13477.27	1.65	8620	1454336	515
Dead+Wind 300 deg - Service	53608.21	-12811.84	-7417.46	-778624	1363299	-8676
Dead+Wind 330 deg - Service	53608.21	-7786.02	-13524.65	-1408992	820385	-14644

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	188 - 180	3.68	39	0.164	0.022
T2	180 - 160	3.41	39	0.164	0.022
T3	160 - 140	2.72	39	0.155	0.021
T4	140 - 120	2.08	39	0.137	0.019
T5	120 - 100	1.53	39	0.115	0.016
T6	100 - 80	1.06	39	0.095	0.012
T7	80 - 60	0.67	39	0.072	0.009
T8	60 - 40	0.39	39	0.051	0.007
T9	40 - 20	0.19	39	0.032	0.004
T10	20 - 0	0.06	39	0.016	0.002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
187.50	BCD-87010	39	3.67	0.164	0.022	430884
186.00	Rohn 14' Platform	39	3.61	0.164	0.022	430884
172.00	(2) AM-X-CD-16-65-00T-RET w/ Mount Pipe	39	3.13	0.161	0.022	280858
155.00	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	39	2.55	0.151	0.021	66881
143.00	(3) SBNHH-1D65b w/ Mount Pipe	39	2.17	0.140	0.019	60043
123.00	APXVSP18-C-A20 w/ Mount Pipe	39	1.61	0.118	0.016	60142

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	188 - 180	15.45	2	0.688	0.091
T2	180 - 160	14.29	2	0.686	0.092
T3	160 - 140	11.40	2	0.650	0.088
T4	140 - 120	8.74	2	0.573	0.078
T5	120 - 100	6.42	2	0.482	0.066
T6	100 - 80	4.43	2	0.398	0.051
T7	80 - 60	2.83	2	0.303	0.038
T8	60 - 40	1.64	2	0.215	0.029
T9	40 - 20	0.80	2	0.133	0.019
T10	20 - 0	0.26	2	0.068	0.009

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
187.50	BCD-87010	2	15.38	0.688	0.091	103248
186.00	Rohn 14' Platform	2	15.16	0.688	0.092	103248
172.00	(2) AM-X-CD-16-65-00T-RET w/ Mount Pipe	2	13.12	0.677	0.092	68291
155.00	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	2	10.70	0.634	0.086	15966
143.00	(3) SBNHH-1D65b w/ Mount Pipe	2	9.12	0.586	0.080	14400
123.00	APXVSP18-C-A20 w/ Mount Pipe	2	6.74	0.495	0.068	14386

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria
T1	188	Leg	A325N	0.875	4	322.38	40589.10	0.008	1	Bolt Tension
		Diagonal	A325N	0.625	1	1135.47	5811.33	0.195	1	Member Block Shear
T2	180	Top Girt	A325N	0.625	1	94.78	12425.20	0.008	1	Bolt Shear
		Leg	A325N	0.875	4	3823.27	40589.10	0.094	1	Bolt Tension
		Diagonal	A325N	0.625	1	3125.91	5811.33	0.538	1	Member Block Shear
T3	160	Horizontal	A325N	0.625	1	442.94	4553.91	0.097	1	Member Block Shear
		Leg	A325N	0.875	4	10102.50	40589.10	0.249	1	Bolt Tension
T4	140	Diagonal	A325N	0.625	1	6025.67	10440.00	0.577	1	Member Bearing
		Leg	A325N	1.000	4	18982.10	53014.40	0.358	1	Bolt Tension
T5	120	Diagonal	A325N	0.750	1	7776.71	14137.50	0.550	1	Member Bearing
		Leg	A325N	1.000	6	18849.40	53014.40	0.356	1	Bolt Tension
T6	100	Diagonal	A325N	0.750	1	8327.88	14137.50	0.589	1	Member Bearing
		Leg	A325N	1.000	6	25083.50	53014.40	0.473	1	Bolt Tension
		Diagonal	A325N	0.750	1	11464.90	14137.50	0.811	1	Member Bearing

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load Allowable	Allowable Ratio	Criteria
T7	80	Leg	A325N	1.000	8	23776.50	53014.40	0.448	1	Bolt Tension
T8	60	Diagonal	A325N	0.750	1	11832.70	17892.40	0.661	1	Bolt Shear
		Leg	A325N	1.000	8	28247.20	53014.40	0.533	1	Bolt Tension
T9	40	Diagonal	A325N	0.750	1	11847.70	17892.40	0.662	1	Bolt Shear
		Leg	A325N	1.000	8	32599.20	53014.40	0.615	1	Bolt Tension
T10	20	Diagonal	A325N	0.750	1	13172.00	17892.40	0.736	1	Bolt Shear
		Diagonal	A325N	0.750	1	14704.80	17892.40	0.822	1	Bolt Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	188 - 180	Pipe 3.5" x 0.216" (3 STD)	8.00	4.00	41.3 K=1.00	2.228	-3868.61	88548.60	0.044 ¹
T2	180 - 160	Pipe 3.5" x 0.216" (3 STD)	20.04	5.01	51.7 K=1.00	2.228	-21047.20	82502.60	0.255 ¹
T3	160 - 140	Pipe 3.5" x 0.300" (3 EH)	20.03	6.68	70.5 K=1.00	3.016	-52372.00	94349.80	0.555 ¹
T4	140 - 120	Pipe 4.5" x 0.337" (4 EH)	20.04	6.68	54.3 K=1.00	4.407	-93178.80	159905.00	0.583 ¹
T5	120 - 100	Pipe 5.563" x 0.375" (5 EH)	20.05	6.68	43.6 K=1.00	6.112	-135461.00	239326.00	0.566 ¹
T6	100 - 80	Pipe 6.625" x 0.340" (6 EHS)	20.02	10.01	54.0 K=1.00	6.713	-176695.00	244126.00	0.724 ¹
T7	80 - 60	Pipe 6.625" x 0.432" (6 EH)	20.03	10.02	54.8 K=1.00	8.405	-222001.00	303759.00	0.731 ¹
T8	60 - 40	Pipe 8.625" x 0.375" (8 EHS)	20.04	10.02	41.2 K=1.00	9.719	-263711.00	386368.00	0.683 ¹
T9	40 - 20	Pipe 8.625" x 0.500" (8 EH)	20.03	10.02	41.8 K=1.00	12.763	-305033.00	505544.00	0.603 ¹
T10	20 - 0	Pipe 8.625" x 0.500" (8 EH)	20.03	10.02	41.8 K=1.00	12.763	-346565.00	505565.00	0.685 ¹

¹ $P_u / \phi P_n$ controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	188 - 180	L 1.75 x 1.75 x 3/16	7.74	3.58	125.1 K=1.00	0.621	-1201.35	8833.29	0.136 ¹
T2	180 - 160	L 1.75 x 1.75 x 3/16	9.40	4.57	159.5 K=1.00	0.621	-3329.87	5513.95	0.604 ¹
T3	160 - 140	L 2.5 x 2.5 x 1/4	12.34	6.07	148.4 K=1.00	1.190	-6110.10	12209.80	0.500 ¹
T4	140 - 120	L 3 x 3 x 1/4	14.12	6.91	140.0 K=1.00	1.440	-8293.98	16593.20	0.500 ¹
T5	120 - 100	L 3 x 3 x 1/4	16.30	7.99	161.9 K=1.00	1.440	-8265.82	12404.00	0.666 ¹
T6	100 - 80	L 3.5 x 3.5 x 1/4	19.28	9.41	162.8 K=1.00	1.690	-12211.90	14408.10	0.848 ¹
T7	80 - 60	L 4 x 4 x 5/16	20.89	10.27	155.9	2.400	-11832.70	22316.40	0.530 ¹

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T8	60 - 40	L 4 x 4 x 5/16	22.77	11.15	K=1.00 169.2	2.400	-11847.70	18939.00	0.626 ¹
T9	40 - 20	L 4 x 4 x 5/16	24.66	12.08	K=1.00 183.3	2.400	-13172.00	16141.50	0.816 ¹
T10	20 - 0	L 4 x 4 x 3/8	26.48	12.98	K=1.00 197.6 K=1.00	2.860	-14704.80	16543.30	0.889 ¹

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T2	180 - 160	L 2 x 2 x 1/8	8.22	7.69	232.1 K=1.00	0.484	-209.58	2032.15	0.103 ¹
KL/R > 200 (C) - 32									

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	188 - 180	L 3 x 3 x 1/4	6.63	6.09	123.5 K=1.00	1.440	-94.78	21321.30	0.004 ¹

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	188 - 180	Pipe 3.5" x 0.216" (3 STD)	8.00	4.00	41.3	2.228	921.15	100281.00	0.009 ¹
T2	180 - 160	Pipe 3.5" x 0.216" (3 STD)	20.04	5.01	51.7	2.228	15293.10	100281.00	0.153 ¹
T3	160 - 140	Pipe 3.5" x 0.300" (3 EH)	20.03	6.68	70.5	3.016	40409.80	135717.00	0.298 ¹
T4	140 - 120	Pipe 4.5" x 0.337" (4 EH)	20.04	6.68	54.3	4.407	75928.30	198335.00	0.383 ¹
T5	120 - 100	Pipe 5.563" x 0.375" (5 EH)	20.05	6.68	43.6	6.112	113096.00	275039.00	0.411 ¹
T6	100 - 80	Pipe 6.625" x 0.340" (6 EHS)	20.02	10.01	54.0	6.713	150501.00	302097.00	0.498 ¹
T7	80 - 60	Pipe 6.625" x 0.432" (6 EH)	20.03	10.02	54.8	8.405	190212.00	378222.00	0.503 ¹
T8	60 - 40	Pipe 8.625" x 0.375" (8 EHS)	20.04	10.02	41.2	9.719	225977.00	437369.00	0.517 ¹
T9	40 - 20	Pipe 8.625" x 0.500" (8	20.03	10.02	41.8	12.763	260794.00	574322.00	0.454 ¹

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T10	20 - 0	EH) Pipe 8.625" x 0.500" (8 EH)	20.03	10.02	41.8	12.763	295224.00	574322.00	0.514 ¹

¹ $P_u / \phi P_n$ controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	188 - 180	L 1.75 x 1.75 x 3/16	7.74	3.58	82.7	0.360	1135.47	15675.30	0.072 ¹
T2	180 - 160	L 1.75 x 1.75 x 3/16	9.40	4.57	104.7	0.360	3125.91	15675.30	0.199 ¹
T3	160 - 140	L 2.5 x 2.5 x 1/4	12.34	6.07	96.6	0.752	6025.67	32706.60	0.184 ¹
T4	140 - 120	L 3 x 3 x 1/4	14.12	6.91	90.9	0.916	7776.71	44652.00	0.174 ¹
T5	120 - 100	L 3 x 3 x 1/4	16.30	7.99	104.8	0.916	8327.88	44652.00	0.187 ¹
T6	100 - 80	L 3.5 x 3.5 x 1/4	19.28	9.41	105.1	1.103	11464.90	53792.60	0.213 ¹
T7	80 - 60	L 4 x 4 x 5/16	20.89	10.27	100.7	1.595	11212.60	77752.40	0.144 ¹
T8	60 - 40	L 4 x 4 x 5/16	22.77	11.15	109.2	1.595	11369.60	77752.40	0.146 ¹
T9	40 - 20	L 4 x 4 x 5/16	23.73	11.62	113.7	1.595	12311.30	77752.40	0.158 ¹
T10	20 - 0	L 4 x 4 x 3/8	25.58	12.53	123.6	1.899	13588.70	92571.70	0.147 ¹

¹ $P_u / \phi P_n$ controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T2	180 - 160	L 2 x 2 x 1/8	8.22	7.69	151.9	0.293	442.94	12744.10	0.035 ¹

¹ $P_u / \phi P_n$ controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	188 - 180	L 3 x 3 x 1/4	6.63	6.09	81.7	0.939	8.50	45794.50	0.000 ¹

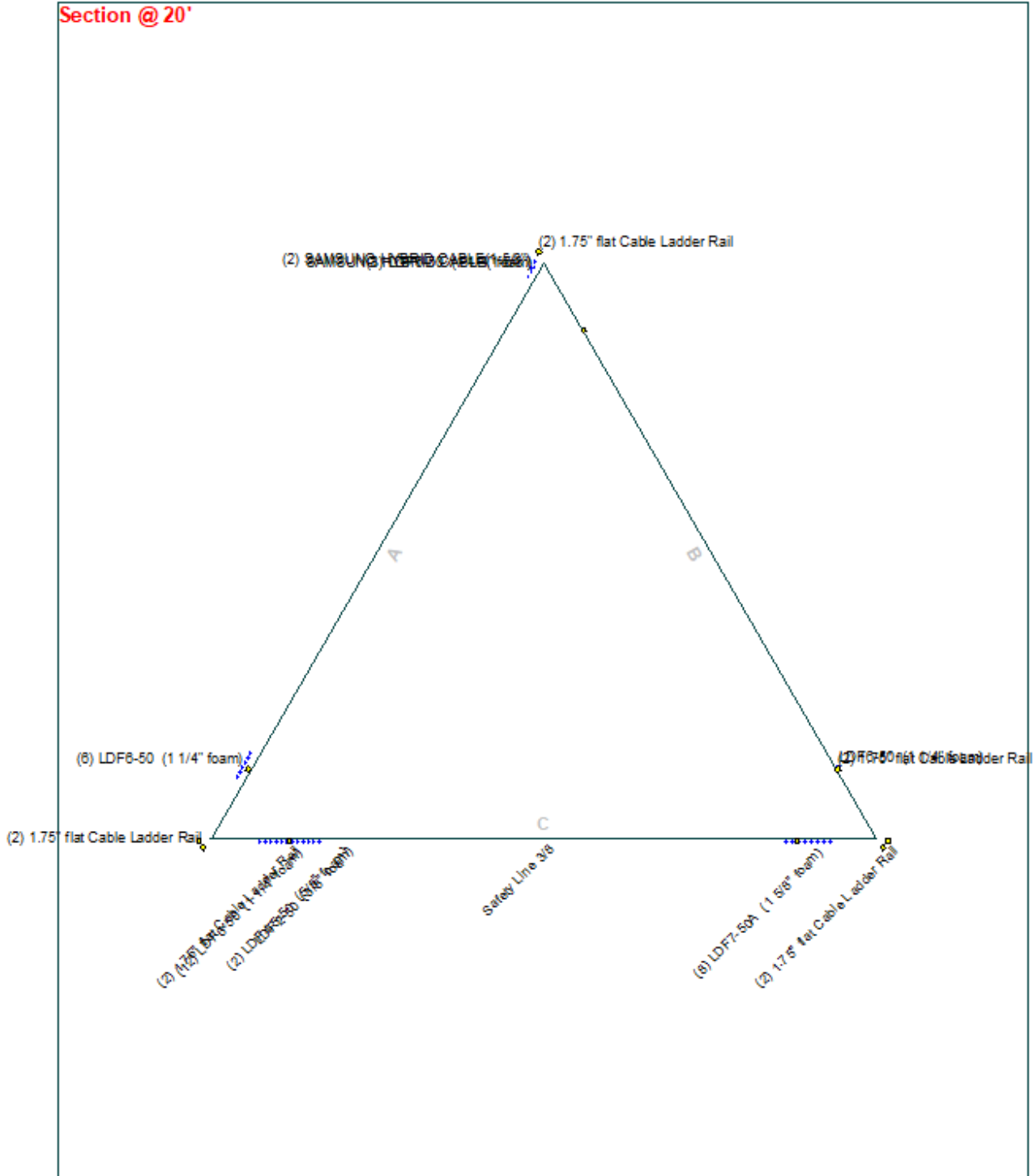
¹ $P_u / \phi P_n$ controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T1	188 - 180	Leg	Pipe 3.5" x 0.216" (3 STD)	2	-3868.61	88548.60	4.4	Pass
T2	180 - 160	Leg	Pipe 3.5" x 0.216" (3 STD)	21	-21047.20	82502.60	25.5	Pass
T3	160 - 140	Leg	Pipe 3.5" x 0.300" (3 EH)	60	-52372.00	94349.80	55.5	Pass
T4	140 - 120	Leg	Pipe 4.5" x 0.337" (4 EH)	81	-93178.80	159905.00	58.3	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
T5	120 - 100	Leg	Pipe 5.563" x 0.375" (5 EH)	102	-135461.00	239326.00	56.6	Pass	
T6	100 - 80	Leg	Pipe 6.625" x 0.340" (6 EHS)	123	-176695.00	244126.00	72.4	Pass	
T7	80 - 60	Leg	Pipe 6.625" x 0.432" (6 EH)	138	-222001.00	303759.00	73.1	Pass	
T8	60 - 40	Leg	Pipe 8.625" x 0.375" (8 EHS)	153	-263711.00	386368.00	68.3	Pass	
T9	40 - 20	Leg	Pipe 8.625" x 0.500" (8 EH)	168	-305033.00	505544.00	60.3	Pass	
T10	20 - 0	Leg	Pipe 8.625" x 0.500" (8 EH)	183	-346565.00	505565.00	68.5	Pass	
T1	188 - 180	Diagonal	L 1.75 x 1.75 x 3/16	10	-1201.35	8833.29	13.6	Pass	
T2	180 - 160	Diagonal	L 1.75 x 1.75 x 3/16	38	-3329.87	5513.95	60.4	Pass	
T3	160 - 140	Diagonal	L 2.5 x 2.5 x 1/4	65	-6110.10	12209.80	50.0	Pass	
T4	140 - 120	Diagonal	L 3 x 3 x 1/4	86	-8293.98	16593.20	50.0	Pass	
T5	120 - 100	Diagonal	L 3 x 3 x 1/4	107	-8265.82	12404.00	66.6	Pass	
T6	100 - 80	Diagonal	L 3.5 x 3.5 x 1/4	128	-12211.90	14408.10	84.8	Pass	
T7	80 - 60	Diagonal	L 4 x 4 x 5/16	143	-11832.70	22316.40	53.0	Pass	
T8	60 - 40	Diagonal	L 4 x 4 x 5/16	158	-11847.70	18939.00	62.6	Pass	
T9	40 - 20	Diagonal	L 4 x 4 x 5/16	173	-13172.00	16141.50	81.6	Pass	
T10	20 - 0	Diagonal	L 4 x 4 x 3/8	188	-14704.80	16543.30	88.9	Pass	
T2	180 - 160	Horizontal	L 2 x 2 x 1/8	32	-209.58	2032.15	10.3	Pass	
T1	188 - 180	Top Girt	L 3 x 3 x 1/4	5	-94.78	21321.30	0.4	Pass	
							0.8 (b)		
							Summary		
							Leg (T7)	73.1	Pass
							Diagonal (T10)	88.9	Pass
							Horizontal (T2)	10.3	Pass
							Top Girt (T1)	0.8	Pass
							Bolt Checks	82.2	Pass
							RATING =	88.9	Pass

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Self-Support Tower Anchor Rod Capacity - TIA-G

Loads

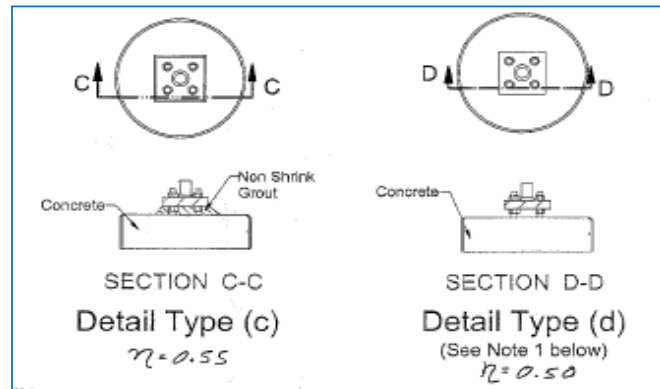
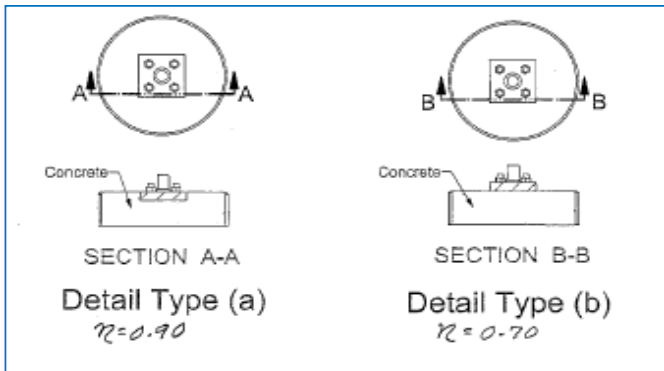
Compression :	357	kips	Tension :	304	kips
Comp. Shear :	42	kips	Ten. Shear :	37	kips

Code:	TIA-G
Maximum Ratio:	1.05

Existing Anchor Rods

Anchor Rod Condition (n) :	0.5
Anchor Rod ϕ :	1 in
Anchor Rod Quantity :	10
Anchor Rod Grade :	A354 Gr. BC (1/4 to 2-1/2 incl.)
F_y :	109 ksi
F_u :	125 ksi
Threads per Inch	8
Net Tensile Area	0.61 in ²
ϕ_t :	0.80
$\phi_t R_{nt}$:	605.74 kip
Anchor Rod Ratio :	0.728

l_{ar} :	inches
Comp. M_u :	0.00 k-in



Factored Foundation Loads:

	LC1	LC2	
Factored Axial Load (+Comp, -Ten) =	357	-304	kips
Factored Horiz. Load at Top of Pier =	42	37	kips
Factored OTM at Top of Pier =	0	0	k-ft

LRFD Resistance and Load Factors:

	Φ	Dead Load Factors	
Soil Bearing =	0.75		
Soil Weight =	0.75	1.2	0.9
Concrete Weight =	0.75	1.2	0.9

Soil Properties:

Depth to Water Table =	6	ft
Uplift Cone from	Top	of footing
Depth to Ignore for Uplift and PP =	3.5	ft

Layer	Soil	Cohesion	Friction	Ult	Depth
Thk	Density		Angle	Bearing	
ft	pcf	ksf	degrees	ksf	ft
14	125	0	34	12	14.00

Dimensions:

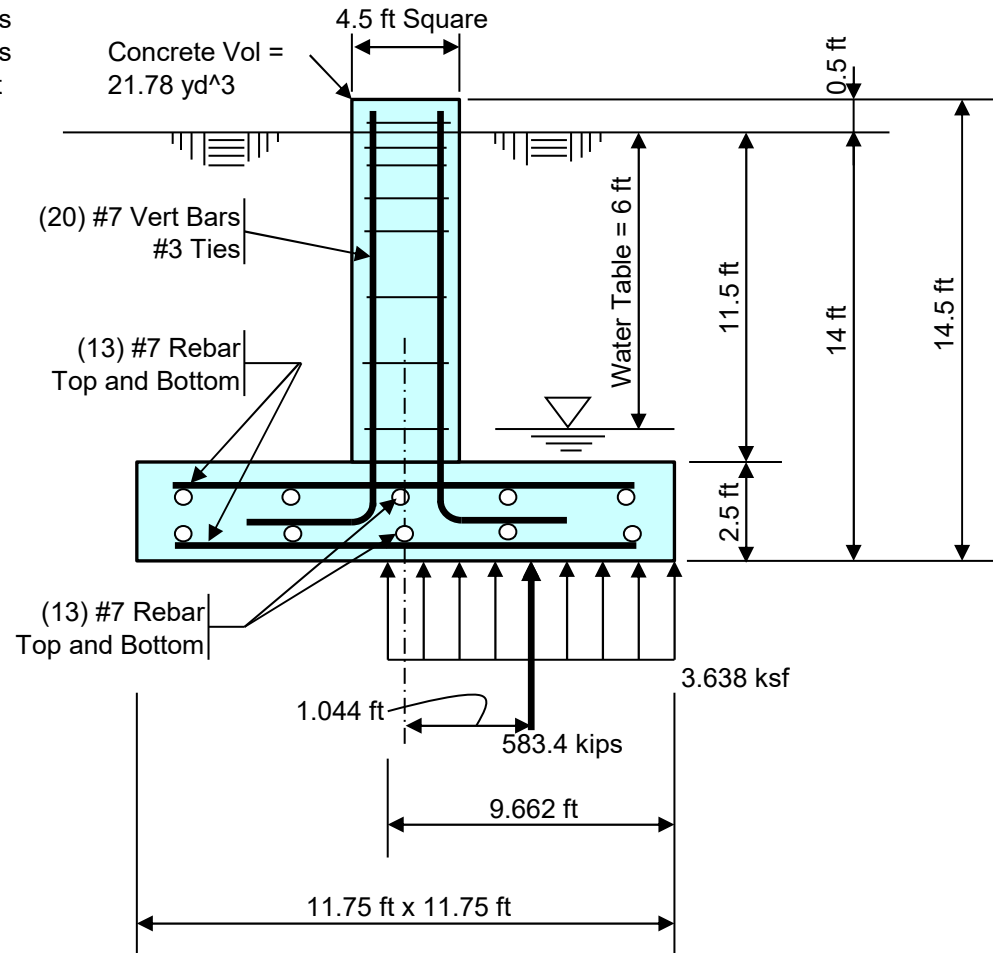
Pier Shape =	Square
Pier Width =	4.5 ft Square
Pier Height above Grade =	0.5 ft
Depth to Bottom of Footing =	14 ft
Footing Thickness =	2.5 ft
Footing Width, B =	11.75 ft
Footing Length, L =	11.75 ft

Concrete:

Concrete Strength =	4 ksi
Rebar Strength =	60 ksi

Summary Results:

	Required	Available
Maximum Net Soil Bearing =	3.638 ksf	9.000 ksf
Uplift =	304.0 kips	397.3 kips
Punching Shear Stress =	0.044 ksi	0.190 ksi
Bending Shear Stress =	-86.1 kips	343.6 kips
Bending Moment =	515.12 k-ft	884.5 k-ft
Conc Pier Reinforcing Steel =	444.0 k-ft	797.7 k-ft



Total Pad Reinf Stl =	15.60 in ² >= 7.61 in ² = Min Stl, OK
Total Pier Reinf Stl =	12.00 in ² < 14.58 in ² = Min Stl
Footing Thickness =	2.50 ft >= 1.22 ft = Min Ftg Thk, OK

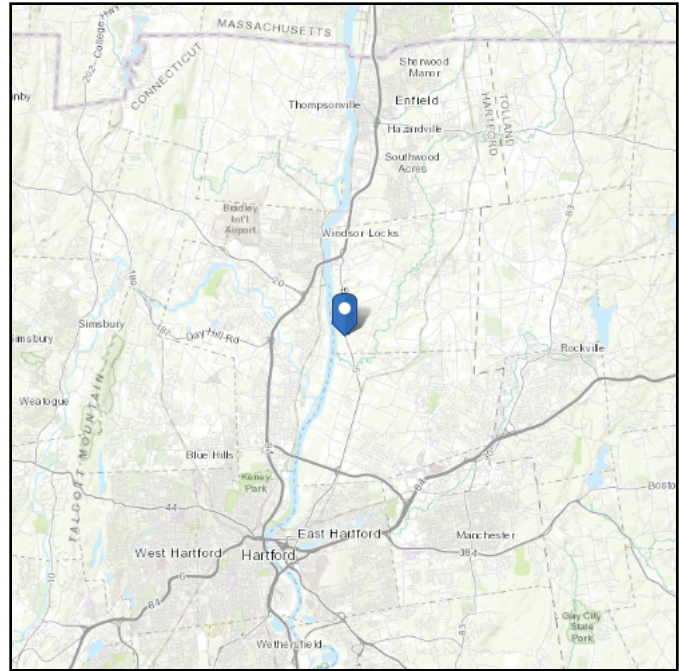
Stress Ratio =	40.4% in Soil Bearing
Stress Ratio =	76.5% in Uplift
Stress Ratio =	23.2% in Punching Shear
Stress Ratio =	25.1% in Bending Shear
Stress Ratio =	58.2% in Bending Moment
Stress Ratio =	55.7% in Pier Rebar

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 39.58 ft (NAVD 88)
Latitude: 41.877
Longitude: -72.6109



Wind

Results:

Wind Speed:	122 Vmph
10-year MRI	76 Vmph
25-year MRI	86 Vmph
50-year MRI	92 Vmph
100-year MRI	99 Vmph

125 Vmph REQUIRED BY JURISDICTION

Data Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, incorporating errata of March 12, 2014

Date Accessed: Mon Jan 25 2021

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

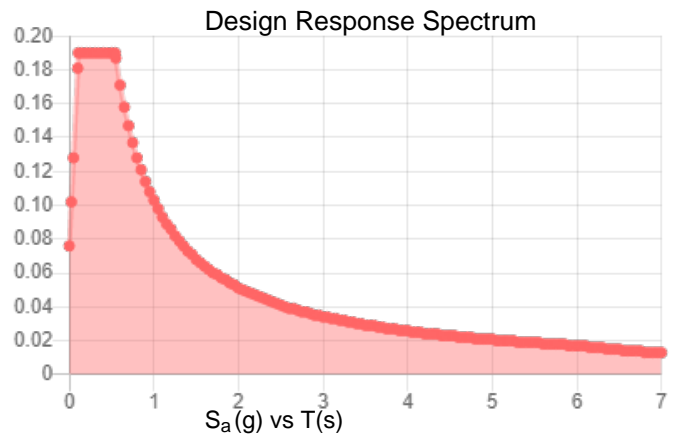
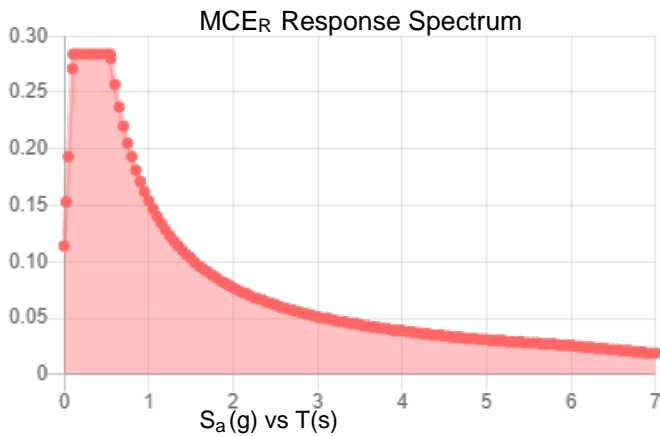
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.178	S_{DS} :	0.19
S_1 :	0.064	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.088
S_{MS} :	0.284	PGA _M :	0.141
S_{M1} :	0.154	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Mon Jan 25 2021

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 5 F

Gust Speed: 50 mph

Data Source: Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8

Date Accessed: Mon Jan 25 2021

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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STANDARD CONDITIONS FOR FURNISHING OF PROFESSIONAL ENGINEERING SERVICES ON
EXISTING STRUCTURES BY PAUL J. FORD AND COMPANY

- 1) Paul J. Ford and Company has not made a field inspection to verify the tower member sizes or the antenna/coax loading. If the existing conditions are not as represented on these drawings, we should be contacted immediately to evaluate the significance of the deviation.
- 2) No allowance was made for any damaged, missing, or rusted members. The analysis of this tower assumes that no physical deterioration has occurred in any of the structural components of the tower and that all the tower members have the same load carrying capacity as the day the tower was erected.
- 3) It is not possible to have all the detailed information to perform a thorough analysis of every structural sub-component of an existing tower. The structural analysis by Paul J. Ford and Company verifies the adequacy of the main structural members of the tower. Paul J. Ford and Company provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc.
- 4) The structural integrity of the existing tower foundation can only be verified if exact foundation sizes and soil conditions are known. Paul J. Ford and Company will not accept any responsibility for the adequacy of the existing foundations unless the foundation sizes and a soils report are provided.
- 5) This tower has been analyzed according to the minimum design wind loads recommended by the Telecommunications Industry Association Standard ANSI/TIA-222-G. If the owner or local or state agencies require a higher design wind load, Paul J. Ford and Company should be made aware of this requirement.
- 6) The enclosed sketches are a schematic representation of the tower that we have analyzed. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions and for the proper fit and clearance in the field.
- 7) Miscellaneous items such as antenna mounts etc. have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

Maser Consulting Connecticut
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
856.797.0412
gdulnik@maserconsulting.com

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10019448
Maser Consulting Connecticut Project #: 20777362A

November 19, 2020

Site Information

Site ID: 468019-VZW / East Windsor CT
Site Name: East Windsor CT
Carrier Name: Verizon Wireless
Address: 248 S Main ST
East Windsor, Connecticut 06088
Hartford County
Latitude: 41.877042°
Longitude: -72.610923°

Structure Information

Tower Type: 190-Ft Self Support
Mount Type: 10.50-Ft Sector Frame

FUZE ID # 16244662

Analysis Results

Sector Frame: 48.0% Pass

*****Contractor PMI Requirements:**

Included at the end of this MA report

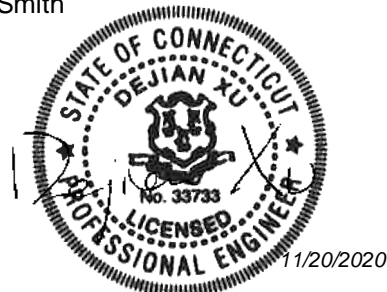
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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: Garrett Smith



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: 323814, dated October 6, 2020</i>
<i>Mount Mapping Report</i>	<i>Tower Engineering Professionals Site ID: 468019, dated November 10, 2020</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 117 mph
	Ice Wind Speed (3-sec. Gust): 50 mph
	Design Ice Thickness: 1.50 in
	Risk Category: II
	Exposure Category: C
	Topographic Category: 1
	Topographic Feature Considered: N/A
	Topographic Method: N/A
	Ground Elevation Factor, K_e : 0.999
Seismic Parameters:	S_s : 0.180
	S_1 : 0.055
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 mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
143.00	144.00	3	-	nL-Sub 6 Antenna	Added
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		9	Andrew	SBNHH-1D65B	Retained
		2	Raycap	DB-B1-6C-12AB-0Z	

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:
- Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325

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

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Mount Pipe</i>	43.6%	<i>Pass</i>
<i>Face Horizontal</i>	31.7%	<i>Pass</i>
<i>Tieback</i>	3.2%	<i>Pass</i>
<i>Standoff Plate</i>	28.4%	<i>Pass</i>
<i>Standoff Horizontal</i>	48.0%	<i>Pass</i>
<i>Standoff Vertical</i>	1.6%	<i>Pass</i>
<i>Standoff Bracing</i>	21.5%	<i>Pass</i>
<i>Connection Check</i>	38.7%	<i>Pass</i>
Structure Rating – (Controlling Utilization of all Components)		48.0%

Recommendation:

The existing mounts are **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.

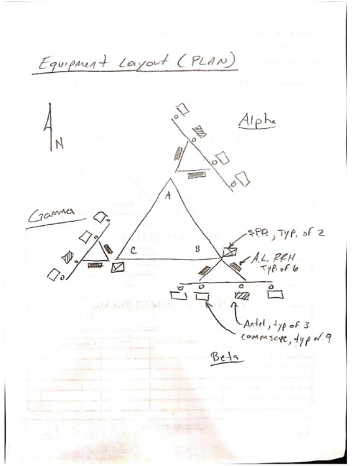
Attachments:

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

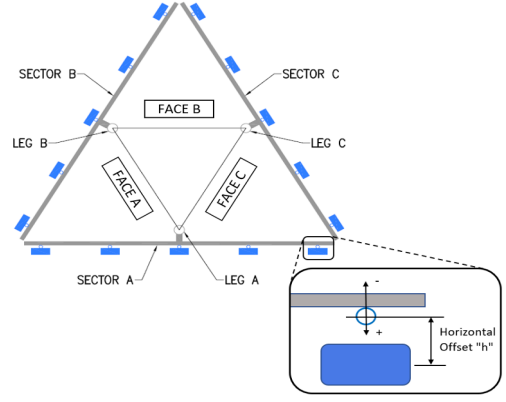


	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
	Tower Owner:	Northeast Towers	Mapping Date:	11/10/2020
Site Name:	East Windsor CT	Tower Type:	Self Support	
Site Number or ID:	468019	Tower Height (Ft.):	190	
Mapping Contractor:	TEP	Mount Elevation (Ft.):	143	

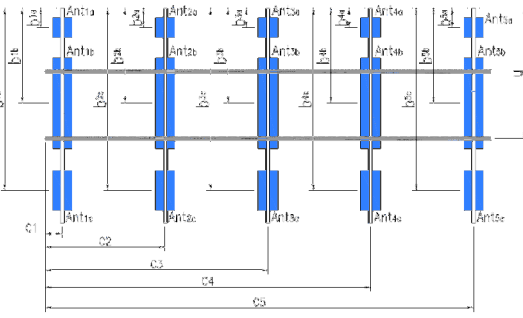
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Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4"Øx0.154"x8'-0"	70.00	3.75	C1	2.4"Øx0.154"x8'-0"	70.00	3.75
A2	2.4"Øx0.154"x8'-0"	70.00	43.25	C2	2.4"Øx0.154"x8'-0"	70.00	43.25
A3	2.4"Øx0.154"x8'-0"	70.00	82.75	C3	2.4"Øx0.154"x8'-0"	70.00	82.75
A4	2.4"Øx0.154"x8'-0"	70.00	122.25	C4	2.4"Øx0.154"x8'-0"	70.00	122.25
A5				C5			
A6				C6			
B1	2.4"Øx0.154"x8'-0"	70.00	3.75	D1			
B2	2.4"Øx0.154"x8'-0"	70.00	43.25	D2			
B3	2.4"Øx0.154"x8'-0"	70.00	82.75	D3			
B4	2.4"Øx0.154"x8'-0"	70.00	122.25	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details.:							15.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):							9
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):							
Please enter additional information or comments below.							
(15) Total 1-5/8" FH, (3) are cut at mount							
Tower Face Width at Mount Elev. (ft.):		10.667	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):		3.55		

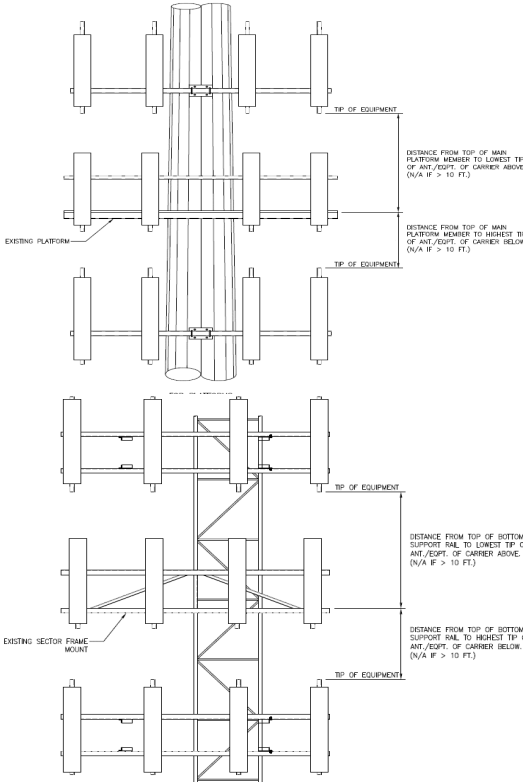


Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)		Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}										
Ant _{1b}	SBNHH-1D65B	11.90	7.10	72.90	1-5/8" F	144.5	37.00	9.00	60.00	37-38
Ant _{1c}										
Ant _{2a}										
Ant _{2b}	BXA-70063-6CF-EDIN	11.20	5.20	71.00	1-5/8" F	144	43.00	10.00	60.00	39-40
Ant _{2c}										
Ant _{3a}										
Ant _{3b}	SBNHH-1D65B	11.90	7.10	72.90	1-5/8" F	144.5	37.00	9.00	60.00	43-44
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	SBNHH-1D65B	11.90	7.10	72.90	1-5/8" F	144.5	37.00	9.00	60.00	47-49
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff	UHIE, B66a RRR 4x45	11.80	7.20	25.80		144.8		3.00		41-42
Ant on Standoff	B13 RRR4x30	12.00	9.00	21.60		144.8		3.00		45-46
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B														
Sector A:	60.00	Deg	Leg A:	0.00	Deg	Ant _{1a}														
Sector B:	180.00	Deg	Leg B:	120.00	Deg	Ant _{1b}	SBNHH-1D65B	11.90	7.10	72.90	) 1-5/8" F	144.5	37.00	9.00	180.00	57-58				
Sector C:	300.00	Deg	Leg C:	240.00	Deg	Ant _{1c}														
Sector D:		Deg	Leg D:		Deg	Ant _{2a}														
Climbing Facility Information						Ant _{2b}	BXA-70063-6CF-EDIN	11.20	5.20	71.00	) 1-5/8" F	144	43.00	10.00	180.00	61-62				
Location:	240.00	Deg	On Leg C			Ant _{2c}														
Climbing Facility	Corrosion Type:		Good condition.			Ant _{3a}														
	Access:		Climbing path was unobstructed.			Ant _{3b}	SBNHH-1D65B	11.90	7.10	72.90	) 1-5/8" F	144.5	37.00	9.00	180.00	63-64				
	Condition:		Good condition.			Ant _{3c}														
						Ant _{4a}														
						Ant _{4b}	SBNHH-1D65B	11.90	7.10	72.90	) 1-5/8" F	144.5	37.00	9.00	180.00	67-68				
						Ant _{4c}														
						Ant _{5a}														
						Ant _{5b}														
						Ant _{5c}														
						Ant on Standoff	UHIE, B66a RRH 4x45	11.80	7.20	25.80		144.8		3.00		59-60				
						Ant on Standoff	B13 RRH4x30	12.00	9.00	21.60		144.8		3.00		65-66				
						Ant on Tower	RHSDC-3315-PF-48 (N	15.73	10.30	28.93	1/4" Ø HY	148		4.00		55-56				
						Ant on Tower														
						Sector C														
						Ant _{1a}														
						Ant _{1b}	SBNHH-1D65B	11.90	7.10	72.90	) 1-5/8" F	144.5	37.00	9.00	300.00	17-18				
						Ant _{1c}														
						Ant _{2a}														
						Ant _{2b}	BXA-70063-6CF-EDIN	11.20	5.20	71.00	) 1-5/8" F	144	43.00	10.00	300.00	19-20				
						Ant _{2c}														
						Ant _{3a}														
						Ant _{3b}	SBNHH-1D65B	11.90	7.10	72.90	) 1-5/8" F	144.5	37.00	9.00	300.00	24-25				
						Ant _{3c}														
						Ant _{4a}	SBNHH-1D65B	11.90	7.10	72.90	) 1-5/8" F	144.5	37.00	9.00	300.00	28-29				
						Ant _{4c}														
						Ant _{5a}														
						Ant _{5b}														
						Ant _{5c}														
						Ant on Standoff	UHIE, B66a RRH 4x45	11.80	7.20	25.80		144.8		3.00		21-23				
						Ant on Standoff	B13 RRH4x30	12.00	9.00	21.60		144.8		3.00		26-27				
						Ant on Tower	RHSDC-3315-PF-48 (N	15.73	10.30	28.93	1/4" Ø HY	148		4.00		11-12				
						Ant on Tower														
						Sector D														
						Ant _{1a}														
						Ant _{1b}														
						Ant _{1c}														
						Ant _{2a}														
						Ant _{2b}														
						Ant _{2c}														
						Ant _{3a}														
						Ant _{3b}														
						Ant _{3c}														
						Ant _{4a}														
						Ant _{4b}														
						Ant _{4c}														
						Ant _{5a}														
						Ant _{5b}														
						Ant _{5c}														
						Ant on Standoff														
						Ant on Standoff														
						Ant on Tower														
						Ant on Tower														



Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	Northeast Towers	Mapping Date:	11/10/2020
Site Name:	East Windsor CT	Tower Type:	Self Support
Site Number or ID:	468019	Tower Height (Ft.):	190
Mapping Contractor:	TEP	Mount Elevation (Ft.):	143

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Please Insert Sketches of the Antenna Mount

MOUNT MAPPING *(field report)* Date 11-10-2020
 Site Name EAST WINDSOR CT TEP# _____ Page 1 of _____

CARRIER Verizon

NOTES

FCC#: <u>N/A</u>	Gate Combo: <u>1999</u>
Tower Height: <u>~190'</u>	Azimuth of 'A' Leg: <u>0°</u>
Tower Type: <u>SST</u>	Location of Climbing Facility: <u>C-1 eq</u>
Tower FAW or WAF (at mount): <u>10'-8"</u>	Climbing Obstructed?: <u>NO</u>
Leg Size (at mount): <u>3.55 p</u>	

COAX INFO
(15) 1/8" FA* (2) 1/4" φ Hybrid* (3) cut @ MNT

ANTENNA INFO

	A Sector	B Sector	C Sector
Mount Elev.	143' <u>143'</u>	→	→
Antenna Elev.	142' <u>142'</u>	→	→
P _{1,3,4} P ₂ Comscape Antel	→	→	→
Antenna Make/Models			
RRUTMA/ RET/etc	<u>(2) A.L. RPH 4x30</u>	→	→
	-	<u>(1) SPD [+5' ↑ MNT CL]</u>	<u>(1) SPD</u>
*Azimuths (m/ant):	<u>60°/60°</u>	<u>180°/180°</u>	<u>300°/300°</u>

* All azimuths are approximate using a compass cell phone app

www.tepgroup.net

MOUNT MAPPING (field report)

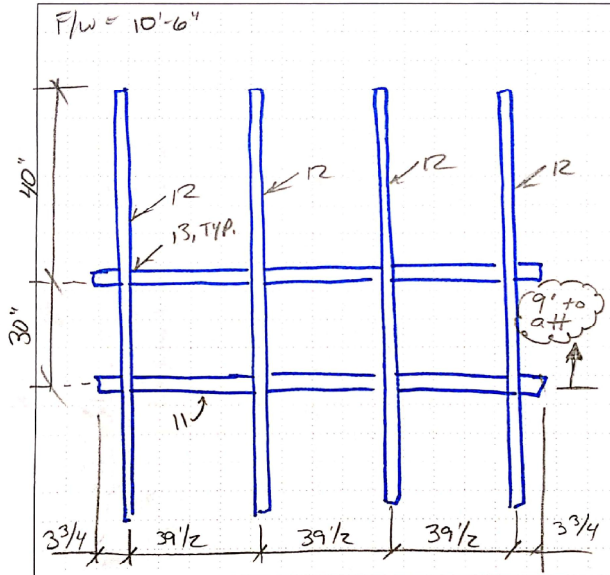
Date _____

Site Name _____

TEP# _____

Page _____ of _____

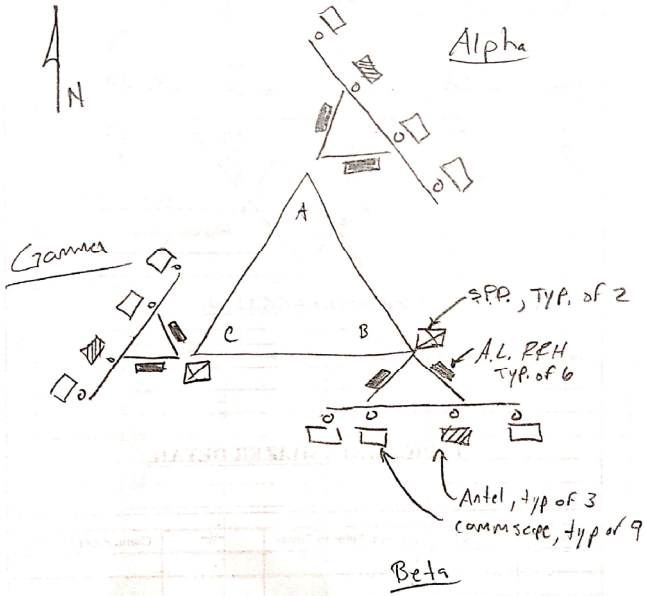
VIEW Front

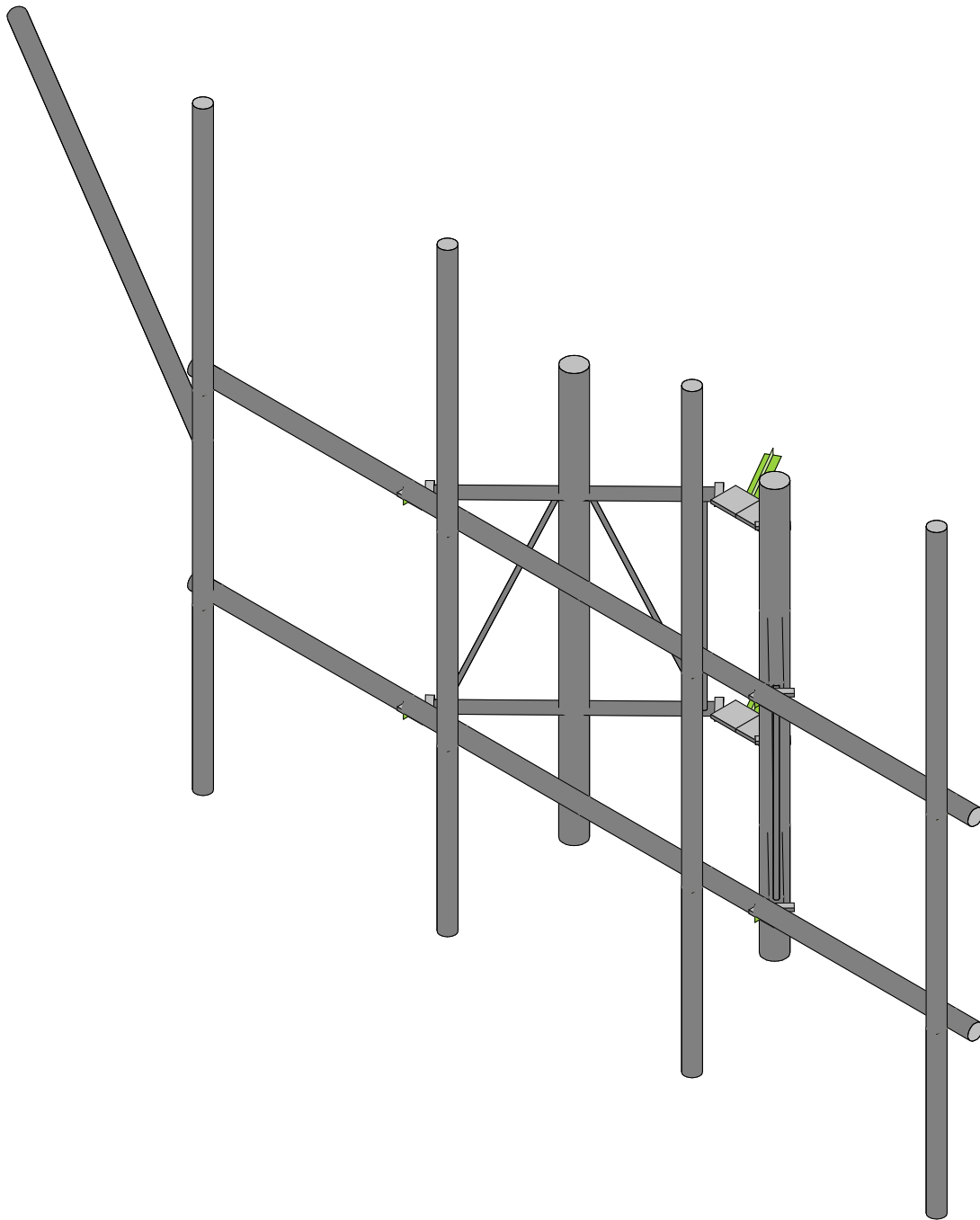
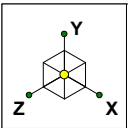


8	SR. $5/8'' \phi$, welded
9	Pipe $3.5'' \phi \times 0.21'' \times 5'-0''$ L, welded
10	(1) $1/2'' \phi$ U-BOLT
11	Pipe $2.4'' \phi \times 0.17'' \times 10'-6''$ L. w/ (2) $1/2'' \phi$ U.B.
12	Pipe $2.4'' \phi \times 0.17'' \times 8'-0''$ L w/ (4) $1/2'' \phi$ UB.
13	PL $7/8'' \times 6 \times 6$ w/ (2) $1/2'' \phi$ U-BOLTS each way
14	Pipe $2.4'' \phi \times 0.16'' \times 8'-0''$ L. w/ $1/2''$ th. PL's @ Bolt

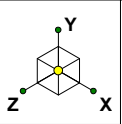
www.tepgroup.net

Equipment Layout (PLAN)



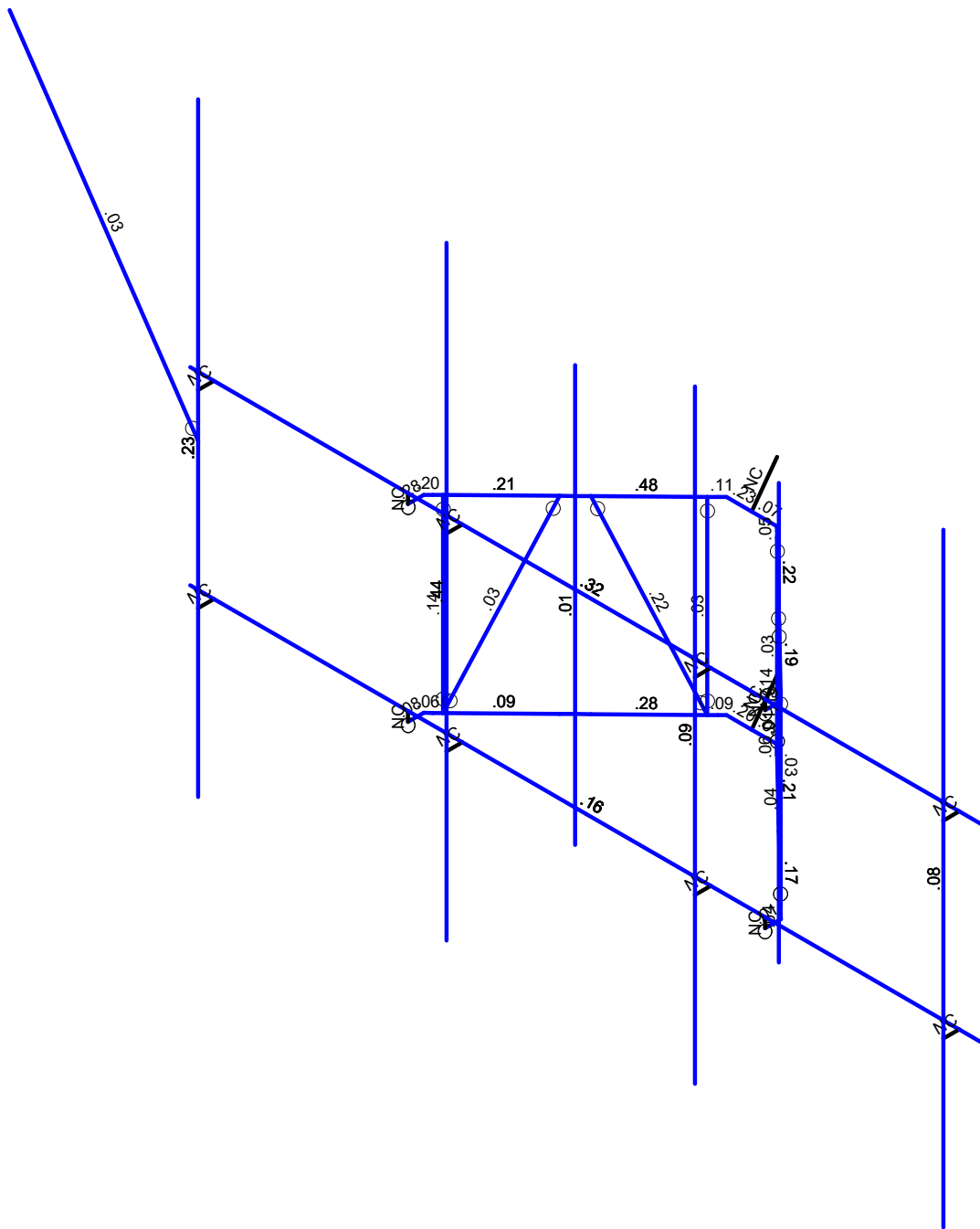


Maser Consulting	468019-VZW_MT_LOT_SectorA_H	SK - 1
CDH		Nov 19, 2020 at 10:48 AM
Project No. 10019448		468019-VZW_MT_LOT_A_H.r3d



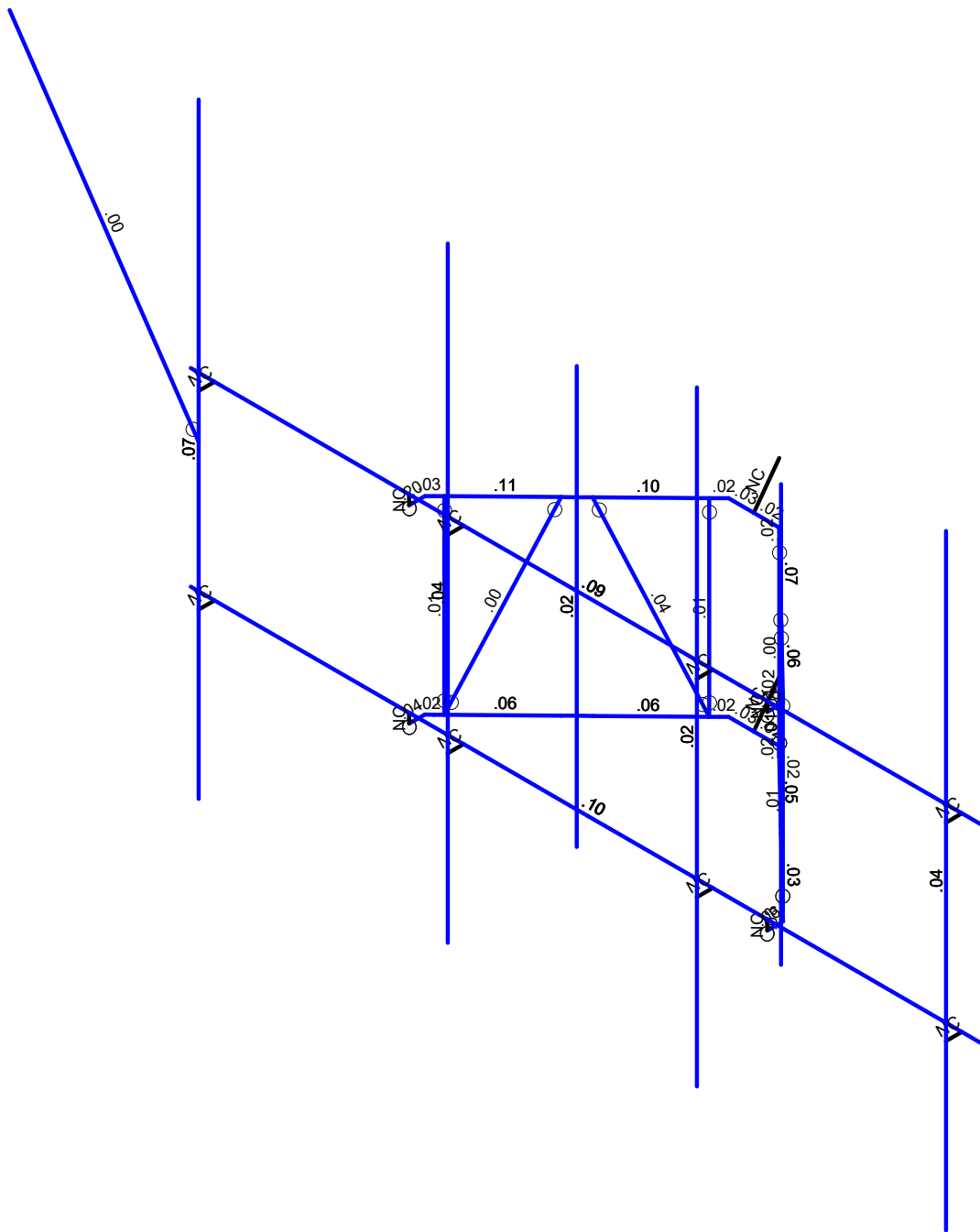
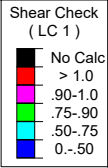
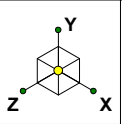
Code Check (LC 1)

Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting	468019-VZW_MT_LOT_SectorA_H	SK - 2
CDH		Nov 19, 2020 at 10:49 AM
Project No. 10019448		468019-VZW_MT_LOT_A_H.r3d



Member Shear Checks Displayed
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting	468019-VZW_MT_LOT_SectorA_H	SK - 3
CDH		Nov 19, 2020 at 10:49 AM
Project No. 10019448		468019-VZW_MT_LOT_A_H.r3d



Load Combinations (Continued)

	Description	S...	PDelta	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...				
29	1.2D + 1.5Lm1 + 1.0Wm (120 ...)	Yes	Y			1	1.2	39	1.2	77	1.5	31	1	69	1																										
30	1.2D + 1.5Lm1 + 1.0Wm (150 ...)	Yes	Y			1	1.2	39	1.2	77	1.5	32	1	70	1																										
31	1.2D + 1.5Lm1 + 1.0Wm (180 ...)	Yes	Y			1	1.2	39	1.2	77	1.5	33	1	71	1																										
32	1.2D + 1.5Lm1 + 1.0Wm (210 ...)	Yes	Y			1	1.2	39	1.2	77	1.5	34	1	72	1																										
33	1.2D + 1.5Lm1 + 1.0Wm (240 ...)	Yes	Y			1	1.2	39	1.2	77	1.5	35	1	73	1																										
34	1.2D + 1.5Lm1 + 1.0Wm (270 ...)	Yes	Y			1	1.2	39	1.2	77	1.5	36	1	74	1																										
35	1.2D + 1.5Lm1 + 1.0Wm (300 ...)	Yes	Y			1	1.2	39	1.2	77	1.5	37	1	75	1																										
36	1.2D + 1.5Lm1 + 1.0Wm (330 ...)	Yes	Y			1	1.2	39	1.2	77	1.5	38	1	76	1																										
37	1.2D + 1.5Lm2 + 1.0Wm (0 De...)	Yes	Y			1	1.2	39	1.2	78	1.5	27	1	65	1																										
38	1.2D + 1.5Lm2 + 1.0Wm (30 D...)	Yes	Y			1	1.2	39	1.2	78	1.5	28	1	66	1																										
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 Diap...
1	N1	0	-0.041667	0	0	
2	N2	5.25	-0.041667	0	0	
3	N3	-5.25	-0.041667	0	0	
4	N4	0	2.458333	0	0	
5	N5	5.25	2.458333	0	0	
6	N6	-5.25	2.458333	0	0	
7	N7	4.9375	-0.041667	0	0	
8	N8	4.9375	2.458333	0	0	
9	N9	1.645833	-0.041667	0	0	
10	N10	1.645833	2.458333	0	0	
11	N11	-1.645833	-0.041667	0	0	
12	N12	-1.645833	2.458333	0	0	
13	N13	-4.9375	-0.041667	0	0	
14	N14	-4.9375	2.458333	0	0	
15	N15	4.9375	-0.041667	0.208333	0	
16	N16	4.9375	2.458333	0.208333	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N17	1.645833	-0.041667	0.208333	0	
18	N18	1.645833	2.458333	0.208333	0	
19	N19	-1.645833	-0.041667	0.208333	0	
20	N20	-1.645833	2.458333	0.208333	0	
21	N21	-4.9375	-0.041667	0.208333	0	
22	N22	-4.9375	2.458333	0.208333	0	
23	N23	4.9375	5.791667	0.208333	0	
24	N24	1.645833	5.791667	0.208333	0	
25	N25	-1.645833	5.791667	0.208333	0	
26	N26	-4.9375	5.791667	0.208333	0	
27	N27	4.9375	-2.208333	0.208333	0	
28	N28	1.645833	-2.208333	0.208333	0	
29	N29	-1.645833	-2.208333	0.208333	0	
30	N30	-4.9375	-2.208333	0.208333	0	
31	N32	-0.458333	2.333333	-2.98219	0	
32	N34	2.364583	2.458333	0	0	
33	N36	-2.364583	2.458333	0	0	
34	N38	2.364583	2.333333	0	0	
35	N40	-2.364583	2.333333	0	0	
36	N37	2.364583	2.333333	-0.208333	0	
37	N38A	-2.364583	2.333333	-0.208333	0	
38	N40B	0	2.333333	-2.188333	0	
39	N41	0.333333	2.333333	-2.188333	0	
40	N42	-0.333333	2.333333	-2.188333	0	
41	N41A	-0.393007	2.333333	-2.130165	0	
42	N42A	0.393007	2.333333	-2.130165	0	
43	N43	-2.304888	2.333333	-0.266522	0	
44	N44	2.304888	2.333333	-0.266522	0	
45	N45	-1.348948	2.333333	-1.198344	0	
46	N46	1.348948	2.333333	-1.198344	0	
47	N47	-2.234727	2.333333	-0.334913	0	
48	N48	2.234727	2.333333	-0.334913	0	
49	N49	-0.462004	2.333333	-2.062909	0	
50	N50	0.462004	2.333333	-2.062909	0	
51	N51	-1.243355	2.333333	-1.301272	0	
52	N52	1.243355	2.333333	-1.301272	0	
53	N53	-1.453376	2.333333	-1.09655	0	
54	N54	1.453376	2.333333	-1.09655	0	
55	N66	-0.458333	-0.166667	-2.98219	0	
56	N67	2.364583	-0.041667	0	0	
57	N68	-2.364583	-0.041667	0	0	
58	N69	2.364583	-0.166667	0	0	
59	N70	-2.364583	-0.166667	0	0	
60	N71	2.364583	-0.166667	-0.208333	0	
61	N72	-2.364583	-0.166667	-0.208333	0	
62	N73	0	-0.166667	-2.188333	0	
63	N74	0.333333	-0.166667	-2.188333	0	
64	N75	-0.333333	-0.166667	-2.188333	0	
65	N76	-0.393007	-0.166667	-2.130165	0	
66	N77	0.393007	-0.166667	-2.130165	0	
67	N78	-2.304888	-0.166667	-0.266522	0	
68	N79	2.304888	-0.166667	-0.266522	0	
69	N80	-1.348948	-0.166667	-1.198344	0	
70	N81	1.348948	-0.166667	-1.198344	0	
71	N82	-2.234727	-0.166667	-0.334913	0	
72	N83	2.234727	-0.166667	-0.334913	0	
73	N84	-0.462004	-0.166667	-2.062909	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N85	0.462004	-0.166667	-2.062909	0	
75	N86	-1.243355	-0.166667	-1.301272	0	
76	N87	1.243355	-0.166667	-1.301272	0	
77	N88	-1.453376	-0.166667	-1.09655	0	
78	N89	1.453376	-0.166667	-1.09655	0	
79	N79A	-1.348948	3.833333	-1.198344	0	
80	N80A	1.348948	3.833333	-1.198344	0	
81	N81A	-1.348948	-1.666667	-1.198344	0	
82	N82A	1.348948	-1.666667	-1.198344	0	
83	N85A	-4.9375	1.875	0.208333	0	
84	N87B	-11.125333	1.875	-3.48219	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
3	Tieback	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Plate	PL1/2X4	Beam	Pipe	A36 Gr.36	Typical	2	.042	2.667	.154
5	TES Plate	PL1/2X4	Beam	Pipe	A36 Gr.36	Typical	2	.042	2.667	.154
6	Mast Pipe	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
7	Standoff Horizontal	PIPE 1.25	Beam	Pipe	A53 Gr. B	Typical	.625	.184	.184	.368
8	Standoff Vertical	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
9	Standoff Bracing	SR_0.625	Beam	BAR	A36 Gr.36	Typical	.307	.007	.007	.015

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N2			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
2	M2	N6	N5			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
3	M3	N16	N8			RIGID	None	None	RIGID	Typical
4	M4	N15	N7			RIGID	None	None	RIGID	Typical
5	M5	N18	N10			RIGID	None	None	RIGID	Typical
6	M6	N17	N9			RIGID	None	None	RIGID	Typical
7	M7	N20	N12			RIGID	None	None	RIGID	Typical
8	M8	N19	N11			RIGID	None	None	RIGID	Typical
9	M9	N22	N14			RIGID	None	None	RIGID	Typical
10	M10	N21	N13			RIGID	None	None	RIGID	Typical
11	MP4A	N26	N30			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
12	MP3A	N25	N29			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
13	MP2A	N24	N28			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
14	MP1A	N23	N27			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
15	M15	N36	N40			RIGID	None	None	RIGID	Typical
16	M16	N34	N38			RIGID	None	None	RIGID	Typical
17	M17	N40	N38A		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
18	M18	N38	N37		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
19	M21A	N40B	N42		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
20	M22A	N40B	N41		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
21	M21	N40B	N32			RIGID	None	None	RIGID	Typical
22	M22	N42	N41A		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
23	M23	N41	N42A		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
24	M24	N43	N38A		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
25	M25	N44	N37		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
26	M26	N41A	N45			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
27	M27	N42A	N46			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
28	M28	N45	N43			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
29	M29	N46	N44			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
30	M35	N68	N70			RIGID	None	None	RIGID	Typical
31	M36	N67	N69			RIGID	None	None	RIGID	Typical
32	M37	N70	N72		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
33	M38	N69	N71		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
34	M39	N73	N75		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
35	M40	N73	N74		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
36	M41	N73	N66			RIGID	None	None	RIGID	Typical
37	M42	N75	N76		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
38	M43	N74	N77		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
39	M44	N78	N72		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
40	M45	N79	N71		90	Standoff Plate	Beam	Pipe	A36 Gr.36	Typical
41	M46	N76	N80			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
42	M47	N77	N81			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
43	M48	N80	N78			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
44	M49	N81	N79			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
45	M45A	N47	N82			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
46	M46A	N82	N53			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
47	M47A	N51	N84			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
48	M48A	N84	N49			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
49	M49A	N50	N85			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
50	M50	N85	N52			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
51	M51	N54	N83			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
52	M52	N83	N48			Standoff Braci...	Beam	BAR	A36 Gr.36	Typical
53	M53	N79A	N81A			Standoff Vertical	Beam	Pipe	A53 Gr. B	Typical
54	M54	N80A	N82A			Standoff Vertical	Beam	Pipe	A53 Gr. B	Typical
55	M55	N87B	N85A			Tieback	Beam	Pipe	A53 Gr. B	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			None
2	M2						Yes			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
10	M10						Yes	** NA **		None
11	MP4A						Yes			None
12	MP3A						Yes	Default		None
13	MP2A						Yes			None
14	MP1A						Yes			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..
15	M15	OOOXOX					Yes	** NA **			None
16	M16	OOOXOX					Yes	** NA **			None
17	M17						Yes	Default			None
18	M18						Yes				None
19	M21A						Yes				None
20	M22A						Yes				None
21	M21						Yes	** NA **			None
22	M22						Yes				None
23	M23						Yes				None
24	M24						Yes				None
25	M25						Yes				None
26	M26						Yes				None
27	M27						Yes				None
28	M28						Yes				None
29	M29						Yes				None
30	M35	OOOXOX					Yes	** NA **			None
31	M36	OOOXOX					Yes	** NA **			None
32	M37						Yes	Default			None
33	M38						Yes	Default			None
34	M39						Yes				None
35	M40						Yes				None
36	M41						Yes	** NA **			None
37	M42						Yes				None
38	M43						Yes				None
39	M44						Yes				None
40	M45						Yes				None
41	M46						Yes				None
42	M47						Yes				None
43	M48						Yes				None
44	M49						Yes				None
45	M45A	BenPIN	BenPIN				Yes				None
46	M46A	BenPIN	BenPIN				Yes				None
47	M47A	BenPIN	BenPIN				Yes				None
48	M48A	BenPIN	BenPIN				Yes				None
49	M49A	BenPIN	BenPIN				Yes				None
50	M50	BenPIN	BenPIN				Yes				None
51	M51	BenPIN	BenPIN				Yes				None
52	M52	BenPIN	BenPIN				Yes				None
53	M53						Yes				None
54	M54						Yes				None
55	M55		BenPIN				Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Y	-43.55	2.5
2	MP1A	My	-.022	2.5
3	MP1A	Mz	0	2.5
4	MP1A	Y	-43.55	4.5
5	MP1A	My	-.022	4.5
6	MP1A	Mz	0	4.5
7	M53	Y	-84.4	1
8	M53	My	0	1
9	M53	Mz	0	1
10	M54	Y	-70.3	1
11	M54	My	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	M54	Mz	0	1
13	M26	Y	-32	.67
14	M26	My	0	.67
15	M26	Mz	0	.67
16	MP3A	Y	-20	1
17	MP3A	My	-.01	1
18	MP3A	Mz	-.01	1
19	MP3A	Y	-20	6
20	MP3A	My	-.01	6
21	MP3A	Mz	-.01	6
22	MP3A	Y	-20	1
23	MP3A	My	-.01	1
24	MP3A	Mz	.01	1
25	MP3A	Y	-20	6
26	MP3A	My	-.01	6
27	MP3A	Mz	.01	6
28	MP4A	Y	-20	1
29	MP4A	My	-.01	1
30	MP4A	Mz	0	1
31	MP4A	Y	-20	6
32	MP4A	My	-.01	6
33	MP4A	Mz	0	6

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Y	-52.658	2.5
2	MP1A	My	-.026	2.5
3	MP1A	Mz	0	2.5
4	MP1A	Y	-52.658	4.5
5	MP1A	My	-.026	4.5
6	MP1A	Mz	0	4.5
7	M53	Y	-72.16	1
8	M53	My	0	1
9	M53	Mz	0	1
10	M54	Y	-65.154	1
11	M54	My	0	1
12	M54	Mz	0	1
13	M26	Y	-120.465	.67
14	M26	My	0	.67
15	M26	Mz	0	.67
16	MP3A	Y	-96.9	1
17	MP3A	My	-.048	1
18	MP3A	Mz	-.048	1
19	MP3A	Y	-96.9	6
20	MP3A	My	-.048	6
21	MP3A	Mz	-.048	6
22	MP3A	Y	-96.9	1
23	MP3A	My	-.048	1
24	MP3A	Mz	.048	1
25	MP3A	Y	-96.9	6
26	MP3A	My	-.048	6
27	MP3A	Mz	.048	6
28	MP4A	Y	-96.9	1
29	MP4A	My	-.048	1
30	MP4A	Mz	0	1
31	MP4A	Y	-96.9	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP4A	My	-.048	6
33	MP4A	Mz	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	2.5
2	MP1A	Z	-87.934	2.5
3	MP1A	Mx	0	2.5
4	MP1A	X	0	4.5
5	MP1A	Z	-87.934	4.5
6	MP1A	Mx	0	4.5
7	M53	X	0	1
8	M53	Z	-66.005	1
9	M53	Mx	0	1
10	M54	X	0	1
11	M54	Z	-61.992	1
12	M54	Mx	0	1
13	M26	X	0	.67
14	M26	Z	-133.357	.67
15	M26	Mx	0	.67
16	MP3A	X	0	1
17	MP3A	Z	-166.871	1
18	MP3A	Mx	.083	1
19	MP3A	X	0	6
20	MP3A	Z	-166.871	6
21	MP3A	Mx	.083	6
22	MP3A	X	0	1
23	MP3A	Z	-166.871	1
24	MP3A	Mx	-.083	1
25	MP3A	X	0	6
26	MP3A	Z	-166.871	6
27	MP3A	Mx	-.083	6
28	MP4A	X	0	1
29	MP4A	Z	-166.871	1
30	MP4A	Mx	0	1
31	MP4A	X	0	6
32	MP4A	Z	-166.871	6
33	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	37.201	2.5
2	MP1A	Z	-64.434	2.5
3	MP1A	Mx	-.019	2.5
4	MP1A	X	37.201	4.5
5	MP1A	Z	-64.434	4.5
6	MP1A	Mx	-.019	4.5
7	M53	X	27.045	1
8	M53	Z	-46.844	1
9	M53	Mx	0	1
10	M54	X	22.757	1
11	M54	Z	-39.416	1
12	M54	Mx	0	1
13	M26	X	54.367	.67
14	M26	Z	-94.167	.67
15	M26	Mx	0	.67



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP3A	X	76.371	1
17	MP3A	Z	-132.278	1
18	MP3A	Mx	.028	1
19	MP3A	X	76.371	6
20	MP3A	Z	-132.278	6
21	MP3A	Mx	.028	6
22	MP3A	X	76.371	1
23	MP3A	Z	-132.278	1
24	MP3A	Mx	-.104	1
25	MP3A	X	76.371	6
26	MP3A	Z	-132.278	6
27	MP3A	Mx	-.104	6
28	MP4A	X	76.371	1
29	MP4A	Z	-132.278	1
30	MP4A	Mx	-.038	1
31	MP4A	X	76.371	6
32	MP4A	Z	-132.278	6
33	MP4A	Mx	-.038	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	40.995	2.5
2	MP1A	Z	-23.669	2.5
3	MP1A	Mx	-.02	2.5
4	MP1A	X	40.995	4.5
5	MP1A	Z	-23.669	4.5
6	MP1A	Mx	-.02	4.5
7	M53	X	44.937	1
8	M53	Z	-25.945	1
9	M53	Mx	0	1
10	M54	X	36.779	1
11	M54	Z	-21.234	1
12	M54	Mx	0	1
13	M26	X	90.226	.67
14	M26	Z	-52.092	.67
15	M26	Mx	0	.67
16	MP3A	X	107.805	1
17	MP3A	Z	-62.241	1
18	MP3A	Mx	-.023	1
19	MP3A	X	107.805	6
20	MP3A	Z	-62.241	6
21	MP3A	Mx	-.023	6
22	MP3A	X	107.805	1
23	MP3A	Z	-62.241	1
24	MP3A	Mx	-.085	1
25	MP3A	X	107.805	6
26	MP3A	Z	-62.241	6
27	MP3A	Mx	-.085	6
28	MP4A	X	107.805	1
29	MP4A	Z	-62.241	1
30	MP4A	Mx	-.054	1
31	MP4A	X	107.805	6
32	MP4A	Z	-62.241	6
33	MP4A	Mx	-.054	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	33.805	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	-0.17	2.5
4	MP1A	X	33.805	4.5
5	MP1A	Z	0	4.5
6	MP1A	Mx	-0.17	4.5
7	M53	X	61.602	1
8	M53	Z	0	1
9	M53	Mx	0	1
10	M54	X	55.902	1
11	M54	Z	0	1
12	M54	Mx	0	1
13	M26	X	124.257	.67
14	M26	Z	0	.67
15	M26	Mx	0	.67
16	MP3A	X	110.353	1
17	MP3A	Z	0	1
18	MP3A	Mx	-0.55	1
19	MP3A	X	110.353	6
20	MP3A	Z	0	6
21	MP3A	Mx	-0.55	6
22	MP3A	X	110.353	1
23	MP3A	Z	0	1
24	MP3A	Mx	-0.55	1
25	MP3A	X	110.353	6
26	MP3A	Z	0	6
27	MP3A	Mx	-0.55	6
28	MP4A	X	110.353	1
29	MP4A	Z	0	1
30	MP4A	Mx	-0.55	1
31	MP4A	X	110.353	6
32	MP4A	Z	0	6
33	MP4A	Mx	-0.55	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	40.995	2.5
2	MP1A	Z	23.669	2.5
3	MP1A	Mx	-0.2	2.5
4	MP1A	X	40.995	4.5
5	MP1A	Z	23.669	4.5
6	MP1A	Mx	-0.2	4.5
7	M53	X	63.667	1
8	M53	Z	36.758	1
9	M53	Mx	0	1
10	M54	X	62.683	1
11	M54	Z	36.19	1
12	M54	Mx	0	1
13	M26	X	128.933	.67
14	M26	Z	74.44	.67
15	M26	Mx	0	.67
16	MP3A	X	107.805	1
17	MP3A	Z	62.241	1
18	MP3A	Mx	-0.85	1
19	MP3A	X	107.805	6
20	MP3A	Z	62.241	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3A	Mx	-.085	6
22	MP3A	X	107.805	1
23	MP3A	Z	62.241	1
24	MP3A	Mx	-.023	1
25	MP3A	X	107.805	6
26	MP3A	Z	62.241	6
27	MP3A	Mx	-.023	6
28	MP4A	X	107.805	1
29	MP4A	Z	62.241	1
30	MP4A	Mx	-.054	1
31	MP4A	X	107.805	6
32	MP4A	Z	62.241	6
33	MP4A	Mx	-.054	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	37.201	2.5
2	MP1A	Z	64.434	2.5
3	MP1A	Mx	-.019	2.5
4	MP1A	X	37.201	4.5
5	MP1A	Z	64.434	4.5
6	MP1A	Mx	-.019	4.5
7	M53	X	37.859	1
8	M53	Z	65.573	1
9	M53	Mx	0	1
10	M54	X	37.712	1
11	M54	Z	65.32	1
12	M54	Mx	0	1
13	M26	X	76.715	.67
14	M26	Z	132.874	.67
15	M26	Mx	0	.67
16	MP3A	X	76.371	1
17	MP3A	Z	132.278	1
18	MP3A	Mx	-.104	1
19	MP3A	X	76.371	6
20	MP3A	Z	132.278	6
21	MP3A	Mx	-.104	6
22	MP3A	X	76.371	1
23	MP3A	Z	132.278	1
24	MP3A	Mx	.028	1
25	MP3A	X	76.371	6
26	MP3A	Z	132.278	6
27	MP3A	Mx	.028	6
28	MP4A	X	76.371	1
29	MP4A	Z	132.278	1
30	MP4A	Mx	-.038	1
31	MP4A	X	76.371	6
32	MP4A	Z	132.278	6
33	MP4A	Mx	-.038	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	2.5
2	MP1A	Z	87.934	2.5
3	MP1A	Mx	0	2.5
4	MP1A	X	0	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP1A	Z	87.934	4.5
6	MP1A	Mx	0	4.5
7	M53	X	0	1
8	M53	Z	66.005	1
9	M53	Mx	0	1
10	M54	X	0	1
11	M54	Z	61.992	1
12	M54	Mx	0	1
13	M26	X	0	.67
14	M26	Z	133.357	.67
15	M26	Mx	0	.67
16	MP3A	X	0	1
17	MP3A	Z	166.871	1
18	MP3A	Mx	-.083	1
19	MP3A	X	0	6
20	MP3A	Z	166.871	6
21	MP3A	Mx	-.083	6
22	MP3A	X	0	1
23	MP3A	Z	166.871	1
24	MP3A	Mx	.083	1
25	MP3A	X	0	6
26	MP3A	Z	166.871	6
27	MP3A	Mx	.083	6
28	MP4A	X	0	1
29	MP4A	Z	166.871	1
30	MP4A	Mx	0	1
31	MP4A	X	0	6
32	MP4A	Z	166.871	6
33	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-37.201	2.5
2	MP1A	Z	64.434	2.5
3	MP1A	Mx	.019	2.5
4	MP1A	X	-37.201	4.5
5	MP1A	Z	64.434	4.5
6	MP1A	Mx	.019	4.5
7	M53	X	-27.045	1
8	M53	Z	46.844	1
9	M53	Mx	0	1
10	M54	X	-22.757	1
11	M54	Z	39.416	1
12	M54	Mx	0	1
13	M26	X	-54.367	.67
14	M26	Z	94.167	.67
15	M26	Mx	0	.67
16	MP3A	X	-76.371	1
17	MP3A	Z	132.278	1
18	MP3A	Mx	-.028	1
19	MP3A	X	-76.371	6
20	MP3A	Z	132.278	6
21	MP3A	Mx	-.028	6
22	MP3A	X	-76.371	1
23	MP3A	Z	132.278	1
24	MP3A	Mx	.104	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP3A	X	-76.371	6
26	MP3A	Z	132.278	6
27	MP3A	Mx	.104	6
28	MP4A	X	-76.371	1
29	MP4A	Z	132.278	1
30	MP4A	Mx	.038	1
31	MP4A	X	-76.371	6
32	MP4A	Z	132.278	6
33	MP4A	Mx	.038	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-40.995	2.5
2	MP1A	Z	23.669	2.5
3	MP1A	Mx	.02	2.5
4	MP1A	X	-40.995	4.5
5	MP1A	Z	23.669	4.5
6	MP1A	Mx	.02	4.5
7	M53	X	-44.937	1
8	M53	Z	25.945	1
9	M53	Mx	0	1
10	M54	X	-36.779	1
11	M54	Z	21.234	1
12	M54	Mx	0	1
13	M26	X	-90.226	.67
14	M26	Z	52.092	.67
15	M26	Mx	0	.67
16	MP3A	X	-107.805	1
17	MP3A	Z	62.241	1
18	MP3A	Mx	.023	1
19	MP3A	X	-107.805	6
20	MP3A	Z	62.241	6
21	MP3A	Mx	.023	6
22	MP3A	X	-107.805	1
23	MP3A	Z	62.241	1
24	MP3A	Mx	.085	1
25	MP3A	X	-107.805	6
26	MP3A	Z	62.241	6
27	MP3A	Mx	.085	6
28	MP4A	X	-107.805	1
29	MP4A	Z	62.241	1
30	MP4A	Mx	.054	1
31	MP4A	X	-107.805	6
32	MP4A	Z	62.241	6
33	MP4A	Mx	.054	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-33.805	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	.017	2.5
4	MP1A	X	-33.805	4.5
5	MP1A	Z	0	4.5
6	MP1A	Mx	.017	4.5
7	M53	X	-61.602	1
8	M53	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	M53	Mx	0	1
10	M54	X	-55.902	1
11	M54	Z	0	1
12	M54	Mx	0	1
13	M26	X	-124.257	.67
14	M26	Z	0	.67
15	M26	Mx	0	.67
16	MP3A	X	-110.353	1
17	MP3A	Z	0	1
18	MP3A	Mx	.055	1
19	MP3A	X	-110.353	6
20	MP3A	Z	0	6
21	MP3A	Mx	.055	6
22	MP3A	X	-110.353	1
23	MP3A	Z	0	1
24	MP3A	Mx	.055	1
25	MP3A	X	-110.353	6
26	MP3A	Z	0	6
27	MP3A	Mx	.055	6
28	MP4A	X	-110.353	1
29	MP4A	Z	0	1
30	MP4A	Mx	.055	1
31	MP4A	X	-110.353	6
32	MP4A	Z	0	6
33	MP4A	Mx	.055	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-40.995	2.5
2	MP1A	Z	-23.669	2.5
3	MP1A	Mx	.02	2.5
4	MP1A	X	-40.995	4.5
5	MP1A	Z	-23.669	4.5
6	MP1A	Mx	.02	4.5
7	M53	X	-63.667	1
8	M53	Z	-36.758	1
9	M53	Mx	0	1
10	M54	X	-62.683	1
11	M54	Z	-36.19	1
12	M54	Mx	0	1
13	M26	X	-128.933	.67
14	M26	Z	-74.44	.67
15	M26	Mx	0	.67
16	MP3A	X	-107.805	1
17	MP3A	Z	-62.241	1
18	MP3A	Mx	.085	1
19	MP3A	X	-107.805	6
20	MP3A	Z	-62.241	6
21	MP3A	Mx	.085	6
22	MP3A	X	-107.805	1
23	MP3A	Z	-62.241	1
24	MP3A	Mx	.023	1
25	MP3A	X	-107.805	6
26	MP3A	Z	-62.241	6
27	MP3A	Mx	.023	6
28	MP4A	X	-107.805	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP4A	Z	-62.241	1
30	MP4A	Mx	.054	1
31	MP4A	X	-107.805	6
32	MP4A	Z	-62.241	6
33	MP4A	Mx	.054	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-37.201	2.5
2	MP1A	Z	-64.434	2.5
3	MP1A	Mx	.019	2.5
4	MP1A	X	-37.201	4.5
5	MP1A	Z	-64.434	4.5
6	MP1A	Mx	.019	4.5
7	M53	X	-37.859	1
8	M53	Z	-65.573	1
9	M53	Mx	0	1
10	M54	X	-37.712	1
11	M54	Z	-65.32	1
12	M54	Mx	0	1
13	M26	X	-76.715	.67
14	M26	Z	-132.874	.67
15	M26	Mx	0	.67
16	MP3A	X	-76.371	1
17	MP3A	Z	-132.278	1
18	MP3A	Mx	.104	1
19	MP3A	X	-76.371	6
20	MP3A	Z	-132.278	6
21	MP3A	Mx	.104	6
22	MP3A	X	-76.371	1
23	MP3A	Z	-132.278	1
24	MP3A	Mx	-.028	1
25	MP3A	X	-76.371	6
26	MP3A	Z	-132.278	6
27	MP3A	Mx	-.028	6
28	MP4A	X	-76.371	1
29	MP4A	Z	-132.278	1
30	MP4A	Mx	.038	1
31	MP4A	X	-76.371	6
32	MP4A	Z	-132.278	6
33	MP4A	Mx	.038	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	2.5
2	MP1A	Z	-19.346	2.5
3	MP1A	Mx	0	2.5
4	MP1A	X	0	4.5
5	MP1A	Z	-19.346	4.5
6	MP1A	Mx	0	4.5
7	M53	X	0	1
8	M53	Z	-16.041	1
9	M53	Mx	0	1
10	M54	X	0	1
11	M54	Z	-15.209	1
12	M54	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	M26	X	0	.67
14	M26	Z	-30.016	.67
15	M26	Mx	0	.67
16	MP3A	X	0	1
17	MP3A	Z	-35.309	1
18	MP3A	Mx	.018	1
19	MP3A	X	0	6
20	MP3A	Z	-35.309	6
21	MP3A	Mx	.018	6
22	MP3A	X	0	1
23	MP3A	Z	-35.309	1
24	MP3A	Mx	-.018	1
25	MP3A	X	0	6
26	MP3A	Z	-35.309	6
27	MP3A	Mx	-.018	6
28	MP4A	X	0	1
29	MP4A	Z	-35.309	1
30	MP4A	Mx	0	1
31	MP4A	X	0	6
32	MP4A	Z	-35.309	6
33	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	8.318	2.5
2	MP1A	Z	-14.407	2.5
3	MP1A	Mx	-.004	2.5
4	MP1A	X	8.318	4.5
5	MP1A	Z	-14.407	4.5
6	MP1A	Mx	-.004	4.5
7	M53	X	6.776	1
8	M53	Z	-11.736	1
9	M53	Mx	0	1
10	M54	X	5.886	1
11	M54	Z	-10.196	1
12	M54	Mx	0	1
13	M26	X	12.566	.67
14	M26	Z	-21.764	.67
15	M26	Mx	0	.67
16	MP3A	X	16.345	1
17	MP3A	Z	-28.311	1
18	MP3A	Mx	.006	1
19	MP3A	X	16.345	6
20	MP3A	Z	-28.311	6
21	MP3A	Mx	.006	6
22	MP3A	X	16.345	1
23	MP3A	Z	-28.311	1
24	MP3A	Mx	-.022	1
25	MP3A	X	16.345	6
26	MP3A	Z	-28.311	6
27	MP3A	Mx	-.022	6
28	MP4A	X	16.345	1
29	MP4A	Z	-28.311	1
30	MP4A	Mx	-.008	1
31	MP4A	X	16.345	6
32	MP4A	Z	-28.311	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP4A	Mx	-0.008	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	9.713	2.5
2	MP1A	Z	-5.608	2.5
3	MP1A	Mx	-0.005	2.5
4	MP1A	X	9.713	4.5
5	MP1A	Z	-5.608	4.5
6	MP1A	Mx	-0.005	4.5
7	M53	X	11.337	1
8	M53	Z	-6.545	1
9	M53	Mx	0	1
10	M54	X	9.646	1
11	M54	Z	-5.569	1
12	M54	Mx	0	1
13	M26	X	20.983	.67
14	M26	Z	-12.114	.67
15	M26	Mx	0	.67
16	MP3A	X	23.775	1
17	MP3A	Z	-13.726	1
18	MP3A	Mx	-0.005	1
19	MP3A	X	23.775	6
20	MP3A	Z	-13.726	6
21	MP3A	Mx	-0.005	6
22	MP3A	X	23.775	1
23	MP3A	Z	-13.726	1
24	MP3A	Mx	-0.019	1
25	MP3A	X	23.775	6
26	MP3A	Z	-13.726	6
27	MP3A	Mx	-0.019	6
28	MP4A	X	23.775	1
29	MP4A	Z	-13.726	1
30	MP4A	Mx	-0.012	1
31	MP4A	X	23.775	6
32	MP4A	Z	-13.726	6
33	MP4A	Mx	-0.012	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	8.505	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	-0.004	2.5
4	MP1A	X	8.505	4.5
5	MP1A	Z	0	4.5
6	MP1A	Mx	-0.004	4.5
7	M53	X	15.121	1
8	M53	Z	0	1
9	M53	Mx	0	1
10	M54	X	13.939	1
11	M54	Z	0	1
12	M54	Mx	0	1
13	M26	X	28.21	.67
14	M26	Z	0	.67
15	M26	Mx	0	.67
16	MP3A	X	24.834	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	8.318	2.5
2	MP1A	Z	14.407	2.5
3	MP1A	Mx	-.004	2.5
4	MP1A	X	8.318	4.5
5	MP1A	Z	14.407	4.5
6	MP1A	Mx	-.004	4.5
7	M53	X	9.035	1
8	M53	Z	15.65	1
9	M53	Mx	0	1
10	M54	X	9.005	1
11	M54	Z	15.597	1
12	M54	Mx	0	1
13	M26	X	16.999	.67
14	M26	Z	29.443	.67
15	M26	Mx	0	.67
16	MP3A	X	16.345	1
17	MP3A	Z	28.311	1
18	MP3A	Mx	-.022	1
19	MP3A	X	16.345	6
20	MP3A	Z	28.311	6
21	MP3A	Mx	-.022	6
22	MP3A	X	16.345	1
23	MP3A	Z	28.311	1
24	MP3A	Mx	.006	1
25	MP3A	X	16.345	6
26	MP3A	Z	28.311	6
27	MP3A	Mx	.006	6
28	MP4A	X	16.345	1
29	MP4A	Z	28.311	1
30	MP4A	Mx	-.008	1
31	MP4A	X	16.345	6
32	MP4A	Z	28.311	6
33	MP4A	Mx	-.008	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	2.5
2	MP1A	Z	19.346	2.5
3	MP1A	Mx	0	2.5
4	MP1A	X	0	4.5
5	MP1A	Z	19.346	4.5
6	MP1A	Mx	0	4.5
7	M53	X	0	1
8	M53	Z	16.041	1
9	M53	Mx	0	1
10	M54	X	0	1
11	M54	Z	15.209	1
12	M54	Mx	0	1
13	M26	X	0	.67
14	M26	Z	30.016	.67
15	M26	Mx	0	.67
16	MP3A	X	0	1
17	MP3A	Z	35.309	1
18	MP3A	Mx	-.018	1
19	MP3A	X	0	6
20	MP3A	Z	35.309	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3A	Mx	-.018	6
22	MP3A	X	0	1
23	MP3A	Z	35.309	1
24	MP3A	Mx	.018	1
25	MP3A	X	0	6
26	MP3A	Z	35.309	6
27	MP3A	Mx	.018	6
28	MP4A	X	0	1
29	MP4A	Z	35.309	1
30	MP4A	Mx	0	1
31	MP4A	X	0	6
32	MP4A	Z	35.309	6
33	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-8.318	2.5
2	MP1A	Z	14.407	2.5
3	MP1A	Mx	.004	2.5
4	MP1A	X	-8.318	4.5
5	MP1A	Z	14.407	4.5
6	MP1A	Mx	.004	4.5
7	M53	X	-6.776	1
8	M53	Z	11.736	1
9	M53	Mx	0	1
10	M54	X	-5.886	1
11	M54	Z	10.196	1
12	M54	Mx	0	1
13	M26	X	-12.566	.67
14	M26	Z	21.764	.67
15	M26	Mx	0	.67
16	MP3A	X	-16.345	1
17	MP3A	Z	28.311	1
18	MP3A	Mx	-.006	1
19	MP3A	X	-16.345	6
20	MP3A	Z	28.311	6
21	MP3A	Mx	-.006	6
22	MP3A	X	-16.345	1
23	MP3A	Z	28.311	1
24	MP3A	Mx	.022	1
25	MP3A	X	-16.345	6
26	MP3A	Z	28.311	6
27	MP3A	Mx	.022	6
28	MP4A	X	-16.345	1
29	MP4A	Z	28.311	1
30	MP4A	Mx	.008	1
31	MP4A	X	-16.345	6
32	MP4A	Z	28.311	6
33	MP4A	Mx	.008	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-9.713	2.5
2	MP1A	Z	5.608	2.5
3	MP1A	Mx	.005	2.5
4	MP1A	X	-9.713	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP1A	Z	5.608	4.5
6	MP1A	Mx	.005	4.5
7	M53	X	-11.337	1
8	M53	Z	6.545	1
9	M53	Mx	0	1
10	M54	X	-9.646	1
11	M54	Z	5.569	1
12	M54	Mx	0	1
13	M26	X	-20.983	.67
14	M26	Z	12.114	.67
15	M26	Mx	0	.67
16	MP3A	X	-23.775	1
17	MP3A	Z	13.726	1
18	MP3A	Mx	.005	1
19	MP3A	X	-23.775	6
20	MP3A	Z	13.726	6
21	MP3A	Mx	.005	6
22	MP3A	X	-23.775	1
23	MP3A	Z	13.726	1
24	MP3A	Mx	.019	1
25	MP3A	X	-23.775	6
26	MP3A	Z	13.726	6
27	MP3A	Mx	.019	6
28	MP4A	X	-23.775	1
29	MP4A	Z	13.726	1
30	MP4A	Mx	.012	1
31	MP4A	X	-23.775	6
32	MP4A	Z	13.726	6
33	MP4A	Mx	.012	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-8.505	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	.004	2.5
4	MP1A	X	-8.505	4.5
5	MP1A	Z	0	4.5
6	MP1A	Mx	.004	4.5
7	M53	X	-15.121	1
8	M53	Z	0	1
9	M53	Mx	0	1
10	M54	X	-13.939	1
11	M54	Z	0	1
12	M54	Mx	0	1
13	M26	X	-28.21	.67
14	M26	Z	0	.67
15	M26	Mx	0	.67
16	MP3A	X	-24.834	1
17	MP3A	Z	0	1
18	MP3A	Mx	.012	1
19	MP3A	X	-24.834	6
20	MP3A	Z	0	6
21	MP3A	Mx	.012	6
22	MP3A	X	-24.834	1
23	MP3A	Z	0	1
24	MP3A	Mx	.012	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP3A	X	-24.834	6
26	MP3A	Z	0	6
27	MP3A	Mx	.012	6
28	MP4A	X	-24.834	1
29	MP4A	Z	0	1
30	MP4A	Mx	.012	1
31	MP4A	X	-24.834	6
32	MP4A	Z	0	6
33	MP4A	Mx	.012	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-9.713	2.5
2	MP1A	Z	-5.608	2.5
3	MP1A	Mx	.005	2.5
4	MP1A	X	-9.713	4.5
5	MP1A	Z	-5.608	4.5
6	MP1A	Mx	.005	4.5
7	M53	X	-15.251	1
8	M53	Z	-8.805	1
9	M53	Mx	0	1
10	M54	X	-15.047	1
11	M54	Z	-8.688	1
12	M54	Mx	0	1
13	M26	X	-28.661	.67
14	M26	Z	-16.547	.67
15	M26	Mx	0	.67
16	MP3A	X	-23.775	1
17	MP3A	Z	-13.726	1
18	MP3A	Mx	.019	1
19	MP3A	X	-23.775	6
20	MP3A	Z	-13.726	6
21	MP3A	Mx	.019	6
22	MP3A	X	-23.775	1
23	MP3A	Z	-13.726	1
24	MP3A	Mx	.005	1
25	MP3A	X	-23.775	6
26	MP3A	Z	-13.726	6
27	MP3A	Mx	.005	6
28	MP4A	X	-23.775	1
29	MP4A	Z	-13.726	1
30	MP4A	Mx	.012	1
31	MP4A	X	-23.775	6
32	MP4A	Z	-13.726	6
33	MP4A	Mx	.012	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-8.318	2.5
2	MP1A	Z	-14.407	2.5
3	MP1A	Mx	.004	2.5
4	MP1A	X	-8.318	4.5
5	MP1A	Z	-14.407	4.5
6	MP1A	Mx	.004	4.5
7	M53	X	-9.035	1
8	M53	Z	-15.65	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	M53	Mx	0	1
10	M54	X	-9.005	1
11	M54	Z	-15.597	1
12	M54	Mx	0	1
13	M26	X	-16.999	.67
14	M26	Z	-29.443	.67
15	M26	Mx	0	.67
16	MP3A	X	-16.345	1
17	MP3A	Z	-28.311	1
18	MP3A	Mx	.022	1
19	MP3A	X	-16.345	6
20	MP3A	Z	-28.311	6
21	MP3A	Mx	.022	6
22	MP3A	X	-16.345	1
23	MP3A	Z	-28.311	1
24	MP3A	Mx	-.006	1
25	MP3A	X	-16.345	6
26	MP3A	Z	-28.311	6
27	MP3A	Mx	-.006	6
28	MP4A	X	-16.345	1
29	MP4A	Z	-28.311	1
30	MP4A	Mx	.008	1
31	MP4A	X	-16.345	6
32	MP4A	Z	-28.311	6
33	MP4A	Mx	.008	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	2.5
2	MP1A	Z	-5.781	2.5
3	MP1A	Mx	0	2.5
4	MP1A	X	0	4.5
5	MP1A	Z	-5.781	4.5
6	MP1A	Mx	0	4.5
7	M53	X	0	1
8	M53	Z	-4.34	1
9	M53	Mx	0	1
10	M54	X	0	1
11	M54	Z	-4.076	1
12	M54	Mx	0	1
13	M26	X	0	.67
14	M26	Z	-8.768	.67
15	M26	Mx	0	.67
16	MP3A	X	0	1
17	MP3A	Z	-10.971	1
18	MP3A	Mx	.005	1
19	MP3A	X	0	6
20	MP3A	Z	-10.971	6
21	MP3A	Mx	.005	6
22	MP3A	X	0	1
23	MP3A	Z	-10.971	1
24	MP3A	Mx	-.005	1
25	MP3A	X	0	6
26	MP3A	Z	-10.971	6
27	MP3A	Mx	-.005	6
28	MP4A	X	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	-10.971	1
30	MP4A	Mx	0	1
31	MP4A	X	0	6
32	MP4A	Z	-10.971	6
33	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.446	2.5
2	MP1A	Z	-4.236	2.5
3	MP1A	Mx	-.001	2.5
4	MP1A	X	2.446	4.5
5	MP1A	Z	-4.236	4.5
6	MP1A	Mx	-.001	4.5
7	M53	X	1.778	1
8	M53	Z	-3.08	1
9	M53	Mx	0	1
10	M54	X	1.496	1
11	M54	Z	-2.591	1
12	M54	Mx	0	1
13	M26	X	3.574	.67
14	M26	Z	-6.191	.67
15	M26	Mx	0	.67
16	MP3A	X	5.021	1
17	MP3A	Z	-8.697	1
18	MP3A	Mx	.002	1
19	MP3A	X	5.021	6
20	MP3A	Z	-8.697	6
21	MP3A	Mx	.002	6
22	MP3A	X	5.021	1
23	MP3A	Z	-8.697	1
24	MP3A	Mx	-.007	1
25	MP3A	X	5.021	6
26	MP3A	Z	-8.697	6
27	MP3A	Mx	-.007	6
28	MP4A	X	5.021	1
29	MP4A	Z	-8.697	1
30	MP4A	Mx	-.003	1
31	MP4A	X	5.021	6
32	MP4A	Z	-8.697	6
33	MP4A	Mx	-.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.695	2.5
2	MP1A	Z	-1.556	2.5
3	MP1A	Mx	-.001	2.5
4	MP1A	X	2.695	4.5
5	MP1A	Z	-1.556	4.5
6	MP1A	Mx	-.001	4.5
7	M53	X	2.954	1
8	M53	Z	-1.706	1
9	M53	Mx	0	1
10	M54	X	2.418	1
11	M54	Z	-1.396	1
12	M54	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	M26	X	5.932	.67
14	M26	Z	-3.425	.67
15	M26	Mx	0	.67
16	MP3A	X	7.088	1
17	MP3A	Z	-4.092	1
18	MP3A	Mx	-.001	1
19	MP3A	X	7.088	6
20	MP3A	Z	-4.092	6
21	MP3A	Mx	-.001	6
22	MP3A	X	7.088	1
23	MP3A	Z	-4.092	1
24	MP3A	Mx	-.006	1
25	MP3A	X	7.088	6
26	MP3A	Z	-4.092	6
27	MP3A	Mx	-.006	6
28	MP4A	X	7.088	1
29	MP4A	Z	-4.092	1
30	MP4A	Mx	-.004	1
31	MP4A	X	7.088	6
32	MP4A	Z	-4.092	6
33	MP4A	Mx	-.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.223	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	-.001	2.5
4	MP1A	X	2.223	4.5
5	MP1A	Z	0	4.5
6	MP1A	Mx	-.001	4.5
7	M53	X	4.05	1
8	M53	Z	0	1
9	M53	Mx	0	1
10	M54	X	3.675	1
11	M54	Z	0	1
12	M54	Mx	0	1
13	M26	X	8.169	.67
14	M26	Z	0	.67
15	M26	Mx	0	.67
16	MP3A	X	7.255	1
17	MP3A	Z	0	1
18	MP3A	Mx	-.004	1
19	MP3A	X	7.255	6
20	MP3A	Z	0	6
21	MP3A	Mx	-.004	6
22	MP3A	X	7.255	1
23	MP3A	Z	0	1
24	MP3A	Mx	-.004	1
25	MP3A	X	7.255	6
26	MP3A	Z	0	6
27	MP3A	Mx	-.004	6
28	MP4A	X	7.255	1
29	MP4A	Z	0	1
30	MP4A	Mx	-.004	1
31	MP4A	X	7.255	6
32	MP4A	Z	0	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP4A	Mx	-0.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.695	2.5
2	MP1A	Z	1.556	2.5
3	MP1A	Mx	-0.001	2.5
4	MP1A	X	2.695	4.5
5	MP1A	Z	1.556	4.5
6	MP1A	Mx	-0.001	4.5
7	M53	X	4.186	1
8	M53	Z	2.417	1
9	M53	Mx	0	1
10	M54	X	4.121	1
11	M54	Z	2.379	1
12	M54	Mx	0	1
13	M26	X	8.477	.67
14	M26	Z	4.894	.67
15	M26	Mx	0	.67
16	MP3A	X	7.088	1
17	MP3A	Z	4.092	1
18	MP3A	Mx	-0.006	1
19	MP3A	X	7.088	6
20	MP3A	Z	4.092	6
21	MP3A	Mx	-0.006	6
22	MP3A	X	7.088	1
23	MP3A	Z	4.092	1
24	MP3A	Mx	-0.001	1
25	MP3A	X	7.088	6
26	MP3A	Z	4.092	6
27	MP3A	Mx	-0.001	6
28	MP4A	X	7.088	1
29	MP4A	Z	4.092	1
30	MP4A	Mx	-0.004	1
31	MP4A	X	7.088	6
32	MP4A	Z	4.092	6
33	MP4A	Mx	-0.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.446	2.5
2	MP1A	Z	4.236	2.5
3	MP1A	Mx	-0.001	2.5
4	MP1A	X	2.446	4.5
5	MP1A	Z	4.236	4.5
6	MP1A	Mx	-0.001	4.5
7	M53	X	2.489	1
8	M53	Z	4.311	1
9	M53	Mx	0	1
10	M54	X	2.479	1
11	M54	Z	4.295	1
12	M54	Mx	0	1
13	M26	X	5.044	.67
14	M26	Z	8.736	.67
15	M26	Mx	0	.67
16	MP3A	X	5.021	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
17	MP3A	Z	8.697	1
18	MP3A	Mx	-.007	1
19	MP3A	X	5.021	6
20	MP3A	Z	8.697	6
21	MP3A	Mx	-.007	6
22	MP3A	X	5.021	1
23	MP3A	Z	8.697	1
24	MP3A	Mx	.002	1
25	MP3A	X	5.021	6
26	MP3A	Z	8.697	6
27	MP3A	Mx	.002	6
28	MP4A	X	5.021	1
29	MP4A	Z	8.697	1
30	MP4A	Mx	-.003	1
31	MP4A	X	5.021	6
32	MP4A	Z	8.697	6
33	MP4A	Mx	-.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	0	2.5
2	MP1A	Z	5.781	2.5
3	MP1A	Mx	0	2.5
4	MP1A	X	0	4.5
5	MP1A	Z	5.781	4.5
6	MP1A	Mx	0	4.5
7	M53	X	0	1
8	M53	Z	4.34	1
9	M53	Mx	0	1
10	M54	X	0	1
11	M54	Z	4.076	1
12	M54	Mx	0	1
13	M26	X	0	.67
14	M26	Z	8.768	.67
15	M26	Mx	0	.67
16	MP3A	X	0	1
17	MP3A	Z	10.971	1
18	MP3A	Mx	-.005	1
19	MP3A	X	0	6
20	MP3A	Z	10.971	6
21	MP3A	Mx	-.005	6
22	MP3A	X	0	1
23	MP3A	Z	10.971	1
24	MP3A	Mx	.005	1
25	MP3A	X	0	6
26	MP3A	Z	10.971	6
27	MP3A	Mx	.005	6
28	MP4A	X	0	1
29	MP4A	Z	10.971	1
30	MP4A	Mx	0	1
31	MP4A	X	0	6
32	MP4A	Z	10.971	6
33	MP4A	Mx	0	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
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Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.446	2.5
2	MP1A	Z	4.236	2.5
3	MP1A	Mx	.001	2.5
4	MP1A	X	-2.446	4.5
5	MP1A	Z	4.236	4.5
6	MP1A	Mx	.001	4.5
7	M53	X	-1.778	1
8	M53	Z	3.08	1
9	M53	Mx	0	1
10	M54	X	-1.496	1
11	M54	Z	2.591	1
12	M54	Mx	0	1
13	M26	X	-3.574	.67
14	M26	Z	6.191	.67
15	M26	Mx	0	.67
16	MP3A	X	-5.021	1
17	MP3A	Z	8.697	1
18	MP3A	Mx	-.002	1
19	MP3A	X	-5.021	6
20	MP3A	Z	8.697	6
21	MP3A	Mx	-.002	6
22	MP3A	X	-5.021	1
23	MP3A	Z	8.697	1
24	MP3A	Mx	.007	1
25	MP3A	X	-5.021	6
26	MP3A	Z	8.697	6
27	MP3A	Mx	.007	6
28	MP4A	X	-5.021	1
29	MP4A	Z	8.697	1
30	MP4A	Mx	.003	1
31	MP4A	X	-5.021	6
32	MP4A	Z	8.697	6
33	MP4A	Mx	.003	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-2.695	2.5
2	MP1A	Z	1.556	2.5
3	MP1A	Mx	.001	2.5
4	MP1A	X	-2.695	4.5
5	MP1A	Z	1.556	4.5
6	MP1A	Mx	.001	4.5
7	M53	X	-2.954	1
8	M53	Z	1.706	1
9	M53	Mx	0	1
10	M54	X	-2.418	1
11	M54	Z	1.396	1
12	M54	Mx	0	1
13	M26	X	-5.932	.67
14	M26	Z	3.425	.67
15	M26	Mx	0	.67
16	MP3A	X	-7.088	1
17	MP3A	Z	4.092	1
18	MP3A	Mx	.001	1
19	MP3A	X	-7.088	6
20	MP3A	Z	4.092	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP3A	Mx	.001	6
22	MP3A	X	-7.088	1
23	MP3A	Z	4.092	1
24	MP3A	Mx	.006	1
25	MP3A	X	-7.088	6
26	MP3A	Z	4.092	6
27	MP3A	Mx	.006	6
28	MP4A	X	-7.088	1
29	MP4A	Z	4.092	1
30	MP4A	Mx	.004	1
31	MP4A	X	-7.088	6
32	MP4A	Z	4.092	6
33	MP4A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-2.223	2.5
2	MP1A	Z	0	2.5
3	MP1A	Mx	.001	2.5
4	MP1A	X	-2.223	4.5
5	MP1A	Z	0	4.5
6	MP1A	Mx	.001	4.5
7	M53	X	-4.05	1
8	M53	Z	0	1
9	M53	Mx	0	1
10	M54	X	-3.675	1
11	M54	Z	0	1
12	M54	Mx	0	1
13	M26	X	-8.169	.67
14	M26	Z	0	.67
15	M26	Mx	0	.67
16	MP3A	X	-7.255	1
17	MP3A	Z	0	1
18	MP3A	Mx	.004	1
19	MP3A	X	-7.255	6
20	MP3A	Z	0	6
21	MP3A	Mx	.004	6
22	MP3A	X	-7.255	1
23	MP3A	Z	0	1
24	MP3A	Mx	.004	1
25	MP3A	X	-7.255	6
26	MP3A	Z	0	6
27	MP3A	Mx	.004	6
28	MP4A	X	-7.255	1
29	MP4A	Z	0	1
30	MP4A	Mx	.004	1
31	MP4A	X	-7.255	6
32	MP4A	Z	0	6
33	MP4A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-2.695	2.5
2	MP1A	Z	-1.556	2.5
3	MP1A	Mx	.001	2.5
4	MP1A	X	-2.695	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP1A	Z	-1.556	4.5
6	MP1A	Mx	.001	4.5
7	M53	X	-4.186	1
8	M53	Z	-2.417	1
9	M53	Mx	0	1
10	M54	X	-4.121	1
11	M54	Z	-2.379	1
12	M54	Mx	0	1
13	M26	X	-8.477	.67
14	M26	Z	-4.894	.67
15	M26	Mx	0	.67
16	MP3A	X	-7.088	1
17	MP3A	Z	-4.092	1
18	MP3A	Mx	.006	1
19	MP3A	X	-7.088	6
20	MP3A	Z	-4.092	6
21	MP3A	Mx	.006	6
22	MP3A	X	-7.088	1
23	MP3A	Z	-4.092	1
24	MP3A	Mx	.001	1
25	MP3A	X	-7.088	6
26	MP3A	Z	-4.092	6
27	MP3A	Mx	.001	6
28	MP4A	X	-7.088	1
29	MP4A	Z	-4.092	1
30	MP4A	Mx	.004	1
31	MP4A	X	-7.088	6
32	MP4A	Z	-4.092	6
33	MP4A	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-2.446	2.5
2	MP1A	Z	-4.236	2.5
3	MP1A	Mx	.001	2.5
4	MP1A	X	-2.446	4.5
5	MP1A	Z	-4.236	4.5
6	MP1A	Mx	.001	4.5
7	M53	X	-2.489	1
8	M53	Z	-4.311	1
9	M53	Mx	0	1
10	M54	X	-2.479	1
11	M54	Z	-4.295	1
12	M54	Mx	0	1
13	M26	X	-5.044	.67
14	M26	Z	-8.736	.67
15	M26	Mx	0	.67
16	MP3A	X	-5.021	1
17	MP3A	Z	-8.697	1
18	MP3A	Mx	.007	1
19	MP3A	X	-5.021	6
20	MP3A	Z	-8.697	6
21	MP3A	Mx	.007	6
22	MP3A	X	-5.021	1
23	MP3A	Z	-8.697	1
24	MP3A	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
25	MP3A	X	-5.021	6
26	MP3A	Z	-8.697	6
27	MP3A	Mx	-.002	6
28	MP4A	X	-5.021	1
29	MP4A	Z	-8.697	1
30	MP4A	Mx	.003	1
31	MP4A	X	-5.021	6
32	MP4A	Z	-8.697	6
33	MP4A	Mx	.003	6

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M1	Y	-500	%3

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M1	Y	-500	%66

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M1	Y	-250	%100

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	-8.726	-8.726	0	%100
2	M2	Y	-8.726	-8.726	0	%100
3	MP4A	Y	-8.726	-8.726	0	%100
4	MP3A	Y	-8.726	-8.726	0	%100
5	MP2A	Y	-8.726	-8.726	0	%100
6	MP1A	Y	-8.726	-8.726	0	%100
7	M17	Y	-12.24	-12.24	0	%100
8	M18	Y	-12.24	-12.24	0	%100
9	M21A	Y	-12.24	-12.24	0	%100
10	M22A	Y	-12.24	-12.24	0	%100
11	M22	Y	-12.24	-12.24	0	%100
12	M23	Y	-12.24	-12.24	0	%100
13	M24	Y	-12.24	-12.24	0	%100
14	M25	Y	-12.24	-12.24	0	%100
15	M26	Y	-7.208	-7.208	0	%100
16	M27	Y	-7.208	-7.208	0	%100
17	M28	Y	-7.208	-7.208	0	%100
18	M29	Y	-7.208	-7.208	0	%100
19	M37	Y	-12.24	-12.24	0	%100
20	M38	Y	-12.24	-12.24	0	%100
21	M39	Y	-12.24	-12.24	0	%100
22	M40	Y	-12.24	-12.24	0	%100
23	M42	Y	-12.24	-12.24	0	%100
24	M43	Y	-12.24	-12.24	0	%100
25	M44	Y	-12.24	-12.24	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.%]
26	M45	Y	-12.24	-12.24	0	%100
27	M46	Y	-7.208	-7.208	0	%100
28	M47	Y	-7.208	-7.208	0	%100
29	M48	Y	-7.208	-7.208	0	%100
30	M49	Y	-7.208	-7.208	0	%100
31	M45A	Y	-5.012	-5.012	0	%100
32	M46A	Y	-5.012	-5.012	0	%100
33	M47A	Y	-5.012	-5.012	0	%100
34	M48A	Y	-5.012	-5.012	0	%100
35	M49A	Y	-5.012	-5.012	0	%100
36	M50	Y	-5.012	-5.012	0	%100
37	M51	Y	-5.012	-5.012	0	%100
38	M52	Y	-5.012	-5.012	0	%100
39	M53	Y	-11.113	-11.113	0	%100
40	M54	Y	-11.113	-11.113	0	%100
41	M55	Y	-8.726	-8.726	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	-9.699	-9.699	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-9.699	-9.699	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-8.442	-8.442	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-8.442	-8.442	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-8.442	-8.442	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-8.442	-8.442	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	-2.042	-2.042	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	-2.042	-2.042	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	-1.105	-1.105	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-1.105	-1.105	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	-1.105	-1.105	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-1.105	-1.105	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-2.488	-2.488	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	-2.488	-2.488	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-2.488	-2.488	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	-2.488	-2.488	0	%100
37	M37	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.%,]
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-2.042	-2.042	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-2.042	-2.042	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-1.105	-1.105	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-1.105	-1.105	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-1.105	-1.105	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	-1.105	-1.105	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	-2.488	-2.488	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-2.488	-2.488	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	-2.488	-2.488	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	-2.488	-2.488	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	-2.552	-2.552	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	-2.353	-2.353	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	-2.353	-2.353	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	-2.552	-2.552	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	-2.552	-2.552	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	-2.353	-2.353	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	-2.353	-2.353	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	-2.552	-2.552	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	-11.72	-11.72	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	-11.72	-11.72	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	-7.154	-7.154	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	3.637	3.637	0	%100
2	M1	Z	-6.3	-6.3	0	%100
3	M2	X	3.637	3.637	0	%100
4	M2	Z	-6.3	-6.3	0	%100
5	MP4A	X	4.378	4.378	0	%100
6	MP4A	Z	-7.583	-7.583	0	%100
7	MP3A	X	4.378	4.378	0	%100
8	MP3A	Z	-7.583	-7.583	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.%,]
9	MP2A	X	4.378	4.378	0	%100
10	MP2A	Z	-7.583	-7.583	0	%100
11	MP1A	X	4.378	4.378	0	%100
12	MP1A	Z	-7.583	-7.583	0	%100
13	M17	X	.255	.255	0	%100
14	M17	Z	-.442	-.442	0	%100
15	M18	X	.255	.255	0	%100
16	M18	Z	-.442	-.442	0	%100
17	M21A	X	.766	.766	0	%100
18	M21A	Z	-1.326	-1.326	0	%100
19	M22A	X	.766	.766	0	%100
20	M22A	Z	-1.326	-1.326	0	%100
21	M22	X	.079	.079	0	%100
22	M22	Z	-.137	-.137	0	%100
23	M23	X	1.012	1.012	0	%100
24	M23	Z	-1.753	-1.753	0	%100
25	M24	X	.079	.079	0	%100
26	M24	Z	-.137	-.137	0	%100
27	M25	X	1.012	1.012	0	%100
28	M25	Z	-1.753	-1.753	0	%100
29	M26	X	.178	.178	0	%100
30	M26	Z	-.309	-.309	0	%100
31	M27	X	2.279	2.279	0	%100
32	M27	Z	-3.947	-3.947	0	%100
33	M28	X	.178	.178	0	%100
34	M28	Z	-.309	-.309	0	%100
35	M29	X	2.279	2.279	0	%100
36	M29	Z	-3.947	-3.947	0	%100
37	M37	X	.255	.255	0	%100
38	M37	Z	-.442	-.442	0	%100
39	M38	X	.255	.255	0	%100
40	M38	Z	-.442	-.442	0	%100
41	M39	X	.766	.766	0	%100
42	M39	Z	-1.326	-1.326	0	%100
43	M40	X	.766	.766	0	%100
44	M40	Z	-1.326	-1.326	0	%100
45	M42	X	.079	.079	0	%100
46	M42	Z	-.137	-.137	0	%100
47	M43	X	1.012	1.012	0	%100
48	M43	Z	-1.753	-1.753	0	%100
49	M44	X	.079	.079	0	%100
50	M44	Z	-.137	-.137	0	%100
51	M45	X	1.012	1.012	0	%100
52	M45	Z	-1.753	-1.753	0	%100
53	M46	X	.178	.178	0	%100
54	M46	Z	-.309	-.309	0	%100
55	M47	X	2.279	2.279	0	%100
56	M47	Z	-3.947	-3.947	0	%100
57	M48	X	.178	.178	0	%100
58	M48	Z	-.309	-.309	0	%100
59	M49	X	2.279	2.279	0	%100
60	M49	Z	-3.947	-3.947	0	%100
61	M45A	X	1.276	1.276	0	%100
62	M45A	Z	-2.211	-2.211	0	%100
63	M46A	X	1.087	1.087	0	%100
64	M46A	Z	-1.883	-1.883	0	%100
65	M47A	X	1.087	1.087	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, %]
66	M47A	Z	-1.883	-1.883	0	%100
67	M48A	X	1.276	1.276	0	%100
68	M48A	Z	-2.211	-2.211	0	%100
69	M49A	X	1.276	1.276	0	%100
70	M49A	Z	-2.211	-2.211	0	%100
71	M50	X	1.264	1.264	0	%100
72	M50	Z	-2.189	-2.189	0	%100
73	M51	X	1.264	1.264	0	%100
74	M51	Z	-2.189	-2.189	0	%100
75	M52	X	1.276	1.276	0	%100
76	M52	Z	-2.211	-2.211	0	%100
77	M53	X	5.95	5.95	0	%100
78	M53	Z	-10.306	-10.306	0	%100
79	M54	X	5.95	5.95	0	%100
80	M54	Z	-10.306	-10.306	0	%100
81	M55	X	4.849	4.849	0	%100
82	M55	Z	-8.398	-8.398	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	2.1	2.1	0	%100
2	M1	Z	-1.212	-1.212	0	%100
3	M2	X	2.1	2.1	0	%100
4	M2	Z	-1.212	-1.212	0	%100
5	MP4A	X	8.128	8.128	0	%100
6	MP4A	Z	-4.692	-4.692	0	%100
7	MP3A	X	8.128	8.128	0	%100
8	MP3A	Z	-4.692	-4.692	0	%100
9	MP2A	X	8.128	8.128	0	%100
10	MP2A	Z	-4.692	-4.692	0	%100
11	MP1A	X	8.128	8.128	0	%100
12	MP1A	Z	-4.692	-4.692	0	%100
13	M17	X	1.326	1.326	0	%100
14	M17	Z	-766	-766	0	%100
15	M18	X	1.326	1.326	0	%100
16	M18	Z	-766	-766	0	%100
17	M21A	X	.442	.442	0	%100
18	M21A	Z	-.255	-.255	0	%100
19	M22A	X	.442	.442	0	%100
20	M22A	Z	-.255	-.255	0	%100
21	M22	X	.113	.113	0	%100
22	M22	Z	-.065	-.065	0	%100
23	M23	X	1.729	1.729	0	%100
24	M23	Z	-.998	-.998	0	%100
25	M24	X	.113	.113	0	%100
26	M24	Z	-.065	-.065	0	%100
27	M25	X	1.729	1.729	0	%100
28	M25	Z	-.998	-.998	0	%100
29	M26	X	.255	.255	0	%100
30	M26	Z	-.147	-.147	0	%100
31	M27	X	3.893	3.893	0	%100
32	M27	Z	-2.248	-2.248	0	%100
33	M28	X	.255	.255	0	%100
34	M28	Z	-.147	-.147	0	%100
35	M29	X	3.893	3.893	0	%100
36	M29	Z	-2.248	-2.248	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.%,]
37	M37	X	1.326	1.326	0	%100
38	M37	Z	-0.766	-0.766	0	%100
39	M38	X	1.326	1.326	0	%100
40	M38	Z	-0.766	-0.766	0	%100
41	M39	X	.442	.442	0	%100
42	M39	Z	-0.255	-0.255	0	%100
43	M40	X	.442	.442	0	%100
44	M40	Z	-0.255	-0.255	0	%100
45	M42	X	.113	.113	0	%100
46	M42	Z	-0.065	-0.065	0	%100
47	M43	X	1.729	1.729	0	%100
48	M43	Z	-0.998	-0.998	0	%100
49	M44	X	.113	.113	0	%100
50	M44	Z	-0.065	-0.065	0	%100
51	M45	X	1.729	1.729	0	%100
52	M45	Z	-0.998	-0.998	0	%100
53	M46	X	.255	.255	0	%100
54	M46	Z	-0.147	-0.147	0	%100
55	M47	X	3.893	3.893	0	%100
56	M47	Z	-2.248	-2.248	0	%100
57	M48	X	.255	.255	0	%100
58	M48	Z	-0.147	-0.147	0	%100
59	M49	X	3.893	3.893	0	%100
60	M49	Z	-2.248	-2.248	0	%100
61	M45A	X	2.211	2.211	0	%100
62	M45A	Z	-1.276	-1.276	0	%100
63	M46A	X	1.878	1.878	0	%100
64	M46A	Z	-1.084	-1.084	0	%100
65	M47A	X	1.878	1.878	0	%100
66	M47A	Z	-1.084	-1.084	0	%100
67	M48A	X	2.211	2.211	0	%100
68	M48A	Z	-1.276	-1.276	0	%100
69	M49A	X	2.211	2.211	0	%100
70	M49A	Z	-1.276	-1.276	0	%100
71	M50	X	2.185	2.185	0	%100
72	M50	Z	-1.261	-1.261	0	%100
73	M51	X	2.185	2.185	0	%100
74	M51	Z	-1.261	-1.261	0	%100
75	M52	X	2.211	2.211	0	%100
76	M52	Z	-1.276	-1.276	0	%100
77	M53	X	10.618	10.618	0	%100
78	M53	Z	-6.131	-6.131	0	%100
79	M54	X	10.618	10.618	0	%100
80	M54	Z	-6.131	-6.131	0	%100
81	M55	X	6.402	6.402	0	%100
82	M55	Z	-3.696	-3.696	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	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	9.699	9.699	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	9.699	9.699	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.%]
8	MP3A	Z	0	0	0	%100
9	MP2A	X	9.699	9.699	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	9.699	9.699	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	2.042	2.042	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.042	2.042	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	1.05	1.05	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	1.05	1.05	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	1.05	1.05	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	1.05	1.05	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	2.364	2.364	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	2.364	2.364	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	2.364	2.364	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	2.364	2.364	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	2.042	2.042	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	2.042	2.042	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	1.05	1.05	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	1.05	1.05	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	1.05	1.05	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	1.05	1.05	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	2.364	2.364	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	2.364	2.364	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	2.364	2.364	0	%100
58	M48	Z	0	0	0	%100
59	M49	X	2.364	2.364	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	2.552	2.552	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	2.343	2.343	0	%100
64	M46A	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.%]
65	M47A	X	2.343	2.343	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	2.552	2.552	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	2.552	2.552	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	2.343	2.343	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	2.343	2.343	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	2.552	2.552	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	12.441	12.441	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	12.441	12.441	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	2.545	2.545	0	%100
82	M55	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	2.1	2.1	0	%100
2	M1	Z	1.212	1.212	0	%100
3	M2	X	2.1	2.1	0	%100
4	M2	Z	1.212	1.212	0	%100
5	MP4A	X	8.128	8.128	0	%100
6	MP4A	Z	4.692	4.692	0	%100
7	MP3A	X	8.128	8.128	0	%100
8	MP3A	Z	4.692	4.692	0	%100
9	MP2A	X	8.128	8.128	0	%100
10	MP2A	Z	4.692	4.692	0	%100
11	MP1A	X	8.128	8.128	0	%100
12	MP1A	Z	4.692	4.692	0	%100
13	M17	X	1.326	1.326	0	%100
14	M17	Z	.766	.766	0	%100
15	M18	X	1.326	1.326	0	%100
16	M18	Z	.766	.766	0	%100
17	M21A	X	.442	.442	0	%100
18	M21A	Z	.255	.255	0	%100
19	M22A	X	.442	.442	0	%100
20	M22A	Z	.255	.255	0	%100
21	M22	X	1.729	1.729	0	%100
22	M22	Z	.998	.998	0	%100
23	M23	X	.113	.113	0	%100
24	M23	Z	.065	.065	0	%100
25	M24	X	1.729	1.729	0	%100
26	M24	Z	.998	.998	0	%100
27	M25	X	.113	.113	0	%100
28	M25	Z	.065	.065	0	%100
29	M26	X	3.893	3.893	0	%100
30	M26	Z	2.248	2.248	0	%100
31	M27	X	.255	.255	0	%100
32	M27	Z	.147	.147	0	%100
33	M28	X	3.893	3.893	0	%100
34	M28	Z	2.248	2.248	0	%100
35	M29	X	.255	.255	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,%]
36	M29	Z	.147	.147	0	%100
37	M37	X	1.326	1.326	0	%100
38	M37	Z	.766	.766	0	%100
39	M38	X	1.326	1.326	0	%100
40	M38	Z	.766	.766	0	%100
41	M39	X	.442	.442	0	%100
42	M39	Z	.255	.255	0	%100
43	M40	X	.442	.442	0	%100
44	M40	Z	.255	.255	0	%100
45	M42	X	1.729	1.729	0	%100
46	M42	Z	.998	.998	0	%100
47	M43	X	.113	.113	0	%100
48	M43	Z	.065	.065	0	%100
49	M44	X	1.729	1.729	0	%100
50	M44	Z	.998	.998	0	%100
51	M45	X	.113	.113	0	%100
52	M45	Z	.065	.065	0	%100
53	M46	X	3.893	3.893	0	%100
54	M46	Z	2.248	2.248	0	%100
55	M47	X	.255	.255	0	%100
56	M47	Z	.147	.147	0	%100
57	M48	X	3.893	3.893	0	%100
58	M48	Z	2.248	2.248	0	%100
59	M49	X	.255	.255	0	%100
60	M49	Z	.147	.147	0	%100
61	M45A	X	2.211	2.211	0	%100
62	M45A	Z	1.276	1.276	0	%100
63	M46A	X	2.185	2.185	0	%100
64	M46A	Z	1.261	1.261	0	%100
65	M47A	X	2.185	2.185	0	%100
66	M47A	Z	1.261	1.261	0	%100
67	M48A	X	2.211	2.211	0	%100
68	M48A	Z	1.276	1.276	0	%100
69	M49A	X	2.211	2.211	0	%100
70	M49A	Z	1.276	1.276	0	%100
71	M50	X	1.878	1.878	0	%100
72	M50	Z	1.084	1.084	0	%100
73	M51	X	1.878	1.878	0	%100
74	M51	Z	1.084	1.084	0	%100
75	M52	X	2.211	2.211	0	%100
76	M52	Z	1.276	1.276	0	%100
77	M53	X	10.618	10.618	0	%100
78	M53	Z	6.131	6.131	0	%100
79	M54	X	10.618	10.618	0	%100
80	M54	Z	6.131	6.131	0	%100
81	M55	X	.002	.002	0	%100
82	M55	Z	.000975	.000975	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	3.637	3.637	0	%100
2	M1	Z	6.3	6.3	0	%100
3	M2	X	3.637	3.637	0	%100
4	M2	Z	6.3	6.3	0	%100
5	MP4A	X	4.378	4.378	0	%100
6	MP4A	Z	7.583	7.583	0	%100



Company : Maser Consulting
 Designer : CDH
 Job Number : Project No. 10019448
 Model Name : 468019-VZW_MT_LOT_SectorA_H

Nov 19, 2020
 10:49 AM
 Checked By: ILR

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.%]
7	MP3A	X	4.378	4.378	0 %100
8	MP3A	Z	7.583	7.583	0 %100
9	MP2A	X	4.378	4.378	0 %100
10	MP2A	Z	7.583	7.583	0 %100
11	MP1A	X	4.378	4.378	0 %100
12	MP1A	Z	7.583	7.583	0 %100
13	M17	X	.255	.255	0 %100
14	M17	Z	.442	.442	0 %100
15	M18	X	.255	.255	0 %100
16	M18	Z	.442	.442	0 %100
17	M21A	X	.766	.766	0 %100
18	M21A	Z	1.326	1.326	0 %100
19	M22A	X	.766	.766	0 %100
20	M22A	Z	1.326	1.326	0 %100
21	M22	X	1.012	1.012	0 %100
22	M22	Z	1.753	1.753	0 %100
23	M23	X	.079	.079	0 %100
24	M23	Z	.137	.137	0 %100
25	M24	X	1.012	1.012	0 %100
26	M24	Z	1.753	1.753	0 %100
27	M25	X	.079	.079	0 %100
28	M25	Z	.137	.137	0 %100
29	M26	X	2.279	2.279	0 %100
30	M26	Z	3.947	3.947	0 %100
31	M27	X	.178	.178	0 %100
32	M27	Z	.309	.309	0 %100
33	M28	X	2.279	2.279	0 %100
34	M28	Z	3.947	3.947	0 %100
35	M29	X	.178	.178	0 %100
36	M29	Z	.309	.309	0 %100
37	M37	X	.255	.255	0 %100
38	M37	Z	.442	.442	0 %100
39	M38	X	.255	.255	0 %100
40	M38	Z	.442	.442	0 %100
41	M39	X	.766	.766	0 %100
42	M39	Z	1.326	1.326	0 %100
43	M40	X	.766	.766	0 %100
44	M40	Z	1.326	1.326	0 %100
45	M42	X	1.012	1.012	0 %100
46	M42	Z	1.753	1.753	0 %100
47	M43	X	.079	.079	0 %100
48	M43	Z	.137	.137	0 %100
49	M44	X	1.012	1.012	0 %100
50	M44	Z	1.753	1.753	0 %100
51	M45	X	.079	.079	0 %100
52	M45	Z	.137	.137	0 %100
53	M46	X	2.279	2.279	0 %100
54	M46	Z	3.947	3.947	0 %100
55	M47	X	.178	.178	0 %100
56	M47	Z	.309	.309	0 %100
57	M48	X	2.279	2.279	0 %100
58	M48	Z	3.947	3.947	0 %100
59	M49	X	.178	.178	0 %100
60	M49	Z	.309	.309	0 %100
61	M45A	X	1.276	1.276	0 %100
62	M45A	Z	2.211	2.211	0 %100
63	M46A	X	1.264	1.264	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.%,]
64	M46A	Z	2.189	2.189	0	%100
65	M47A	X	1.264	1.264	0	%100
66	M47A	Z	2.189	2.189	0	%100
67	M48A	X	1.276	1.276	0	%100
68	M48A	Z	2.211	2.211	0	%100
69	M49A	X	1.276	1.276	0	%100
70	M49A	Z	2.211	2.211	0	%100
71	M50	X	1.087	1.087	0	%100
72	M50	Z	1.883	1.883	0	%100
73	M51	X	1.087	1.087	0	%100
74	M51	Z	1.883	1.883	0	%100
75	M52	X	1.276	1.276	0	%100
76	M52	Z	2.211	2.211	0	%100
77	M53	X	5.95	5.95	0	%100
78	M53	Z	10.306	10.306	0	%100
79	M54	X	5.95	5.95	0	%100
80	M54	Z	10.306	10.306	0	%100
81	M55	X	1.153	1.153	0	%100
82	M55	Z	1.998	1.998	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	9.699	9.699	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	9.699	9.699	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	8.442	8.442	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	8.442	8.442	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	8.442	8.442	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	8.442	8.442	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	2.042	2.042	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	2.042	2.042	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	1.105	1.105	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	1.105	1.105	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	1.105	1.105	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	1.105	1.105	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	2.488	2.488	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	2.488	2.488	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	2.488	2.488	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.%]
35	M29	X	0	0	0	%100
36	M29	Z	2.488	2.488	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	2.042	2.042	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	2.042	2.042	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	1.105	1.105	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	1.105	1.105	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	1.105	1.105	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	1.105	1.105	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	2.488	2.488	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	2.488	2.488	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	2.488	2.488	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	2.488	2.488	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	2.552	2.552	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	2.353	2.353	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	2.353	2.353	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	2.552	2.552	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	2.552	2.552	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	2.353	2.353	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	2.353	2.353	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	2.552	2.552	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	11.72	11.72	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	11.72	11.72	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	7.154	7.154	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	-3.637	-3.637	0	%100
2	M1	Z	6.3	6.3	0	%100
3	M2	X	-3.637	-3.637	0	%100
4	M2	Z	6.3	6.3	0	%100
5	MP4A	X	-4.378	-4.378	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.%]
6	MP4A	Z	7.583	7.583	0 %100
7	MP3A	X	-4.378	-4.378	0 %100
8	MP3A	Z	7.583	7.583	0 %100
9	MP2A	X	-4.378	-4.378	0 %100
10	MP2A	Z	7.583	7.583	0 %100
11	MP1A	X	-4.378	-4.378	0 %100
12	MP1A	Z	7.583	7.583	0 %100
13	M17	X	-.255	-.255	0 %100
14	M17	Z	.442	.442	0 %100
15	M18	X	-.255	-.255	0 %100
16	M18	Z	.442	.442	0 %100
17	M21A	X	-.766	-.766	0 %100
18	M21A	Z	1.326	1.326	0 %100
19	M22A	X	-.766	-.766	0 %100
20	M22A	Z	1.326	1.326	0 %100
21	M22	X	-.079	-.079	0 %100
22	M22	Z	.137	.137	0 %100
23	M23	X	-1.012	-1.012	0 %100
24	M23	Z	1.753	1.753	0 %100
25	M24	X	-.079	-.079	0 %100
26	M24	Z	.137	.137	0 %100
27	M25	X	-1.012	-1.012	0 %100
28	M25	Z	1.753	1.753	0 %100
29	M26	X	-.178	-.178	0 %100
30	M26	Z	.309	.309	0 %100
31	M27	X	-2.279	-2.279	0 %100
32	M27	Z	3.947	3.947	0 %100
33	M28	X	-.178	-.178	0 %100
34	M28	Z	.309	.309	0 %100
35	M29	X	-2.279	-2.279	0 %100
36	M29	Z	3.947	3.947	0 %100
37	M37	X	-.255	-.255	0 %100
38	M37	Z	.442	.442	0 %100
39	M38	X	-.255	-.255	0 %100
40	M38	Z	.442	.442	0 %100
41	M39	X	-.766	-.766	0 %100
42	M39	Z	1.326	1.326	0 %100
43	M40	X	-.766	-.766	0 %100
44	M40	Z	1.326	1.326	0 %100
45	M42	X	-.079	-.079	0 %100
46	M42	Z	.137	.137	0 %100
47	M43	X	-1.012	-1.012	0 %100
48	M43	Z	1.753	1.753	0 %100
49	M44	X	-.079	-.079	0 %100
50	M44	Z	.137	.137	0 %100
51	M45	X	-1.012	-1.012	0 %100
52	M45	Z	1.753	1.753	0 %100
53	M46	X	-.178	-.178	0 %100
54	M46	Z	.309	.309	0 %100
55	M47	X	-2.279	-2.279	0 %100
56	M47	Z	3.947	3.947	0 %100
57	M48	X	-.178	-.178	0 %100
58	M48	Z	.309	.309	0 %100
59	M49	X	-2.279	-2.279	0 %100
60	M49	Z	3.947	3.947	0 %100
61	M45A	X	-1.276	-1.276	0 %100
62	M45A	Z	2.211	2.211	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.%,]
63	M46A	X	-1.087	-1.087	0	%100
64	M46A	Z	1.883	1.883	0	%100
65	M47A	X	-1.087	-1.087	0	%100
66	M47A	Z	1.883	1.883	0	%100
67	M48A	X	-1.276	-1.276	0	%100
68	M48A	Z	2.211	2.211	0	%100
69	M49A	X	-1.276	-1.276	0	%100
70	M49A	Z	2.211	2.211	0	%100
71	M50	X	-1.264	-1.264	0	%100
72	M50	Z	2.189	2.189	0	%100
73	M51	X	-1.264	-1.264	0	%100
74	M51	Z	2.189	2.189	0	%100
75	M52	X	-1.276	-1.276	0	%100
76	M52	Z	2.211	2.211	0	%100
77	M53	X	-5.95	-5.95	0	%100
78	M53	Z	10.306	10.306	0	%100
79	M54	X	-5.95	-5.95	0	%100
80	M54	Z	10.306	10.306	0	%100
81	M55	X	-4.849	-4.849	0	%100
82	M55	Z	8.398	8.398	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	-2.1	-2.1	0	%100
2	M1	Z	1.212	1.212	0	%100
3	M2	X	-2.1	-2.1	0	%100
4	M2	Z	1.212	1.212	0	%100
5	MP4A	X	-8.128	-8.128	0	%100
6	MP4A	Z	4.692	4.692	0	%100
7	MP3A	X	-8.128	-8.128	0	%100
8	MP3A	Z	4.692	4.692	0	%100
9	MP2A	X	-8.128	-8.128	0	%100
10	MP2A	Z	4.692	4.692	0	%100
11	MP1A	X	-8.128	-8.128	0	%100
12	MP1A	Z	4.692	4.692	0	%100
13	M17	X	-1.326	-1.326	0	%100
14	M17	Z	.766	.766	0	%100
15	M18	X	-1.326	-1.326	0	%100
16	M18	Z	.766	.766	0	%100
17	M21A	X	-.442	-.442	0	%100
18	M21A	Z	.255	.255	0	%100
19	M22A	X	-.442	-.442	0	%100
20	M22A	Z	.255	.255	0	%100
21	M22	X	-.113	-.113	0	%100
22	M22	Z	.065	.065	0	%100
23	M23	X	-1.729	-1.729	0	%100
24	M23	Z	.998	.998	0	%100
25	M24	X	-.113	-.113	0	%100
26	M24	Z	.065	.065	0	%100
27	M25	X	-1.729	-1.729	0	%100
28	M25	Z	.998	.998	0	%100
29	M26	X	-.255	-.255	0	%100
30	M26	Z	.147	.147	0	%100
31	M27	X	-3.893	-3.893	0	%100
32	M27	Z	2.248	2.248	0	%100
33	M28	X	-.255	-.255	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.%]
34	M28	Z	.147	.147	0	%100
35	M29	X	-3.893	-3.893	0	%100
36	M29	Z	2.248	2.248	0	%100
37	M37	X	-1.326	-1.326	0	%100
38	M37	Z	.766	.766	0	%100
39	M38	X	-1.326	-1.326	0	%100
40	M38	Z	.766	.766	0	%100
41	M39	X	-.442	-.442	0	%100
42	M39	Z	.255	.255	0	%100
43	M40	X	-.442	-.442	0	%100
44	M40	Z	.255	.255	0	%100
45	M42	X	-.113	-.113	0	%100
46	M42	Z	.065	.065	0	%100
47	M43	X	-1.729	-1.729	0	%100
48	M43	Z	.998	.998	0	%100
49	M44	X	-.113	-.113	0	%100
50	M44	Z	.065	.065	0	%100
51	M45	X	-1.729	-1.729	0	%100
52	M45	Z	.998	.998	0	%100
53	M46	X	-.255	-.255	0	%100
54	M46	Z	.147	.147	0	%100
55	M47	X	-3.893	-3.893	0	%100
56	M47	Z	2.248	2.248	0	%100
57	M48	X	-.255	-.255	0	%100
58	M48	Z	.147	.147	0	%100
59	M49	X	-3.893	-3.893	0	%100
60	M49	Z	2.248	2.248	0	%100
61	M45A	X	-2.211	-2.211	0	%100
62	M45A	Z	1.276	1.276	0	%100
63	M46A	X	-1.878	-1.878	0	%100
64	M46A	Z	1.084	1.084	0	%100
65	M47A	X	-1.878	-1.878	0	%100
66	M47A	Z	1.084	1.084	0	%100
67	M48A	X	-2.211	-2.211	0	%100
68	M48A	Z	1.276	1.276	0	%100
69	M49A	X	-2.211	-2.211	0	%100
70	M49A	Z	1.276	1.276	0	%100
71	M50	X	-2.185	-2.185	0	%100
72	M50	Z	1.261	1.261	0	%100
73	M51	X	-2.185	-2.185	0	%100
74	M51	Z	1.261	1.261	0	%100
75	M52	X	-2.211	-2.211	0	%100
76	M52	Z	1.276	1.276	0	%100
77	M53	X	-10.618	-10.618	0	%100
78	M53	Z	6.131	6.131	0	%100
79	M54	X	-10.618	-10.618	0	%100
80	M54	Z	6.131	6.131	0	%100
81	M55	X	-6.402	-6.402	0	%100
82	M55	Z	3.696	3.696	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	0	0	0	%100
4	M2	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.%,]
5	MP4A	X	-9.699	-9.699	0 %100
6	MP4A	Z	0	0	0 %100
7	MP3A	X	-9.699	-9.699	0 %100
8	MP3A	Z	0	0	0 %100
9	MP2A	X	-9.699	-9.699	0 %100
10	MP2A	Z	0	0	0 %100
11	MP1A	X	-9.699	-9.699	0 %100
12	MP1A	Z	0	0	0 %100
13	M17	X	-2.042	-2.042	0 %100
14	M17	Z	0	0	0 %100
15	M18	X	-2.042	-2.042	0 %100
16	M18	Z	0	0	0 %100
17	M21A	X	0	0	0 %100
18	M21A	Z	0	0	0 %100
19	M22A	X	0	0	0 %100
20	M22A	Z	0	0	0 %100
21	M22	X	-1.05	-1.05	0 %100
22	M22	Z	0	0	0 %100
23	M23	X	-1.05	-1.05	0 %100
24	M23	Z	0	0	0 %100
25	M24	X	-1.05	-1.05	0 %100
26	M24	Z	0	0	0 %100
27	M25	X	-1.05	-1.05	0 %100
28	M25	Z	0	0	0 %100
29	M26	X	-2.364	-2.364	0 %100
30	M26	Z	0	0	0 %100
31	M27	X	-2.364	-2.364	0 %100
32	M27	Z	0	0	0 %100
33	M28	X	-2.364	-2.364	0 %100
34	M28	Z	0	0	0 %100
35	M29	X	-2.364	-2.364	0 %100
36	M29	Z	0	0	0 %100
37	M37	X	-2.042	-2.042	0 %100
38	M37	Z	0	0	0 %100
39	M38	X	-2.042	-2.042	0 %100
40	M38	Z	0	0	0 %100
41	M39	X	0	0	0 %100
42	M39	Z	0	0	0 %100
43	M40	X	0	0	0 %100
44	M40	Z	0	0	0 %100
45	M42	X	-1.05	-1.05	0 %100
46	M42	Z	0	0	0 %100
47	M43	X	-1.05	-1.05	0 %100
48	M43	Z	0	0	0 %100
49	M44	X	-1.05	-1.05	0 %100
50	M44	Z	0	0	0 %100
51	M45	X	-1.05	-1.05	0 %100
52	M45	Z	0	0	0 %100
53	M46	X	-2.364	-2.364	0 %100
54	M46	Z	0	0	0 %100
55	M47	X	-2.364	-2.364	0 %100
56	M47	Z	0	0	0 %100
57	M48	X	-2.364	-2.364	0 %100
58	M48	Z	0	0	0 %100
59	M49	X	-2.364	-2.364	0 %100
60	M49	Z	0	0	0 %100
61	M45A	X	-2.552	-2.552	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.%]
62	M45A	Z	0	0	0	%100
63	M46A	X	-2.343	-2.343	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	-2.343	-2.343	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	-2.552	-2.552	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	-2.552	-2.552	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	-2.343	-2.343	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	-2.343	-2.343	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	-2.552	-2.552	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	-12.441	-12.441	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	-12.441	-12.441	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	-2.545	-2.545	0	%100
82	M55	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	-2.1	-2.1	0	%100
2	M1	Z	-1.212	-1.212	0	%100
3	M2	X	-2.1	-2.1	0	%100
4	M2	Z	-1.212	-1.212	0	%100
5	MP4A	X	-8.128	-8.128	0	%100
6	MP4A	Z	-4.692	-4.692	0	%100
7	MP3A	X	-8.128	-8.128	0	%100
8	MP3A	Z	-4.692	-4.692	0	%100
9	MP2A	X	-8.128	-8.128	0	%100
10	MP2A	Z	-4.692	-4.692	0	%100
11	MP1A	X	-8.128	-8.128	0	%100
12	MP1A	Z	-4.692	-4.692	0	%100
13	M17	X	-1.326	-1.326	0	%100
14	M17	Z	-.766	-.766	0	%100
15	M18	X	-1.326	-1.326	0	%100
16	M18	Z	-.766	-.766	0	%100
17	M21A	X	-.442	-.442	0	%100
18	M21A	Z	-.255	-.255	0	%100
19	M22A	X	-.442	-.442	0	%100
20	M22A	Z	-.255	-.255	0	%100
21	M22	X	-1.729	-1.729	0	%100
22	M22	Z	-.998	-.998	0	%100
23	M23	X	-.113	-.113	0	%100
24	M23	Z	-.065	-.065	0	%100
25	M24	X	-1.729	-1.729	0	%100
26	M24	Z	-.998	-.998	0	%100
27	M25	X	-.113	-.113	0	%100
28	M25	Z	-.065	-.065	0	%100
29	M26	X	-3.893	-3.893	0	%100
30	M26	Z	-2.248	-2.248	0	%100
31	M27	X	-.255	-.255	0	%100
32	M27	Z	-.147	-.147	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, %]
33	M28	X	-3.893	-3.893	0 %100
34	M28	Z	-2.248	-2.248	0 %100
35	M29	X	-.255	-.255	0 %100
36	M29	Z	-.147	-.147	0 %100
37	M37	X	-1.326	-1.326	0 %100
38	M37	Z	-.766	-.766	0 %100
39	M38	X	-1.326	-1.326	0 %100
40	M38	Z	-.766	-.766	0 %100
41	M39	X	-.442	-.442	0 %100
42	M39	Z	-.255	-.255	0 %100
43	M40	X	-.442	-.442	0 %100
44	M40	Z	-.255	-.255	0 %100
45	M42	X	-1.729	-1.729	0 %100
46	M42	Z	-.998	-.998	0 %100
47	M43	X	-.113	-.113	0 %100
48	M43	Z	-.065	-.065	0 %100
49	M44	X	-1.729	-1.729	0 %100
50	M44	Z	-.998	-.998	0 %100
51	M45	X	-.113	-.113	0 %100
52	M45	Z	-.065	-.065	0 %100
53	M46	X	-3.893	-3.893	0 %100
54	M46	Z	-2.248	-2.248	0 %100
55	M47	X	-.255	-.255	0 %100
56	M47	Z	-.147	-.147	0 %100
57	M48	X	-3.893	-3.893	0 %100
58	M48	Z	-2.248	-2.248	0 %100
59	M49	X	-.255	-.255	0 %100
60	M49	Z	-.147	-.147	0 %100
61	M45A	X	-2.211	-2.211	0 %100
62	M45A	Z	-1.276	-1.276	0 %100
63	M46A	X	-2.185	-2.185	0 %100
64	M46A	Z	-1.261	-1.261	0 %100
65	M47A	X	-2.185	-2.185	0 %100
66	M47A	Z	-1.261	-1.261	0 %100
67	M48A	X	-2.211	-2.211	0 %100
68	M48A	Z	-1.276	-1.276	0 %100
69	M49A	X	-2.211	-2.211	0 %100
70	M49A	Z	-1.276	-1.276	0 %100
71	M50	X	-1.878	-1.878	0 %100
72	M50	Z	-1.084	-1.084	0 %100
73	M51	X	-1.878	-1.878	0 %100
74	M51	Z	-1.084	-1.084	0 %100
75	M52	X	-2.211	-2.211	0 %100
76	M52	Z	-1.276	-1.276	0 %100
77	M53	X	-10.618	-10.618	0 %100
78	M53	Z	-6.131	-6.131	0 %100
79	M54	X	-10.618	-10.618	0 %100
80	M54	Z	-6.131	-6.131	0 %100
81	M55	X	-.002	-.002	0 %100
82	M55	Z	-.000975	-.000975	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	-3.637	-3.637	0 %100
2	M1	Z	-6.3	-6.3	0 %100
3	M2	X	-3.637	-3.637	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.%]
4	M2	Z	-6.3	-6.3	0 %100
5	MP4A	X	-4.378	-4.378	0 %100
6	MP4A	Z	-7.583	-7.583	0 %100
7	MP3A	X	-4.378	-4.378	0 %100
8	MP3A	Z	-7.583	-7.583	0 %100
9	MP2A	X	-4.378	-4.378	0 %100
10	MP2A	Z	-7.583	-7.583	0 %100
11	MP1A	X	-4.378	-4.378	0 %100
12	MP1A	Z	-7.583	-7.583	0 %100
13	M17	X	-255	-255	0 %100
14	M17	Z	-442	-442	0 %100
15	M18	X	-255	-255	0 %100
16	M18	Z	-442	-442	0 %100
17	M21A	X	-766	-766	0 %100
18	M21A	Z	-1.326	-1.326	0 %100
19	M22A	X	-766	-766	0 %100
20	M22A	Z	-1.326	-1.326	0 %100
21	M22	X	-1.012	-1.012	0 %100
22	M22	Z	-1.753	-1.753	0 %100
23	M23	X	-079	-079	0 %100
24	M23	Z	-137	-137	0 %100
25	M24	X	-1.012	-1.012	0 %100
26	M24	Z	-1.753	-1.753	0 %100
27	M25	X	-079	-079	0 %100
28	M25	Z	-137	-137	0 %100
29	M26	X	-2.279	-2.279	0 %100
30	M26	Z	-3.947	-3.947	0 %100
31	M27	X	-178	-178	0 %100
32	M27	Z	-309	-309	0 %100
33	M28	X	-2.279	-2.279	0 %100
34	M28	Z	-3.947	-3.947	0 %100
35	M29	X	-178	-178	0 %100
36	M29	Z	-309	-309	0 %100
37	M37	X	-255	-255	0 %100
38	M37	Z	-442	-442	0 %100
39	M38	X	-255	-255	0 %100
40	M38	Z	-442	-442	0 %100
41	M39	X	-766	-766	0 %100
42	M39	Z	-1.326	-1.326	0 %100
43	M40	X	-766	-766	0 %100
44	M40	Z	-1.326	-1.326	0 %100
45	M42	X	-1.012	-1.012	0 %100
46	M42	Z	-1.753	-1.753	0 %100
47	M43	X	-079	-079	0 %100
48	M43	Z	-137	-137	0 %100
49	M44	X	-1.012	-1.012	0 %100
50	M44	Z	-1.753	-1.753	0 %100
51	M45	X	-079	-079	0 %100
52	M45	Z	-137	-137	0 %100
53	M46	X	-2.279	-2.279	0 %100
54	M46	Z	-3.947	-3.947	0 %100
55	M47	X	-178	-178	0 %100
56	M47	Z	-309	-309	0 %100
57	M48	X	-2.279	-2.279	0 %100
58	M48	Z	-3.947	-3.947	0 %100
59	M49	X	-178	-178	0 %100
60	M49	Z	-309	-309	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.%,]
61	M45A	X	-1.276	-1.276	0	%100
62	M45A	Z	-2.211	-2.211	0	%100
63	M46A	X	-1.264	-1.264	0	%100
64	M46A	Z	-2.189	-2.189	0	%100
65	M47A	X	-1.264	-1.264	0	%100
66	M47A	Z	-2.189	-2.189	0	%100
67	M48A	X	-1.276	-1.276	0	%100
68	M48A	Z	-2.211	-2.211	0	%100
69	M49A	X	-1.276	-1.276	0	%100
70	M49A	Z	-2.211	-2.211	0	%100
71	M50	X	-1.087	-1.087	0	%100
72	M50	Z	-1.883	-1.883	0	%100
73	M51	X	-1.087	-1.087	0	%100
74	M51	Z	-1.883	-1.883	0	%100
75	M52	X	-1.276	-1.276	0	%100
76	M52	Z	-2.211	-2.211	0	%100
77	M53	X	-5.95	-5.95	0	%100
78	M53	Z	-10.306	-10.306	0	%100
79	M54	X	-5.95	-5.95	0	%100
80	M54	Z	-10.306	-10.306	0	%100
81	M55	X	-1.153	-1.153	0	%100
82	M55	Z	-1.998	-1.998	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	-4.369	-4.369	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-4.369	-4.369	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-4.139	-4.139	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-4.139	-4.139	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-4.139	-4.139	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-4.139	-4.139	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	-1.887	-1.887	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	-1.887	-1.887	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	-1.002	-1.002	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-1.002	-1.002	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	-1.002	-1.002	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-1.002	-1.002	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	-1.283	-1.283	0	%100
31	M27	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.%]
32	M27	Z	-1.283	-1.283	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	-1.283	-1.283	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	-1.283	-1.283	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	-1.887	-1.887	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	-1.887	-1.887	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	-1.002	-1.002	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-1.002	-1.002	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	-1.002	-1.002	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	-1.002	-1.002	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	-1.283	-1.283	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	-1.283	-1.283	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	-1.283	-1.283	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	-1.283	-1.283	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	-2.275	-2.275	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	-2.133	-2.133	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	-2.133	-2.133	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	-2.275	-2.275	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	-2.275	-2.275	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	-2.133	-2.133	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	-2.133	-2.133	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	-2.275	-2.275	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	-4.45	-4.45	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	-4.45	-4.45	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	-3.219	-3.219	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	1.638	1.638	0	%100
2	M1	Z	-2.838	-2.838	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.%,]
60	M49	Z	-2.036	-2.036	0	%100
61	M45A	X	1.138	1.138	0	%100
62	M45A	Z	-1.97	-1.97	0	%100
63	M46A	X	.985	.985	0	%100
64	M46A	Z	-1.706	-1.706	0	%100
65	M47A	X	.985	.985	0	%100
66	M47A	Z	-1.706	-1.706	0	%100
67	M48A	X	1.138	1.138	0	%100
68	M48A	Z	-1.97	-1.97	0	%100
69	M49A	X	1.138	1.138	0	%100
70	M49A	Z	-1.97	-1.97	0	%100
71	M50	X	1.145	1.145	0	%100
72	M50	Z	-1.984	-1.984	0	%100
73	M51	X	1.145	1.145	0	%100
74	M51	Z	-1.984	-1.984	0	%100
75	M52	X	1.138	1.138	0	%100
76	M52	Z	-1.97	-1.97	0	%100
77	M53	X	2.247	2.247	0	%100
78	M53	Z	-3.891	-3.891	0	%100
79	M54	X	2.247	2.247	0	%100
80	M54	Z	-3.891	-3.891	0	%100
81	M55	X	2.181	2.181	0	%100
82	M55	Z	-3.778	-3.778	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	.946	.946	0	%100
2	M1	Z	-.546	-.546	0	%100
3	M2	X	.946	.946	0	%100
4	M2	Z	-.546	-.546	0	%100
5	MP4A	X	3.734	3.734	0	%100
6	MP4A	Z	-2.156	-2.156	0	%100
7	MP3A	X	3.734	3.734	0	%100
8	MP3A	Z	-2.156	-2.156	0	%100
9	MP2A	X	3.734	3.734	0	%100
10	MP2A	Z	-2.156	-2.156	0	%100
11	MP1A	X	3.734	3.734	0	%100
12	MP1A	Z	-2.156	-2.156	0	%100
13	M17	X	1.226	1.226	0	%100
14	M17	Z	-.708	-.708	0	%100
15	M18	X	1.226	1.226	0	%100
16	M18	Z	-.708	-.708	0	%100
17	M21A	X	.409	.409	0	%100
18	M21A	Z	-.236	-.236	0	%100
19	M22A	X	.409	.409	0	%100
20	M22A	Z	-.236	-.236	0	%100
21	M22	X	.103	.103	0	%100
22	M22	Z	-.059	-.059	0	%100
23	M23	X	1.568	1.568	0	%100
24	M23	Z	-.905	-.905	0	%100
25	M24	X	.103	.103	0	%100
26	M24	Z	-.059	-.059	0	%100
27	M25	X	1.568	1.568	0	%100
28	M25	Z	-.905	-.905	0	%100
29	M26	X	.132	.132	0	%100
30	M26	Z	-.076	-.076	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.%]
31	M27	X	2.008	2.008	0	%100
32	M27	Z	-1.159	-1.159	0	%100
33	M28	X	.132	.132	0	%100
34	M28	Z	-.076	-.076	0	%100
35	M29	X	2.008	2.008	0	%100
36	M29	Z	-1.159	-1.159	0	%100
37	M37	X	1.226	1.226	0	%100
38	M37	Z	-.708	-.708	0	%100
39	M38	X	1.226	1.226	0	%100
40	M38	Z	-.708	-.708	0	%100
41	M39	X	.409	.409	0	%100
42	M39	Z	-.236	-.236	0	%100
43	M40	X	.409	.409	0	%100
44	M40	Z	-.236	-.236	0	%100
45	M42	X	.103	.103	0	%100
46	M42	Z	-.059	-.059	0	%100
47	M43	X	1.568	1.568	0	%100
48	M43	Z	-.905	-.905	0	%100
49	M44	X	.103	.103	0	%100
50	M44	Z	-.059	-.059	0	%100
51	M45	X	1.568	1.568	0	%100
52	M45	Z	-.905	-.905	0	%100
53	M46	X	.132	.132	0	%100
54	M46	Z	-.076	-.076	0	%100
55	M47	X	2.008	2.008	0	%100
56	M47	Z	-1.159	-1.159	0	%100
57	M48	X	.132	.132	0	%100
58	M48	Z	-.076	-.076	0	%100
59	M49	X	2.008	2.008	0	%100
60	M49	Z	-1.159	-1.159	0	%100
61	M45A	X	1.97	1.97	0	%100
62	M45A	Z	-1.138	-1.138	0	%100
63	M46A	X	1.702	1.702	0	%100
64	M46A	Z	-.983	-.983	0	%100
65	M47A	X	1.702	1.702	0	%100
66	M47A	Z	-.983	-.983	0	%100
67	M48A	X	1.97	1.97	0	%100
68	M48A	Z	-1.138	-1.138	0	%100
69	M49A	X	1.97	1.97	0	%100
70	M49A	Z	-1.138	-1.138	0	%100
71	M50	X	1.98	1.98	0	%100
72	M50	Z	-1.143	-1.143	0	%100
73	M51	X	1.98	1.98	0	%100
74	M51	Z	-1.143	-1.143	0	%100
75	M52	X	1.97	1.97	0	%100
76	M52	Z	-1.138	-1.138	0	%100
77	M53	X	3.966	3.966	0	%100
78	M53	Z	-2.29	-2.29	0	%100
79	M54	X	3.966	3.966	0	%100
80	M54	Z	-2.29	-2.29	0	%100
81	M55	X	2.88	2.88	0	%100
82	M55	Z	-1.663	-1.663	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



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.%]
2	M1	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	MP4A	X	4.369	4.369	%100
6	MP4A	Z	0	0	%100
7	MP3A	X	4.369	4.369	%100
8	MP3A	Z	0	0	%100
9	MP2A	X	4.369	4.369	%100
10	MP2A	Z	0	0	%100
11	MP1A	X	4.369	4.369	%100
12	MP1A	Z	0	0	%100
13	M17	X	1.887	1.887	%100
14	M17	Z	0	0	%100
15	M18	X	1.887	1.887	%100
16	M18	Z	0	0	%100
17	M21A	X	0	0	%100
18	M21A	Z	0	0	%100
19	M22A	X	0	0	%100
20	M22A	Z	0	0	%100
21	M22	X	.952	.952	%100
22	M22	Z	0	0	%100
23	M23	X	.952	.952	%100
24	M23	Z	0	0	%100
25	M24	X	.952	.952	%100
26	M24	Z	0	0	%100
27	M25	X	.952	.952	%100
28	M25	Z	0	0	%100
29	M26	X	1.219	1.219	%100
30	M26	Z	0	0	%100
31	M27	X	1.219	1.219	%100
32	M27	Z	0	0	%100
33	M28	X	1.219	1.219	%100
34	M28	Z	0	0	%100
35	M29	X	1.219	1.219	%100
36	M29	Z	0	0	%100
37	M37	X	1.887	1.887	%100
38	M37	Z	0	0	%100
39	M38	X	1.887	1.887	%100
40	M38	Z	0	0	%100
41	M39	X	0	0	%100
42	M39	Z	0	0	%100
43	M40	X	0	0	%100
44	M40	Z	0	0	%100
45	M42	X	.952	.952	%100
46	M42	Z	0	0	%100
47	M43	X	.952	.952	%100
48	M43	Z	0	0	%100
49	M44	X	.952	.952	%100
50	M44	Z	0	0	%100
51	M45	X	.952	.952	%100
52	M45	Z	0	0	%100
53	M46	X	1.219	1.219	%100
54	M46	Z	0	0	%100
55	M47	X	1.219	1.219	%100
56	M47	Z	0	0	%100
57	M48	X	1.219	1.219	%100
58	M48	Z	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.%,]
59	M49	X	1.219	1.219	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	2.275	2.275	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	2.123	2.123	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	2.123	2.123	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	2.275	2.275	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	2.275	2.275	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	2.123	2.123	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	2.123	2.123	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	2.275	2.275	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	4.623	4.623	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	4.623	4.623	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	1.145	1.145	0	%100
82	M55	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	.946	.946	0	%100
2	M1	Z	.546	.546	0	%100
3	M2	X	.946	.946	0	%100
4	M2	Z	.546	.546	0	%100
5	MP4A	X	3.734	3.734	0	%100
6	MP4A	Z	2.156	2.156	0	%100
7	MP3A	X	3.734	3.734	0	%100
8	MP3A	Z	2.156	2.156	0	%100
9	MP2A	X	3.734	3.734	0	%100
10	MP2A	Z	2.156	2.156	0	%100
11	MP1A	X	3.734	3.734	0	%100
12	MP1A	Z	2.156	2.156	0	%100
13	M17	X	1.226	1.226	0	%100
14	M17	Z	.708	.708	0	%100
15	M18	X	1.226	1.226	0	%100
16	M18	Z	.708	.708	0	%100
17	M21A	X	.409	.409	0	%100
18	M21A	Z	.236	.236	0	%100
19	M22A	X	.409	.409	0	%100
20	M22A	Z	.236	.236	0	%100
21	M22	X	1.568	1.568	0	%100
22	M22	Z	.905	.905	0	%100
23	M23	X	.103	.103	0	%100
24	M23	Z	.059	.059	0	%100
25	M24	X	1.568	1.568	0	%100
26	M24	Z	.905	.905	0	%100
27	M25	X	.103	.103	0	%100
28	M25	Z	.059	.059	0	%100
29	M26	X	2.008	2.008	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,%]
1	M1	X	1.638	1.638	0	%100
2	M1	Z	2.838	2.838	0	%100
3	M2	X	1.638	1.638	0	%100
4	M2	Z	2.838	2.838	0	%100
5	MP4A	X	2.098	2.098	0	%100
6	MP4A	Z	3.634	3.634	0	%100
7	MP3A	X	2.098	2.098	0	%100
8	MP3A	Z	3.634	3.634	0	%100
9	MP2A	X	2.098	2.098	0	%100
10	MP2A	Z	3.634	3.634	0	%100
11	MP1A	X	2.098	2.098	0	%100
12	MP1A	Z	3.634	3.634	0	%100
13	M17	X	.236	.236	0	%100
14	M17	Z	.409	.409	0	%100
15	M18	X	.236	.236	0	%100
16	M18	Z	.409	.409	0	%100
17	M21A	X	.708	.708	0	%100
18	M21A	Z	1.226	1.226	0	%100
19	M22A	X	.708	.708	0	%100
20	M22A	Z	1.226	1.226	0	%100
21	M22	X	.918	.918	0	%100
22	M22	Z	1.59	1.59	0	%100
23	M23	X	.072	.072	0	%100
24	M23	Z	.124	.124	0	%100
25	M24	X	.918	.918	0	%100
26	M24	Z	1.59	1.59	0	%100
27	M25	X	.072	.072	0	%100
28	M25	Z	.124	.124	0	%100
29	M26	X	1.175	1.175	0	%100
30	M26	Z	2.036	2.036	0	%100
31	M27	X	.092	.092	0	%100
32	M27	Z	.159	.159	0	%100
33	M28	X	1.175	1.175	0	%100
34	M28	Z	2.036	2.036	0	%100
35	M29	X	.092	.092	0	%100
36	M29	Z	.159	.159	0	%100
37	M37	X	.236	.236	0	%100
38	M37	Z	.409	.409	0	%100
39	M38	X	.236	.236	0	%100
40	M38	Z	.409	.409	0	%100
41	M39	X	.708	.708	0	%100
42	M39	Z	1.226	1.226	0	%100
43	M40	X	.708	.708	0	%100
44	M40	Z	1.226	1.226	0	%100
45	M42	X	.918	.918	0	%100
46	M42	Z	1.59	1.59	0	%100
47	M43	X	.072	.072	0	%100
48	M43	Z	.124	.124	0	%100
49	M44	X	.918	.918	0	%100
50	M44	Z	1.59	1.59	0	%100
51	M45	X	.072	.072	0	%100
52	M45	Z	.124	.124	0	%100
53	M46	X	1.175	1.175	0	%100
54	M46	Z	2.036	2.036	0	%100
55	M47	X	.092	.092	0	%100
56	M47	Z	.159	.159	0	%100
57	M48	X	1.175	1.175	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.%,]
58	M48	Z	2.036	2.036	0	%100
59	M49	X	.092	.092	0	%100
60	M49	Z	.159	.159	0	%100
61	M45A	X	1.138	1.138	0	%100
62	M45A	Z	1.97	1.97	0	%100
63	M46A	X	1.145	1.145	0	%100
64	M46A	Z	1.984	1.984	0	%100
65	M47A	X	1.145	1.145	0	%100
66	M47A	Z	1.984	1.984	0	%100
67	M48A	X	1.138	1.138	0	%100
68	M48A	Z	1.97	1.97	0	%100
69	M49A	X	1.138	1.138	0	%100
70	M49A	Z	1.97	1.97	0	%100
71	M50	X	.985	.985	0	%100
72	M50	Z	1.706	1.706	0	%100
73	M51	X	.985	.985	0	%100
74	M51	Z	1.706	1.706	0	%100
75	M52	X	1.138	1.138	0	%100
76	M52	Z	1.97	1.97	0	%100
77	M53	X	2.247	2.247	0	%100
78	M53	Z	3.891	3.891	0	%100
79	M54	X	2.247	2.247	0	%100
80	M54	Z	3.891	3.891	0	%100
81	M55	X	.519	.519	0	%100
82	M55	Z	.899	.899	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	4.369	4.369	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	4.369	4.369	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	4.139	4.139	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	4.139	4.139	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	4.139	4.139	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	4.139	4.139	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	1.887	1.887	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	1.887	1.887	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	1.002	1.002	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	1.002	1.002	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	1.002	1.002	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	1.002	1.002	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.%]
29	M26	X	0	0	0	%100
30	M26	Z	1.283	1.283	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	1.283	1.283	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	1.283	1.283	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	1.283	1.283	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	1.887	1.887	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	1.887	1.887	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	1.002	1.002	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	1.002	1.002	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	1.002	1.002	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	1.002	1.002	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	1.283	1.283	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	1.283	1.283	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	1.283	1.283	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	1.283	1.283	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	2.275	2.275	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	2.133	2.133	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	2.133	2.133	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	2.275	2.275	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	2.275	2.275	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	2.133	2.133	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	2.133	2.133	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	2.275	2.275	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	4.45	4.45	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	4.45	4.45	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	3.219	3.219	0	%100

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



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.%,]
1	M1	X	-1.638	-1.638	0 %100
2	M1	Z	2.838	2.838	0 %100
3	M2	X	-1.638	-1.638	0 %100
4	M2	Z	2.838	2.838	0 %100
5	MP4A	X	-2.098	-2.098	0 %100
6	MP4A	Z	3.634	3.634	0 %100
7	MP3A	X	-2.098	-2.098	0 %100
8	MP3A	Z	3.634	3.634	0 %100
9	MP2A	X	-2.098	-2.098	0 %100
10	MP2A	Z	3.634	3.634	0 %100
11	MP1A	X	-2.098	-2.098	0 %100
12	MP1A	Z	3.634	3.634	0 %100
13	M17	X	-.236	-.236	0 %100
14	M17	Z	.409	.409	0 %100
15	M18	X	-.236	-.236	0 %100
16	M18	Z	.409	.409	0 %100
17	M21A	X	-.708	-.708	0 %100
18	M21A	Z	1.226	1.226	0 %100
19	M22A	X	-.708	-.708	0 %100
20	M22A	Z	1.226	1.226	0 %100
21	M22	X	-.072	-.072	0 %100
22	M22	Z	.124	.124	0 %100
23	M23	X	-.918	-.918	0 %100
24	M23	Z	1.59	1.59	0 %100
25	M24	X	-.072	-.072	0 %100
26	M24	Z	.124	.124	0 %100
27	M25	X	-.918	-.918	0 %100
28	M25	Z	1.59	1.59	0 %100
29	M26	X	-.092	-.092	0 %100
30	M26	Z	.159	.159	0 %100
31	M27	X	-1.175	-1.175	0 %100
32	M27	Z	2.036	2.036	0 %100
33	M28	X	-.092	-.092	0 %100
34	M28	Z	.159	.159	0 %100
35	M29	X	-1.175	-1.175	0 %100
36	M29	Z	2.036	2.036	0 %100
37	M37	X	-.236	-.236	0 %100
38	M37	Z	.409	.409	0 %100
39	M38	X	-.236	-.236	0 %100
40	M38	Z	.409	.409	0 %100
41	M39	X	-.708	-.708	0 %100
42	M39	Z	1.226	1.226	0 %100
43	M40	X	-.708	-.708	0 %100
44	M40	Z	1.226	1.226	0 %100
45	M42	X	-.072	-.072	0 %100
46	M42	Z	.124	.124	0 %100
47	M43	X	-.918	-.918	0 %100
48	M43	Z	1.59	1.59	0 %100
49	M44	X	-.072	-.072	0 %100
50	M44	Z	.124	.124	0 %100
51	M45	X	-.918	-.918	0 %100
52	M45	Z	1.59	1.59	0 %100
53	M46	X	-.092	-.092	0 %100
54	M46	Z	.159	.159	0 %100
55	M47	X	-1.175	-1.175	0 %100
56	M47	Z	2.036	2.036	0 %100
57	M48	X	-.092	-.092	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.%,]
58	M48	Z	.159	.159	0	%100
59	M49	X	-1.175	-1.175	0	%100
60	M49	Z	2.036	2.036	0	%100
61	M45A	X	-1.138	-1.138	0	%100
62	M45A	Z	1.97	1.97	0	%100
63	M46A	X	-.985	-.985	0	%100
64	M46A	Z	1.706	1.706	0	%100
65	M47A	X	-.985	-.985	0	%100
66	M47A	Z	1.706	1.706	0	%100
67	M48A	X	-1.138	-1.138	0	%100
68	M48A	Z	1.97	1.97	0	%100
69	M49A	X	-1.138	-1.138	0	%100
70	M49A	Z	1.97	1.97	0	%100
71	M50	X	-1.145	-1.145	0	%100
72	M50	Z	1.984	1.984	0	%100
73	M51	X	-1.145	-1.145	0	%100
74	M51	Z	1.984	1.984	0	%100
75	M52	X	-1.138	-1.138	0	%100
76	M52	Z	1.97	1.97	0	%100
77	M53	X	-2.247	-2.247	0	%100
78	M53	Z	3.891	3.891	0	%100
79	M54	X	-2.247	-2.247	0	%100
80	M54	Z	3.891	3.891	0	%100
81	M55	X	-2.181	-2.181	0	%100
82	M55	Z	3.778	3.778	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	-.946	-.946	0	%100
2	M1	Z	.546	.546	0	%100
3	M2	X	-.946	-.946	0	%100
4	M2	Z	.546	.546	0	%100
5	MP4A	X	-3.734	-3.734	0	%100
6	MP4A	Z	2.156	2.156	0	%100
7	MP3A	X	-3.734	-3.734	0	%100
8	MP3A	Z	2.156	2.156	0	%100
9	MP2A	X	-3.734	-3.734	0	%100
10	MP2A	Z	2.156	2.156	0	%100
11	MP1A	X	-3.734	-3.734	0	%100
12	MP1A	Z	2.156	2.156	0	%100
13	M17	X	-1.226	-1.226	0	%100
14	M17	Z	.708	.708	0	%100
15	M18	X	-1.226	-1.226	0	%100
16	M18	Z	.708	.708	0	%100
17	M21A	X	-.409	-.409	0	%100
18	M21A	Z	.236	.236	0	%100
19	M22A	X	-.409	-.409	0	%100
20	M22A	Z	.236	.236	0	%100
21	M22	X	-.103	-.103	0	%100
22	M22	Z	.059	.059	0	%100
23	M23	X	-1.568	-1.568	0	%100
24	M23	Z	.905	.905	0	%100
25	M24	X	-.103	-.103	0	%100
26	M24	Z	.059	.059	0	%100
27	M25	X	-1.568	-1.568	0	%100
28	M25	Z	.905	.905	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.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	-4.369	-4.369	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-4.369	-4.369	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	-4.369	-4.369	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	-4.369	-4.369	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	-1.887	-1.887	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-1.887	-1.887	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	-.952	-.952	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	-.952	-.952	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	-.952	-.952	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	-.952	-.952	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-1.219	-1.219	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-1.219	-1.219	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-1.219	-1.219	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	-1.219	-1.219	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	-1.887	-1.887	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	-1.887	-1.887	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	-.952	-.952	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	-.952	-.952	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	-.952	-.952	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	-.952	-.952	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	-1.219	-1.219	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	-1.219	-1.219	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	-1.219	-1.219	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.%,]
58	M48	Z	0	0	%100
59	M49	X	-1.219	-1.219	%100
60	M49	Z	0	0	%100
61	M45A	X	-2.275	-2.275	%100
62	M45A	Z	0	0	%100
63	M46A	X	-2.123	-2.123	%100
64	M46A	Z	0	0	%100
65	M47A	X	-2.123	-2.123	%100
66	M47A	Z	0	0	%100
67	M48A	X	-2.275	-2.275	%100
68	M48A	Z	0	0	%100
69	M49A	X	-2.275	-2.275	%100
70	M49A	Z	0	0	%100
71	M50	X	-2.123	-2.123	%100
72	M50	Z	0	0	%100
73	M51	X	-2.123	-2.123	%100
74	M51	Z	0	0	%100
75	M52	X	-2.275	-2.275	%100
76	M52	Z	0	0	%100
77	M53	X	-4.623	-4.623	%100
78	M53	Z	0	0	%100
79	M54	X	-4.623	-4.623	%100
80	M54	Z	0	0	%100
81	M55	X	-1.145	-1.145	%100
82	M55	Z	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	-.946	-.946	%100
2	M1	Z	-.546	-.546	%100
3	M2	X	-.946	-.946	%100
4	M2	Z	-.546	-.546	%100
5	MP4A	X	-3.734	-3.734	%100
6	MP4A	Z	-2.156	-2.156	%100
7	MP3A	X	-3.734	-3.734	%100
8	MP3A	Z	-2.156	-2.156	%100
9	MP2A	X	-3.734	-3.734	%100
10	MP2A	Z	-2.156	-2.156	%100
11	MP1A	X	-3.734	-3.734	%100
12	MP1A	Z	-2.156	-2.156	%100
13	M17	X	-1.226	-1.226	%100
14	M17	Z	-.708	-.708	%100
15	M18	X	-1.226	-1.226	%100
16	M18	Z	-.708	-.708	%100
17	M21A	X	-.409	-.409	%100
18	M21A	Z	-.236	-.236	%100
19	M22A	X	-.409	-.409	%100
20	M22A	Z	-.236	-.236	%100
21	M22	X	-1.568	-1.568	%100
22	M22	Z	-.905	-.905	%100
23	M23	X	-.103	-.103	%100
24	M23	Z	-.059	-.059	%100
25	M24	X	-1.568	-1.568	%100
26	M24	Z	-.905	-.905	%100
27	M25	X	-.103	-.103	%100
28	M25	Z	-.059	-.059	%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.%]
29	M26	X	-2.008	-2.008	0	%100
30	M26	Z	-1.159	-1.159	0	%100
31	M27	X	-.132	-.132	0	%100
32	M27	Z	-.076	-.076	0	%100
33	M28	X	-2.008	-2.008	0	%100
34	M28	Z	-1.159	-1.159	0	%100
35	M29	X	-.132	-.132	0	%100
36	M29	Z	-.076	-.076	0	%100
37	M37	X	-1.226	-1.226	0	%100
38	M37	Z	-.708	-.708	0	%100
39	M38	X	-1.226	-1.226	0	%100
40	M38	Z	-.708	-.708	0	%100
41	M39	X	-.409	-.409	0	%100
42	M39	Z	-.236	-.236	0	%100
43	M40	X	-.409	-.409	0	%100
44	M40	Z	-.236	-.236	0	%100
45	M42	X	-1.568	-1.568	0	%100
46	M42	Z	-.905	-.905	0	%100
47	M43	X	-.103	-.103	0	%100
48	M43	Z	-.059	-.059	0	%100
49	M44	X	-1.568	-1.568	0	%100
50	M44	Z	-.905	-.905	0	%100
51	M45	X	-.103	-.103	0	%100
52	M45	Z	-.059	-.059	0	%100
53	M46	X	-2.008	-2.008	0	%100
54	M46	Z	-1.159	-1.159	0	%100
55	M47	X	-.132	-.132	0	%100
56	M47	Z	-.076	-.076	0	%100
57	M48	X	-2.008	-2.008	0	%100
58	M48	Z	-1.159	-1.159	0	%100
59	M49	X	-.132	-.132	0	%100
60	M49	Z	-.076	-.076	0	%100
61	M45A	X	-1.97	-1.97	0	%100
62	M45A	Z	-1.138	-1.138	0	%100
63	M46A	X	-1.98	-1.98	0	%100
64	M46A	Z	-1.143	-1.143	0	%100
65	M47A	X	-1.98	-1.98	0	%100
66	M47A	Z	-1.143	-1.143	0	%100
67	M48A	X	-1.97	-1.97	0	%100
68	M48A	Z	-1.138	-1.138	0	%100
69	M49A	X	-1.97	-1.97	0	%100
70	M49A	Z	-1.138	-1.138	0	%100
71	M50	X	-1.702	-1.702	0	%100
72	M50	Z	-.983	-.983	0	%100
73	M51	X	-1.702	-1.702	0	%100
74	M51	Z	-.983	-.983	0	%100
75	M52	X	-1.97	-1.97	0	%100
76	M52	Z	-1.138	-1.138	0	%100
77	M53	X	-3.966	-3.966	0	%100
78	M53	Z	-2.29	-2.29	0	%100
79	M54	X	-3.966	-3.966	0	%100
80	M54	Z	-2.29	-2.29	0	%100
81	M55	X	-.00076	-.00076	0	%100
82	M55	Z	-.000439	-.000439	0	%100

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



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.%,]
1	M1	X	-1.638	-1.638	0 %100
2	M1	Z	-2.838	-2.838	0 %100
3	M2	X	-1.638	-1.638	0 %100
4	M2	Z	-2.838	-2.838	0 %100
5	MP4A	X	-2.098	-2.098	0 %100
6	MP4A	Z	-3.634	-3.634	0 %100
7	MP3A	X	-2.098	-2.098	0 %100
8	MP3A	Z	-3.634	-3.634	0 %100
9	MP2A	X	-2.098	-2.098	0 %100
10	MP2A	Z	-3.634	-3.634	0 %100
11	MP1A	X	-2.098	-2.098	0 %100
12	MP1A	Z	-3.634	-3.634	0 %100
13	M17	X	-.236	-.236	0 %100
14	M17	Z	-.409	-.409	0 %100
15	M18	X	-.236	-.236	0 %100
16	M18	Z	-.409	-.409	0 %100
17	M21A	X	-.708	-.708	0 %100
18	M21A	Z	-1.226	-1.226	0 %100
19	M22A	X	-.708	-.708	0 %100
20	M22A	Z	-1.226	-1.226	0 %100
21	M22	X	-.918	-.918	0 %100
22	M22	Z	-1.59	-1.59	0 %100
23	M23	X	-.072	-.072	0 %100
24	M23	Z	-.124	-.124	0 %100
25	M24	X	-.918	-.918	0 %100
26	M24	Z	-1.59	-1.59	0 %100
27	M25	X	-.072	-.072	0 %100
28	M25	Z	-.124	-.124	0 %100
29	M26	X	-1.175	-1.175	0 %100
30	M26	Z	-2.036	-2.036	0 %100
31	M27	X	-.092	-.092	0 %100
32	M27	Z	-.159	-.159	0 %100
33	M28	X	-1.175	-1.175	0 %100
34	M28	Z	-2.036	-2.036	0 %100
35	M29	X	-.092	-.092	0 %100
36	M29	Z	-.159	-.159	0 %100
37	M37	X	-.236	-.236	0 %100
38	M37	Z	-.409	-.409	0 %100
39	M38	X	-.236	-.236	0 %100
40	M38	Z	-.409	-.409	0 %100
41	M39	X	-.708	-.708	0 %100
42	M39	Z	-1.226	-1.226	0 %100
43	M40	X	-.708	-.708	0 %100
44	M40	Z	-1.226	-1.226	0 %100
45	M42	X	-.918	-.918	0 %100
46	M42	Z	-1.59	-1.59	0 %100
47	M43	X	-.072	-.072	0 %100
48	M43	Z	-.124	-.124	0 %100
49	M44	X	-.918	-.918	0 %100
50	M44	Z	-1.59	-1.59	0 %100
51	M45	X	-.072	-.072	0 %100
52	M45	Z	-.124	-.124	0 %100
53	M46	X	-1.175	-1.175	0 %100
54	M46	Z	-2.036	-2.036	0 %100
55	M47	X	-.092	-.092	0 %100
56	M47	Z	-.159	-.159	0 %100
57	M48	X	-1.175	-1.175	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.%,]
58	M48	Z	-2.036	-2.036	0	%100
59	M49	X	-.092	-.092	0	%100
60	M49	Z	-.159	-.159	0	%100
61	M45A	X	-1.138	-1.138	0	%100
62	M45A	Z	-1.97	-1.97	0	%100
63	M46A	X	-1.145	-1.145	0	%100
64	M46A	Z	-1.984	-1.984	0	%100
65	M47A	X	-1.145	-1.145	0	%100
66	M47A	Z	-1.984	-1.984	0	%100
67	M48A	X	-1.138	-1.138	0	%100
68	M48A	Z	-1.97	-1.97	0	%100
69	M49A	X	-1.138	-1.138	0	%100
70	M49A	Z	-1.97	-1.97	0	%100
71	M50	X	-.985	-.985	0	%100
72	M50	Z	-1.706	-1.706	0	%100
73	M51	X	-.985	-.985	0	%100
74	M51	Z	-1.706	-1.706	0	%100
75	M52	X	-1.138	-1.138	0	%100
76	M52	Z	-1.97	-1.97	0	%100
77	M53	X	-2.247	-2.247	0	%100
78	M53	Z	-3.891	-3.891	0	%100
79	M54	X	-2.247	-2.247	0	%100
80	M54	Z	-3.891	-3.891	0	%100
81	M55	X	-.519	-.519	0	%100
82	M55	Z	-.899	-.899	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	-.639	-.639	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.639	-.639	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-.556	-.556	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-.556	-.556	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-.556	-.556	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-.556	-.556	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	-.134	-.134	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	-.134	-.134	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	-.073	-.073	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	-.073	-.073	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	-.073	-.073	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	-.073	-.073	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.%]
1	M1	X	.239	.239	0	%100
2	M1	Z	-.415	-.415	0	%100
3	M2	X	.239	.239	0	%100
4	M2	Z	-.415	-.415	0	%100
5	MP4A	X	.288	.288	0	%100
6	MP4A	Z	-.499	-.499	0	%100
7	MP3A	X	.288	.288	0	%100
8	MP3A	Z	-.499	-.499	0	%100
9	MP2A	X	.288	.288	0	%100
10	MP2A	Z	-.499	-.499	0	%100
11	MP1A	X	.288	.288	0	%100
12	MP1A	Z	-.499	-.499	0	%100
13	M17	X	.017	.017	0	%100
14	M17	Z	-.029	-.029	0	%100
15	M18	X	.017	.017	0	%100
16	M18	Z	-.029	-.029	0	%100
17	M21A	X	.05	.05	0	%100
18	M21A	Z	-.087	-.087	0	%100
19	M22A	X	.05	.05	0	%100
20	M22A	Z	-.087	-.087	0	%100
21	M22	X	.005	.005	0	%100
22	M22	Z	-.009	-.009	0	%100
23	M23	X	.067	.067	0	%100
24	M23	Z	-.115	-.115	0	%100
25	M24	X	.005	.005	0	%100
26	M24	Z	-.009	-.009	0	%100
27	M25	X	.067	.067	0	%100
28	M25	Z	-.115	-.115	0	%100
29	M26	X	.012	.012	0	%100
30	M26	Z	-.02	-.02	0	%100
31	M27	X	.15	.15	0	%100
32	M27	Z	-.26	-.26	0	%100
33	M28	X	.012	.012	0	%100
34	M28	Z	-.02	-.02	0	%100
35	M29	X	.15	.15	0	%100
36	M29	Z	-.26	-.26	0	%100
37	M37	X	.017	.017	0	%100
38	M37	Z	-.029	-.029	0	%100
39	M38	X	.017	.017	0	%100
40	M38	Z	-.029	-.029	0	%100
41	M39	X	.05	.05	0	%100
42	M39	Z	-.087	-.087	0	%100
43	M40	X	.05	.05	0	%100
44	M40	Z	-.087	-.087	0	%100
45	M42	X	.005	.005	0	%100
46	M42	Z	-.009	-.009	0	%100
47	M43	X	.067	.067	0	%100
48	M43	Z	-.115	-.115	0	%100
49	M44	X	.005	.005	0	%100
50	M44	Z	-.009	-.009	0	%100
51	M45	X	.067	.067	0	%100
52	M45	Z	-.115	-.115	0	%100
53	M46	X	.012	.012	0	%100
54	M46	Z	-.02	-.02	0	%100
55	M47	X	.15	.15	0	%100
56	M47	Z	-.26	-.26	0	%100
57	M48	X	.012	.012	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.%]
58	M48	Z	-.02	-.02	0	%100
59	M49	X	.15	.15	0	%100
60	M49	Z	-.26	-.26	0	%100
61	M45A	X	.084	.084	0	%100
62	M45A	Z	-.146	-.146	0	%100
63	M46A	X	.072	.072	0	%100
64	M46A	Z	-.124	-.124	0	%100
65	M47A	X	.072	.072	0	%100
66	M47A	Z	-.124	-.124	0	%100
67	M48A	X	.084	.084	0	%100
68	M48A	Z	-.146	-.146	0	%100
69	M49A	X	.084	.084	0	%100
70	M49A	Z	-.146	-.146	0	%100
71	M50	X	.083	.083	0	%100
72	M50	Z	-.144	-.144	0	%100
73	M51	X	.083	.083	0	%100
74	M51	Z	-.144	-.144	0	%100
75	M52	X	.084	.084	0	%100
76	M52	Z	-.146	-.146	0	%100
77	M53	X	.392	.392	0	%100
78	M53	Z	-.679	-.679	0	%100
79	M54	X	.392	.392	0	%100
80	M54	Z	-.679	-.679	0	%100
81	M55	X	.319	.319	0	%100
82	M55	Z	-.553	-.553	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	.138	.138	0	%100
2	M1	Z	-.08	-.08	0	%100
3	M2	X	.138	.138	0	%100
4	M2	Z	-.08	-.08	0	%100
5	MP4A	X	.535	.535	0	%100
6	MP4A	Z	-.309	-.309	0	%100
7	MP3A	X	.535	.535	0	%100
8	MP3A	Z	-.309	-.309	0	%100
9	MP2A	X	.535	.535	0	%100
10	MP2A	Z	-.309	-.309	0	%100
11	MP1A	X	.535	.535	0	%100
12	MP1A	Z	-.309	-.309	0	%100
13	M17	X	.087	.087	0	%100
14	M17	Z	-.05	-.05	0	%100
15	M18	X	.087	.087	0	%100
16	M18	Z	-.05	-.05	0	%100
17	M21A	X	.029	.029	0	%100
18	M21A	Z	-.017	-.017	0	%100
19	M22A	X	.029	.029	0	%100
20	M22A	Z	-.017	-.017	0	%100
21	M22	X	.007	.007	0	%100
22	M22	Z	-.004	-.004	0	%100
23	M23	X	.114	.114	0	%100
24	M23	Z	-.066	-.066	0	%100
25	M24	X	.007	.007	0	%100
26	M24	Z	-.004	-.004	0	%100
27	M25	X	.114	.114	0	%100
28	M25	Z	-.066	-.066	0	%100



Company : Maser Consulting
 Designer : CDH
 Job Number : Project No. 10019448
 Model Name : 468019-VZW_MT_LOT_SectorA_H

Nov 19, 2020
 10:49 AM
 Checked By: ILR

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.%]
29	M26	X	.017	.017	0	%100
30	M26	Z	-.01	-.01	0	%100
31	M27	X	.256	.256	0	%100
32	M27	Z	-.148	-.148	0	%100
33	M28	X	.017	.017	0	%100
34	M28	Z	-.01	-.01	0	%100
35	M29	X	.256	.256	0	%100
36	M29	Z	-.148	-.148	0	%100
37	M37	X	.087	.087	0	%100
38	M37	Z	-.05	-.05	0	%100
39	M38	X	.087	.087	0	%100
40	M38	Z	-.05	-.05	0	%100
41	M39	X	.029	.029	0	%100
42	M39	Z	-.017	-.017	0	%100
43	M40	X	.029	.029	0	%100
44	M40	Z	-.017	-.017	0	%100
45	M42	X	.007	.007	0	%100
46	M42	Z	-.004	-.004	0	%100
47	M43	X	.114	.114	0	%100
48	M43	Z	-.066	-.066	0	%100
49	M44	X	.007	.007	0	%100
50	M44	Z	-.004	-.004	0	%100
51	M45	X	.114	.114	0	%100
52	M45	Z	-.066	-.066	0	%100
53	M46	X	.017	.017	0	%100
54	M46	Z	-.01	-.01	0	%100
55	M47	X	.256	.256	0	%100
56	M47	Z	-.148	-.148	0	%100
57	M48	X	.017	.017	0	%100
58	M48	Z	-.01	-.01	0	%100
59	M49	X	.256	.256	0	%100
60	M49	Z	-.148	-.148	0	%100
61	M45A	X	.146	.146	0	%100
62	M45A	Z	-.084	-.084	0	%100
63	M46A	X	.124	.124	0	%100
64	M46A	Z	-.071	-.071	0	%100
65	M47A	X	.124	.124	0	%100
66	M47A	Z	-.071	-.071	0	%100
67	M48A	X	.146	.146	0	%100
68	M48A	Z	-.084	-.084	0	%100
69	M49A	X	.146	.146	0	%100
70	M49A	Z	-.084	-.084	0	%100
71	M50	X	.144	.144	0	%100
72	M50	Z	-.083	-.083	0	%100
73	M51	X	.144	.144	0	%100
74	M51	Z	-.083	-.083	0	%100
75	M52	X	.146	.146	0	%100
76	M52	Z	-.084	-.084	0	%100
77	M53	X	.699	.699	0	%100
78	M53	Z	-.404	-.404	0	%100
79	M54	X	.699	.699	0	%100
80	M54	Z	-.404	-.404	0	%100
81	M55	X	.422	.422	0	%100
82	M55	Z	-.243	-.243	0	%100

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



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.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP4A	X	.639	.639	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	.639	.639	0	%100
8	MP3A	Z	0	0	0	%100
9	MP2A	X	.639	.639	0	%100
10	MP2A	Z	0	0	0	%100
11	MP1A	X	.639	.639	0	%100
12	MP1A	Z	0	0	0	%100
13	M17	X	.134	.134	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.134	.134	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	0	0	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	0	0	0	%100
21	M22	X	.069	.069	0	%100
22	M22	Z	0	0	0	%100
23	M23	X	.069	.069	0	%100
24	M23	Z	0	0	0	%100
25	M24	X	.069	.069	0	%100
26	M24	Z	0	0	0	%100
27	M25	X	.069	.069	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	.156	.156	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	.156	.156	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	.156	.156	0	%100
34	M28	Z	0	0	0	%100
35	M29	X	.156	.156	0	%100
36	M29	Z	0	0	0	%100
37	M37	X	.134	.134	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	.134	.134	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	.069	.069	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	.069	.069	0	%100
48	M43	Z	0	0	0	%100
49	M44	X	.069	.069	0	%100
50	M44	Z	0	0	0	%100
51	M45	X	.069	.069	0	%100
52	M45	Z	0	0	0	%100
53	M46	X	.156	.156	0	%100
54	M46	Z	0	0	0	%100
55	M47	X	.156	.156	0	%100
56	M47	Z	0	0	0	%100
57	M48	X	.156	.156	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.%]
58	M48	Z	0	0	0	%100
59	M49	X	.156	.156	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	.168	.168	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	.154	.154	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	.154	.154	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	.168	.168	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	.168	.168	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	.154	.154	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	.154	.154	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	.168	.168	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	.819	.819	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	.819	.819	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	.168	.168	0	%100
82	M55	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	.138	.138	0	%100
2	M1	Z	.08	.08	0	%100
3	M2	X	.138	.138	0	%100
4	M2	Z	.08	.08	0	%100
5	MP4A	X	.535	.535	0	%100
6	MP4A	Z	.309	.309	0	%100
7	MP3A	X	.535	.535	0	%100
8	MP3A	Z	.309	.309	0	%100
9	MP2A	X	.535	.535	0	%100
10	MP2A	Z	.309	.309	0	%100
11	MP1A	X	.535	.535	0	%100
12	MP1A	Z	.309	.309	0	%100
13	M17	X	.087	.087	0	%100
14	M17	Z	.05	.05	0	%100
15	M18	X	.087	.087	0	%100
16	M18	Z	.05	.05	0	%100
17	M21A	X	.029	.029	0	%100
18	M21A	Z	.017	.017	0	%100
19	M22A	X	.029	.029	0	%100
20	M22A	Z	.017	.017	0	%100
21	M22	X	.114	.114	0	%100
22	M22	Z	.066	.066	0	%100
23	M23	X	.007	.007	0	%100
24	M23	Z	.004	.004	0	%100
25	M24	X	.114	.114	0	%100
26	M24	Z	.066	.066	0	%100
27	M25	X	.007	.007	0	%100
28	M25	Z	.004	.004	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.%]
29	M26	X	.256	.256	0	%100
30	M26	Z	.148	.148	0	%100
31	M27	X	.017	.017	0	%100
32	M27	Z	.01	.01	0	%100
33	M28	X	.256	.256	0	%100
34	M28	Z	.148	.148	0	%100
35	M29	X	.017	.017	0	%100
36	M29	Z	.01	.01	0	%100
37	M37	X	.087	.087	0	%100
38	M37	Z	.05	.05	0	%100
39	M38	X	.087	.087	0	%100
40	M38	Z	.05	.05	0	%100
41	M39	X	.029	.029	0	%100
42	M39	Z	.017	.017	0	%100
43	M40	X	.029	.029	0	%100
44	M40	Z	.017	.017	0	%100
45	M42	X	.114	.114	0	%100
46	M42	Z	.066	.066	0	%100
47	M43	X	.007	.007	0	%100
48	M43	Z	.004	.004	0	%100
49	M44	X	.114	.114	0	%100
50	M44	Z	.066	.066	0	%100
51	M45	X	.007	.007	0	%100
52	M45	Z	.004	.004	0	%100
53	M46	X	.256	.256	0	%100
54	M46	Z	.148	.148	0	%100
55	M47	X	.017	.017	0	%100
56	M47	Z	.01	.01	0	%100
57	M48	X	.256	.256	0	%100
58	M48	Z	.148	.148	0	%100
59	M49	X	.017	.017	0	%100
60	M49	Z	.01	.01	0	%100
61	M45A	X	.146	.146	0	%100
62	M45A	Z	.084	.084	0	%100
63	M46A	X	.144	.144	0	%100
64	M46A	Z	.083	.083	0	%100
65	M47A	X	.144	.144	0	%100
66	M47A	Z	.083	.083	0	%100
67	M48A	X	.146	.146	0	%100
68	M48A	Z	.084	.084	0	%100
69	M49A	X	.146	.146	0	%100
70	M49A	Z	.084	.084	0	%100
71	M50	X	.124	.124	0	%100
72	M50	Z	.071	.071	0	%100
73	M51	X	.124	.124	0	%100
74	M51	Z	.071	.071	0	%100
75	M52	X	.146	.146	0	%100
76	M52	Z	.084	.084	0	%100
77	M53	X	.699	.699	0	%100
78	M53	Z	.404	.404	0	%100
79	M54	X	.699	.699	0	%100
80	M54	Z	.404	.404	0	%100
81	M55	X	.000111	.000111	0	%100
82	M55	Z	6.4e-5	6.4e-5	0	%100

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



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.%]
1	M1	X	.239	.239	0	%100
2	M1	Z	.415	.415	0	%100
3	M2	X	.239	.239	0	%100
4	M2	Z	.415	.415	0	%100
5	MP4A	X	.288	.288	0	%100
6	MP4A	Z	.499	.499	0	%100
7	MP3A	X	.288	.288	0	%100
8	MP3A	Z	.499	.499	0	%100
9	MP2A	X	.288	.288	0	%100
10	MP2A	Z	.499	.499	0	%100
11	MP1A	X	.288	.288	0	%100
12	MP1A	Z	.499	.499	0	%100
13	M17	X	.017	.017	0	%100
14	M17	Z	.029	.029	0	%100
15	M18	X	.017	.017	0	%100
16	M18	Z	.029	.029	0	%100
17	M21A	X	.05	.05	0	%100
18	M21A	Z	.087	.087	0	%100
19	M22A	X	.05	.05	0	%100
20	M22A	Z	.087	.087	0	%100
21	M22	X	.067	.067	0	%100
22	M22	Z	.115	.115	0	%100
23	M23	X	.005	.005	0	%100
24	M23	Z	.009	.009	0	%100
25	M24	X	.067	.067	0	%100
26	M24	Z	.115	.115	0	%100
27	M25	X	.005	.005	0	%100
28	M25	Z	.009	.009	0	%100
29	M26	X	.15	.15	0	%100
30	M26	Z	.26	.26	0	%100
31	M27	X	.012	.012	0	%100
32	M27	Z	.02	.02	0	%100
33	M28	X	.15	.15	0	%100
34	M28	Z	.26	.26	0	%100
35	M29	X	.012	.012	0	%100
36	M29	Z	.02	.02	0	%100
37	M37	X	.017	.017	0	%100
38	M37	Z	.029	.029	0	%100
39	M38	X	.017	.017	0	%100
40	M38	Z	.029	.029	0	%100
41	M39	X	.05	.05	0	%100
42	M39	Z	.087	.087	0	%100
43	M40	X	.05	.05	0	%100
44	M40	Z	.087	.087	0	%100
45	M42	X	.067	.067	0	%100
46	M42	Z	.115	.115	0	%100
47	M43	X	.005	.005	0	%100
48	M43	Z	.009	.009	0	%100
49	M44	X	.067	.067	0	%100
50	M44	Z	.115	.115	0	%100
51	M45	X	.005	.005	0	%100
52	M45	Z	.009	.009	0	%100
53	M46	X	.15	.15	0	%100
54	M46	Z	.26	.26	0	%100
55	M47	X	.012	.012	0	%100
56	M47	Z	.02	.02	0	%100
57	M48	X	.15	.15	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, %]
58	M48	Z	.26	.26	0	%100
59	M49	X	.012	.012	0	%100
60	M49	Z	.02	.02	0	%100
61	M45A	X	.084	.084	0	%100
62	M45A	Z	.146	.146	0	%100
63	M46A	X	.083	.083	0	%100
64	M46A	Z	.144	.144	0	%100
65	M47A	X	.083	.083	0	%100
66	M47A	Z	.144	.144	0	%100
67	M48A	X	.084	.084	0	%100
68	M48A	Z	.146	.146	0	%100
69	M49A	X	.084	.084	0	%100
70	M49A	Z	.146	.146	0	%100
71	M50	X	.072	.072	0	%100
72	M50	Z	.124	.124	0	%100
73	M51	X	.072	.072	0	%100
74	M51	Z	.124	.124	0	%100
75	M52	X	.084	.084	0	%100
76	M52	Z	.146	.146	0	%100
77	M53	X	.392	.392	0	%100
78	M53	Z	.679	.679	0	%100
79	M54	X	.392	.392	0	%100
80	M54	Z	.679	.679	0	%100
81	M55	X	.076	.076	0	%100
82	M55	Z	.132	.132	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	.639	.639	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.639	.639	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	.556	.556	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.556	.556	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	.556	.556	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	.556	.556	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	0	0	0	%100
17	M21A	X	0	0	0	%100
18	M21A	Z	.134	.134	0	%100
19	M22A	X	0	0	0	%100
20	M22A	Z	.134	.134	0	%100
21	M22	X	0	0	0	%100
22	M22	Z	.073	.073	0	%100
23	M23	X	0	0	0	%100
24	M23	Z	.073	.073	0	%100
25	M24	X	0	0	0	%100
26	M24	Z	.073	.073	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	.073	.073	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.%]
29	M26	X	0	0	0	%100
30	M26	Z	.164	.164	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	.164	.164	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	.164	.164	0	%100
35	M29	X	0	0	0	%100
36	M29	Z	.164	.164	0	%100
37	M37	X	0	0	0	%100
38	M37	Z	0	0	0	%100
39	M38	X	0	0	0	%100
40	M38	Z	0	0	0	%100
41	M39	X	0	0	0	%100
42	M39	Z	.134	.134	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	.134	.134	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	.073	.073	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	.073	.073	0	%100
49	M44	X	0	0	0	%100
50	M44	Z	.073	.073	0	%100
51	M45	X	0	0	0	%100
52	M45	Z	.073	.073	0	%100
53	M46	X	0	0	0	%100
54	M46	Z	.164	.164	0	%100
55	M47	X	0	0	0	%100
56	M47	Z	.164	.164	0	%100
57	M48	X	0	0	0	%100
58	M48	Z	.164	.164	0	%100
59	M49	X	0	0	0	%100
60	M49	Z	.164	.164	0	%100
61	M45A	X	0	0	0	%100
62	M45A	Z	.168	.168	0	%100
63	M46A	X	0	0	0	%100
64	M46A	Z	.155	.155	0	%100
65	M47A	X	0	0	0	%100
66	M47A	Z	.155	.155	0	%100
67	M48A	X	0	0	0	%100
68	M48A	Z	.168	.168	0	%100
69	M49A	X	0	0	0	%100
70	M49A	Z	.168	.168	0	%100
71	M50	X	0	0	0	%100
72	M50	Z	.155	.155	0	%100
73	M51	X	0	0	0	%100
74	M51	Z	.155	.155	0	%100
75	M52	X	0	0	0	%100
76	M52	Z	.168	.168	0	%100
77	M53	X	0	0	0	%100
78	M53	Z	.772	.772	0	%100
79	M54	X	0	0	0	%100
80	M54	Z	.772	.772	0	%100
81	M55	X	0	0	0	%100
82	M55	Z	.471	.471	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.%]
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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.%]
1	M1	X	-.239	-.239	0 %100
2	M1	Z	.415	.415	0 %100
3	M2	X	-.239	-.239	0 %100
4	M2	Z	.415	.415	0 %100
5	MP4A	X	-.288	-.288	0 %100
6	MP4A	Z	.499	.499	0 %100
7	MP3A	X	-.288	-.288	0 %100
8	MP3A	Z	.499	.499	0 %100
9	MP2A	X	-.288	-.288	0 %100
10	MP2A	Z	.499	.499	0 %100
11	MP1A	X	-.288	-.288	0 %100
12	MP1A	Z	.499	.499	0 %100
13	M17	X	-.017	-.017	0 %100
14	M17	Z	.029	.029	0 %100
15	M18	X	-.017	-.017	0 %100
16	M18	Z	.029	.029	0 %100
17	M21A	X	-.05	-.05	0 %100
18	M21A	Z	.087	.087	0 %100
19	M22A	X	-.05	-.05	0 %100
20	M22A	Z	.087	.087	0 %100
21	M22	X	-.005	-.005	0 %100
22	M22	Z	.009	.009	0 %100
23	M23	X	-.067	-.067	0 %100
24	M23	Z	.115	.115	0 %100
25	M24	X	-.005	-.005	0 %100
26	M24	Z	.009	.009	0 %100
27	M25	X	-.067	-.067	0 %100
28	M25	Z	.115	.115	0 %100
29	M26	X	-.012	-.012	0 %100
30	M26	Z	.02	.02	0 %100
31	M27	X	-.15	-.15	0 %100
32	M27	Z	.26	.26	0 %100
33	M28	X	-.012	-.012	0 %100
34	M28	Z	.02	.02	0 %100
35	M29	X	-.15	-.15	0 %100
36	M29	Z	.26	.26	0 %100
37	M37	X	-.017	-.017	0 %100
38	M37	Z	.029	.029	0 %100
39	M38	X	-.017	-.017	0 %100
40	M38	Z	.029	.029	0 %100
41	M39	X	-.05	-.05	0 %100
42	M39	Z	.087	.087	0 %100
43	M40	X	-.05	-.05	0 %100
44	M40	Z	.087	.087	0 %100
45	M42	X	-.005	-.005	0 %100
46	M42	Z	.009	.009	0 %100
47	M43	X	-.067	-.067	0 %100
48	M43	Z	.115	.115	0 %100
49	M44	X	-.005	-.005	0 %100
50	M44	Z	.009	.009	0 %100
51	M45	X	-.067	-.067	0 %100
52	M45	Z	.115	.115	0 %100
53	M46	X	-.012	-.012	0 %100
54	M46	Z	.02	.02	0 %100
55	M47	X	-.15	-.15	0 %100
56	M47	Z	.26	.26	0 %100
57	M48	X	-.012	-.012	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.%]
58	M48	Z	.02	.02	0	%100
59	M49	X	-.15	-.15	0	%100
60	M49	Z	.26	.26	0	%100
61	M45A	X	-.084	-.084	0	%100
62	M45A	Z	.146	.146	0	%100
63	M46A	X	-.072	-.072	0	%100
64	M46A	Z	.124	.124	0	%100
65	M47A	X	-.072	-.072	0	%100
66	M47A	Z	.124	.124	0	%100
67	M48A	X	-.084	-.084	0	%100
68	M48A	Z	.146	.146	0	%100
69	M49A	X	-.084	-.084	0	%100
70	M49A	Z	.146	.146	0	%100
71	M50	X	-.083	-.083	0	%100
72	M50	Z	.144	.144	0	%100
73	M51	X	-.083	-.083	0	%100
74	M51	Z	.144	.144	0	%100
75	M52	X	-.084	-.084	0	%100
76	M52	Z	.146	.146	0	%100
77	M53	X	-.392	-.392	0	%100
78	M53	Z	.679	.679	0	%100
79	M54	X	-.392	-.392	0	%100
80	M54	Z	.679	.679	0	%100
81	M55	X	-.319	-.319	0	%100
82	M55	Z	.553	.553	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	-.138	-.138	0	%100
2	M1	Z	.08	.08	0	%100
3	M2	X	-.138	-.138	0	%100
4	M2	Z	.08	.08	0	%100
5	MP4A	X	-.535	-.535	0	%100
6	MP4A	Z	.309	.309	0	%100
7	MP3A	X	-.535	-.535	0	%100
8	MP3A	Z	.309	.309	0	%100
9	MP2A	X	-.535	-.535	0	%100
10	MP2A	Z	.309	.309	0	%100
11	MP1A	X	-.535	-.535	0	%100
12	MP1A	Z	.309	.309	0	%100
13	M17	X	-.087	-.087	0	%100
14	M17	Z	.05	.05	0	%100
15	M18	X	-.087	-.087	0	%100
16	M18	Z	.05	.05	0	%100
17	M21A	X	-.029	-.029	0	%100
18	M21A	Z	.017	.017	0	%100
19	M22A	X	-.029	-.029	0	%100
20	M22A	Z	.017	.017	0	%100
21	M22	X	-.007	-.007	0	%100
22	M22	Z	.004	.004	0	%100
23	M23	X	-.114	-.114	0	%100
24	M23	Z	.066	.066	0	%100
25	M24	X	-.007	-.007	0	%100
26	M24	Z	.004	.004	0	%100
27	M25	X	-.114	-.114	0	%100
28	M25	Z	.066	.066	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.%]
29	M26	X	-.017	-.017	0 %100
30	M26	Z	.01	.01	0 %100
31	M27	X	-.256	-.256	0 %100
32	M27	Z	.148	.148	0 %100
33	M28	X	-.017	-.017	0 %100
34	M28	Z	.01	.01	0 %100
35	M29	X	-.256	-.256	0 %100
36	M29	Z	.148	.148	0 %100
37	M37	X	-.087	-.087	0 %100
38	M37	Z	.05	.05	0 %100
39	M38	X	-.087	-.087	0 %100
40	M38	Z	.05	.05	0 %100
41	M39	X	-.029	-.029	0 %100
42	M39	Z	.017	.017	0 %100
43	M40	X	-.029	-.029	0 %100
44	M40	Z	.017	.017	0 %100
45	M42	X	-.007	-.007	0 %100
46	M42	Z	.004	.004	0 %100
47	M43	X	-.114	-.114	0 %100
48	M43	Z	.066	.066	0 %100
49	M44	X	-.007	-.007	0 %100
50	M44	Z	.004	.004	0 %100
51	M45	X	-.114	-.114	0 %100
52	M45	Z	.066	.066	0 %100
53	M46	X	-.017	-.017	0 %100
54	M46	Z	.01	.01	0 %100
55	M47	X	-.256	-.256	0 %100
56	M47	Z	.148	.148	0 %100
57	M48	X	-.017	-.017	0 %100
58	M48	Z	.01	.01	0 %100
59	M49	X	-.256	-.256	0 %100
60	M49	Z	.148	.148	0 %100
61	M45A	X	-.146	-.146	0 %100
62	M45A	Z	.084	.084	0 %100
63	M46A	X	-.124	-.124	0 %100
64	M46A	Z	.071	.071	0 %100
65	M47A	X	-.124	-.124	0 %100
66	M47A	Z	.071	.071	0 %100
67	M48A	X	-.146	-.146	0 %100
68	M48A	Z	.084	.084	0 %100
69	M49A	X	-.146	-.146	0 %100
70	M49A	Z	.084	.084	0 %100
71	M50	X	-.144	-.144	0 %100
72	M50	Z	.083	.083	0 %100
73	M51	X	-.144	-.144	0 %100
74	M51	Z	.083	.083	0 %100
75	M52	X	-.146	-.146	0 %100
76	M52	Z	.084	.084	0 %100
77	M53	X	-.699	-.699	0 %100
78	M53	Z	.404	.404	0 %100
79	M54	X	-.699	-.699	0 %100
80	M54	Z	.404	.404	0 %100
81	M55	X	-.422	-.422	0 %100
82	M55	Z	.243	.243	0 %100

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



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, %]
1	M1	X	0	0	%100
2	M1	Z	0	0	%100
3	M2	X	0	0	%100
4	M2	Z	0	0	%100
5	MP4A	X	-0.639	-0.639	%100
6	MP4A	Z	0	0	%100
7	MP3A	X	-0.639	-0.639	%100
8	MP3A	Z	0	0	%100
9	MP2A	X	-0.639	-0.639	%100
10	MP2A	Z	0	0	%100
11	MP1A	X	-0.639	-0.639	%100
12	MP1A	Z	0	0	%100
13	M17	X	-0.134	-0.134	%100
14	M17	Z	0	0	%100
15	M18	X	-0.134	-0.134	%100
16	M18	Z	0	0	%100
17	M21A	X	0	0	%100
18	M21A	Z	0	0	%100
19	M22A	X	0	0	%100
20	M22A	Z	0	0	%100
21	M22	X	-0.069	-0.069	%100
22	M22	Z	0	0	%100
23	M23	X	-0.069	-0.069	%100
24	M23	Z	0	0	%100
25	M24	X	-0.069	-0.069	%100
26	M24	Z	0	0	%100
27	M25	X	-0.069	-0.069	%100
28	M25	Z	0	0	%100
29	M26	X	-0.156	-0.156	%100
30	M26	Z	0	0	%100
31	M27	X	-0.156	-0.156	%100
32	M27	Z	0	0	%100
33	M28	X	-0.156	-0.156	%100
34	M28	Z	0	0	%100
35	M29	X	-0.156	-0.156	%100
36	M29	Z	0	0	%100
37	M37	X	-0.134	-0.134	%100
38	M37	Z	0	0	%100
39	M38	X	-0.134	-0.134	%100
40	M38	Z	0	0	%100
41	M39	X	0	0	%100
42	M39	Z	0	0	%100
43	M40	X	0	0	%100
44	M40	Z	0	0	%100
45	M42	X	-0.069	-0.069	%100
46	M42	Z	0	0	%100
47	M43	X	-0.069	-0.069	%100
48	M43	Z	0	0	%100
49	M44	X	-0.069	-0.069	%100
50	M44	Z	0	0	%100
51	M45	X	-0.069	-0.069	%100
52	M45	Z	0	0	%100
53	M46	X	-0.156	-0.156	%100
54	M46	Z	0	0	%100
55	M47	X	-0.156	-0.156	%100
56	M47	Z	0	0	%100
57	M48	X	-0.156	-0.156	%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, %]
58	M48	Z	0	0	0	%100
59	M49	X	-.156	-.156	0	%100
60	M49	Z	0	0	0	%100
61	M45A	X	-.168	-.168	0	%100
62	M45A	Z	0	0	0	%100
63	M46A	X	-.154	-.154	0	%100
64	M46A	Z	0	0	0	%100
65	M47A	X	-.154	-.154	0	%100
66	M47A	Z	0	0	0	%100
67	M48A	X	-.168	-.168	0	%100
68	M48A	Z	0	0	0	%100
69	M49A	X	-.168	-.168	0	%100
70	M49A	Z	0	0	0	%100
71	M50	X	-.154	-.154	0	%100
72	M50	Z	0	0	0	%100
73	M51	X	-.154	-.154	0	%100
74	M51	Z	0	0	0	%100
75	M52	X	-.168	-.168	0	%100
76	M52	Z	0	0	0	%100
77	M53	X	-.819	-.819	0	%100
78	M53	Z	0	0	0	%100
79	M54	X	-.819	-.819	0	%100
80	M54	Z	0	0	0	%100
81	M55	X	-.168	-.168	0	%100
82	M55	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	-.138	-.138	0	%100
2	M1	Z	-.08	-.08	0	%100
3	M2	X	-.138	-.138	0	%100
4	M2	Z	-.08	-.08	0	%100
5	MP4A	X	-.535	-.535	0	%100
6	MP4A	Z	-.309	-.309	0	%100
7	MP3A	X	-.535	-.535	0	%100
8	MP3A	Z	-.309	-.309	0	%100
9	MP2A	X	-.535	-.535	0	%100
10	MP2A	Z	-.309	-.309	0	%100
11	MP1A	X	-.535	-.535	0	%100
12	MP1A	Z	-.309	-.309	0	%100
13	M17	X	-.087	-.087	0	%100
14	M17	Z	-.05	-.05	0	%100
15	M18	X	-.087	-.087	0	%100
16	M18	Z	-.05	-.05	0	%100
17	M21A	X	-.029	-.029	0	%100
18	M21A	Z	-.017	-.017	0	%100
19	M22A	X	-.029	-.029	0	%100
20	M22A	Z	-.017	-.017	0	%100
21	M22	X	-.114	-.114	0	%100
22	M22	Z	-.066	-.066	0	%100
23	M23	X	-.007	-.007	0	%100
24	M23	Z	-.004	-.004	0	%100
25	M24	X	-.114	-.114	0	%100
26	M24	Z	-.066	-.066	0	%100
27	M25	X	-.007	-.007	0	%100
28	M25	Z	-.004	-.004	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.%]
29	M26	X	-0.256	-0.256	0	%100
30	M26	Z	-0.148	-0.148	0	%100
31	M27	X	-0.017	-0.017	0	%100
32	M27	Z	-0.01	-0.01	0	%100
33	M28	X	-0.256	-0.256	0	%100
34	M28	Z	-0.148	-0.148	0	%100
35	M29	X	-0.017	-0.017	0	%100
36	M29	Z	-0.01	-0.01	0	%100
37	M37	X	-0.087	-0.087	0	%100
38	M37	Z	-0.05	-0.05	0	%100
39	M38	X	-0.087	-0.087	0	%100
40	M38	Z	-0.05	-0.05	0	%100
41	M39	X	-0.029	-0.029	0	%100
42	M39	Z	-0.017	-0.017	0	%100
43	M40	X	-0.029	-0.029	0	%100
44	M40	Z	-0.017	-0.017	0	%100
45	M42	X	-0.114	-0.114	0	%100
46	M42	Z	-0.066	-0.066	0	%100
47	M43	X	-0.007	-0.007	0	%100
48	M43	Z	-0.004	-0.004	0	%100
49	M44	X	-0.114	-0.114	0	%100
50	M44	Z	-0.066	-0.066	0	%100
51	M45	X	-0.007	-0.007	0	%100
52	M45	Z	-0.004	-0.004	0	%100
53	M46	X	-0.256	-0.256	0	%100
54	M46	Z	-0.148	-0.148	0	%100
55	M47	X	-0.017	-0.017	0	%100
56	M47	Z	-0.01	-0.01	0	%100
57	M48	X	-0.256	-0.256	0	%100
58	M48	Z	-0.148	-0.148	0	%100
59	M49	X	-0.017	-0.017	0	%100
60	M49	Z	-0.01	-0.01	0	%100
61	M45A	X	-0.146	-0.146	0	%100
62	M45A	Z	-0.084	-0.084	0	%100
63	M46A	X	-0.144	-0.144	0	%100
64	M46A	Z	-0.083	-0.083	0	%100
65	M47A	X	-0.144	-0.144	0	%100
66	M47A	Z	-0.083	-0.083	0	%100
67	M48A	X	-0.146	-0.146	0	%100
68	M48A	Z	-0.084	-0.084	0	%100
69	M49A	X	-0.146	-0.146	0	%100
70	M49A	Z	-0.084	-0.084	0	%100
71	M50	X	-0.124	-0.124	0	%100
72	M50	Z	-0.071	-0.071	0	%100
73	M51	X	-0.124	-0.124	0	%100
74	M51	Z	-0.071	-0.071	0	%100
75	M52	X	-0.146	-0.146	0	%100
76	M52	Z	-0.084	-0.084	0	%100
77	M53	X	-0.699	-0.699	0	%100
78	M53	Z	-0.404	-0.404	0	%100
79	M54	X	-0.699	-0.699	0	%100
80	M54	Z	-0.404	-0.404	0	%100
81	M55	X	-0.000111	-0.000111	0	%100
82	M55	Z	-6.4e-5	-6.4e-5	0	%100

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



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.%]
1	M1	X	-239	-239	0 %100
2	M1	Z	-415	-415	0 %100
3	M2	X	-239	-239	0 %100
4	M2	Z	-415	-415	0 %100
5	MP4A	X	-288	-288	0 %100
6	MP4A	Z	-499	-499	0 %100
7	MP3A	X	-288	-288	0 %100
8	MP3A	Z	-499	-499	0 %100
9	MP2A	X	-288	-288	0 %100
10	MP2A	Z	-499	-499	0 %100
11	MP1A	X	-288	-288	0 %100
12	MP1A	Z	-499	-499	0 %100
13	M17	X	-017	-017	0 %100
14	M17	Z	-029	-029	0 %100
15	M18	X	-017	-017	0 %100
16	M18	Z	-029	-029	0 %100
17	M21A	X	-05	-05	0 %100
18	M21A	Z	-087	-087	0 %100
19	M22A	X	-05	-05	0 %100
20	M22A	Z	-087	-087	0 %100
21	M22	X	-067	-067	0 %100
22	M22	Z	-115	-115	0 %100
23	M23	X	-005	-005	0 %100
24	M23	Z	-009	-009	0 %100
25	M24	X	-067	-067	0 %100
26	M24	Z	-115	-115	0 %100
27	M25	X	-005	-005	0 %100
28	M25	Z	-009	-009	0 %100
29	M26	X	-15	-15	0 %100
30	M26	Z	-26	-26	0 %100
31	M27	X	-012	-012	0 %100
32	M27	Z	-02	-02	0 %100
33	M28	X	-15	-15	0 %100
34	M28	Z	-26	-26	0 %100
35	M29	X	-012	-012	0 %100
36	M29	Z	-02	-02	0 %100
37	M37	X	-017	-017	0 %100
38	M37	Z	-029	-029	0 %100
39	M38	X	-017	-017	0 %100
40	M38	Z	-029	-029	0 %100
41	M39	X	-05	-05	0 %100
42	M39	Z	-087	-087	0 %100
43	M40	X	-05	-05	0 %100
44	M40	Z	-087	-087	0 %100
45	M42	X	-067	-067	0 %100
46	M42	Z	-115	-115	0 %100
47	M43	X	-005	-005	0 %100
48	M43	Z	-009	-009	0 %100
49	M44	X	-067	-067	0 %100
50	M44	Z	-115	-115	0 %100
51	M45	X	-005	-005	0 %100
52	M45	Z	-009	-009	0 %100
53	M46	X	-15	-15	0 %100
54	M46	Z	-26	-26	0 %100
55	M47	X	-012	-012	0 %100
56	M47	Z	-02	-02	0 %100
57	M48	X	-15	-15	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.%]
58	M48	Z	-0.26	-0.26	0	%100
59	M49	X	-0.012	-0.012	0	%100
60	M49	Z	-0.02	-0.02	0	%100
61	M45A	X	-0.084	-0.084	0	%100
62	M45A	Z	-0.146	-0.146	0	%100
63	M46A	X	-0.083	-0.083	0	%100
64	M46A	Z	-0.144	-0.144	0	%100
65	M47A	X	-0.083	-0.083	0	%100
66	M47A	Z	-0.144	-0.144	0	%100
67	M48A	X	-0.084	-0.084	0	%100
68	M48A	Z	-0.146	-0.146	0	%100
69	M49A	X	-0.084	-0.084	0	%100
70	M49A	Z	-0.146	-0.146	0	%100
71	M50	X	-0.072	-0.072	0	%100
72	M50	Z	-0.124	-0.124	0	%100
73	M51	X	-0.072	-0.072	0	%100
74	M51	Z	-0.124	-0.124	0	%100
75	M52	X	-0.084	-0.084	0	%100
76	M52	Z	-0.146	-0.146	0	%100
77	M53	X	-0.392	-0.392	0	%100
78	M53	Z	-0.679	-0.679	0	%100
79	M54	X	-0.392	-0.392	0	%100
80	M54	Z	-0.679	-0.679	0	%100
81	M55	X	-0.076	-0.076	0	%100
82	M55	Z	-0.132	-0.132	0	%100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
No Data to Print ...												

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

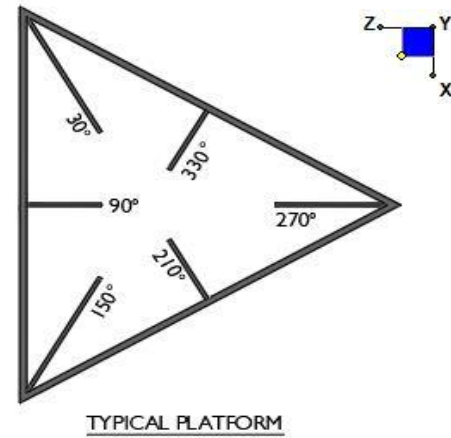
Member	Shape	Code C...	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
No Data to Print ...												



I. Mount-to-Tower Connection Check

RISA Model Data

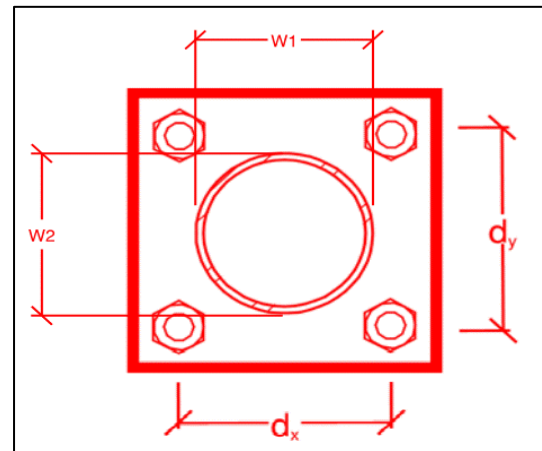
Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N66	120
N32	120



Tower Connection Bolt Checks

Any moment resistance?:
 Bolt Quantity per Reaction:
 d_x (in) (Delta X of typ. bolt config. sketch) :
 d_y (in) (Delta Y of typ. bolt config. sketch) :
 Bolt Type:
 Bolt Diameter (in):
 Required Tensile Strength (kips):
 Required Shear Strength (kips):
 Tensile Strength / bolt (kips):
 Shear Strength / bolt (kips):
 Tensile Capacity Overall:
 Shear Capacity Overall:

yes
4
5
3.75
A307
0.5
9.9
4.0
6.4
3.8
38.7%*
26.2%



*Note: Tension reduction not required if tension or shear capacity < 30%

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.vzwsmart.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.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis

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

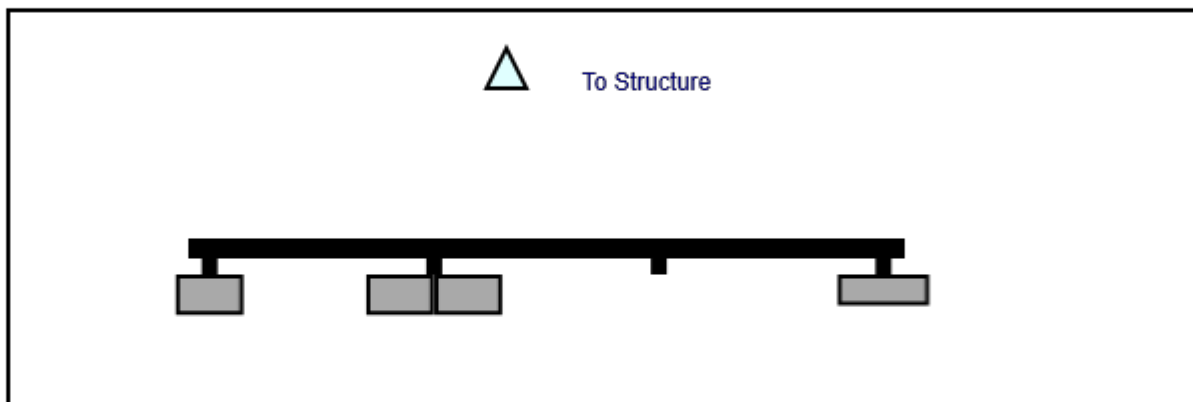
Sector: **A**
 Structure Type: Self Support
 Mount Elev: 143.00

11/19/2020

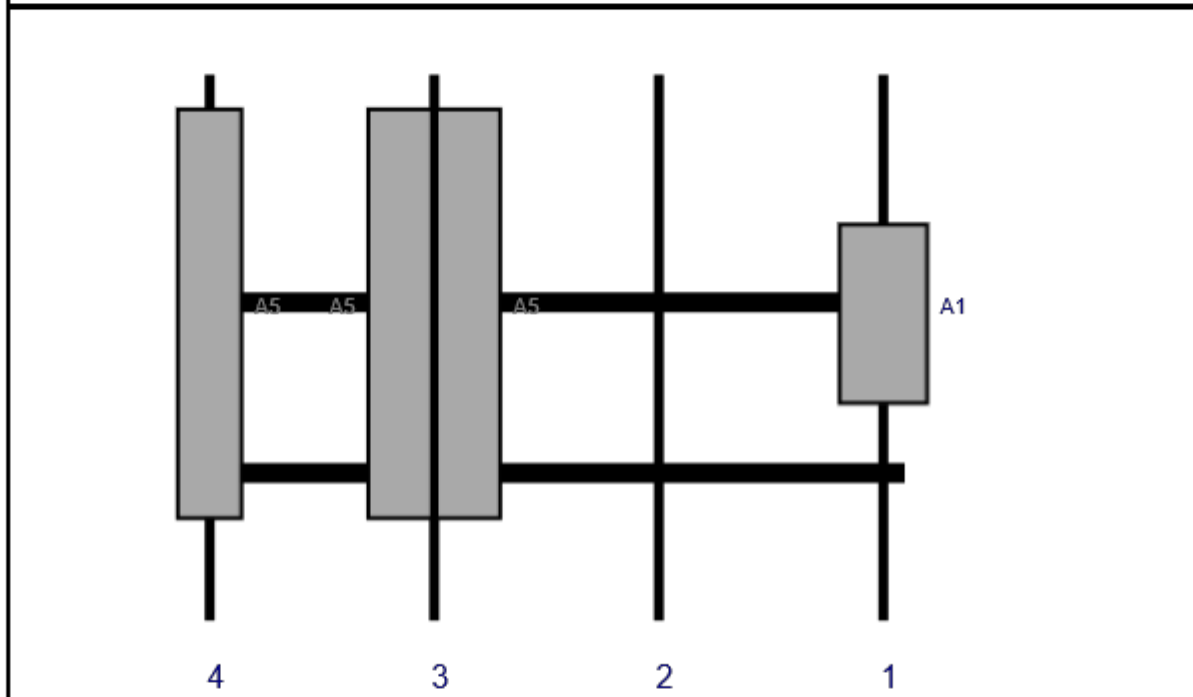


Page: 1

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	nL-Sub 6 Antenna	32.1	16.1	122.25	1	a	Front	42	0	Added	
A5	SBNHH-1D65B	72.6	11.9	43.25	3	a	Front	42	-6	Retained	11/10/2020
A5	SBNHH-1D65B	72.6	11.9	43.25	3	b	Front	42	6	Retained	11/10/2020
A5	SBNHH-1D65B	72.6	11.9	3.75	4	a	Front	42	0	Retained	11/10/2020

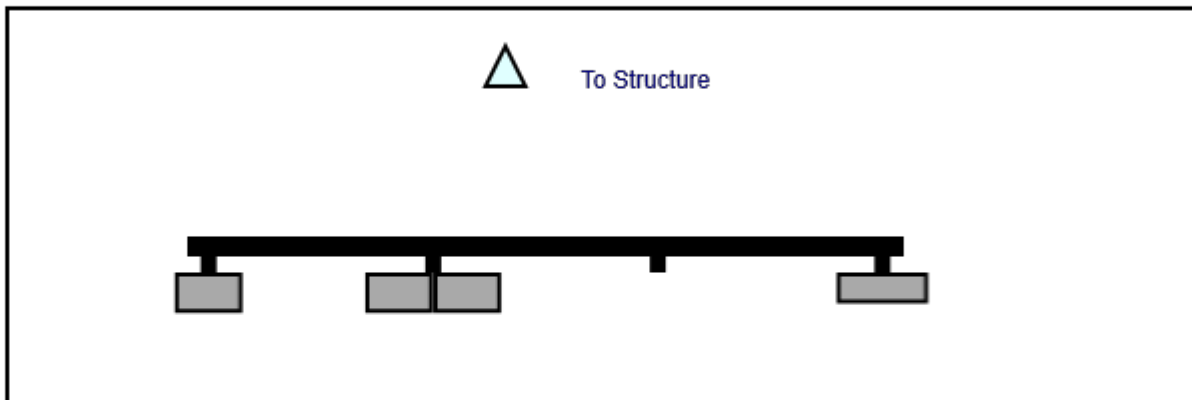
Sector: **B**
 Structure Type: Self Support
 Mount Elev: 143.00

11/19/2020

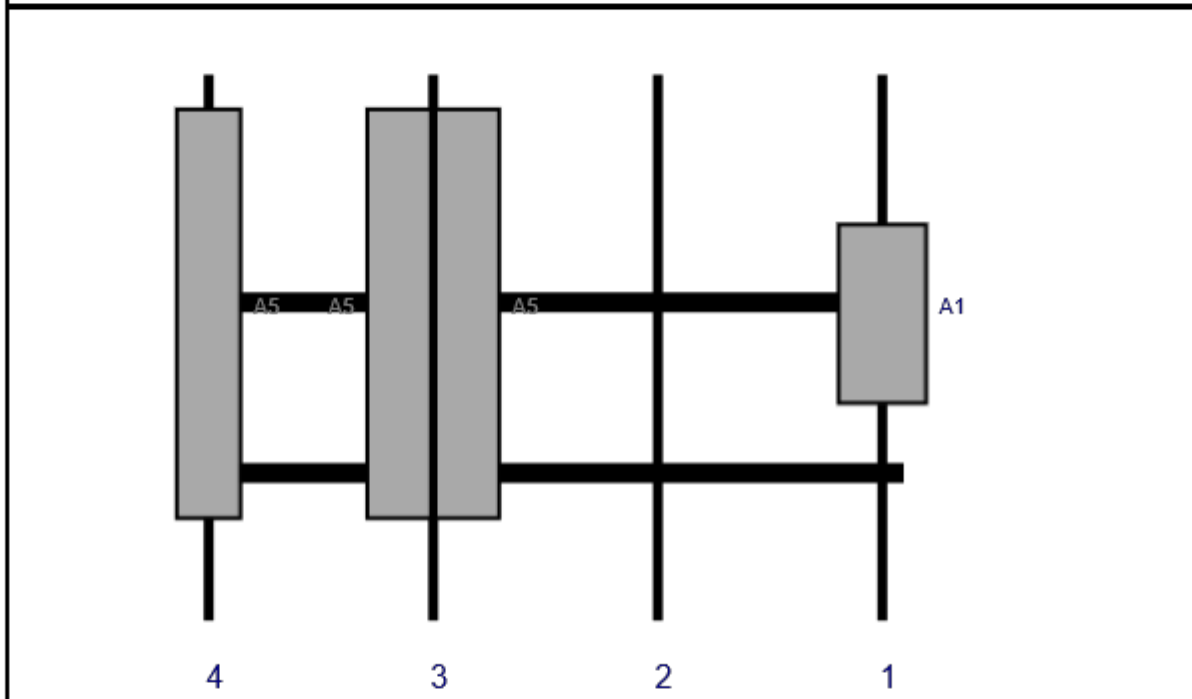


Page: 2

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	nL-Sub 6 Antenna	32.1	16.1	122.25	1	a	Front	42	0	Added	
A5	SBNHH-1D65B	72.6	11.9	43.25	3	a	Front	42	-6	Retained	11/10/2020
A5	SBNHH-1D65B	72.6	11.9	43.25	3	b	Front	42	6	Retained	11/10/2020
A5	SBNHH-1D65B	72.6	11.9	3.75	4	a	Front	42	0	Retained	11/10/2020

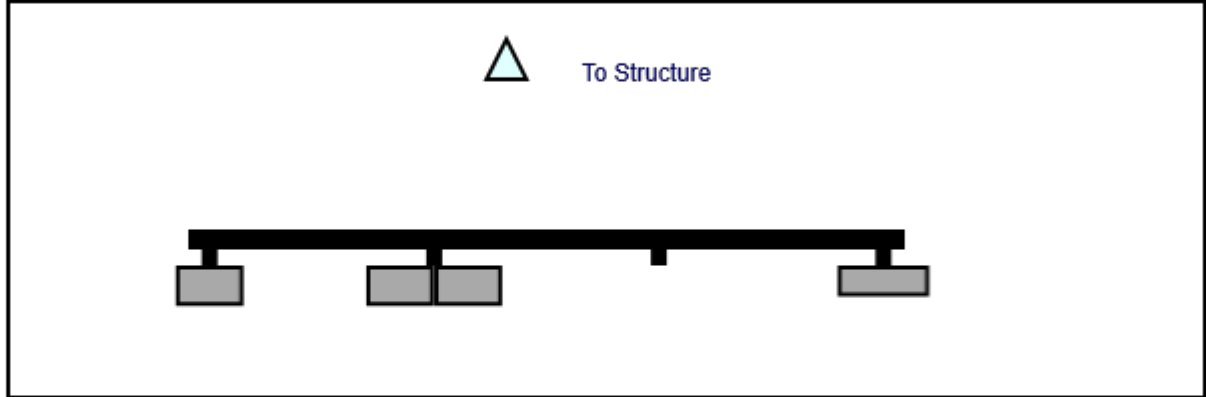
Sector: **C**
 Structure Type: Self Support
 Mount Elev: 143.00

11/19/2020

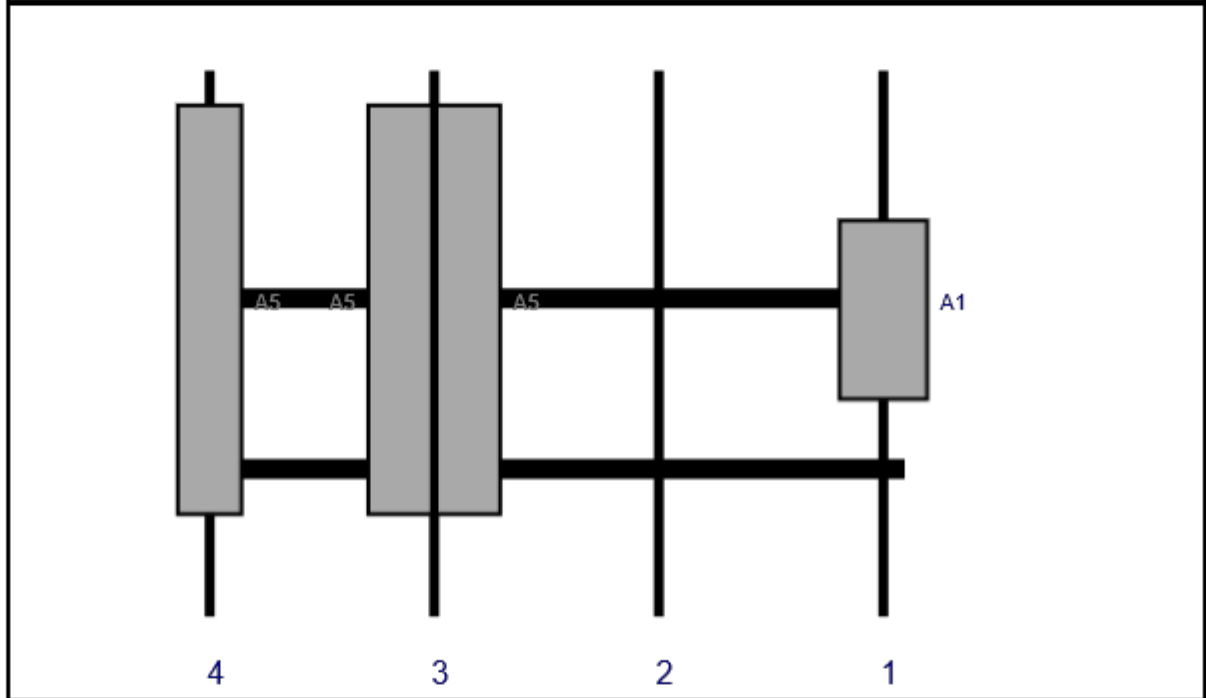


Page: 3

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	nL-Sub 6 Antenna	32.1	16.1	122.25	1	a	Front	42	0	Added	
A5	SBNHH-1D65B	72.6	11.9	43.25	3	a	Front	42	-6	Retained	11/10/2020
A5	SBNHH-1D65B	72.6	11.9	43.25	3	b	Front	42	6	Retained	11/10/2020
A5	SBNHH-1D65B	72.6	11.9	3.75	4	a	Front	42	0	Retained	11/10/2020

Maser Consulting Connecticut

Subject

TIA-222-H Adoption and Wind Speed Usage

Site Information

Site ID: 468019-VZW / East Windsor CT

Site Name: East Windsor CT

Carrier Name: Verizon Wireless

Address: 248 S Main ST

East Windsor, Connecticut 6088

Hartford County

Latitude: 41.877042°

Longitude: -72.610923°

Structure Information

Tower Type: 190-Ft Self Support

Mount Type: 10.50-Ft Sector Frame

To Whom It May Concern,

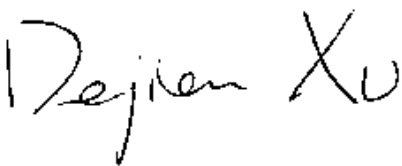
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

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 tower site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,



Dejian Xu, PE

Technical Specialist

Date: **April 12, 2021**

Andrew Leone
Verizon Wireless
118 Flanders Road
Westborough, MA 01581

Paul J. Ford & Company
250 East Broad Street, Suite 600
Columbus, OH 43215
614.221.6679

Re: East Windsor CT – L-Sub6/VZS01 Verizon Project

Structure: Existing 188-ft Self Support Tower
Site Name: East Windsor CT
Site Address: 232-236 South Main Street
City, County, State: East Windsor, Hartford County, CT
Latitude, Longitude: 41.877, -72.6109

PJF Project: A42921-0001.001.8700

Dear Mr. Leone,

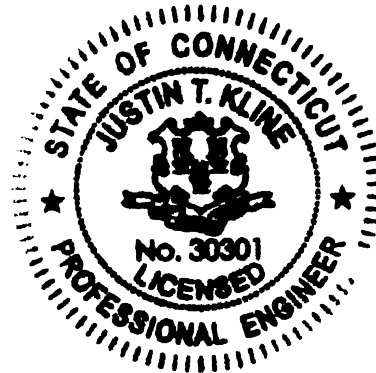
I am writing this letter to confirm that the Samsung 64T64R MMU antenna (referenced in the report as the VZS01 antenna) was used in Paul J. Ford & Company's Structural Analysis dated 2/11/2021 for the tower described above.

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and Verizon Wireless. If you have any questions or need further assistance on this or any other projects, please give us a call.

Respectfully submitted by:



Seth Tschanen, P.E.
Project Engineer
stschanen@pauljford.com



March 29, 2021

Mr. Andrew Leone
Verizon Wireless
20 Alexander Dr.
Wallingford, CT 06492

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

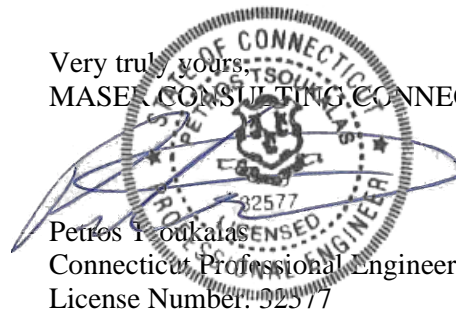
Dear Mr. Leone,

This letter is intended to clarify and confirm the antenna naming convention used by Verizon Wireless as a part of an antenna upgrade project on numerous wireless facilities.

The antenna naming convention “Licensed Sub-6, L-Sub6, nL-Sub6, VZS01” and any other slight variants refer to the 64T64RMMU antenna manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the “Antenna Mount Analysis”.

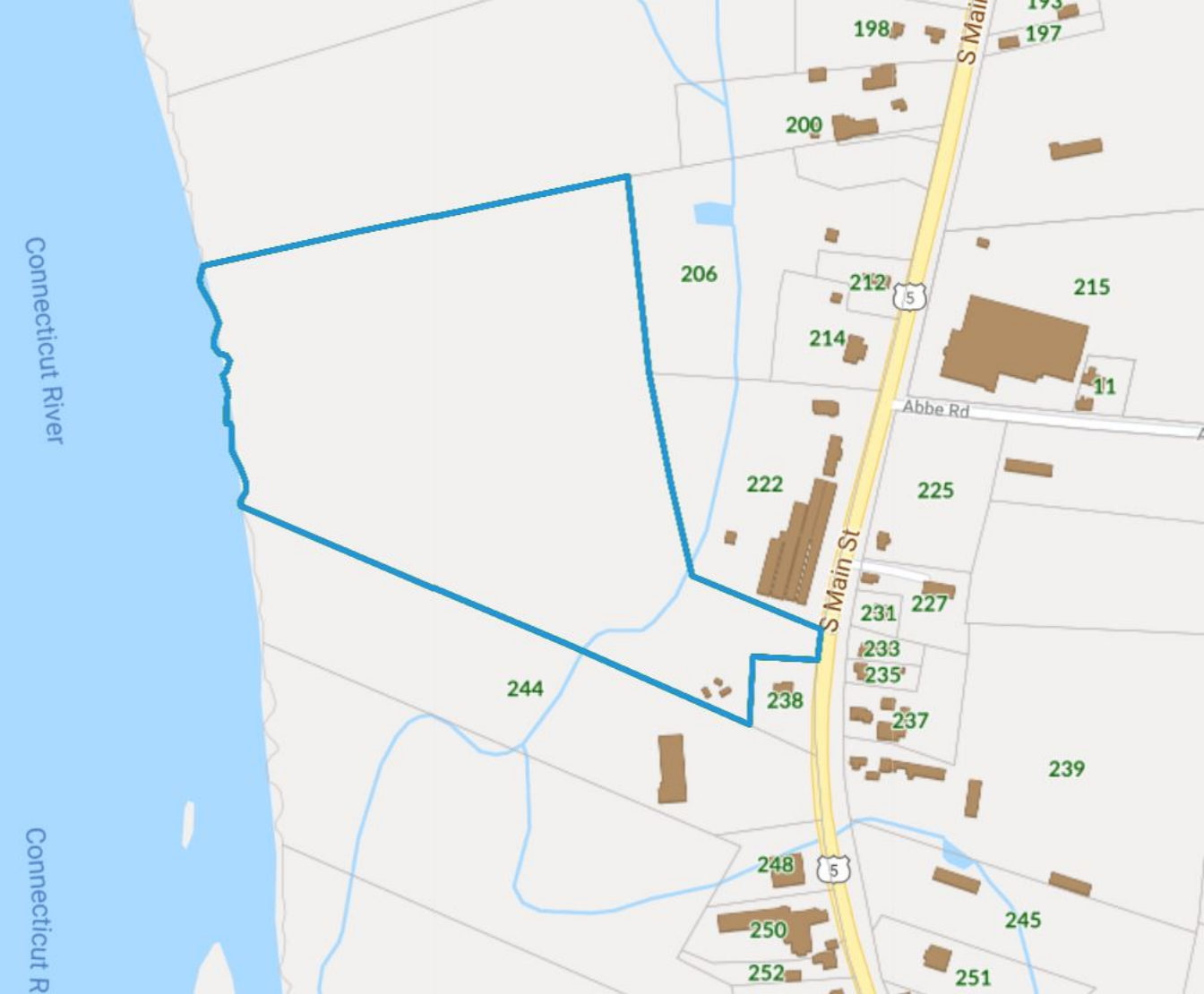
If you have any questions or comments, or require additional information, please do not hesitate to contact me.

Very truly yours,
MASER CONSULTING CONNECTICUT



Petros I. Ioukalis
Connecticut Professional Engineer
License Number: 32577

Attachment 5



Connecticut River

Connecticut R

198

197

200

206

212

214

215

11

222

225

Abbe Rd

231

227

233

235

237

238

239

244

248

250

252

245

251

S Main

S Main St

5

5

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2017.



Information on the Property Records for the Municipality of East Windsor was last updated on 4/16/2021.

Property Summary Information

- [Parcel Data And Values](#)
- [Outbuildings](#)

Parcel Information

Location:	232 SOUTH MAIN ST	Property Use:	Vacant Land	Primary Use:	Commercial Vacant Land
Unique ID:	00167124	Map Block Lot:	012 05 084 -01	Acres:	0.00
490 Acres:	0.00	Zone:	M-1	Volume / Page:	0115/0840
Developers Map / Lot:		Census:	4841000		

Value Information

	Appraised Value	Assessed Value
Land	0	0
Buildings	0	0
Detached Outbuildings	54,000	37,800
Total	54,000	37,800

Owner's Information

Owner's Data

BALCH BRIDGE STREET CORP
248 SOUTH MAIN ST
EAST WINDSOR, CT 06088

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Cell Tower	Cell Tower	2013		0

Owner History - Sales

Owner Name Volume Page Sale Date Deed Type Valid Sale Sale Price

Building Permits

Permit Number Permit Type Date Opened Date Closed Permit Status Reason

Google Map

Unique Id:

00167124

Location:

232 SOUTH MAI

MBL:

012 05 084 -01

Primary Use:

Commercial Vaca

Zone:

M-1

Acres:

0.00

Appraised Value:

\$54,000

Assessed Value:

\$37,800

[Back To Search](#)

[Print View](#)

Information Published With Permission From The Assessor

Attachment 6



Certificate of Mailing — Firm

<p>Name and Address of Sender</p> <p>Kenneth C. Baldwin Robinson & Cole LLP 28 Trumbull Street Hartford, CT 06103-3597</p>	<p>TOTAL NO. of Pieces Listed by Sender</p> <p>3</p> <p>TOTAL NO. of Pieces Received at Post Office™</p> <p>3</p> <p>Postmaster, per (name of receiving employee)</p> <p>STATE, CT APR 19 2021</p>	<p>Affix Stamp Here Postmark with Date of Receipt.</p> <p>neopost 04/19/2021 US POSTAGE \$002.89</p> <p>ZIP 06103 041L12203337</p> <p>OLD STATE HOUSE STATION 06103 USPS</p>
<p>USPS® Tracking Number</p> <p>Firm-specific Identifier</p>	<p>Address (Name, Street, City, State, and ZIP Code™)</p> <p>1. Jason E. Bowsza, First Selectman East Windsor Town Hall 11 Rye Street East Windsor, CT 06016</p> <p>2. Clark Chapin, Director Planning & Community Development East Windsor Town Hall 11 Rye Street Broad-Break, CT 06016</p> <p>3. Balch Bridge Street Corporation 248 South Main Street East Windsor, CT 06088</p> <p>4.</p> <p>5.</p> <p>6.</p>	<p>Postage</p> <p>Fee</p> <p>Special Handling</p> <p>Parcel Airift</p>